



Worsley Alumina

WORSLEY BAUXITE ALUMINA PROJECT – MINE EXPANSION

**MS1237 COMPLIANCE ASSESSMENT REPORT
20 DECEMBER 2024 – 30 JUNE 2025**

**EPBC 2019/8437 ANNUAL COMPLIANCE REPORT
11 FEBRUARY – 30 JUNE 2025**

REPORT DATE: 30 SEPTEMBER 2025

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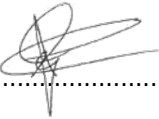
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PROPONENT DECLARATION / ENDORSEMENT

I, Pine Pienaar, Vice President Operations, declare that I am authorised on behalf of South32 Worsley Alumina Pty Ltd (*being the person responsible for the proposal*) to submit this Compliance Assessment Report for Ministerial Statement 1237 and this Annual Compliance Report for EPBC 2019/8437, and the information contained herein is true and not misleading.

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

Signature:.....

Full name	Pine Pienaar
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Position	Vice President Operations
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Organisation	South32 Worsley Alumina Pty Ltd (ABN 58 008 905 155)
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Date	23 September 2025
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1 INTRODUCTION

South32 Worsley Alumina Pty Ltd (ABN 58 008 905 155) (Worsley Alumina) has continued to develop and implement environmental management programs in accordance with commitments and obligations to the State of Western Australia and Commonwealth of Australia, primarily those pertaining to the:

- *Alumina Refinery (Worsley) Agreement Act 1973*
- Worsley Environmental Review Document (2022) (from December 2024) & Worsley Alumina Project Environmental Review & Management Programme (ERMP) 2005 (to December 2024)
- Ministerial Statement 1237 (MS1237) (from 20 December 2024) and Ministerial Statement 719 (MS719) (to 19 Dec 2024)
- Commonwealth Approval Instrument (EPBC 2019/8437) issued 11 February 2025
- Commonwealth Approval Instrument (EPBC 2004/1566) issued 6 June 2006;
- *Environmental Protection Act 1986* (EP Act) and associated Licences; and
- *Environmental Protection and Biodiversity Conservation Act (1999)*.

This report outlines the progressive implementation of environmental management and research programs and provides a detailed performance as well as compliance assessment regarding statutory environmental requirements.

This Compliance Assessment Report/Annual Compliance Report (CAR) has been prepared in accordance with condition D2-1 of MS1237 and condition 75 of EPBC 2019/8437. As this CAR is the first to be provided to demonstrate compliance with the conditions of MS1237 and EPBC 2019/8437, the reporting period includes the date that MS1237 was issued (20 December 2024) until 30 June 2025, the end of the reporting period. EPBC 2019/8437 was issued on 11 February 2025 and therefore reporting against conditions of this approval is applicable from that date. MS719 was in effect from 13 April 2006 to December 2024 and compliance with those conditions in the reporting period 1 July 2024 to 19 December 2024 is addressed in Appendix 1. Compliance with conditions of EPBC 2004/1566 in the reporting period is also addressed within this CAR.

1.1 PROJECT DETAILS

Worsley Alumina operates and manages the Worsley Bauxite/Alumina Project (Worsley Project) on behalf of the Worsley Joint Venture – Bauxite/Alumina Operations (Worsley JV). The Worsley Project involves mining and crushing ore at the Boddington Bauxite Mine (BBM), the transportation of crushed ore from the BBM to the Worsley Refinery by the Overland Bauxite Conveyor (OBC), the processing and refining of ore to produce alumina at the Refinery, and the transportation of alumina by rail to the Bunbury port for exportation to aluminium smelters around the world.

1.1.1 Ownership

The Worsley JV is managed by Worsley Alumina and includes the following joint venture participants and participating interests:

- South32 Aluminium (RAA) Pty Ltd (ACN 095 831 119) - 56%;
- South32 Aluminium (Worsley) Pty Ltd (ACN 088 336 921) - 30%;
- Japan Alumina Associates (Australia) Pty Ltd (ACN 008 907 524) - 10%; and
- Sojitz Alumina Pty Ltd (ACN 009 309 344) - 4%.

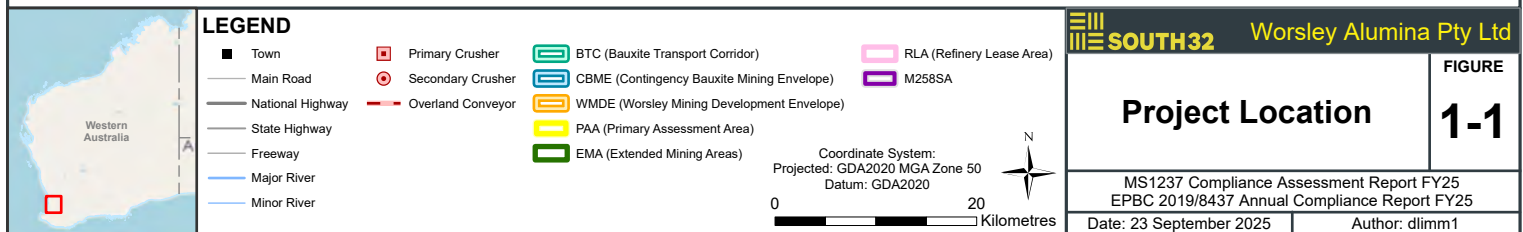
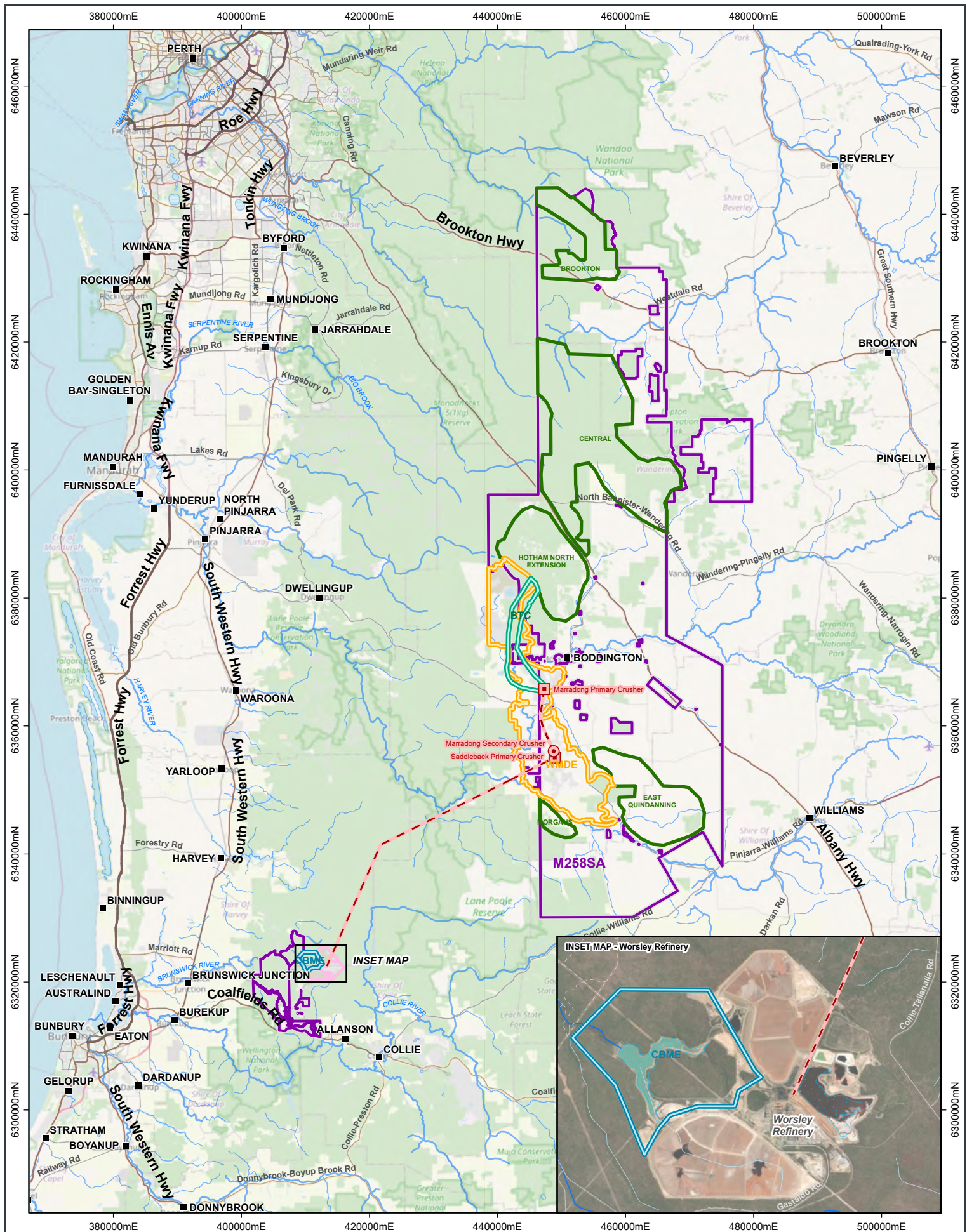
1.1.2 Operations

Worsley Alumina commenced alumina production in 1984 and operates the Worsley Project pursuant to the *Alumina Refinery (Worsley) Agreement Act 1973* (State Agreement).

The Worsley Alumina Project is located on the Darling Plateau, which forms the south-western margin of the Great Plateau of Western Australia (Figure 1-1).

The Boddington Bauxite Mine (BBM) is located approximately 3 kilometres (km) from the Boddington town site in the Hotham River catchment. Mining is undertaken on Crown Land and private land on the eastern edge of the Darling Range in the northern jarrah forest (NJF) and the surrounding Saddleback, Quindanning and Marradong Timber Reserves.

Crushed bauxite is transported 51 km by a two-flight cable belt conveyor system from the BBM to the Refinery at Worsley, 20 km north-west of Collie. The Worsley Refinery lies within the catchment of the Augustus River. Raw materials and products are shipped through the Port of Bunbury, 45 km to the south-west.



1.2 ENVIRONMENTAL APPROVALS

The Worsley Project is fully operational under the State Agreement with tenure primarily on mining lease M258SA and additional surrounding mining leases granted pursuant to the *Mining Act 1978* as well as sublease arrangements with Alcoa of Australia Limited (Alcoa) on three sections of Mineral Lease ML1SA.

The Worsley Project has been subject to several regulatory approvals since commencement. The State Agreement provided the initial basis for the Worsley Project to proceed following assessment and approval of an Environmental Review and Management Programme which was granted in 1980. The project has since undergone expansions with three additional assessments. The first referral in 1995 included an expansion in refinery capacity from 2.0 Mtpa to 3.5 Mtpa and associated bauxite mining activities at BBM and was subject to a Consultative Environmental Review resulting in Ministerial Statement 423 (MS423) issued on 2 July 1996. This proposal was subject to the *Environmental Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) exemption as it was approved prior to the EPBC Act coming into force.

Referred in 2004, a second proposal which included a further increase in refinery production capacity to 4.4 Mtpa, was subject to an Environmental Review and Management Programme, assessed under a Bilateral Agreement. This assessment process resulted in the issue of MS719 on 13 April 2006 replacing and extending MS423 and so continued to provide approval for the proposal originally subject to MS423, as well as provide new approval for the proposal described in the 2005 Environmental Review and Management Programme. In addition, EPBC Act approval 2004/1566 was granted for this proposal on 6 June 2007 for the Extended Mining Areas (Figure 1-1) with mining operations within the PBA remaining subject to the EPBC Act exemption.

Worsley Alumina has recently sought and was awarded State and Commonwealth environmental approval on a third proposal to extend Worsley Project mining into additional adjacent bauxitic areas to the west and north of previously approved areas, while utilising the existing mining and conveying infrastructure at Marradong and Saddleback (Worsley Mine Expansion – Revised Proposal). The expansion of the BBM increased the MS719 approved mining envelope from 22,102 ha to 27,629 ha, an area which encompasses and expands the pre-existing approval area and is referred to as the Worsley Mining Development Envelope (WMDE) (Figure 1-1). Other scopes of the proposal (collectively referred to as the Primary Assessment Area or PAA) included the Bauxite Transport Corridor (BTC) - 4,146 ha of which 3,332 overlaps the WMDE - and the Contingency Bauxite Mining Envelope (CBME) at Worsley Alumina's Refinery.

The proposal as outlined in the Environmental Review Document was made available for public comment on 20 June 2022 to 29 August 2022 with final response to submissions submitted by Worsley Alumina on 12 March 2024. (EPA Assessment Reference: 2216, EPBC Reference: 2019/8437). EPA Report 1768 issued 8 July 2024 recommended approval of the Worsley Mine Expansion – Revised Proposal with conditions. On 20 December 2024, Ministerial Statement 1237 (MS1237) was issued for the Worsley Mine Expansion – Revised Proposal and on 11 February 2025, Federal approval EPBC 2019/8437 was issued.

Continuation of existing mining activities (previously subject to MS719 and EPBC Act exemptions) and new proposed mining activities within the PAA are now subject to MS1237. The EPBC Act approval (EPBC 2004/1566) granted on 6 June 2007 for the Extended Mining Areas remains in effect.

1.3 SCOPE OF COMPLIANCE ASSESSMENT REPORT (CAR)

This report on environmental performance of the Worsley Bauxite/Alumina operation is submitted in accordance with the following requirements.

1.3.1 *Environmental Protection Act 1986* (WA) Ministerial Statement 1237

This CAR has been prepared in accordance with EPA Post Assessment Guidelines No. 3: *Post Assessment Guideline for Preparing a Compliance Assessment Report* (OEPA, 2012) and covers the extent of the proposal as described in MS1237 Part A for the period 20 December 2024 to 30 June 2025.

This CAR has been prepared and published consistent with Worsley Alumina's Compliance Assessment Plan (CAP) required by MS1237 condition D2-5 which the CEO has confirmed in writing satisfies the relevant requirements of MS1237. The Audit Compliance Table for MS1237 is provided in Section 6.1.

Some figures and data are reported for the entire 2025 financial year (FY25) to provide a more complete and reasonable review of outcomes or data. Where this occurs, it is noted.

As MS719 was in effect from 1 July 2024 to 19 December 2024, to assess compliance for the entire reporting period from 1 July 2024 to 30 June 2025, compliance with MS719 conditions up to 19 December 2024 is included in Appendix 1: MS719 PERFORMANCE REPORT.

1.3.2 Environment Protection and Biodiversity Conservation Act 1999 (Cth)

This CAR has also been prepared in accordance with the Commonwealth's *Annual Compliance Report Guidelines* (DCCEEW, 2023) to satisfy the requirements of the EPBC Act approvals:

- EPBC 2019/8437 (PAA); and
- EPBC 2004/1566 (EMAs).

The Audit Compliance Tables for EPBC 2019/8437 and EPBC 2004/1566 are provided in Sections 6.2 and 6.3, respectively.

In the EPBC 2019/8437 approval, the Annual Compliance Report period is defined as each subsequent 12-month period following the date of the approval decision (11 February) until the expiry of the approval, unless otherwise specified in writing.

Worsley Alumina has requested the Commonwealth consider a variation certain to conditions of EPBC 2019/8437 to align the Annual Compliance Report period (ACR period) to the same date as the State's annual compliance assessment reporting requirements, to permit submission of a single report for both regulators (30 September annually for an end reporting period of the previous financial year ending 30 June). As this request is still being considered, in this instance Worsley Alumina has included the reporting requirements of the Commonwealth approvals within this CAR and it will be published on the South32 website in accordance with the MS1237 requirements.

1.3.3 Alumina Refinery (Worsley) Agreement Act 1973 (WA) (State Agreement)

This CAR will be provided to the Minister for State Development to provide necessary reporting under the State Agreement including:

- Clause 5A (3) of the State Agreement, which in summary requires the Worsley JVs to provide on an annual basis an interim report concerning investigations and research conducted under clause 54A(2);
- Clause 12C (3) of the State Agreement which in summary requires the Worsley JVs to report acoustic monitoring results for the overland bauxite conveyor.

2 SUMMARY OF PROPOSAL AND IMPLEMENTATION STATUS

As noted above in section 1.2, Worsley Alumina has been producing alumina in the current location since 1984. MS1237 and EPBC 2019/8437 were approved to support the Worsley Mine Expansion - Revised Proposal (Revised Proposal), which included continuation of current operations and included extension and definition of development envelopes to support further mining activities and infrastructure. Implementation of the revised proposal commenced once both State and Commonwealth approvals were received, and all further relevant approvals were provided by the State to allow commencement of ground disturbing activities (Condition C1-1). Table 2-1 provides a summary of the implementation status of several of the key activities. While some mine activities include construction activities, the Worsley Project has been operational for more than 40 years. As such, the implementation status of the project is considered "operational".

In accordance with the requirements of EPBC 2019/8437 condition 67, notification of commencement of the action was submitted to DCCEEW in writing via email on 12 February 2025.

Table 2-1 Implementation Status of Key Activities

KEY PROPOSAL ACTIVITIES	IMPLEMENTATION STATUS
Alumina Production	Continued during the reporting period
Bauxite Mining	Continued during the reporting period - Mining activities commenced in the WMDE, outside of the previously approved Primary Bauxite Area (PBA) - Mining in the CBME not commenced
Bauxite Transport (OBC & OLC)	Continued during the reporting period using existing infrastructure
Bauxite Transport Corridor (BTC)	Commencement of construction activities occurred during the reporting period including: Construction of laydown facilities
Bauxite Transport to service Extended Mining Areas (EMAs)	Not yet implemented
Clearing of Native Vegetation - Mining	Continued during the reporting period A total of 37.3 ha of native vegetation was cleared during the reporting period
Clearing of Native Vegetation – RLA, CBME, Wellington Dam pipeline	No additional clearing within the RLA, CBME or for the Wellington Dam Pipeline occurred during the reporting period.
Construction & Support Facilities	Commencement of construction activities occurred during the reporting period including: - Continued production water bore exploration - Construction of laydown facilities in BTC

2.1 PRIMARY ASSESSMENT AREA (PAA)

As described in Section 1.2, the PAA includes the development envelopes WMDE and BTC at the BBM, and the CBME at Worsley Alumina's Refinery.

As noted above in Table 2-1 mining activities within the WMDE commenced and continued during the reporting period. Figure 4-1 outlines the areas of disturbance from December 2024 to June 2025. Construction of laydown facilities within the BTC within the PAA commenced during the reporting period and water bore exploration continued. No ground disturbing activities were undertaken in the Contingency Bauxite Mining Envelope (CBME) during the reporting period.

2.2 EXTENDED MINING AREAS

Ground disturbing activities as described by MS1237, have not yet commenced within the Extended Mining Areas (EMAs). Consequently, Part B (B) conditions B5 to B11 are currently not applicable. Worsley Alumina provided the Department of Water and Environmental Regulation (DWER) and the Department of Climate Change, Energy, the Environment and Water (DCCEEW) with a draft Scope of Biodiversity-related Investigations (BIS) in accordance with condition 8 of MS719 in 2007. The BIS was later endorsed by DWER in April 2008 and DCCEEW in November 2007. Subsequently, Worsley Alumina amended the BIS and provided the amended BIS to the Environmental Management Liaison Group (EMLG) and DCCEEW for comment in 2023. This amended BIS was revised to address comments received from the EMLG and was endorsed by DCCEEW on 10 July 2024. The revised amended BIS was subsequently submitted to DWER for endorsement in accordance with condition B4-2 of MS1237 on 4 June 2025. No response has been received from DWER to date.

Worsley Alumina has commenced preliminary biodiversity-related investigations in line with the amended BIS. The results of these investigations will be used to prepare the Biodiversity-related Investigations Report required by MS1237 condition B4-6.

2.3 REFINERY

Refinery operations continued during the reporting period. Alumina production for the financial year was 4.33Mt.

2.4 OVERLAND BAUXITE CONVEYOR

Operation of the OBC transporting crushed ore from the BBM to the Worsley Refinery continued during the reporting period.

2.4.1 Noise Management

Management of noise emissions from the OBC continued to be a high priority at Worsley Alumina. Activities during the reporting period included:

- Continued replacement of split rim type pulleys with mono-tyre pulleys within noise-sensitive areas;
- Continuation of the insert replacement program along the conveyor. This consists of placing inserts between two steel structures to reduce vibration and ultimately reduce noise emissions; and
- An ongoing program to reduce noise emissions from the conveyor bridges. This involves routine inspection and maintenance including replacing or tightening all nuts and bolts, replacing the running gear on the bridges and ensuring the conveyor cowling was secure.

2.4.2 Noise Monitoring

This section relates specifically to the noise monitoring activities of the OBC in accordance with the *Alumina Refinery (Worsley) Agreement Act 1973* (Worsley State Agreement, WSA). Noise monitoring of the conveyor is undertaken in accordance with clause 12C. Clause 12C requires operation of the conveyor to ensure noise received at given monitoring points (R, S, T & U on Plan Z of the WSA) as a result of operation of the OBC for more than 90% of any 15 minute period of operation to be less than 60 dB LA Slow (or such other level and/or measurement points and/or measurement method as may be agreed between the Minister and the Joint Venturers from time to time).

During the reporting period there were no alerts from noise monitors R, S, T and U.

Two real time noise monitoring terminals (NMTs) monitor compliance to the State Agreement for the Marradong conveyor (OLC). These monitors are located 900 m from the conveyor and produce an alert to Pit Control when L_{AS10} over a 15-minute period reaches 60 dB(A). During the reporting period all alerts were investigated. Zero alerts were found to have been triggered by OLC operations.

Additional NMTs near monitoring points T and U have been in operation since 2016. These monitors produce an alert to Pit Control when the L_{AS90} over a 15-minute period is above 60 dB(A). No such alerts from these two NMTs were found to be attributed to OBC operations during the reporting period.

3 STATEMENT OF COMPLIANCE

3.1 MINISTERIAL STATEMENT 1237

3.1.1 Proposal and Proponent Details

Proposal Title	Worsley Mine Expansion - Revised Proposal
Statement Number	1237
Proponent Name	South32 Worsley Alumina Pty Ltd
Proponent's Australian Company Number (where relevant)	58 008 905 155

3.1.2 Statement of Compliance Details

Reporting Period	20/12/24 to 30/06/25
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Implementation phase(s) during reporting period (please tick ✓ relevant phase(s))							
Pre-construction		Construction		Operation	✓	Decommissioning	

Were all implementation conditions and/or procedures of the Statement complied with within the reporting period? (please tick ✓ the appropriate box)			
No (please refer to Section 5)	✓	Yes	

Refer to Section 4 for details of declared compliance status. A Compliance Assessment Audit Table indicating status of compliance has been prepared from MS1237 in accordance with the Post Assessment Guideline No.1 – *Preparing an Audit Table* (PAG 1) (OEPA, 2012b). The Audit Table is provided in Section 6 (Table 6-1).

3.2 EPBC 2019/8437

A conditions compliance table indicating status of compliance has been prepared for EPBC2019/8437 in accordance with the DCCEEW Annual Compliance Report Guidelines – *Reporting under the Environmental Protection and Biodiversity Conservation Act 1999*. The Audit Table is provided in Section 6 (Table 6-2).

Four non-compliance events have been recorded in relation to approval EPBC2019/8437. Refer to section 4 for details of declared compliance status and section 5.1 for further information related to non-compliance events.

4 DETAILS OF DECLARED COMPLIANCE STATUS

This section details the compliance status for each condition of MS1237 and EPBC 2019/8437 in the reporting period. Compliance is detailed by conditions under defined Environmental Factors which aligns with the structure of MS1237.

4.1 MODIFICATIONS TO MS1237

No proposals to amend, or subsequent amendments to MS1237, were made during the reporting period. Given this, no notifications to DCCEE in accordance with conditions 65 and 66 of EPBC 2019/8437 were required.

4.2 KEY PROPOSAL CHARACTERISTICS

Compliance against the Key Proposal Characteristics of MS1237 have been provided separately in Table 4-1 for ease of assessment. Compliance against all further conditions has been assessed in Section 6, Table 6-1. In accordance with MS1237 condition C3-1 and C3-2, Worsley Alumina has included, as part of this CAR, a Compliance Monitoring Report which outlines the monitoring for MS1237 Part A and the outcomes of MS1237 Part B where a monitoring plan is not expressly required to measure environmental outcomes. The Compliance Monitoring Report is provided in Appendix 2: Compliance Monitoring Report. Worsley Alumina is compliant with proposal elements outlined in MS1237 condition A1-1 except for total water use at the Refinery (Operational Elements). Worsley Alumina was compliant with most implemented conditions of MS1237 during the reporting period, with details of non-compliances and potential non-compliances outlined in Section 5.

Table 4-1 MS1237 Proposal Limitations and Extent of Proposal (Condition A1-1 of MS1237)

Audit Code	Subject	Requirement			Status	Further Information
		Proposal Element	Location	Maximum Extent/Capacity		
MS1237:A1-1	Proposal Implementation	The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded				
		Alumina Production	N/A	4.7 Mtpa	C	FY25: 4.33 Mt Section 2.3
		Bauxite Mining				
		Physical elements				
		Mining Development Envelope	Worsley Mining Development Envelope (WMDE) – Figure 1	27,629 ha	C	No change to the WMDE
			Extended Mining Areas – Figure 3	74,918 ha	C	No change to the EMAs
		Existing Overland Bauxite Conveyor	Figure 3	Mine to refinery	C	No change to the OBC
		Bauxite Transport Corridor (BTC) connecting existing conveyor to Hotham North mining region in the WMDE	Bauxite Transport Corridor (BTC) Development Envelope – Figure 1	4,146 ha of which 3,332 ha overlaps the WMDE	C	No change to the BTC
		Bauxite transport to service Extended Mining Areas	Figure 3	34 km extension from Hotham North to Central, 16 km spur within Central and 28 km extension from Central to Brookton	NR	Section 4.4
		Clearing of Native Vegetation	Within WMDE	8,823 ha	C	Table 4-5
			Within BTC	160 ha	C	Table 4-5
			Within Extended Mining Areas and for transport to service these areas	8,400 ha	NR	Table 4-5
		Operational Elements				
		Mining rate	WMDE and Extended Mining Areas	Up to 18.8 Mtpa (dry)	C	FY25: 16.81 Mt
		Bauxite transport	Existing Overland Conveyor	Cable belt conveyor and conventional idler type conveyor	C	No change to type of conveyor

DETAILS OF DECLARED COMPLIANCE STATUS

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
			BTC and Extended Mining Areas	Conventional idler type conveyors and/or truck transport	C	No change to type of conveyor
		Crushing facilities	WMDE and Extended Mining Areas	4 primary crushing facilities 2 secondary crushing facilities	C	2 Primary crushers 2 Secondary crushers No new crushing facilities added
		Water source and use for mining operations	Groundwater and surface water in the vicinity of mining areas	900 ML/a	C	486.6 ML/a Section 4.7.2 Table 4-15
Refinery						
<i>Physical Elements</i>						
		Refinery Lease Area (RLA)	Figure 2	2,500 ha	C	No change to the RLA
		Contingency Bauxite Mining Envelope (CBME) – for Contingency Mining and Residue Storage	Figure 2	747 ha within the RLA	C	No change to the CBME
		Bauxite Residue Disposal Area	Figure 2	Existing footprint plus expansion into CBME to a height of RL 345 m AHD	C	Appendix 2: Compliance Monitoring Report
		Wellington Dam Pipeline	Figure 3	Wellington Dam to Refinery	C	Table 4-5
		Clearing of Native Vegetation	Within Refinery Lease Area (RLA) for maintenance activities	66.6 ha	C	Table 4-5
			Within Contingency Bauxite Mining Envelope (CBME) for maintenance activities and contingency mining and residue storage	135 ha	C	Table 4-5
			Within Wellington National Park for the Wellington Dam Pipeline	8 ha	C	Table 4-5
<i>Operational Elements</i>						

DETAILS OF DECLARED COMPLIANCE STATUS

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Water source and use	Surface water allocation for the RLA	Freshwater Lake 2.6 GL (Augustus River) and offsite purchase from water providers as required.	PNC	2.66 GL from Freshwater Lake 0 GL from other sources Appendix 3: Compliance Monitoring Report Section 5.2.1
		Bauxite stockpiles	Within the RLA	1.92 Mt approximately	C	Appendix 2: Compliance Monitoring Report
		Bauxite residue deposition rate	Within the RLA	18.5 Mtpa (dry)	C	10.3 million dry tonnes Appendix 2: Compliance Monitoring Report
		Digestion process area emissions control	Within the RLA	Regenerative thermal oxidiser	NR	
		Calciners – fuel Particulate emissions control	Within the RLA	Natural gas electrostatic precipitators on five calciners, baghouse system on one calciner	C	Appendix 2: Compliance Monitoring Report
		Liquor burner emission control	Within the RLA	Baghouse, regenerative thermal oxidiser and wet scrubber	C	Appendix 2: Compliance Monitoring Report
		Gas fired cogeneration – capacity	Within the RLA	120 MW	C	Appendix 2: Compliance Monitoring Report
		Gas fired cogeneration (alternative) – capacity	Within the RLA	120 MW	C	Appendix 2: Compliance Monitoring Report
		Coal fired facility or gas fired facility (conversion) capacity Particulate emission control	Within the RLA	110 MW (electrical) Electrostatic precipitators on coal fired facilities only	C	Appendix 2: Compliance Monitoring Report
		Coal fired boiler – normal capacity Emission control	Within the RLA	Two circulating fluidised bed multifuel co-generation boilers 100 MW (electrical) 400 MW (thermal) Limestone injection and baghouse filters	C	Appendix 2: Compliance Monitoring Report
Construction and Support Facilities						
<i>Physical Elements</i>						

DETAILS OF DECLARED COMPLIANCE STATUS

AUDIT CODE	SUBJECT	REQUIREMENT			STATUS	FURTHER INFORMATION
		PROPOSAL ELEMENT	LOCATION	MAXIMUM EXTENT/CAPACITY		
		Temporary construction facilities including mobile offices and ablutions, laydown areas and field maintenance facilities, after the date of this Statement	Within the WMDE	Clearing of up to 20 ha of native vegetation (included within the WMDE clearing) for temporary construction and support facilities. Facilities will be located on pre-disturbed areas where possible	NR	No clearing for temporary facilities was undertaken during the reporting period Table 4-5
		<i>Operational Elements</i>				
		Water use	Local groundwater sources within and adjacent to the WMDE	Temporary water supply of approximately 580 ML/a for the duration of the construction of WMDE and BTC haul roads and the conveyor system (up to three years)	C	0 ML No water for construction was utilised during the reporting period
		<i>Other elements which affect extents of effects on the environment</i>				
		Proposal time	Maximum project life	Up to 2075	C	
			Maximum project life in the WMDE	15 years	C	
		Units and abbreviations GL – gigalitres ha – hectares km – kilometres ML/a – megalitres per annum m AHD – metres Australian Height Datum MW – megawatts Mt – million tonnes Mtpa – million tonnes per annum Mtpa CO ₂ -e – million tonnes per annum of carbon dioxide equivalents RL – reduced level				
		Source: Ministerial Statement No 1237				
		* Status Description (MS1237) include: - Compliant (C) - Completed (CLD) - Not required at this stage (NR) - Potentially Non-Compliance (PNC) - Non-compliant (NC)				

4.3 GREENHOUSE GAS EMISSIONS

MS1237 condition B1-1 requires the proponent to notify the CEO (of DWER) in writing if becoming aware that implementation of the proposal will not be or is not expected to be regulated under the Safeguard Legislation. Worsley Alumina is currently registered as a safeguard facility “WOR01”.

The CEO has not requested Worsley Alumina provide a report on the implications to the Revised Proposal due to amendments or proposed amendments to the Safeguard Legislation. As such, assessment of compliance against MS1237 condition B1-2 and B1-3 is not required with respect to the reporting period.

MS1237 condition B1-4 requires the proponent to provide a report of, among other things, the non-safeguard GHG emissions within six months of the conclusion of five years of the date of MS1237. This report is due by 20 June 2029 and as such, assessment of compliance against MS1237 condition B1-4 is not required with respect to the reporting period.

MS1237 condition B1-5 is only applicable after 1 July 2050. As such assessment of compliance against MS1237 condition B1-5 is not required with respect to the reporting period.

4.4 EXTENDED MINING AREAS (EMAs)

Mining is not currently planned within the EMAs in the near to midterm mine plans. Assessment of compliance with conditions B4-6 to B11 within Part B(B) of MS1237 is currently not required as mining is not planned to commence within 12 months.

Under MS1237 Part B(B), Worsley Alumina has conditional approval to operate in the EMAs. Prior to ground disturbing activities in the EMAs, Worsley Alumina must first undertake Biodiversity-related investigations as detailed in the Scope of Biodiversity-related Investigations (BIS) and provide the Minister for the Environment with a Biodiversity-related Investigations Report (BIR). The BIS was first approved in 2007 and during 2023 Worsley undertook to revise and update the BIS to better reflect contemporary standards. The amended BIS was reviewed by members of the EMLG with feedback incorporated. The DCCEEW also reviewed the amended BIS and provided endorsement for the amended version in July 2024. The BIS was subsequently submitted to EPA Services on 4 June 2025 in accordance with the requirements of MS1237 condition B4-2. Once the amended BIS is endorsed by the state minister for Environment, Worsley Alumina will make the document publicly available on the South32 website in accordance with MS1237 condition B4-5.

During the reporting period, the state minister for Environment has not initiated a review and/or amendments to the BIS (MS1237 condition B4-3).

4.4.1 Biodiversity-related Investigations – EMAs

No ground disturbing activities have commenced in the EMAs. Worsley Alumina has commenced preliminary biodiversity-related investigations within the EMAs and surrounds in accordance with the BIS as required by MS1237 condition B4-1. This work has included preliminary flora, fauna and groundwater investigations and will be expanded over the coming seasons as the potential mining area is further defined. These investigations will be used to prepare the BIR required by MS1237 condition B4-6.

Ground disturbing activities within the EMAs cannot commence until after endorsement and publication of the BIR, noting exploration drilling activities are excluded from the definition of ground disturbing activities in accordance with MS1237 and will continue to support forward planning. Minor disturbance required to enable monitoring activities in accordance with the BIS will also continue. Once the BIR has been prepared and endorsed it will be made available on the South32 website as per MS1237 condition B4-7.

4.4.2 Flora and Vegetation - EMAs

MS1237 condition B5-1(1) – (4) is related to the implementation of ground disturbing activities within the EMAs. As this has not yet commenced, compliance with these conditions is not yet required to be assessed.

4.4.3 Terrestrial Fauna - EMAs

MS1237 condition B6-1 (1) – (2) is related to the implementation of the Revised Proposal within the EMAs. As this has not yet commenced, compliance with these conditions is not yet required to be assessed.

4.4.4 Transport Corridor Route Plan - EMAs

MS1237 conditions B7-1 – B7-7 relate to the provision and implementation of a Transport Corridor Plan for the EMAs. The plan is required to be provided prior to commencing ground disturbing activities within the EMAs and as this is still several years away, the document has not yet been prepared and compliance with these conditions is not yet required to be assessed.

4.4.5 Bauxite Mining Plans - EMAs

MS1237 conditions B8-1 – B8-11 relate to the preparation of a Bauxite Mining Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. The plan is required to incorporate the findings of the BIR required by MS1237 condition B4-6. As outlined in section 4.4.14.4.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised, consequently the drafting of the Bauxite Mining Plan has not yet commenced. As the document has not yet been prepared, compliance with these conditions is not yet required to be assessed.

4.4.6 Rehabilitation Plan - EMAs

MS1237 conditions B9-1 – B9-11 relate to the preparation of a Rehabilitation Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. The plan is required to incorporate the findings of the BIR required by MS1237 condition B4-6. As outlined in section 4.4.14.4.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised, consequently the drafting of the Rehabilitation Plan has not yet commenced. As the document has not yet been prepared, compliance with these conditions is not yet required to be assessed.

4.4.7 Environmental Offsets - EMAs

MS1237 conditions B10-1 – B10-3 relate to the implementation of an offsets program. This has not yet commenced as information from the BIR will be required to evaluate appropriate offsets. As outlined in section 4.4.1 the biodiversity-related investigations are not yet complete, and the BIR has not been finalised. Consequently, the compilation of an offset program has not yet commenced. As the offset program is not required to be in place currently, compliance with these conditions is not yet required to be assessed.

4.4.8 Water Supply Protection - EMAs

MS1237 conditions B11-1 – B11-3 relate to the preparation of a Water Resource Management Plan prior to commencement of ground disturbing activities and the subsequent implementation of the plan. As ground disturbing activities in the EMAs are several years away, compliance with these conditions is not yet required to be assessed.

4.4.9 Time Limit for Proposal Implementation – EMAs

MS1237 condition D4-1 requires substantial commencement of the Revised Proposal within the EMAs within fifteen years from the date of MS1237 which will be 20 December 2039. MS1237 conditions D4-2 and D4-3 relate to the outcome of D4-1. Compliance with conditions D4-1, D4-2, D4-3 is therefore not yet required to be assessed.

4.5 FLORA AND VEGETATION

4.5.1 Flora and Vegetation Environmental Management Plan

MS1237 conditions B12-6 and B12-7 require Worsley Alumina to prepare and submit a Flora and Vegetation Environmental Management Plan (FVMP Version 3.0) and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions or as otherwise agreed by the CEO (MS1237 condition C1-1). Confirmation that FVMP Version 3.0 met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter is available in Appendix 4: Environmental Management Plans – . Worsley Alumina notes that the letter references an incorrect Ministerial Statement number, however the letter accepts the correct FVMP.

In accordance with condition C2-6, Version 3.0 of the FVMP was published on the South32 website ([Flora and Vegetation Management Plan V3](#)). During the reporting period a minor revision was made to the FVMP, in accordance with MS1237 condition C2-3. The updated FVMP (Version 4.0) is available on the South32 website ([Worsley Alumina - Documents](#)) and supports compliance with conditions C2-6 and D5-1.

Table 4-2 and Table 4-3 provide Worsley Alumina's performance against the FVMP's outcome-based provisions and objective based provisions, respectively. Table 4-2 shows one threshold exceedance related to a new dieback infection, with more detail provided in section 4.5.2.1.

Table 4-2 Performance Against FVMP Outcome Based Provisions

OUTCOME		PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1.	Disturb no more than 3,855 ha of native vegetation, 604 ha of rehabilitation vegetation and 74 ha of plantation vegetation	Verified spatial data	75% (2,890ha) Native Vegetation	95% (3,662ha) Native Vegetation		Y
			No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-4 and Figure 4-1 GIS information is provided in Appendix 3: GIS Information	Y
			75% (450ha) Rehabilitation	95% (570ha) Rehabilitation		
			No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-4 and Figure 4-1 GIS information is provided in Appendix 3: GIS Information	Y
			75% (56ha) Plantation	95% (70ha) Plantation		
2.	Ensure no disturbance or adverse impacts to threatened flora including <i>Caladenia hopperiana</i>	Verified spatial data for disturbance and proximity to Protected Areas	No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-4 and Figure 4-1 GIS information is provided in Appendix 3: GIS Information	Y
			Disturbance proposed within 30 m of a defined Protected Area containing an environmental value listed under Condition B12-1 (2) of MS1237.	Disturbance within Protected Areas defined for protection of environmental values listed under Condition B12-1 (2).		
			One trigger event occurred during the reporting period	No threshold exceedances recorded	During the reporting period one area of clearing was within 30 m of a Protected Area for an area of Mount Saddleback Heath Communities PEC (Vegetation Type G1). The clearing was for Ashcroft Road and WM055 and was reviewed by the Environment Specialist. No additional control measures were applied on this occasion as all clearing was to the east of an existing road which formed an obvious boundary to the Protected Area. GIS information is provided in Appendix 3: GIS Information.	
			Abundance (number of flowering plants) of <i>Caladenia hopperiana</i> within Population 2	Abundance of <i>C. hopperiana</i> within Population 2 recorded as <266 individual flowering plants, where decline in abundance is found to be inconsistent with control sites *** The mean abundance from surveys conducted in 2023 and 2024 minus 2 standard deviation.		
			No trigger exceedances recorded	No threshold exceedances recorded	Monitoring for <i>C hopperiana</i> is ongoing, the baseline population was obtained in Spring 2024. The next monitoring will be undertaken in Spring 2025 and this will be reported in the next CAR.	Y
b.	<i>Caladenia caesarea</i> subsp. Mooradung	Abundance (number of flowering plants) <i>Caladenia caesarea</i> subsp. Mooradung	>10% decline in abundance from baseline* within a given population of <i>Caladenia caesarea</i> subsp. Mooradung where decline is found to be inconsistent with control sites	A sustained decline in abundance of <i>Caladenia caesarea</i> subsp. Mooradung is identified during follow-up Targeted surveys OR a decline in abundance >20% from baseline* is recorded within a given population of <i>Caladenia caesarea</i> subsp. Mooradung where decline is found to be inconsistent with control sites.		
			No trigger exceedances recorded	No threshold exceedances recorded	Monitoring for <i>C caesarea</i> subsp Mooradung is ongoing, the baseline population was obtained in Spring 2024. The next monitoring will be undertaken in Spring 2025 and this will be reported in the next CAR.	Y
d.	the Mount Saddleback Heath Communities Priority Ecological Community and vegetation type G4	Vegetation condition (as assessed by qualified external consultant)	A decline in vegetation condition from baseline for PEC, vegetation type G4 or old growth forest areas where decline is found to be inconsistent with control sites	A sustained or further decline in vegetation condition from baseline for PECs, vegetation type G4 or old growth forest areas (as identified during follow-up survey) which is potentially attributable to implementation of the Revised Proposal.	Targeted vegetation condition – Protected Areas and Ecological Linkages	
			No trigger exceedances recorded	No threshold exceedances recorded	Vegetation monitoring program will be confirmed PEC, Veg type G4 and old growth forest during FY26. Reassessment of vegetation condition will be completed every 5 years in accordance with the Targeted vegetation condition – Protected Areas and Ecological Linkages monitoring program.	Y
e. f.	other significant vegetation other significant flora unless authorised by the CEO	Identification of other significant vegetation or other significant flora	Other significant vegetation or other significant flora identified during biological surveys.	Unauthorised disturbance to other significant vegetation or other significant flora identified from annual audit of spatial data for disturbance boundaries		
		Verified spatial data for disturbance				
3.	Ensure no disturbance or adverse impacts to more than	Number of plants disturbed	No trigger exceedances recorded	No threshold exceedances recorded	No other significant vegetation or flora were identified during pre-clearance surveys completed in the reporting period.	Y
			1.5% (30)	2% (41)		

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
a. 2% of the known population of Calytrix simplex subsp. simplex;	2,058 plants				
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information; FVMP (Worsley Alumina - Documents)	Y
b. 8% of the known population of Gastrolobium sp. Prostrate Boddington;	99,572	6% (4,974)	8% (7,965)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information; FVMP (Worsley Alumina - Documents)	Y
c. 2% of the known population of Hibbertia ambita, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population;	398 plants	7.5% (29)	10% (39)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information, FVMP (Worsley Alumina - Documents)	Y
d. 2% of the known population of Halgania corymbosa, until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population;	79 plants	1.5% (1)	2% (1)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information, FVMP (Worsley Alumina - Documents)	Y
e. 11.9 ha of Williams vegetation complex after the date of this Statement; and	Reconciled spatial data 11.9ha	75% (8.9ha)	95% (11.3ha)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information, FVMP (Worsley Alumina - Documents)	Y
f. 332.5 ha of Michibin vegetation complex after the date of this Statement.	332.5ha	75% (249.4ha)	95% (316ha)		
		No trigger exceedances recorded	No threshold exceedances recorded	Table 4-6, Appendix 3: GIS Information, FVMP (Worsley Alumina - Documents)	Y
4. Ensure that the proposal does not cause or contribute to the introduction and/or spread of forest disease, including Phytophthora cinnamomi, outside of areas identified as infected by the pre-clearance surveys required by condition B12-	Phytophthora cinnamomi occurrence	New Phytophthora cinnamomi (dieback) infestation identified during dieback interpretation	Identification of a new dieback infestation likely to have been caused by Worsley operations		
		No trigger events recorded	One threshold exceedance reported	Threshold exceedance: Increase of 0.47 ha of land classified as infested due to operational activities. Refer to Section 4.5.2.1 for further details.	N

Table 4-3 Performance Against FVMP Objective Based Provisions

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1. Avoid and minimise indirect impacts to flora and vegetation including but not limited to impacts from forest disease, dust, weeds, fire, changes in	No new dieback infestation as a result of Worsley operations within the life of the proposal (15 years).	• Prior to clearing each area to be disturbed in the PAA, forest disease mapping will be undertaken in line with DBCA's Phytophthora Dieback Interpreters Manual for Lands Managed by the Department and DBCA's Phytophthora Dieback Management Manual (DBCA, 2020), as amended or replaced from time to time. ¹	The Management Target was not achieved this year. As discussed in section 4.5.2.1 a small amount of dieback infested topsoil was placed in an uninfested topsoil stockpile. This incident was reported internally and to DBCA, investigated and additional control measures applied to prevent recurrence.	N

¹ As per MS1237 Condition B12-3.

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
groundwater and surface water and fragmentation		Dieback mapping must have been completed within 3 years prior to the proposed disturbance to be considered current. • If dieback is identified within a proposed disturbance area, a detailed site specific Hygiene Management Plan must be developed prior to disturbance occurring. • Hygiene management plans of high-risk locations may be reviewed by DBCA for completeness and best practise management processes. • Infested topsoil shall be stockpiled separately within dieback infested areas and then returned to the demarcated infested area after mining is complete. • Gravel and topsoil must not be relocated from Crown to private land or vice-versa without the specific approval of the relevant government agency and / or land owner. • Access is restricted for known dieback infestations. • Dieback training required for all personnel with a Minesite Driver's Permit. • All vehicles must be clean of soil and vegetation prior to entry to site. • Vehicles and personnel must be clean on entry and clean on exit from private properties. • Areas that are identified as being infested with dieback resulting from mining and associated activities will be rehabilitated in a manner deemed appropriate to the level of impact. The rehabilitation process of each area will be included in the area-specific soil hygiene management plan. • Where appropriate, DBCA will be consulted to ensure the measures taken are consistent with DBCA objectives, and Worsley will review and update the procedures accordingly as required.	All areas were interpreted for dieback occurrence prior to clearing (see FVMP and Dieback Occurrence reports on proposed clearing areas (Glevan 2025) - Appendix 7). DBCA Disease Hygiene Standards Officer endorsement was received for all submitted contractor reports. Ten (10) area specific Hygiene Management Plans were created for areas with soil hygiene risks, including disturbance for mining and construction activities. One Hygiene Management Plan was reviewed with DBCA and endorsed for implementation specifically for the Nullaga Mining Area construction zone. The Forest Hygiene Management Procedure continued to be applied throughout the reporting period. Forest hygiene training continued to be provided during the reporting period.	
	Total disturbance for the environmental values, as outlined under condition B12-1 (3), is maintained within allowable limits for the duration of the operation.	• Complete targeted pre-clearance surveys for conservation significant flora and application of associated management actions in accordance with FVMP section 6.6.5. • Establish Protected Areas for any identified conservation significant flora and vegetation in accordance with FVMP section 6.6.1. • Report findings from pre-clearance surveys and management measures applied within the annual Flora and Vegetation Management Plan. • Conduct an annual review of the EPBC Act and BC Act listed species to identify any changes or additions to relevant conservation significant flora and vegetation. Amend pre-clearance monitoring programs as required through adaptive management processes.	Targeted pre-clearance surveys were completed in accordance with the FVMP with additional Protected Areas defined for all occurrences of Threatened flora. All relevant information was incorporated into the annual component of the FVMP. An annual review of Protected Matters is completed in each year. This was completed in February 2025. No new conservation significant flora or vegetation were identified during the review and therefore no changes to pre-clearance surveys or management measures were applied.	Y
	Disturbance within High Quality Wandoo areas within the PAA will not exceed 25% for the duration of the project.	• Areas identified by aerial photography as high-quality Wandoo to be verified by June 2025. • The verified High Quality Wandoo areas must be maintained as a formal layer within site GIS system. • 10 Year Mine Plan will be used to monitor and forecast impacts to High Quality Wandoo annually. Impacts will be minimised where practicable. • Annual and cumulative clearing must be included in the Annual Environmental Report including tracking against management target	Boundaries for high-quality Wandoo were unable to be verified during the reporting period due to a significant increase in botanical survey requirements associated with pre-clearance activities. Current boundaries, as submitted during assessment of the Revised Proposal have been maintained. Clearing within High Quality Wandoo to date represents 0.76 ha representing 0.06%.	Y
	A progressive reduction in fragmentation within the PAA is observed from the 2028 assessment period for the duration of the project.	• Implement Ecological Linkages in accordance with FVMP section 6.6.3. • Implement Protected Areas and Protection Commitments in accordance with FVMP section 6.6.1 and 6.6.2 respectively. • Complete progressive rehabilitation in accordance with FVMP Section 6.6.8. • Implement ecological restoration in accordance with the Local Offset Management Plan (200001090). • Monitor regional fragmentation on a 5 yearly basis to understand effectiveness of management measures and implement adaptive management as required	This management target will commence from 2028 at which point it is anticipated that clearing associated with major construction activities for implementation of the proposal (e.g. primary haulage routes, supporting infrastructure etc) will be complete.	NR
	No new outbreaks of weeds of national significance or declared plants as a result of Worsley operations within the life of the proposal (15 years).	• Monitoring for weed presence in areas prior to disturbance and following rehabilitation. • Include identification of likely declared weed species in site training packages and encourage reporting by all personnel. • Regular inspection and treatment for known weed populations and prior to commencement of development activities. • New populations identified will be added to a maintained map of known declared weed locations. • Where appropriate, DBCA will be consulted to advise on the measures taken are consistent with DBCA objectives, and Worsley will review and update the procedures accordingly as required. • Monitor progress and effectiveness of management activities. • Alternate topsoil management practices may be applied in areas with a high weed load (i.e. pasture to bush). Trials are currently underway to assess best management techniques and adaptive management will be applied as required. • Forest Hygiene management practices as outlined in FVMP section 6.6.6.2. • Weed management measures as outlined in FVMP section 6.6.7	No new outbreaks of weeds of national significance or declared plants as a result of Worsley operations were recorded during the reporting period. Weed monitoring continued within areas prior to disturbance and in rehabilitation in accordance with the Rehabilitation monitoring program. Weed rehabilitation metrics are reported within the ARP. Targeted weed management activities against declared species continued at the mine during the reporting period. Forest Hygiene Management Procedure continued to be applied.	Y
	No recorded deaths of conservation significant flora or vegetation because of dust impacts from Worsley	• Dust suppression applied on haul roads and within fixed plant. • Speed restricted to 60km/h onsite. Further speed restrictions applied during high dust conditions. • Monitoring of dust in accordance with Part V of the EP Act.	No death of conservation significant flora due to dust impacts have been recorded during the reporting period. Identification of these will primarily be determined through the targeted flora and vegetation condition - Protected Areas and Ecological Linkages monitoring program which will be completed by December 2029 (5 yearly program).	Y

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
	operations within the life of the proposal (15 years).	- Protected Areas established in accordance with section 6.6.1 include buffers of at least 30m for all sensitive flora and vegetation. 5 yearly vegetation condition monitoring to be completed for Protected Areas, Ecological Linkages and Groundwater Dependent Ecosystems (GDEs) to assess extent of indirect impacts on flora and vegetation.	Pre-clearance surveys and additional targeted conservation significant flora surveys continue to be completed to improve the understanding of the known population of conservation significant flora within the PAA with new Protected Areas defined as appropriate (see annual component of FVMP).	
	No uncontrolled fires effecting >20 ha of remnant native vegetation, as a result of Worsley operations, for the duration of the operation (15 years).	- Installation and maintenance of fire breaks. - Compliance with fire, harvest and vehicle movement bans issued by local Shire. - Regular inspections of adjacent forested areas for spot fires must be completed during forest debris burning and a response vehicle must be on-hand. - Site emergency response team and equipment to be maintained to allow efficient response to uncontrolled fires in the local area. - If required, emergency clearing may be completed to minimise impacts from wildfire. - Compliance with requirements of DBCA/Worsley Working Arrangements	No uncontrolled fires occurred in the PAA during the reporting period. Worsley continues to maintain firebreaks and comply with Total Fire Bans (TFBs) declared by the Department of Fire and Emergency Services (DFES) and Harvest and Vehicle Movement Bans (HVMBs) issued by local government. In the case of Worsley Joint Venture properties which are leased, the lessee is responsible for the maintenance of firebreaks as a component of the lease agreement.	Y
	No negative impacts to conservation significant flora and vegetation associated with groundwater mounding as a result of Worsley operations, for the duration of the operation (15 years).	- Minimise native vegetation disturbance and utilise existing cleared areas or areas that will be disturbed for future mining pits where possible. - Implement the WMP (01027243) including: - groundwater and surface water monitoring programs with associated outcome- and objective-based provisions. - Application of stream buffers. - Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads. - Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks. - Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns. - Regular sustainable yield testing for all production bores in the shallow and the deep fractured rock aquifer (6 yearly).	Clearing plans were developed and signed off for all mining pits ensuring that clearing of native vegetation was reviewed and minimised where possible and all conservation significant flora and vegetation was considered prior to clearing. The WMP was implemented during the reporting period (see section 4.7). No impacts to conservation significant flora and vegetation associated with groundwater mounding as a result of Worsley operations were identified during the reporting period.	Y

4.5.2 Environmental Outcomes / Disturbance

Ground disturbing activities for the Revised Proposal commenced following approval on 12 February 2025 from the CEO (of DWER) of the Management Plans required by condition C1-1, including the FVMP (Section 4.5.1), and after receiving Commonwealth approval EPBC 2019/8437, both of which were granted 11 February 2025. Reporting of disturbance for the first submission of the CAR is for the period from 1 February 2025 – 30 June 2025. As Worsley Alumina undertakes reconciliations of areas cleared at the end of each month, to ensure all clearing in February was captured, reconciliation has been undertaken from the end of January, with clearing able to commence after approvals were granted on 11 February as outlined above.

Disturbance undertaken during the reporting period is provided in Table 4-4, and is within the disturbance limits of MS1237 condition B12-1(1) and EPBC 2019/8437 condition 2 and condition 3. Figure 4-3 spatially outlines the disturbance undertaken during the reporting period and also displays the Protected Areas. All known locations for the environmental values listed under MS1237 condition B12-1(2) and EPBC 2019/8437 condition 6 are included within Protected Areas. No Protected Areas were disturbed during the reporting period. As outlined further in Section 4.5.4, one small area (1.03 ha) included in the Protected Areas dataset submitted with the Revised Proposal had been cleared in 2024, prior to issuance of MS1237 and prior to the reporting period commencing – there were no occurrences of the environmental values listed in MS1237 condition B12-1(2) within this area. In addition, a small encroachment of the Protected Areas boundary within the “Additional Protected Areas” of Quindanning Timber Reserve outlined in MS1237 Figure 6, had occurred within the limits of MS719, prior to the issue of MS1237 and will be rehabilitated in accordance with condition B2-1(6).

Table 4-5 provides a breakdown of the total disturbance of native vegetation per development envelope/area in accordance with the breakdown provided in condition A1-1 of MS1237. Disturbance for all areas is within the limits of the condition.

Table 4-6 addresses the disturbance and impact to Environmental Values outlined in MS1237 condition B12-1(3). Disturbance for all species and both vegetation complexes are within the limits of the condition.

4.5.2.1 *Phytophthora (dieback) and other Forest Hygiene Management*

Forest disease management at the BBM has been developed in consultation with, and endorsed by, DBCA (as part of the DBCA/Worsley Working Arrangements) and implemented on site. The key components of forest disease management at the BBM are:

- Detection of forest disease prior to mining;
- Planning operations to minimise disease risks;
- Prevention of disease introduction and spread;
- Education of the workforce about forest disease;
- Rehabilitation of disease areas where required; and
- Supporting research relevant to improving forest disease management.

Details of forest hygiene surveys, conducted in accordance with MS1237 condition B12-3 and EPBC 2019/8437 condition 26, to support the ongoing operational activities at Worsley Alumina are detailed in the FVMP with summary detail of one non-compliance provided below.

Non-compliance

During the reporting period a breach in topsoil handling procedures resulted in the movement of dieback infested topsoil into a previously uninfested topsoil stockpile. This has resulted in an additional 0.47 ha of land being classified as dieback infested. This incident was reported to DBCA on 16 April 2025. Further details are provided in Section 5.1.1.

Table 4-4 Record of Disturbance

FACTOR	BASELINE	TRIGGER (ha)	THRESHOLD (ha)	TOTAL DISTURBED DURING REPORTING PERIOD (ha)	REMAINING ALLOWANCE
Native Vegetation	3,855	2,891	3,662	37.34	3,817.7
Rehabilitation	604	453	574	0	604
Plantation	74	56	70	0.4	73.6
Degraded and Cleared Agricultural Land	1,679	N/A	N/A	76.64	1602.4

Table 4-5 Record of Native Vegetation Clearing – Development Envelopes

FACTOR	LIMIT (ha)	CLEARED DURING REPORTING PERIOD (ha)	TOTAL CLEARED (ha)
WMDE *	8,823	37.34	5109.3
BTC	160	0	0
Extended Mining Areas (EMAs)	8,400	0	0
RLA (for maintenance activities)	66.6	0	53.4
CBME	135	0	0
Wellington Dam	8	0	2.8

* Total cleared from 1995 to 30 Jan 2025 is 5,072ha, EPA report included total approved clearing as 5,263ha which was not fully exhausted

Table 4-6 Record of Vegetation Disturbance Priority Flora and Vegetation Complex

SPECIES	KNOWN POPULATION (# Plants)	TRIGGER (# Plants)	THRESHOLD (# Plants)	TOTAL CLEARED DURING REPORTING PERIOD (# Plants)	REMAINING ALLOWANCE (# Plants)
<i>Calytrix simplex</i> . Subsp. Simplex	2058	30 plants	41	0	41
<i>Gastrolobium</i> sp. Prostrate Boddington	99,572	5,974	7,965	2,139	5,826
<i>Hibbertia ambita</i>	398	29	39	0	39
<i>Halgania corymbosa</i>	79	1	1	0	1
VEGETATION COMPLEX	BASELINE (ha)	TRIGGER (ha)	THRESHOLD (ha)	TOTAL CLEARED (ha)	REMAINING ALLOWANCE (ha)
Williams veg complex	11.9	8.9	11.3	0	11.9
Michibin veg complex	332.5	249.4	315.9	22.4	310.1

4.5.2.2 Mining Tranche Clearing

Notification of commencement of each mining tranche is required to be provided to DCCEE within five (5) business days in accordance with EPBC 2019/8437 condition 69. Notification of commencement of the action was provided to DCCEE in accordance with condition 67 on 12 February 2025, and as this is the first mining tranche also, satisfies the requirement of EPBC 2019/8437 condition 69.

In accordance with EPBC 2019/8437 condition 3(a), clearing within Mining Tranche 1 is limited to 1,338 ha. A total of 37.34 ha of native vegetation clearing was undertaken during the reporting period as presented in Table 4-4.

4.5.3 Pre-clearance Surveys

Prior to clearing in the PAA, Worsley Alumina is required to undertake pre-clearance surveys to meet the requirements of MS1237 conditions B12-3 - B12-5. These conditions require surveys to be undertaken for forest disease (condition B12-3), old growth forest (condition B12-4), threatened and priority flora (condition B12-5(1)(a & b)), new and undescribed species (condition B12-5(1)(c)), threatened and priority ecological communities and vegetation type G4 (condition B12-5(1)(d)).

Pre-clearance surveys were conducted in accordance with the MS1237 conditions B12-3 to B12-5 and EPBC 2019/8437 conditions 4 and 5 to support clearing activities completed during the reporting period. Details for the pre-clearance surveys completed to date are included in the FVMP V4.0 (available on the South32 website: [Worsley Alumina - Documents](#)). A summary is provided in the below Table 4-7.

Table 4-7 Summary of Pre-clearance Surveys

FACTOR	EVIDENCE	COMMENT
Forest Disease	FVMP	Forest disease surveys have been conducted over several years by independent qualified dieback interpreters. These surveys covered areas cleared during the reporting period and clearing proposed during the coming reporting year
Old Growth Forest	FVMP	No old growth forest was identified during pre-clearance surveys completed to support clearing operations completed within the reporting period or subsequent surveys during the reporting period
Threatened & Priority Flora		
Orchids	FVMP	Surveys were conducted by Onshore Environmental – including independent botanists with demonstrated experience in orchid surveys in the bioregion, as required by condition B12-5 (2), during Spring 2024 to support clearing activities completed in the current reporting period. New Threatened flora locations were identified and Protected Areas were applied in accordance with the FVMP.
Priority and Threatened Flora	FVMP	Surveys were conducted by independent qualified botanists during Spring 2024 and Summer 2025. No additional threatened or priority flora species were identified as part of these surveys however additional records of known Priority flora were recorded.
Priority and Threatened vegetation	FVMP	Surveys were conducted by independent qualified botanists during Spring 2024 and Summer 2025. No additional areas of threatened or priority vegetation was identified as part of these surveys.

4.5.4 Protected Areas – Flora and Vegetation

No native vegetation disturbance occurred within Protected Areas, including ecological linkages and protected stream buffers, during the reporting period (MS1237 B2-1(5) and EPBC 2019/8437 condition 19).

Pre-clearance surveys conducted to support clearing activities in the reporting period resulted in creation of 4.2 ha of additional Protected Areas within the PAA and an additional 24 ha outside the PAA, for threatened flora (including *Caladenia hopperiana* and *Caladenia caesura* subsp. *Mooradung*, which is not yet formally rated) as shown in Figure 4-2. These protected areas were established in accordance with the FVMP and EPBC 2019/8437 condition 7. No threatened flora other than *Caladenia hopperiana* were identified during the reporting period and therefore no Protected Areas were required under EPBC 2019/8437 conditions 8 and 9.

Prior to MS1237 being granted, it was identified that a small area included in the Revised Proposal dataset had inadvertently been cleared during 2024, representing 1.03 ha within a buffer to heath vegetation. This area was selected to be included in the Protected Areas during the review process undertaken during 2023 as part of the Revised Proposal but at that time the area had already been harvested but not yet cleared. The harvesting activity which was undertaken prior to 2023 and subsequently cleared in 2024 was not identified until after the submission of the Revised Proposal Response to Submissions, by which time the area had already been included within the proposed Protected Areas forming part of Figure 4 of MS1237. To correct for this error in spatial data interpretation, an alternative area with similar values will be identified to replace this area.

4.6 TERRESTRIAL FAUNA

4.6.1 Conservation Significant Fauna Environmental Management Plan

MS1237 condition B13-7 requires Worsley Alumina to prepare and submit a Conservation Significant Fauna Environmental Management Plan (CSFMP Version 3.0) and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions of as otherwise agreed by the CEO (MS1236 condition C1-1). Confirmation that the CSFMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter is available in Appendix 4: Environmental Management Plans – Appendix 4: Environmental Management Plans – . Worsley Alumina notes that the letter references an incorrect Ministerial Statement number, however the letter accepts the correct CSFMP. In accordance with MS1237 condition C2-6, Version 3.0 of the CSFMP was made publicly available on the South32 website ([Worsley Alumina - Documents](#)).

No changes, including no minor revisions, were made to the CSFMP during the reporting period in accordance with MS1237 conditions C2-3 – C2-5.

Table 4-8 and Table 4-9 provide Worsley Alumina's performance against the CSFMP's outcome-based provisions and objective based provisions, respectively. No triggers or thresholds were breached during the reporting year as outlined in Table 4-8 and management based objective provisions were implemented in accordance with the CSFMP (Table 4-9).

Table 4-8 Performance Against CSFMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Disturb no more than the allowable disturbance for the environmental values as described in Condition B13-1(1).	Verified spatial data	75%	95%		
	QTR (276ha)	207ha	262ha		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Woylie Habitat (2033ha)	1525	1931		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Numbat habitat (4324ha)	3243	4108		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Black Cockatoo foraging habitat (4533ha)	3400	4306		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Black Cockatoo PBTs with evidence of use (Rank 1 or Rank 2) (24)	18	23		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-12, Table 4-10	Y
	Chuditch habitat (4459ha)	3344	4236		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Western Ringtail Possum habitat (135ha)	101	128		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information	Y
	Quokka habitat (135ha)	101	128		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information,	Y
	Red-tailed Phascogale habitat (245ha)	184	233		
		No trigger exceedances recorded	No threshold exceedances recorded	See Table 4-10, Appendix 3: GIS Information,	Y
2. Ensure ongoing viability of the Woylie (<i>Bettongia penicillata ogilbyi</i>) population recorded at the Hotham North mine region shown in CSFMP Figure 3 is not lost due to the proposal (B13-1(2)).	Woylie presence at control sites (pending outcomes of baseline monitoring and associated recommendations)	Woylie not observed within expected Ecological Linkages (as identified during baseline monitoring) during Vertebrate Fauna – Protected Areas and Ecological Linkages monitoring program	Woylie not observed within expected Ecological Linkages (as identified during baseline monitoring) during two consecutive Vertebrate Fauna – Protected Areas and Ecological Linkages monitoring programs.		
		No trigger exceedances recorded	No threshold exceedances recorded	Baseline monitoring is still progressing, and fauna monitoring programs in accordance with the CSFMP will be progressed in accordance with the schedule. This outcome-based provision will be amended as required following completion of the baseline surveys.	Y
3. Ensure ongoing viability of any numbat (<i>Myrmecobius fasciatus</i>) population(s) recorded at the Hotham North and Marradong Timber Reserve mine regions shown in Figure 8 is not lost due to the proposal (B13-1(3)).	Numbat presence (or verified signs of presence)	Trigger Criteria 1 Verified evidence of Numbat identified within a proposed clearing area. OR Trigger Criteria 2 ² To be determined following completion of baseline surveys (if required).	To be determined following completion of baseline surveys (if required). ¹		

² Trigger and Threshold criteria for Numbat will be reviewed and finalised upon completion of baseline monitoring in MTR and Hotham North mining regions in accordance with condition B13-3 of MS1237

OUTCOME		PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
			No trigger exceedances recorded	No threshold exceedances recorded	To date no viable numbat population has been identified within Marradong Timber Reserve or the Hotham North Mining Regions. Section 4.6.4.1	Y
4.	Ensure no disturbance to:	Verified spatial data	Disturbance within 10 m of a defined protection	Disturbance occurs within the defined Protection	Figure 4-3, Appendix 3: GIS Information (record of clearing)	Y
a.	the buffers identified by condition B13-4(2) for trees being used, or that have evidence of use, by black cockatoos for breeding (excluding the up to 24 trees referred to in condition B13-1(1)(e)) (B13-1(4)(a)).	Proximity of disturbance to potential breeding trees with evidence of use or peregrine falcon nests	buffer for a PBT with evidence of use or a known active Peregrine falcon nest is identified within a Clearing Plan.	buffer for a PBT with evidence of use (see CSFMP section 6.5.1.1) or a known active Peregrine falcon nest.		
b.	peregrine falcon (Falco peregrinus) nests including a 30 m buffer unless the tree has not been used over two consecutive breeding seasons (B13-1(4)(b)).					
c.	known records of significant short-range endemic fauna where those fauna are only known from the PAA unless they are known to occur within the protected areas or ecological linkages shown in Figure 4 and Figure 5 respectively (B13-1(4)(c)).	Verified Spatial data	Disturbance within 10 m of a defined protection	Disturbance occurs within the defined Protection	Table 4-10, Figure 4-3, Appendix 3: GIS Information (record of clearing)	Y
		Proximity of disturbance to Protected Areas for significant SRE only known from within the PAA	buffer for significant short-range endemic fauna where those fauna are only known from the PAA identified within a Clearing Plan.	buffer for significant short-range endemic fauna where those fauna are only known from the PAA		
			No trigger exceedances recorded.	No threshold exceedances recorded		Y

Table 4-9 Performance Against CSFMP Objective Based Provisions

OBJECTIVE BASED PROVISION		PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1)	Minimise the risk of physical injury or mortality from construction activities on native fauna		- Minimise clearing associated with construction. - Apply pre-clearance and management measures as detailed in CSFMP section 6.5.5. - Speed limits and road rules are applied for all mine site activities (maximum 60km/h). - All conservation significant fauna incidents must be recorded in G360. - Review and investigate fauna incidents to determine requirement for additional control measures. - As outlined in the site induction all unusual fauna sightings must be reported to the site Environment Team (including conservation significant fauna, feral animals or sightings of unknown species). - Site inductions include awareness and reporting requirements for native fauna. - Establish Protected Areas in accordance with the CSFMP section 6.5.1. - Implement Ecological Linkages to facilitate movement of fauna through the landscape in accordance with CSFMP section 6.5.3. - Fauna crossings constructed for all linear barriers that fully intersect Ecological Linkages (i.e., roads and haul roads) in accordance with CSMP section 6.5.4. - Implement fauna crossings in accordance with section CSFMP 6.5.4. - Clearing areas undergo staged disturbance activities allowing natural dispersal of mobile fauna. - Where possible, clearing is completed toward a vegetated boundary. However, establishment of a protective firebreak may be required prior to clearing to minimise the risk of wildfire. - Suitably qualified and experienced fauna spotter will be on site during harvesting and clearing activities. - Reduced speed limits applied for Ecological linkages (40 km/hr) where alternative fauna crossings (i.e. underpass / overpass) are not possible due to landscape constraints to engineering solutions. - Signage within Ecological linkages and on roads adjacent to clearing activities to increase driver awareness of potential fauna interactions. - Relevant fauna management measures included in Mine Site Drivers Permit training package. - Fauna egress points for all dams. - S40 BC Act Authorisation required for areas where “take” of threatened species is possible.	- No conservation significant fauna incidents associated with mining activities were recorded during the reporting period. Two deceased red-tailed black cockatoos were found in an open water tank along the OBC in March 25. This was reported in G360 and DBCA were notified. - Pre-clearance surveys have been undertaken in accordance with CSFMP section 6.5.5. - Speed limits (max 60km/h) continue to be applied for all mine site activities. - Ad-hoc fauna sightings were recorded by the Environment Team, see Table 4-11 - Protected Areas for PBTs have been defined in accordance with the CSFMP. - Fauna spotters are present onsite during all clearing activities. - S40 authorisations under the BC Act have been acquired where required for native vegetation clearing and ongoing mining operations.	Y
2)	Minimise the risk of behavioural changes and health impacts from	Continued presence of vertebrate fauna species as identified from baseline in	- Implement dust controls on haul roads and within fixed plant to ensure compliance with Part V of the EP Act. - Manage noise emissions to comply with <i>Environmental Protection (Noise) Regulations 1997</i>.	Fauna monitoring programs to support assessment of performance against this Management Target are currently under development for implementation in FY26. Management measures aimed at minimising impacts to fauna and fauna habitat continued to be implemented	Y

OBJECTIVE BASED PROVISION	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
construction activities on native fauna.	respective mining regions, for the duration of the proposal	- Ensure lighting plant is directed to areas of work, and as far as practicable light is not directed to areas of uncleared native vegetation and no unnecessary artificial light is used outside of operational areas. - Clearing activities should occur only during daylight to ensure lighting plant is not required to be used when clearing new areas. - Progressive rehabilitation as outlined in CSFMP section 6.5.9. - Monitoring of vertebrate fauna and SRE in accordance with CSFMP section 7. - Monitoring and reporting against Biodiversity Indicators in accordance with Conditions 14-1 and 14-2 of MS1237. - Controlled burning must only occur in areas of State Forest following consultation with DBCA in accordance with the DBCA/Worsley Working Arrangements – planning for burning. - Relocation of fauna from clearing areas by fauna handlers (as required) with fauna monitored at point of release to assess health and mobility (i.e. individual moves away from the disturbance area and seeks shelter).	including: - Dust control on haul roads by water truck and application of Dusticide in high traffic areas. - Noise management including monitoring and responding to alarms from remote noise monitors (Noise Sentinel) to ensure ongoing compliance with the <i>Environmental Protection (Noise) Regulations 1997</i>. - Progressive rehabilitation (see ARP). No prescribed burns were conducted within the PAA during the reporting period. Fauna spotters with animal handling training were present onsite during all clearing and harvesting activities. No fauna were required to be relocated during the reporting period. All clearing was completed during daylight hours as required by condition 25 of EPBC 2019/8437.	
3) Maintain ecological linkages to allow movement of fauna across the landscape	Ecological linkages, including installed crossings, are being utilised by native fauna for the duration of the proposal.	- Implement review and approval process to ensure clearing within Ecological linkages is limited to infrastructure, roads and access and will not include ore mining activities. - Implement controls and review processes to ensure clearing within Ecological linkages is limited in accordance with Condition B2-1(5). - Monitor Ecological linkages for fauna use (including feral animals). - Prioritise rehabilitation to enhance Ecological Linkages.	Fauna monitoring programs to support assessment of performance against this Management Target are currently under development for implementation in FY26. No clearing within Ecological Linkages occurred within the reporting period. As MS1237 was published (20 December 2024) after the date of publication of the 10 Year Mine Plan (31 October 2024), the planned rehabilitation did not include consideration for enhancing ecological linkages. This will be considered in future 10 Year Mine Plans.	Y
4) Monitor and manage feral animals to minimise risk of predation of conservation significant fauna within the PAA.	Population assessment shows no increase in presence of feral animals within the mining regions for the life of the proposal.	- Site induction requires feral animal sightings to be reported to Site Environment team. - Complete targeted trapping for feral cats following sightings. - Conduct targeted feral animal baiting within Ecological Linkages (see CSFMP sections 6.5.3 and 6.5.7). - Continue aerial 1080 baiting targeting foxes and cats across JV land and State Forest areas within the WMDE and JV Land surrounding the RLA (CSFMP section 6.5.7). - All bins storing putrescible waste to have secure lids. - Investigate alternative survey methodologies for assessment of abundance of feral animals within the PAA. - Implement feral animal control strategies on the Offset properties in accordance with the LOEMP. - Ensure fauna crossings contain refuges for native fauna (CSFMP section 6.5.4). - Investigate and trial emerging technologies for management of feral animals.	Fauna monitoring programs to support assessment of performance against this Management Target are currently under development for implementation in FY26. One feral cat (kitten) was reported to the Environment department during the reporting period (Table 4-11), The cat was observed around the Marradong office buildings with a trap being set at the location. No cats were caught after 7 days of trapping. Control of cats and foxes on Offset properties, including trial use of Felixers was completed as discussed in section 4.11.1. 1080 baiting for foxes and cats continued during the reporting period including aerial baiting undertaken by DBCA on JV lands. No fauna crossings have been established to date (no disturbance in Ecological Linkages). eDNA studies are ongoing to investigate novel survey techniques for fauna (including feral animals) (see ARP).	Y
5) Minimise fragmentation within and surrounding the PAA through targeted rehabilitation and ecological restoration	A progressive reduction in fragmentation within the PAA is observed from the 2028 assessment period for the duration of the project.	- Limit disturbance within Protected Areas and Ecological Linkages in accordance with conditions B2-1 (4) to B2-1 (6) of MS1237. - Minimise clearing through Mine Planning processes. - Ensure compliance with clearing limits for fauna habitat in accordance with condition B13-1 (1). - Review and identify areas of rehabilitation that are adjacent to Protected Areas and Ecological Linkages and can be assigned as Protected Rehabilitation. 10 Year Mine Planning process to review areas available for rehabilitation and prioritise those that are adjacent to Protected Areas and Ecological Linkages. - Ecological restoration completed in accordance with Local Environmental Offset Management Plan (WAPL-Business-CD- 200001090). - Conduct 5 yearly assessment of fragmentation. Provide outcomes and recommendations to Mine Planning and Principal - Biodiversity Offsets to support planning for rehabilitation and restoration activities.	Management Target and associated monitoring program is not yet applicable (commences 2028). Clearing during the reporting period was in accordance with condition 13-1(1). As MS1237 was published (20 December 2024) after the date of publication of the 10 Year Mine Plan (31 October 2024), the planned rehabilitation did not include consideration for enhancing protected areas or ecological linkages. This will be considered in future 10 Year Mine Plans. Restoration activities for Offset Properties in the reporting period are discussed in section 4.11.1.	Y
6) Rehabilitation provides suitable habitat for conservation significant fauna	Presence of relevant conservation significant fauna is observed within expected timeframes (see LOEMP) in rehabilitation (compared with relevant forest control plots).	- Construction of fauna habitats included in State Forest rehabilitation. - Local provenance seed used in rehabilitation in accordance with the Rehabilitation Prescription. - Hollow forming tree species included in seed mix and verified to be present in rehabilitation. - Retention and replacement of woody debris in State Forest, including, where practicable, hollow logs in rehabilitation. - Research program implemented to support adaptive management of rehabilitation. - Develop and implement a vertebrate fauna rehabilitation monitoring program for forest rehabilitation in Marradong, Hotham North and Quindanning. - Support research in determining alternative hollows/designs for habitat that can be incorporated into rehabilitation (ongoing). - Continue to investigate options to enhance coarse woody debris incorporation into rehabilitation/ecological restoration to enhance termite activity.	No rehabilitation fauna monitoring was completed during the reporting period. Rehabilitation was completed in accordance with the management actions (refer ARP). Rehabilitation research is ongoing (refer ARP). Vertebrate fauna monitoring programs are currently under review to allow adaptive management in methodology and to incorporate monitoring within additional operational areas (Marradong & Hotham North). No monitoring under this program occurred during the reporting period.	Y
7) Minimise impacts on Conservation significant fauna associated with Worsley's operational activities.	Continued presence of Black Cockatoo Species within the Mining Regions for the	Black Cockatoo habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision).	Black cockatoos continue to be observed within the PAA (refer Table 4-10 and Table 4-12, Appendix 5: Flora and Fauna Reports) Disturbance to Black Cockatoo habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table	Y

OBJECTIVE BASED PROVISION		PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
		duration of the proposal	- Conduct pre-clearance surveys and apply required management measures in accordance with CSFMP Table 9. - All PBTs with evidence of use must be demarcated in the field and accurate GIS information collected. - Mapping layers (GIS and Vulcan) for PBTs to be maintained including assigned Rank and protection status to support mine planning and design processes. - Biodiversity offsets to be implemented in accordance with CSFMP section 6.5.10. - Monitor utilisation of Rank 1 and Rank 2 PBTs by Black Cockatoo species.	4-10). Pre-clearance surveys were conducted in accordance with the CSFMP (refer Appendix 5: Flora and Fauna Reports). All PBTs inspected during the reporting period had key data collected on tablets using Arc GIS Online. This included GIS data. Rank 1 and 2 trees were clearly demarcated in the field and avoided in accordance with the requirements of condition 13-1 and 13-4 of MS1237. Monitoring of Rank 1 and Rank 2 PBTs has not yet commenced. Surveys will be completed annually during the Sep-Nov breeding period and in accordance with the requirements of condition 15 of EPBC 2019/8437 and published as required by MS1237 condition B13-5 (section 4.6.3)	
		Continued presence of Woylie within the Hotham North mining region for the life of the proposal	- Implement and maintain ecological linkages through the known Woylie habitat (Figure 6). - Woylie habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). - Investigate less invasive survey methodology options for Woylie population assessments (e.g. eDNA). Amend survey methodologies in accordance with adaptive management following engagement with relevant authorities as improvements are identified. - Apply feral predator control mechanisms within Hotham North mining area.	Woylie were observed in the Hotham North Mining Region in November 2024 (refer Appendix 5: Flora and Fauna Reports). Disturbance to Woylie habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-10). eDNA application in fauna surveys are currently under investigation (see ARP). 1080 baiting has continued to be applied in the Hotham North Mining Region by Newmont Boddington Gold.	Y
		If a viable population of Numbat is found, continued presence of numbat in Hotham North/Marradong Timber Reserve mining regions for the life of the proposal	- Numbat habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). - Apply feral predator control mechanisms within Hotham North mining area.	Baseline targeted surveys have not identified any Numbats within the Hotham North Mining Region or Marradong Timber Reserve and there is no evidence of a population being present. Disturbance to Numbat habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-10). Feral animal aerial baiting programs are being conducted by the land owner within the Hotham North mining area. This program aligns with the DBCA western shield aerial baiting methodology.	Y
		Continued presence of Chuditch within the Hotham North & CBME mining regions for the life of the proposal	Chuditch habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision).	Chuditch were observed in the Hotham North Mining Region in November 2024 (refer Appendix 5: Flora and Fauna Reports). Disturbance to Chuditch habitat remained within allowable limits as outlined in condition B13-1 (1) (see Table 4-10).	Y
		Continued presence of Red-Tailed Phascogale within the eastern QTR mining region for the duration of the proposal	- Red-tailed Phascogale habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). - Maintain Protected Areas for Red Tailed Phascogale (CSFMP Figure 7). - Maintain ecological linkages through the known Red-tailed Phascogale habitat in QTR (CSFMP Figure 7).	Disturbance to Red-tailed Phascogale habitat remained within allowable limits as outlined in condition B13-1 (see Table 4-10). Protected Areas and Ecological Linkages within QTR were established and maintained during the reporting period. No disturbance within the protected or ecological linkages areas occurred during the reporting period (see Figure 4-3). Records of a Red-Tailed Phascogale were identified as part of the research program during April 2025 within QTR (see ARP).	Y
		Continued presence of the Western Ringtail Possum & Quokka within the CBME for the duration of the proposal	- Western Ringtail Possum and Quokka habitat disturbance to be restricted in accordance with condition B13-1 (1) (refer CSFMP Table 11 for outcome-based provision). - Apply feral predator control mechanisms on JV Land surrounding the RLA.	No disturbance occurred within the CBME during the reporting period. No fauna monitoring was completed in the CBME during the reporting period. 1080 baiting within the RLA and on surrounding JV Land continued during the reporting period.	Y
		Continued presence of Priority fauna & other significant fauna as observed within baseline monitoring and forest control plots within the Mining Regions for the duration of the proposal	- Speed limits and road rules are applied for all mine site activities (maximum 60km/h). - All conservation significant fauna incidents must be recorded in G360.	Other conservation significant fauna were observed within the PAA during the reporting period during surveys (refer Appendix 5: Flora and Fauna Reports). Significant fauna reports from the workforce continue to be recorded An incident which occurred in March where Red Tailed Black Cockatoos were found deceased in an open freshwater tank was reported n G360 but not to DBCA. This oversight in reporting to DBCA was discovered during preparation of this annual report and has since been reported to DBCA. The non-compliance in relation to deaths of CFWM (section 5.1.2) also was not reported to DBCA at the time of occurrence but has now been reported. Annual species presence monitoring program currently under development for implementation in FY26.	Y
8)	Define baseline abundance and viability of any populations of Numbat within Hotham North and MTR mining areas	Baseline assessment(s) to determine the presence of any viable Numbat population within the Hotham North and Marradong Timber Reserve Mining Regions completed by March 2026	- Undertake surveys over the Hotham North and Marradong Timber Reserve mine region in accordance with Condition B13-3 (2) (as per Figure 3 to identify the presence and abundance of Numbat. - Qualified external consultants assess the viability of any identified Numbat population. - Review outcome-based provision for Numbat in Table 11 with qualified external consultants to ensure metrics are appropriate to any identified population. Modify outcome through adaptive management processes as required in consultation with appropriate regulators.	Baseline targeted surveys for Numbat in the Hotham North Mining Region or Marradong Timber Reserve have not identified a viable population of Numbat (refer Section 4.6.4.1 and Appendix 5: Flora and Fauna Reports).	Y
9)	Define baseline abundance and viability of any populations of Woylie within the Hotham North mining area.	Baseline Woylie Population within the Hotham North Mining area defined by March 2026.	- Undertake surveys over the Hotham North mine region (see Figure 6) in accordance with Condition B13-1(2) to determine the baseline Woylie population metrics. - Assess the viability of any identified Woylie population. - Utilise baseline monitoring results and recommendations to review and update outcome-based provisions in CSFMP Table 11, as required, to address the ongoing viability of the Woylie population utilising the Hotham North mining area.	Baseline targeted surveys for Woylie in the Hotham North Mining Region commenced in November 2024 (refer Section 4.6.4.1 and Appendix 5: Flora and Fauna Reports). The population was identified as being viable. Baseline monitoring will continue into FY26. Updates to the CSFMP will be made as required following completion of baseline surveys.	Y

4.6.2 Environmental Outcomes / Disturbance

Table 4-10 outlines the total disturbance undertaken during the reporting period against the limits provided in MS1237 conditions B13-1(1)(a)-(d) and (f)-(i), and B2-1(5). An assessment against the relevant triggers and thresholds as outlined in the CSFMP are also provided. As shown in Table 4-10 no limits, triggers or thresholds were exceeded.

Figure 4-3 shows disturbance undertaken during the reporting period in relation to MS1237 condition B13-1(4) which requires no disturbance to:

- Buffers for trees being used or having evidence of use by black cockatoos for breeding;
- Peregrine falcon nests inclusive of a 30m buffer unless the tree has not been used over two consecutive breeding seasons;
- Known records of SRE's where they are only known from the PAA (unless they are known to occur in the protected areas or ecological linkages); and
- The offset values listed in table 1 of condition 15-5.

Figure 4-3 and the GIS information provided in Appendix 3: GIS Information demonstrate none of these areas have been disturbed during the reporting period.

Worsley Alumina encourages its staff and contractors to report fauna sightings so they can be recorded and referenced when planning fauna monitoring programs. The information gathered during the reporting period is outlined in Table 4-11. During the reporting period no reports to DBCA for fauna deaths were required.

Table 4-10 Record of Disturbance to Fauna Habitat (1 Feb 2025 – 30 June 2025)

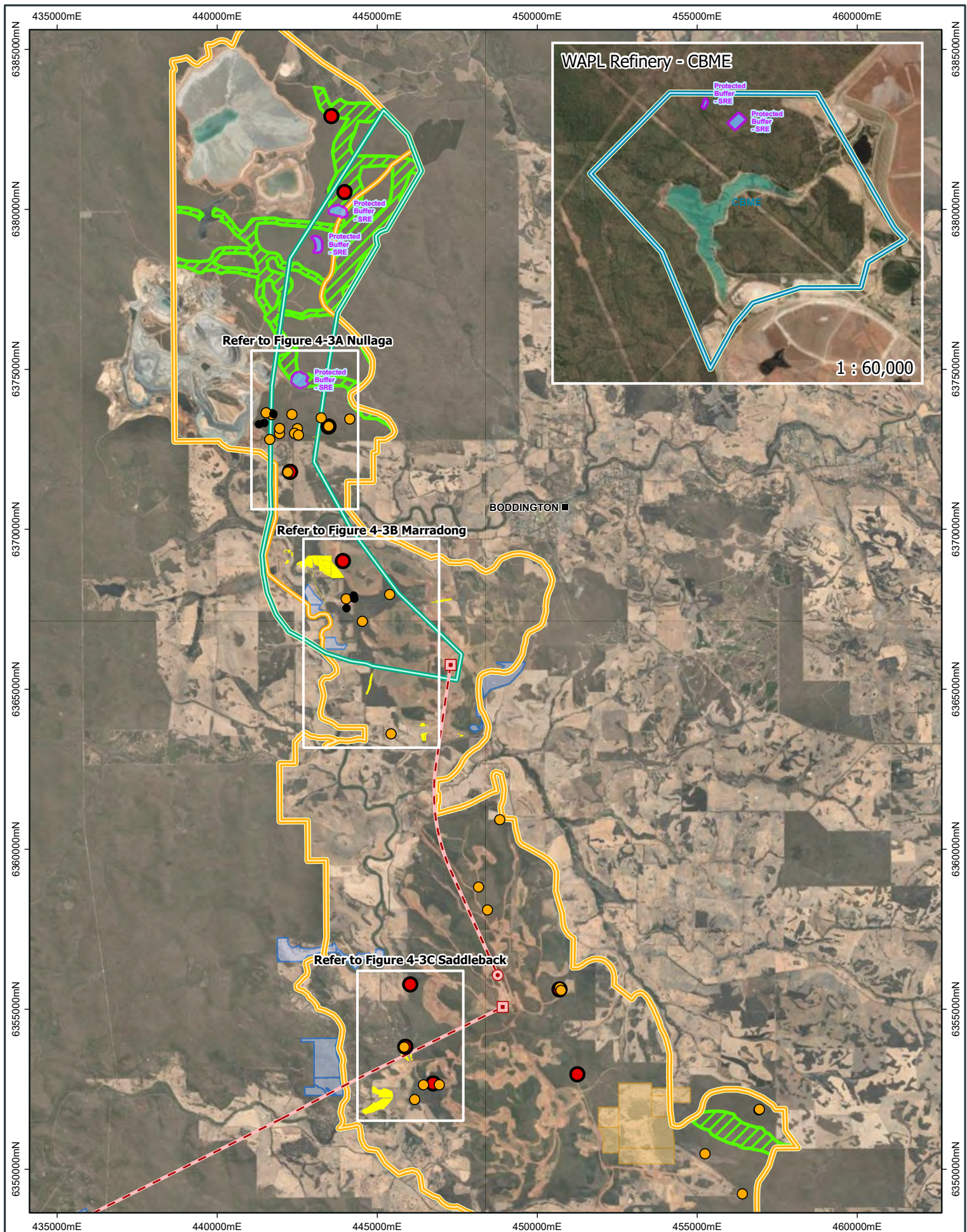
FACTOR	LIMIT (ha)	TRIGGER (ha)	THRESHOLD (ha)	DISTURBED DURING REPORTING PERIOD (ha)
QTR	276	207	262	0
Woylie Habitat	2,033	1,525	1,931	0.3
Woylie Habitat (Figure 7)	1,898	1,424	1,803	0.3
Numbat Habitat	4,324	3,243	4,108	39.3
Black Cockatoo Foraging Habitat	4,533	3,400	4,306	39.3
Chuditch Foraging Habitat	4,459	3,344	4,236	39.3
Western Ringtail Possum Habitat	135	101	128	0
Quokka Habitat	135	101	128	0
Red Tailed Phascogale Habitat	245	184	233	0
Ecological Linkages – Native Veg	146.5	n/a	n/a	0
High Quality Wandoo	295	n/a	n/a	0.12

Table 4-11 Record of Reported Fauna Sightings (1 July 2024 – 30 June 2025)

SPECIES	DATE	LOCATION
Echidna	17/09/2024	Marradong Primary Crusher
Kangaroos	13/10/2024	MW052S Section 40 Cameras
Echidna	10/10/2024	MW052S Section 40 Cameras

DETAILS OF DECLARED COMPLIANCE STATUS

Echidna	09/10/2024	MW052N Section 40 Cameras
Kangaroos	10/10/2024	MW052N Section 40 Cameras
Brush Tailed Wallabies	11/10/2024	MW052N Section 40 Cameras
Fox	12/10/2024	MW052N Section 40 Cameras
Echidna – Vehicle strike	14/10/2024	Saddleback Ring Road
Echidna	18/10/2024	NS09 Section 40 Cameras
Emu	21/10/2024	NS09 Section 40 Cameras
Kangaroos	15-25/10/2024	Fox CPE Locations
Emus	15-25/10/2024	Fox CPE Locations
Rabbits	15-25/10/2024	Fox CPE Locations
Ravens	15-25/10/2024	Fox CPE Locations
Foxes	15-25/10/2024	Fox CPE Locations
Brush Tailed Phascogale	07/12/2024	OLC Marradong Brook
Feral Pig	20/12/2024	MS006 Camera trap
Emu	13/01/2025	Saddleback Access Road
Emu – Vehicle strike	10/03/2025	Saddleback Access Road
Rabbit – Vehicle strike	10/03/2025	Saddleback Access Road
Cat	25/03/2025	Marradong Crib hut
Emus	31/03/2025	In pit BE110
Kangaroo – Vehicle strike	02/04/2025	Saddleback Access Road



LEGEND

- Town - Primary Crusher - Secondary Crusher - Overland Conveyor	Habitat Trees [WAPL] - Verified Rank 1 - Verified Rank 2 - CLEARED	Clearing Feb25 to Jun 25 Period - Clearing Undertaken (Total Area = 114.4 ha) Development Envelopes [MS1237] - BTC (Bauxite Transport Corridor) - CBME (Contingency Bauxite Mining Envelope) - WMDE (Worsley Mining Development Envelope) - PAA (Primary Assessment Area)	MS1237 Ecological Linkages (EcoLs) - Protected Areas [WAPL] - Protected SRE - Protected Habitat Trees	MS1237 Local Offsets - Local Offsets 1 - Local Offset 2 - Gibbs Property
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Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 4 Kilometres

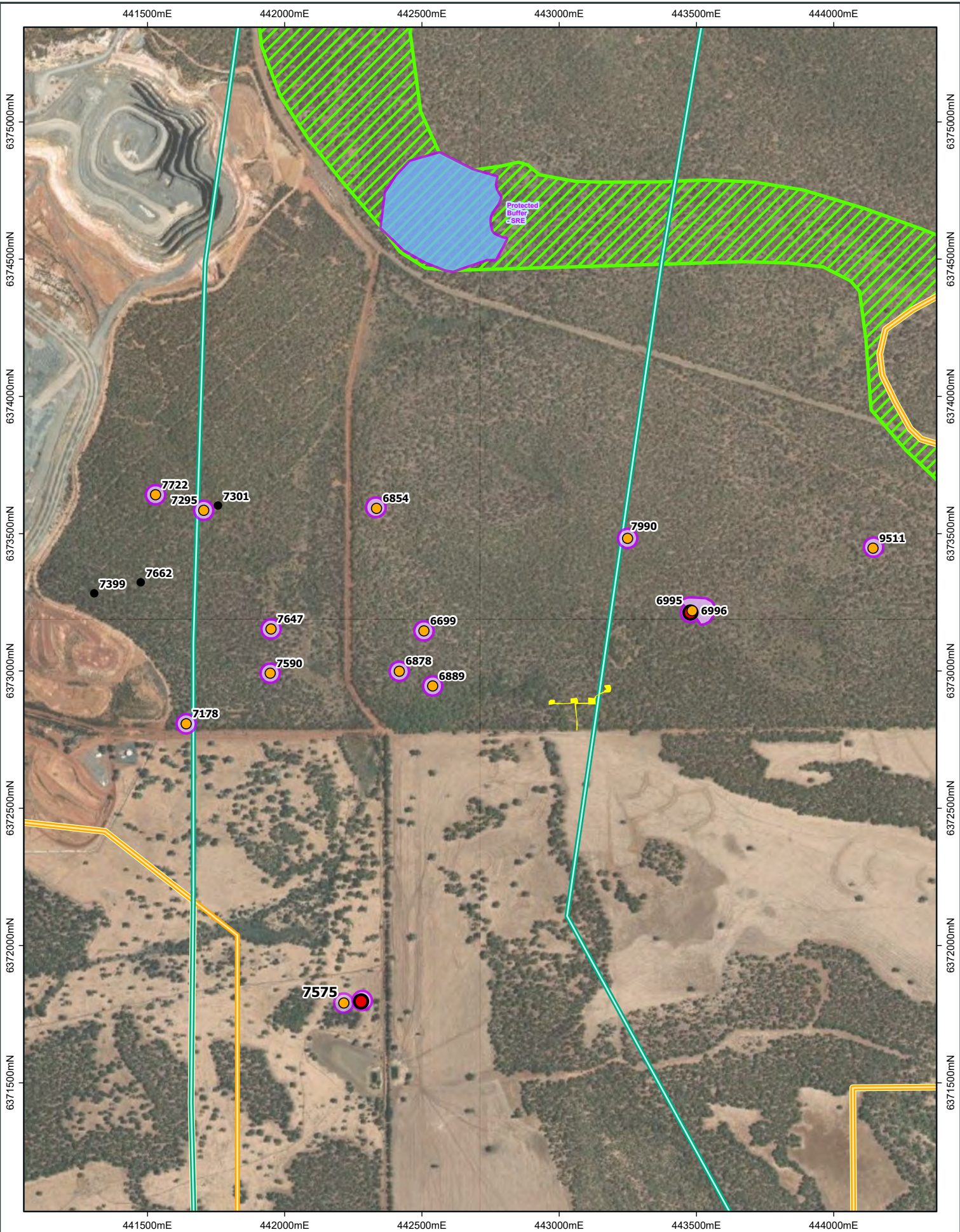
SOUTH32 Worsley Alumina Pty Ltd

Clearing Activity Proximity to Protected Areas and SRE Locations

FIGURE 4-3

MS1237 Compliance Assessment Report FY25
EPBC 2019/8437 Annual Compliance Report FY25

Date: 25 September 2025 Author: dlmm1



LEGEND

Habitat Trees [WAPL]

Verified Rank 1

Verified Rank 2

CLEARED

Clearing Feb25 to Jun 25 Period

Clearing Undertaken (Total Area = 114.4 ha)

Development Envelopes [MS1237]

BTC (Bauxite Transport Corridor)

WMDE (Worsley Mining Development Envelope)

PAA (Primary Assessment Area)

MS1237 Ecological Linkages (EcoLs)

Protected Areas [WAPL]

Protected SRE

Protected Habitat Trees

Projected: GDA2020 MGA Zone 50

Datum: GDA2020

0

0.4

Kilometres

N

SOUTH32

Worsley Alumina Pty Ltd

Clearing Activity Proximity to Protected Areas and SRE Locations - Nullaga

MS1237 Compliance Assessment Report FY25

EPBC 2019/8437 Annual Compliance Report FY25

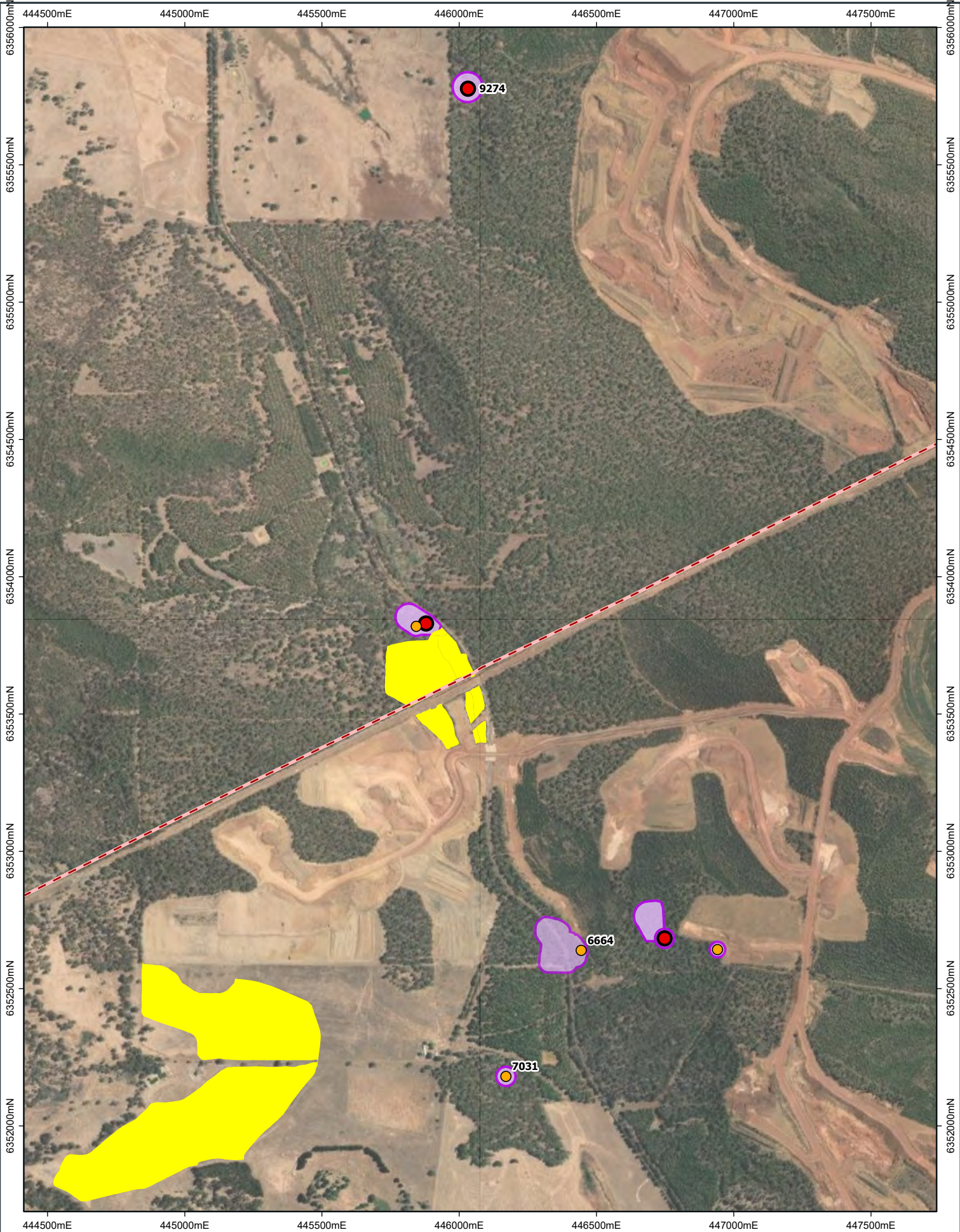
Date: 25 September 2025

Author: dlmm1

FIGURE 4-3

A

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LEGEND

Overland Conveyor

Verified Rank 1

Verified Rank 2

Habitat Trees [WAPL]

Clearing Feb25 to Jun 25 Period

Clearing Undertaken (Total Area = 114.4 ha)

Development Envelopes [MS1237]

WMDE (Worsley Mining Development Envelope)

PAA (Primary Assessment Area)

Protected Areas [WAPL]

Protected Habitat Trees

0

0.6

Kilometres

Projected: GDA2020 MGA Zone 50

Datum: GDA2020

N

SOUTH32

Worsley Alumina Pty Ltd

Clearing Activity Proximity to Protected Areas and SRE Locations - Saddleback

MS1237 Compliance Assessment Report FY25

EPBC 2019/8437 Annual Compliance Report FY25

Date: 25 September 2025

FIGURE 4-3

C

Author: dl1mm1

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4.6.3 Black Cockatoo Potential Breeding Trees

No Rank 1 or Rank 2 Potential Breeding Trees (PBTs) (i.e. PBT's with evidence of use) identified on Figure 8 of MS1237, or subsequently identified through pre-clearance surveys, were disturbed during the reporting period (Table 4-12) (MS1237 condition B13-1(1)e and EPBC 2019/8437 condition 13). No submissions to the CEO (or DWER) were made under MS1237 condition B13-1(1)(e) or EPBC 2019/8437 condition 11 during the reporting period.

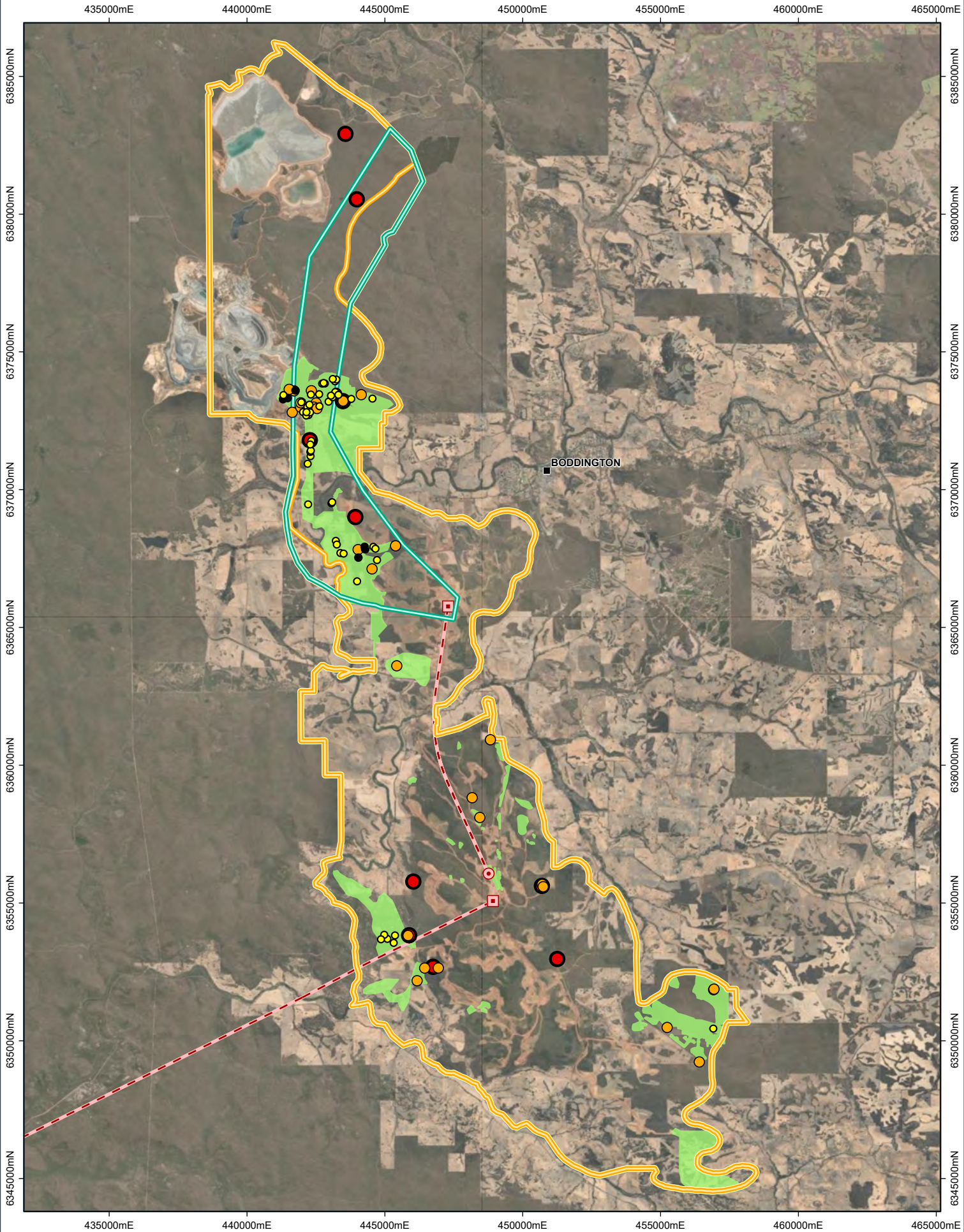
Table 4-12 Black Cockatoo Potential Breeding Trees – Trees Removed & Artificial Hollows Installed

FACTOR	LIMIT	TRIGGER	THRESHOLD	TOTAL DURING REPORTING PERIOD
Trees Removed	24	18	23	0
Artificial Hollows Installed	72	N/A	N/A	30

All trees were inspected within 7 days prior to clearing in accordance with MS1237 condition B13-4 and EPBC 2019/8437 condition 10. As required by MS1237 condition B13-5 and EPBC 2019/8437 condition 14 and condition 42, a summary report documenting the methodology and findings of inspections, buffer allocation in accordance with MS1237 condition B13-4(2) and avoidance in accordance with MS1237 condition B13-4(3) and EPBC 2019/8437 condition 12 is provided in Appendix 6: Black Cockatoo Hollows – Methodology and Findings. The report will be made publicly available as an appendix to this CAR in accordance with MS1237 condition B13-5 and EPBC 2019/8437 condition 14. In accordance with the CSFMP, each tree is assigned a rank (Rank 1-5), and protection is provided to Rank 1 and 2 trees, with Rank 3 trees being inspected for change in status at least 7 days prior to clearing but are not protected if there is no evidence of use.

Figure 4-4 shows the Rank 1-3 PBTs identified within the PAA to date through pre-clearance surveys, including Rank 3 PBTs which have been cleared after inspection. The figure also shows the areas surveyed in accordance with the CSFMP during and prior to the reporting period.

Monitoring of Rank 1 and Rank 2 PBTs has not yet commenced due to the timing of approvals in relation to breeding seasons. Surveys will be completed annually during the Sep-Nov breeding period and in accordance with the requirements of condition 15 of EPBC 2019/8437 and published as required by MS1237 condition B13-5. Monitoring will also include artificial hollows. The first monitoring report as required by EPBC 2019/8437 condition 43, will be published with the CAR required for the FY26 reporting period.



LEGEND

Town

Primary Crusher

Secondary Crusher

Overland Conveyor

Habitat Trees [WAPL]

Verified Rank 1

Verified Rank 2

Verified Rank 3

CLEARED

Development Envelopes [MS1237]

BTC (Bauxite Transport Corridor)

WMDE (Worsley Mining Development Envelope)

PAA (Primary Assessment Area)

Fauna Pre-Clearance Survey Areas

Completed

Projected: GDA2020 MGA Zone 50
Datum: GDA2020
0 4
Kilometres

N

SOUTH32

Worsley Alumina Pty Ltd

**Verified Rank 1-3 PBTs
Identified within the PAA
to date and Area Surveyed
in accordance with the CSFMP**

MS1237 Compliance Assessment Report FY25
EPBC 2019/8437 Annual Compliance Report FY25

Date: 25 September 2025

FIGURE
4-4

Author: dlmm1

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4.6.4 Targeted Surveys / Ecological Surveys

Worsley Alumina has defined ongoing fauna monitoring programs within the CSFMP. Most of these programs are currently being developed or reviewed in consultation with independent ecologists. Monitoring under each program will commence in accordance with the timeframes and commitments included within the CSFMP.

4.6.4.1 Woylie & Numbat Surveys

In accordance with MS1237 conditions B13-1(2) and B13-1(3), and EPBC 2019/8437 conditions 22 and 23, Worsley Alumina must ensure the ongoing viability of the population of Woylie in Hotham North and of any population of Numbat recorded in Hotham North and Marradong Timber Reserve mining regions (Figure 11 of MS1237). MS1237 condition B13-3 (1) and (2) and EPBC 2019/8437 condition 17 require the undertaking of surveys for both the Woylie and Numbat within 12 months of the date of MS1237 (or within 12 months of the date of EPBC 2019/8437 in respect of condition 17). Two surveys have been undertaken one for Hotham North (2025, Phoenix) and one for Marradong (2025 Biologic). Reports from these surveys are provided in Appendix 5: Flora and Fauna Reports as per the following:

- Phoenix Environmental Sciences – Population Estimates for Numbat and Woylie for the Hotham North Project, May 2025.
- Biologic Environmental Survey – Technical Memo: South32 Marradong Targeted Numbat Survey, January 2025.

These reports will be used to assess compliance with conditions B13-1(2) and B13-1(3) over time.

4.6.4.2 Pre-clearance surveys

Pre-clearance surveys for fauna have been completed for all disturbance areas during the reporting period. These surveys were conducted in accordance with the endorsed CSFMP. Pre-clearance surveys include identification and ranking of PBTs, identification of other habitat features, and opportunistic recording of any evidence of conservation significant fauna (refer Appendix 5: Flora and Fauna Reports). Pre-clearance surveys also include checks for Malleefowl mounds, as required under EPBC 2019/8437 condition 16. The survey areas are shown in Figure 4-4.

MS1237 condition B13-6 and EPBC 2019/8437 conditions 20 and 21 require the presence of fauna handlers on site during clearing activities and ceasing operations in any case where threatened fauna are identified until the fauna handler considers the individual is no longer occurring in the area (through relocation or observation of movement from the clearing area). During the reporting period, no threatened mammals were observed during pre-clearance surveys completed within 7 days of clearing activities being undertaken or during clearing activities.

4.6.4.3 Short Range Endemic Fauna (SRE)

In the CSFMP, Worsley Alumina committed to design and implement a SRE monitoring program for the mine rehabilitation areas within 12 months from the date of MS1237. Design of the program and proposed implementation is progressing, and updates will be reported in future CARs.

Short range endemic fauna known only to occur within the PAA are included in Protected Areas. There was no disturbance to the Protected Areas designated for SRE fauna, as required by MS1237 condition B13-1(4)(c), during the reporting period (see Figure 4-3).

4.6.4.4 Threatened Fauna Monitoring

In accordance with the CSFMP, regular fauna monitoring is undertaken within and surrounding operational areas of BBM. Worsley Alumina has committed to design a species presence confirmation survey program which will complement the current three-year rotating vertebrate fauna monitoring and will contribute to overall

understanding of ongoing viability of Threatened fauna populations in the PAA as required by MS1237 condition B13-7 and EPBC 2019/8437 condition 18. An updated version of the CSFMP will be submitted to DWER in accordance with the C2 conditions of MS1237 after December 2025 which will include additional detail regarding the final fauna monitoring programs.

4.7 INLAND WATERS

4.7.1 Water Management Plan

MS1237 condition B16-2 requires Worsley Alumina to update and submit the Water Management Plan (WMP version 6.0) and MS1237 condition C1-1 requires Worsley Alumina to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the WMP version 6.0 meets the requirements of the relevant conditions or as otherwise agreed by the CEO. Confirmation that the WMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter is available in Appendix 4: Environmental Management Plans – . Worsley Alumina notes that the letter references an incorrect Ministerial Statement number, however the letter accepts the correct WMP. In accordance with MS1237 condition C2-6 and EPBC 2019/8437 condition 62, the WMP Version 6.0 was made publicly available on the South32 website ([Worsley Alumina - Documents](#)).

No sensitive biodiversity data was required to be redacted in accordance with EPBC 2019/8437 condition 64 for any publicly available version of the WMP.

No changes, including minor revisions, were made to the WMP during the reporting period in accordance with MS1237 conditions C2-3 – C2-5 or EPBC 2019/8437 condition 58.

The WMP has been implemented including management measures to protect Carter's Freshwater Mussel as required under EPBC 2019/8437 conditions 28 and 29.

Table 4-13 and Table 4-14 provide Worsley Alumina's performance against the WMP's outcome-based provisions and objective based provisions, respectively. Some triggers and thresholds were reached during the reporting period as outlined in Table 4-13 and management based objective provisions were implemented in accordance with the WMP (Table 4-14).

Table 4-13 Performance Against WMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
BBM					
Outcomes: 1. No disturbance or adverse impacts to <i>Caladenia hopperiana</i> or <i>Caladenia caesarea</i> subsp. Mooradung associated with surface water and / or groundwater changes. 2. No adverse impacts to conservation significant flora, fauna or ecological communities as a result of surface and/or groundwater changes attributable to the proposal. 3. No adverse impacts to native vegetation within or adjacent to the PAA as a result of surface and / or groundwater changes attributable to the proposal. 4. No adverse impacts to hydrological regimes and water quality of the Hotham River, Marradong Brook, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal. 5. No adverse impacts to GDEs within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal. 6. No adverse impacts to neighbouring groundwater users as a result of the proposal.					
Outcome 1	Depth to groundwater (mbgl)	Measured groundwater level for deep monitoring bores located in areas known to support Threatened flora rise above trigger levels outlined in WMP Table 12 8	Measured groundwater level for deep monitoring bores located in areas known to support Threatened flora rise above threshold levels outlined in WMP Table 12 8		
		No trigger exceedances recorded	No threshold exceedances recorded	Groundwater monitoring was completed in accordance with the WMP with no trigger or threshold exceedances recorded (see section 4.7.2.2).	Y
Outcome 5	Depth to groundwater (mbgl)	Groundwater level rises above set trigger level for monitoring bore (see WMP Appendix A).	Groundwater level rises above set threshold level for monitoring bore (see WMP Appendix A)		
		No trigger exceedances recorded	No threshold exceedances recorded	The GDE groundwater monitoring program was completed in accordance with the WMP with no trigger or threshold exceedances recorded (see section 4.7.2.2).	Y
Outcomes 5 & 6	Depth to groundwater (mbgl)	Groundwater level decline from minimum recorded baseline groundwater level exceeds trigger level (see WMP Appendix A).	Groundwater level decline from minimum recorded baseline groundwater level exceeds threshold level (see WMP Appendix A).		
		No trigger exceedances recorded	No threshold exceedances recorded	The GDE groundwater monitoring program was completed in accordance with the WMP with no trigger or threshold exceedances recorded (see section 4.7.2.2).	Y
Outcomes 1,2, 3, 5 & 6	Groundwater Abstraction	Groundwater abstraction for a production bore exceeds sustainable yield for the month.	Groundwater abstraction for an aquifer exceeds sustainable yield for the financial year.		
		28 Trigger Level exceedances were recorded across nine production bores during the reporting period	No threshold exceedances recorded	The recommended yield applied to all production bores was assessed in 2015. Given operational activities have progressed significantly since that time, sustainable yield testing may not accurately reflect the capacity of the production bores. Sustainable yield testing will be undertaken for all production bores during the next reporting period to ensure that the values are reflective of current bore capacities. These will continue to be conducted on a 6 yearly basis into the future in accordance with the WMP. An investigation into the trigger level exceedances by an external hydrogeologist determined that temporary increased pumping in the areas was likely to be sustainable given the clearing that had occurred in the upper slopes of the catchment areas which is likely to have resulted in increased availability of groundwater until rehabilitation becomes established.	Y
Outcomes 1, 2, 3 & 5	Depth to groundwater (mbgl)	Groundwater levels do not demonstrate an observable recovery toward pre-mining levels within 5 years of rehabilitation (comparable to reference sites).	Groundwater levels of post mining catchments do not return to equivalent unmined catchment levels within 10 years following rehabilitation		
		Not assessed during the reporting period	Not assessed during the reporting period	This outcome will be assessed as part of the Triennial Aquifer Review Process.	NR
Outcomes 1,2, 3, 4, 5 & 6	Salinity (TDS / EC) pH	Groundwater quality measures show a concerning trend during annual data review or triennial aquifer reviews	Groundwater quality measures show a continued concerning trend following implementation of trigger level actions (allowing up to 2 years from implementation for changing conditions to be observed in groundwater).		
		No trigger exceedances recorded	No threshold exceedances recorded	Given the short timeframe associated with this reporting period no meaningful trend analysis of monitoring data over the review period was possible. Results received from the laboratory were reviewed and compared with historic monitoring results with no recorded values observed outside the expected range. A review of annual logger data did not identify any concerning trends aside from A04.	Y
Outcomes 2, 3, 4 & 5	Surface water salinity (TDS / EC) Surface water turbidity / TSS	Downstream surface water quality measures show a change in water quality of more than 2 SDEV from the mean when compared to upstream monitoring locations	Surface water monitoring results over a 3 month period show consistent decreased water quality at downstream monitoring locations		
		One trigger exceedance recorded	No threshold exceedances recorded	One trigger level exceedance for turbidity was recorded for the Hotham River during the reporting period. Refer to section 4.7.2.4 for further detail.	Y
REFINERY					

OUTCOME		PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1.	No adverse impacts to hydrological regimes and water quality of the Augustus River attributable to the proposal.	Surface water salinity (EC)	Downstream surface water quality measures at Augustus River Gauging Station (ARGS) exceed set trigger levels as defined in WMP Appendix B	Exceedance of water quality criteria as outlined in Surface Water Licence		
			No trigger exceedances recorded	No threshold exceedances recorded	Worsley monitors EC at the ARGS stations. Refer to Annual Hydrology Report Appendix 7: Water Monitoring Results and Reports	Y
			Environmental water release to the Augustus River does not meet required flow rate of the Surface Water Licence for a given month	Environmental releases do not meet required flow rates for a period of 3 consecutive months		
			No trigger exceedances recorded	No threshold exceedances recorded	The ecological release is managed in accordance with the Surface Water Licence. Worsley complied with the ecological release requirements during 2024 (prior to the issue of MS1237). Details of the release and compliance to the Licence is detailed in the Annual Hydrological Report Appendix 7: Water Monitoring Results and Reports	Y
CARTERS FRESHWATER MUSSEL						
1.	No direct impacts on Carters Freshwater Mussel (CFWM) due to Project-related activities		<u>FWL CFWM Population:</u> Clearing occurs without an authorised internal permit within the CBME but outside the 50 m separation area for the FWL.	Unauthorised clearing or disturbance within the 50 m separation area for the FWL		
			No trigger exceedances recorded	No threshold exceedances recorded	Worsley did not clear vegetation in the CBME during the reporting period	Y
			<u>Interim Trigger Criteria:</u> Laboratory analysis for surface water quality shows results exceeding the trigger levels for any given analyte as detailed in WMP Table 5-5	<u>Interim Threshold Criteria:</u> Laboratory analysis for surface water quality shows results exceeding the threshold levels for any given analyte as detailed in WMP Table 5-5		
			TSS exceedances were measured during the reporting period	Threshold exceedances recorded	The sampling as required by the approved Water Management Plan commenced during the reporting period. Worsley has reported several exceedances of the threshold criteria during the reporting period. Further details are provided in Table 4-32	N
			Individual mortality of CFWM recorded at FWL.	50% reduction in CFWM known population size recorded at FWL.		
			Trigger exceedance	Threshold exceedance	Stantec conducted a survey during the reporting period who concluded the following for the FWL: - Monitoring of the CFWM population is ongoing and a baseline population has not yet been determined. - Two years of monitoring in the Freshwater Lake have been completed however the most recent 2024 survey recorded 37 dead CFWM representing 56.25% of the recorded numbers. However, some of these recorded dead mussels are likely to have been long dead and not an annual reduction in population size. Further details are available in Appendix 5: Flora and Fauna Reports	N
			Reduction in density of CFWM by >20% against baseline for Augustus River.	50% reduction in CFWM density (per m2) from baseline in Augustus River		
			No trigger exceedances recorded	No threshold exceedances recorded	Stantec conducted a survey during the reporting period who concluded the following for the Augustus River: Augustus River CFWM population remains stable. Further details are available in Appendix 5: Flora and Fauna Reports	Y
2.	No disturbance to native vegetation within 30 m of the Augustus River bank attributable to the proposal		<u>Augustus River CFWM Population:</u> Clearing occurs without an authorised internal permit within the CBME but greater than 30 m from the Augustus River.	Unauthorised clearing or disturbance within 30 m of the Augustus River		
			No trigger exceedances recorded	No threshold exceedances recorded	No clearing has occurred within 30m of the Augustus River in the reporting period	Y
3.	Indirect impacts on CFWM due to Project-related activities are minimised		Isolated occurrence of overtopping of sediment trap(s) into FWL	Continued occurrence / or overtopping of multiple sediment traps into the FWL		
			No trigger exceedances recorded	No threshold exceedances recorded	No uncontrolled overflows from the onsite sediment traps	Y
			<u>Interim Trigger Criteria:</u> Laboratory analysis of sediment records Mercury (Hg) >0.15 mg/kg.	<u>Interim Threshold Criteria:</u> Laboratory analysis of sediment records Mercury (Hg) >1 mg/kg		
			No trigger exceedances recorded	No threshold exceedances recorded	Mercury levels recorded were below criteria	Y
			Water levels recorded below 231m Australian Height Datum in FWL (AHD).	Water levels recorded below 225m AHD for a period of three months in FWL		

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
		The April, May and June FWL dips recorded levels below 231m	No threshold exceedances recorded	Water levels were maintained above 225 m AHD for the reporting period. Due to a very dry summer, occasional dips in the FWL indicated the FWL was below the trigger criteria of 231m.	Y

Table 4-14 Performance Against WMP Objective Based Provisions

OUTCOME / OBJECTIVE / COMMITMENT	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
BBM			
Minimise impacts on GDEs and SWDEs	- Conduct landscape assessment and baseline flora monitoring to identify potential locations of GDEs and SWDEs. - Conduct baseline groundwater and surface water monitoring and ground truthing to verify location and boundaries of GDEs and SWDEs within highest risk impact areas as identified through modelling and FDA (i.e. potential groundwater mounding risk or salinity hotspot identified). - Define Protected Areas and associated buffers in accordance with the FVMP. - Complete investigations into the sensitivities and tolerances of any conservation significant GDE vegetation structures vulnerable to groundwater mounding predictions. - Review and revise the water monitoring program to ensure the monitoring program intent is met for any newly identified GDEs and / or SWDEs.	Potential GDEs and SWDEs were identified as part of the assessment process for the Worsley Mine Expansion – Revised Proposal. Baseline groundwater and surface water monitoring has been completed as part of historical monitoring or has commenced in accordance with the WMP (v 6.0) for recently established monitoring bores and surface water sampling locations. Protected Areas have been defined in accordance with the FVMP including stream buffers. No further investigations into sensitivities and tolerances were carried out during the reporting period. A review of the GDE targeted monitoring program will be completed by an independent hydrogeologist upon finalisation and submission of the 10 Year Mine Plan to ensure suitability to assess potential impacts over the next 3-year operational period. The outcomes of this review will be incorporated into the WMP through submission of a minor amendment (as required).	Y
Minimise the risk of riverbank erosion and sedimentation	- Apply stream buffers in accordance with the FMP (CPCWA, 2023) and <i>Water Quality Protection Note 6:</i> (Department of Water, 2006). - Manage stream buffers in accordance with the FVMP. - Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads in accordance with the Bauxite Mine Site Drainage Standard (01020749) and the Trunk Haul Road Design and Construction Specification (00112148). - Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks. - Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns. - Develop a CEMP with appropriate controls for all construction works (to be endorsed by applicable government authorities).	FVMP was implemented during the reporting period including the protection of stream buffers. Water management infrastructure was maintained in accordance with site procedures and no stormwater discharge events were recorded during the reporting period. A Bed and Banks permit was obtained for all preliminary works completed within the Hotham River stream bed and banks. CEMP was implemented during the reporting period.	Y
Minimise risk of Worsley's mining operations impacting on water quality (salinity).	- Minimise native vegetation disturbance and utilise existing cleared areas or areas that will be disturbed for future mining pits where possible. - Complete FDA for new mining areas to determine salinity risks. Additional salt storage investigations to be completed for high-risk areas. - Progressive rehabilitation of disturbed land. - No ground disturbance within PDWSAs until working arrangements are developed and agreed upon with regulators and the Water Corporation	Clearing of native vegetation continues to be minimised where possible. FDA Analysis has been completed for all mining areas within the PAA. Rehabilitation continues within the PAA (see ARP). No ground disturbance occurred within PDWSAs during the reporting period (Figure 4-1).	Y
Minimise risk of adverse impacts to hydrological regimes of the Hotham River, Marradong Brook, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal	- Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns. - Crossing design must consider peak flow and potential flood ways. - Draft Completion Criteria for rehabilitation includes the requirement for ensuring the landform is integrated into the surrounding landscape including earthworks requirements for final pit design and that surface water management is designed to prevent prolonged surface or subsurface ponding. - The BBM Closure plan includes rehabilitation to the Hotham River Disturbance	Surface water monitoring program was undertaken during the reporting period (see section 4.7.2.4). Hotham River crossing design takes into consideration peak flow and potential flood ways. Progressive rehabilitation in accordance with draft completion criteria continued during the reporting period (see ARP).	Y
Minimise impacts on shallow aquifers	- Groundwater modelling for new mining areas to determine groundwater mounding risks. - Regular sustainable yield testing for all production bores in the shallow and the deep fractured rock aquifer (6 yearly). - Additional groundwater abstraction bores installed to supply water for mining operations will target the deep fractured rock aquifer.	Groundwater modelling was completed as part of the Environmental Impact Assessment process. Sustainable yield testing will be undertaken in FY26.	Y
Minimise groundwater abstraction	- Implement water efficiency measures to minimise water use for operational requirements. - Maintain abstraction to within designated abstraction limit / sustainable yield - Seek alternative sources of water (if required). - Regular (monthly) communication of groundwater abstraction rates against trigger levels / sustainable yields with relevant internal stakeholders	Chemical dust suppressants were applied in high use areas during the reporting period to minimise water use. All abstraction bores remained within the annual recommended yield for the reporting period (see section 4.7.2.1).	Y
Minimise risk of contamination of groundwater and surface water from chemicals and hydrocarbons	- Avoid storage of chemicals and hydrocarbons in PDWSAs. - Chemicals, hydrocarbons and other environmentally hazardous materials stored and handled in accordance with Dangerous Goods Safety Act 2004 and associated regulations. - Construction of fuel containment infrastructure in accordance with Australian Standards. - All spills will be managed in accordance with Spill Management Procedures and SWIs.	No storage of chemicals or hydrocarbons in PDWSAs occurred during the reporting period. All potentially contaminated stormwater run-off was managed in accordance with Part V licence requirements. Hydrocarbon storage area continued to operate during the reporting period.	Y

OUTCOME / OBJECTIVE / COMMITMENT	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
	- Collection and treatment of potentially contaminated stormwater run-off from workshops and hydrocarbon storage areas. - Contaminated soils at BBM to be placed in lined hydrocarbon storage area until removal from site by a licensed contractor.		
Minimise the risk of exposure of PASS	- Mining footprint to avoid low-lying topographical areas in the vicinity of rivers and creeks. - Acid Sulphate / Potentially Acid Sulphate soil monitoring as part of risk management in disturbance areas - A CEMP must be developed with an associated ASSMP to outline the identification, sampling and management of any PASS expected to be encountered for the construction of river crossings.	CEMP was implemented during the reporting period to manage this risk.	Y
REFINERY			
Minimise risk of groundwater contamination from Refinery operations (including BRDAs)	- All BRDAs to have engineered design which includes clay liners and an underdrainage system - Grout curtains installed. - Concrete bunding to be maintained for all Refinery process areas and hydrocarbon storage areas. - Maintain water management structures to ensure continued separation of the Refinery Lease Area (RLA) into two catchment areas: clean (diverted to the FWL) and dirty (diverted to the RCL) - Maintain depression bores located between BRDAs and FWL with pumping capacity to divert contaminated underflow from BRDAs to the dirty catchment if required	Engineering and operational controls are in place to minimise the impact to groundwater. The Annual Hydrology Report provides further evidence Appendix 7: Water Monitoring Results and Reports	Y
Minimise impacts on surface water resources (i.e. FWL)	- BRDA engineered design - Pipe head dams - Install and maintain erosion control measures (silt / sediment traps, contouring etc) for catchment areas that feed the FWL - Installation of water management infrastructure (sumps, perimeter drains, drainage lines etc) for all operational areas including haul roads in accordance with the existing Site Drainage – BBM Standard (STA-402) and the Trunk Haul Road Design and Construction Specification (00112148). - Emergency Response Plans developed for Material Risks (i.e. Catastrophic failure of BRDA).	Engineering controls are in place to minimise the impact to surface water. Pipehead dams are managed and operated to collect decant water from the BRDAs. The FWL catchment contains erosion control measures including a number of silt traps. No haul roads are constructed at the Refinery. Emergency response plans are in place according to the requirements of the BRDA and RCL material risks.	Y
Minimise risk of contamination of surface water and/or groundwater from spills, chemicals or stormwater run-off	- Environmentally hazardous material releases will be managed in accordance with the Spill Management SWI (01027460). - Concrete bunding installed and maintained for all Refinery process areas and hydrocarbon storage areas - Maintain Dangerous Goods Licence. - Develop and maintain a Hazardous Substance Management Procedure. Training provided to applicable personnel in accordance with the Hazardous Substance Management Procedure (00114502). - Ensure spill kits are readily available in high risk areas. - Install and maintain Oil / water separators in maintenance areas.	Potentially hazardous materials releases are managed in accordance with the Spill Management SWI Worsley Refinery has maintained its Dangerous Goods Licence (DGS009760). Concrete bunding is installed and maintained around the Refinery to contain potential hydrocarbon spills or leaks. Hazardous Substance Management procedure in place Spill kits are available and maintained around the Refinery. Oil/water separators are in place where required.	Y
Minimise risk of insufficient water supply	- Identify and implement water efficiency measures to minimise water use for operational requirements. - Ensure compliance with licence to take water from FWL. - Installation of a water supply pipeline to Wellington Dam. - Development of a long-term water supply strategy	The Refinery operates at above 93% water efficiency and opportunities for improvement are investigated. Compliance to the Surface Water Licence is outlined the in Annual Hydro Report, refer to Appendix 7: Water Monitoring Results and Reports. The pipelines from Wellington Dam to the Refinery is maintained and is utilised where necessary. The long-term water supply strategy is under review and development in order to secure long term climate resilient water supply.	Y
Minimise impacts on conservation significant fauna habitat	- Define Protected Areas and associated buffers in accordance with the FVMP. - Review and revise the water monitoring program to ensure the monitoring program intent is met for protection of vegetation that provides fauna habitat - Install monitoring bores at least two years prior to construction of BRDA4E or the commencement of contingency mining activities and collect two years of baseline monitoring then ongoing monitoring in accordance with the WMP	Protected areas for known environmental values are in place for the CBME. If required, following Pre-clearance surveys, further protected areas will be reviewed in accordance with the FVMP Clearing planning in the CBME will be undertaken in accordance with the FVMP, and based on values identified, the WMP will also be reviewed to ensure these values are protected in accordance with both plans. At this stage clearing for contingency mining activities or construction of BRDA4E is not planned.	Y
Minimise impacts on threatened aquatic fauna	- Apply stream buffers in accordance with the FMP (CPCWA, 2023). - Manage stream buffers in accordance with the FVMP. - Disturbance of the Freshwater Lake by contingency mining activities will be avoided by maintaining a separation distance of 50 m, from the high-water mark. - Develop a monitoring program for Carter’s Freshwater Mussel to assess health and potential populations within the FWL and Augustus River. This monitoring program will include consideration of mercury and other elements that may impact the health of the species. - Alternative mitigations for the Carter’s Freshwater Mussel, including translocation of individuals, may be considered, if required, and will be undertaken in consultation with relevant government authorities. - Training and awareness with staff of the impact and the management measures (including new management measures identified) to reduce the potential impact CFWM.	A monitoring program has been developed and is under implementation to assess the health of the CFWM. Refer to Table 4-32 and Appendix 5: Flora and Fauna Reports for further information.	Y
PORT			
Minimise risk of contamination of surface water and / or groundwater from spills, chemicals or stormwater run-off	- Safe Work Instructions in place for chemical loading/unloading activities. - Dangerous Goods Licence in place. - Develop and maintain a Hazardous Substance Management Procedure. Training provided to applicable personnel in accordance with the Procedure (00114502). - Bunding and sumps in place.	Work instructions are in place for the handling of chemicals at the Port. Potentially hazardous materials releases are managed in accordance with the Spill Management SWI. Several key personnel have completed HSERT - Spill Management Q50016177 training. Worsley Port has maintained its Dangerous Goods Licence (DGS009760).	Y

OUTCOME / OBJECTIVE / COMMITMENT	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
Monitor known pre-existing hydrocarbon contamination to understand any changes	- Automated control and interlock systems installed. - Tank level control installed. - Ensure spill kits are readily available. - Registration of site under <i>Contaminated Sites Act 2003</i>	Concrete bunding is installed and maintained around the Port to contain spills or leaks. Water is tested prior to release to ensure a suitable pH level. Spill kits are available and maintained around the Port.	

4.7.2 BBM Water Reporting

4.7.2.1 Water Abstraction

Monitoring of abstraction from the production bores/borefields was undertaken in accordance with the WMP. The total abstraction for each borefield is provided in Table 4-15 and monthly abstraction from each production bore is provided in Table 4-16. As can be observed from Table 4-16, eight of the 25 production bores recorded exceedances of the trigger value for monthly recommended yield during the reporting period (trigger level exceedances are highlighted in yellow). These exceedances occurred primarily during the driest part of the year when water demand is highest for use in dust suppression activities. Lower than average rainfall in Boddington for the months of May 2025 (36% of historic average) and June 2025 (41% of historic average) also led to higher abstraction requirements with the persistence of dry soil conditions. A review of the Trigger level exceedances identified that most production bores with trigger level exceedances were in catchments upslope of clearing. In these circumstances groundwater levels in the area become elevated due to decline in evapotranspiration and higher abstraction can be sustained until rehabilitation is established. A review of surrounding groundwater monitoring bores (as discussed in section 4.7.2.2) found no concerning trends showing groundwater level decline in areas surrounding the production bores indicating that the increased abstraction during these months has not led to an environmental impact or indirect impacts to flora or fauna habitat.

As can be observed from Table 4-15, the higher levels of pumping from specific production bores have resulted in only one borefield, Fawcett, having abstraction exceeding the calculated Recommended Yield during the reporting period. The total abstraction from this borefield for FY2025 was 94.69 ML which is within the annual recommended yield for the borefield of 102 ML. No threshold level exceedances were recorded for groundwater abstraction during the reporting period.

Recommended yield testing of the production bores was undertaken in 2015 and therefore requires completion to ensure values remain accurate. The next testing program will be undertaken in winter 2026.

Table 4-15 Total Water Abstraction (ML)

BOREFIELD	RECOMMENDED YIELD	RECOMMENDED YIELD FOR REPORTING PERIOD*	ABSTRACTION**
Tunnell Road	302	176.12	141.14
Karafil Road	265	154.58	80.78
Fawcett	102	59.5	71.04
South East	387	247.92	111.46
Marradong	394	215.83	63.6
Quindanning	TBA***	TBA***	18.56
TOTAL			486.58

*Recommended Yield has been extrapolated to cover a 7-month period.

**Abstraction is for the reporting period (Dec 2025 – June 2025). Total abstraction for FY25 was 697.3 ML.

***Borefield is newly established, will be determined through yield testing to be completed in winter 2026.



Trigger level exceedance

Threshold level exceedance

Table 4-16 Monthly Production Bore Abstraction Compared to Recommended Yield

BORE	BOREFIELD	RECOMMENDED MONTHLY YIELD (ML)**	MONTH						
			DEC	JAN	FEB	MAR	APR	MAY	JUN
E01/06	South East	9			0.41	0.46	2.15	2.07	0.69
K01	Karafil	2.4	2.87*	2.54*	2.15	2.05	1.63	1.22	0
K06	Karafil	2.4	2.31	2.03	1.77	1.92	1.77	1.5	0
K07	Karafil	3.75	1.55	1.39	1.46	2.74	2.58	1.93	0.22
K08	Karafil	2.7	4.83*	4.33*	3.84	3.52	3.83	3.38	0.28
K09	Karafil	10.5	5.22	7.11	4.49	1.46	0.83	1.32	0.73
M01/08	Marardong	9	1.44	1.06	1.04	0.98	1.03	1.05	1.71
M01/11	Marradong	2.58	2.93*	3.54*	3.57	3.8	3.13	2.23	0.71
M01/18	Marradong	6.48	3.96	3.73	3.08	3.28	3.06	2.39	0.44
M02/08	Marradong	0.87	3.06*	2.94*	2.82	2.81	2	1.39	0.43
M03/09	Marradong	11.4	0	0	0	0	0	0	0
SE01/01	South East	2.7	2.85	2.61	2.47	2.65	1.89	1.98	0.87
SE03/01	South East	2.4	4.61*	4.07*	2.15	0.22	0.01	3.69	5.81
SE01/04	Fawcetts	6.1	6.95*	6.46*	5.8	6.2	4.9	4.41	7.52
SE02/03	South East	4.5	3.78	3.46	0.5	3.62	6.01	4.49	5.3
SE02/06	South East	3	2.72	2.8	2.39	2.54	2.39	1.91	2.47
SE01/03	South East	2.4	0.75	0	6.27	5.04	0.61	0	0
F12	Fawcetts	2.4	1.9	1.9	4	9	7.2	4.8	0
Q1/24	To be established in the next Triennial Aquifer Review		0	1.03	3.97	8.95	1.93	1.44	1.25
T07/A	Tunnell Road	1.8	2.71*	2.46*	1.95	2.25	2.01	1.61	1.45
T08	Tunnell Road	3.45	2.43	2.22	1.54	1.6	1.35	0.92	1.07
T10	Tunnell Road	4.5	3.57	3.42	3.04	3.39	3.2	2.8	3.51
T12	Tunnell Road	4.5	8.62*	10.59*	8.11	11.18	10.57	8.22	11.83
T13	Tunnell Road	10.5	3.59	3.61	3.2	3.78	3.41	2.72	3.23

BORE	BOREFIELD	RECOMMENDED MONTHLY YIELD (ML)**	MONTH						
			DEC	JAN	FEB	MAR	APR	MAY	JUN
T14	South East	9	2.19	2.11	1.79	1.95	2.06	2.03	0.64
* Denotes an abstraction value that was above the recommended monthly yield that does not represent a trigger level exceedance as the WMP was not yet being implemented.									
** Monthly recommended yield is calculated as a 30 day average from the recommended yield per day taken from the Triennial Aquifer Review July 2020 – June 2023 (Green, Croton & Dalton, 2024). (Appendix 7: Water Monitoring Results and Reports									
Trigger level exceedance									
Threshold level exceedance									

4.7.2.2 Water Monitoring

Water monitoring activities continued during the reporting period. Results are provided below in accordance with the monitoring activities outlined in the Water Management Plan (WMP).

4.7.2.2.1 BBM Water Monitoring

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime and these are outlined in Table 4-17. Where these triggers or thresholds have been reached, they are highlighted in yellow (triggers) or red (thresholds) in the monitoring reporting tables in section 4.7.2.2.2.

Table 4-17 BBM Trigger and Threshold Levels

BBM GROUNDWATER MONITORING						
BORE	GROUNDWATER RISE (mbgl)		GROUNDWATER DECLINE (mbgl)		TDS (mg/L)	
	Trigger	Threshold	Trigger	Threshold	Trigger	Threshold
A04	9.6	6.4	N/A	N/A	N/A	N/A
B01	0.7	0.6	15.4	15.9	N/A	N/A
H12D*	TBA	TBA	N/A	N/A	N/A	N/A
H12S*	TBA	TBA	N/A	N/A	N/A	N/A
H13D	TBA**	TBA**	N/A	N/A	N/A	N/A
H13S	TBA**	TBA**	N/A	N/A	N/A	N/A
MP21	14.85	9.9	N/A	N/A	N/A	N/A
P12	1.5	1.3	10.85	11.35	N/A	N/A
Q03	2.2	1.8	4.25	4.75	N/A	N/A
Q05	2.6	2.2	10.55	11.05	N/A	N/A
Q06	20.6	13.8	N/A	N/A	N/A	N/A
Q07	18.2	12.15	N/A	N/A	N/A	N/A
Q08	14.6	9.7	N/A	N/A	N/A	N/A
T05	1	0.8	11.85	12.35	N/A	N/A
T07C	2.3	1.95	16.15	16.65	N/A	N/A
T11	3.4	2.9	17.1	17.6	N/A	N/A
T11A	3.3	2.8	16.3	16.8	N/A	N/A
Q09	N/A	N/A	N/A	N/A	TBA**	TBA**
Q11	N/A	N/A	N/A	N/A	TBA**	TBA**
All other bores Potentially concerning trend identified by hydrogeologist within the triennial aquifer review of groundwater monitoring data. Potentially concerning trend identified during annual monitoring review undertaken in association with CAR.						

BBM SURFACE WATER MONITORING

Sample Type	Trigger	
	TDS (mg/L)	EC, Turbidity, TSS (various)
Livestock Dams	4000	N/A
Regional Surface Water	Downstream monitoring point water quality is inferior to upstream water quality and is >2SDEV from the mean upstream monitoring point. Where upstream monitoring point is not available use mean baseline	Downstream monitoring point water quality is inferior to upstream water quality and is >2SDEV from the mean upstream monitoring point. Where upstream monitoring point is not available use mean baseline
S42	TBD***	N/A

* Bores yet to be installed

** Insufficient baseline to set trigger and threshold levels at this time (2 years required). Bores installed June 2024.

*** Used to support Targeted Perched Aquifer – *C hopperiana* monitoring program. 12 months baseline monitoring required to establish baseline for trigger level.

4.7.2.2.2 Regional and GDE Groundwater Monitoring

Groundwater monitoring was undertaken in accordance with the Water Management Plan (v6.0). Most monitoring locations under the groundwater monitoring programs have been in place, and had ongoing monitoring, for a number of years. However, some additional sites have only recently been included in the monitoring program with the implementation of the WMP in February 2025. Installation of loggers into the new monitoring locations is currently being rolled out as described in the WMP. During the reporting period loggers were installed in K14, Q02, Q07 and Q08. A logger will be installed in Q01 during the next monitoring round. Loggers were already in place at all other locations requiring continuous monitoring. A number of monitoring locations experienced issues with loggers during the reporting period. These issues are described in Table 4-18 with associated response actions to be implemented by Worsley Alumina.

Table 4-18 Logger Faults and Incidents

BORE	FAULT	RESPONSE ACTION
F06-D	Data collection ceased after Nov 2024	Repair / replace logger next quarterly monitoring round
K14	Logger was stolen.	Replace logger during next monitoring round
SW01	Data collection failed after Nov 2024	Repair / replace logger next quarterly monitoring round
Q07	Logger was stolen after data collection in February 2025	Replace logger during next monitoring round
T06C	Data collection ceased after 17 Feb 2025	Repair / replace logger next quarterly monitoring round
T11	Incorrectly named in WMP – should be T11A	Minor amendment to WMP
H13D	Data collection ceased after December 2024	Repair / replace logger next quarterly monitoring round
B04	This bore has become artesian, logger has been removed and the well has been sealed.	Remove monitoring location from continuous monitoring program in WMP.
M01/18	Bore cover has seized, unable to access.	Maintenance required to restore access.
M01	Data collection ceased after Nov 2024	Repair / replace logger next quarterly monitoring round
M04	Data collection ceased after Nov 2024	Repair / replace logger next quarterly monitoring round
MP03	Data collection ceased after Jan 2025	Repair / replace logger next quarterly monitoring round
MP17	Data collection ceased Nov 2023	Repair / replace logger next quarterly monitoring round

Field samples were still taken at these locations continue to be taken at six monthly intervals, with the exception of M01/18 and where these sampling events fell within the reporting period they are included in Table 4-19 to Table 4-21. Implementation of the current version of the WMP commenced in February 2025. Under the previous monitoring program samples were collected in December/January and June/July. This sampling regime was maintained in FY2025 and as a result ten locations were not sampled within the current reporting period (20 Dec 2024 – 30 June 2025). The mine-site is currently transitioning to the new monitoring regime which targets the peak summer (i.e. lowest groundwater level) and peak winter (i.e. highest groundwater level) conditions. A review of historic logger data indicates that sampling

during the months of April/May (summer peak) and October/November (winter peak) best aligns with this sampling regime. These months will be the target sampling months for the program into the future commencing October/November 2025.

Graphs of the historic water levels and historic analysis of the water quality, where available, for these monitoring locations are provided in Appendix 7: Water Monitoring Results and Reports.

Field samples during the reporting period recorded one trigger level exceedance which occurred at monitoring location A04 (see Table 4-19). A review of the logger data and long-term trend data for this bore shows that groundwater levels have been increasing since 2005 with recorded levels now reaching levels higher than the baseline conditions measured in the 1970s. This potentially concerning trend will be investigated in accordance with the WMP with input from hydrogeologists to understand whether additional controls need to be applied to prevent groundwater levels from reaching the defined threshold of 6.4 mbgl.

Table 4-19 Regional and GDE Groundwater Field Monitoring Results

BORE	DATE	WATER LEVEL		EC	Temp.	pH	DO
		mbgL	m AHD	µS/cm	°C	-	%
K04	9-Jan-25	15.18	291.79	1608	19.82	6.82	
	3-Jun-25	16.96	290.01				
	11-Jun-25	16.76	290.21	2225	11.84	6.43	5.11
K05	9-Jan-25	6.87	274.81	1582	23.45	6.71	
	11-Jun-25	7.74	273.94	1301	7.19	6.49	2.68
K13	12-Jun-25	8.81	226.69	1740	14.11	6.08	5.12
K14***	Not sampled during the reporting period						
T05	19-Mar-25	5.53	325.46				
	2-Jun-25	6.12	324.87	352	19.87	5.04	10.48
T06C	12-Jun-25	6.5	308.09	349	16.93	5.38	4.28
T07C	19-Mar-25	9.27	301.06				
	12-Jun-25	10.79	299.54	916	18.83	6.64	2.8
T11	19-Mar-25	12.71	278.7				
	2-Jun-25	13.47	277.94	925	17.75	6.38	3.59
T11A	19-Mar-25	12.47	275.47				
	2-Jun-25	13.53	274.41	912	17.2	5.4	3.17
P12	2-Dec-24	3.63	327.36	305	18.25	4.86	2.57
A04	11-Jun-25	9.07	293.61	2501	18.95	5.24	3.15
B01	22-Jan-25	1.03	297.04	1419	22.54	5.33	2.05
	19-Mar-25	1.29	296.78				
	25-Jun-25	1.32	296.75				
B04	22-Jan-25			1977	24.86	5.3	2.64
	23-Jan-25			1955	20.76	5.26	2.16
E01/04***	Not sampled during the reporting period						
F06-D***	Not sampled during the reporting period						
SW01***	Not sampled during the reporting period						
Q01	10-Jun-25	0.44	295.58	11	15.66	5.72	3.15
Q02	23-Jan-25	4.25	291.89	10495	30.64	6	5.24
Q03	26-Mar-25	2.63	230.86				
	25-Jun-25	2.46	231.03				
Q05	23-Jan-25	3.09	282.54	518	37.82	6.19	6.08
	26-Mar-25	3.75	281.88				
	25-Jun-25	4.11	281.52				
Q06	26-Mar-25**	DRY	-	-	-	-	-
	25-Jun-25**	DRY	-	-	-	-	-
Q07	22-Jan-25	26.96	257.87	5470	27.83	6.64	6.03
	26-Mar-25	27.2	257.63				

BORE	DATE	WATER LEVEL		EC	Temp.	pH	DO
		mbgL	m AHD	µS/cm	°C	-	%
	25-Jun-25	27.31	257.52				
Q08	21-Jan-25	25.52	248.1	2048	32.45	7.7	7.17
	26-Mar-25	25.71	247.91				
	25-Jun-25	25.86	247.76				
Q09	25-Jun-25	DRY					
Q11	21-Jan-25	DRY					
	25-Jun-25	DRY					
H13D	25-Jun-25	27.64	309.46				
H13S	25-Jun-25	5.97	330.83				
M01***		Not sampled during the reporting period					
M01/18**		Not sampled during the reporting period					
M03	9-Jan-25	3.86	260.45	3026	20.87	6.21	0.53
M04***		Not sampled during the reporting period					
M06	4-Jun-25	3.35	229.33	2478	18.25	6.06	0.79
MP03	9-Jan-25	1.53	243.47	2160	25.69	6.22	5.07
MP10	11-Jun-25	2.9	261.1	3851	15.22	5.97	3.64
MP14	10-Jul-25	1.946	230.05	3352	19	6.37	2.59
MP17	10-Jun-25	DRY					
MP21	30-Jan-25	25.87	229.14	2519	26.92	5.82	5.2
	26-Mar-25	24.39	230.62				
	25-Jun-25	24.89	230.12				
MP26	11-Jun-25	5.89	259.12	13803	16.07	6.22	3.68
MP27	12-Jun-25	16.28	233.72	7893	13.62	6	4.01
N01	4-Jun-25	1.1	198.74	2997	16.79	6.15	4.33
N04***		Not sampled during the reporting period					
N05	9-Jan-25	4.6	191.53	282	21.91	7.55	4.86
N07	4-Jun-25	2.39	198.3	1441	18.7	6.28	6.54
N10	4-Jun-25	5.07	201.86	8272	18.09	6.01	1.9

* Bore sampling date prior to and / or after the reporting period

** Bore cover seized shut – unable to sample

*** Sampling occurred outside the current reporting period (i.e. Prior to 20 Dec 2024 and after 30 Jun 2025)

	Trigger level exceedance
	Threshold level exceedance

Table 4-20 Regional and GDE Groundwater Laboratory Monitoring Results

BORE	DATE	pH	EC	TDS	Tot. Alk.	Si as SiO ₂	F ⁻	Tot. P as P	NO ₃ ⁻ +NO ₂ ⁻ as N	NH ₃ as N	NH ₃ ⁺ as N	Tot. N	Mg ²⁺	Na ⁺	K ⁺	Ca ²⁺	Cl ⁻	SO ₄ ²⁻
		µS/cm				mg/L												
K04	9/01/2025	7.04	1570	1020	257								43	122	6	108	395	28
	11/06/2025	7.39	2370	1540	282	59.2	<0.1	0.05	<0.01	<0.01	<0.01	<0.1	74	218	5	129	597	36
K05	9/01/2025	7.01	1620	1050	226								43	139	6	98	446	30
	11/06/2025	7.2	1860	1210	269	56	<0.1	0.05	<0.01	<0.01	<0.01	<0.1	51	170	5	117	443	30
K13	12/06/2025	6.87	2220	1440	77	19	<0.1	0.72	0.39	2.08	2.07	2.7	54	287	4	67	637	63
K14***	Not sampled during the reporting period																	
T05	2/06/2025	6.05	354	230	21	10.3	<0.1	0.07	0.17	<0.01	<0.01	0.2	5	55	<1	4	80	14
T06B	12/06/2025	7.12	306	199	16	9.6	<0.1	<0.1	0.07	<0.01	<0.01	0.3	6	47	<1	5	78	5
T06C	2/06/2025	7.63	952	619	227	76.3	<0.1	0.03	0.03	<0.01	<0.01	<0.1	28	73	2	77	175	6
T07C	12/06/2025	7.47	657	427	152	46	<0.1	<0.1	0.06	<0.01	<0.01	0.2	24	54	2	31	107	6
T11	2/06/2025	7.14	955	621	160	62.7	<0.1	0.13	0.01	<0.01	<0.01	<0.1	30	85	2	58	215	8
T11A	2/06/2025	6.28	935	608	26	13.1	<0.1	0.02	0.08	<0.01	<0.01	<0.1	19	129	<1	18	282	15
P12	18/06/2025	6.68	1920	1250	41	16.7	<0.1	0.04	0.12	<0.01	<0.01	0.4	46	251	1	38	562	35
A04	11/06/2025	5.86	2560	1660	39	19.6	<0.1	0.14	<0.01	<0.01	<0.01	0.8	76	335	<1	49	756	80
B01	22/01/2025	6.49	1440	936	67	24	<0.1	0.13	0.03	0.43	0.43	0.8	35	176	3	28	433	46
F06-D***	Not sampled during the reporting period																	
SW01****	Not sampled during the reporting period																	
Q01	10/06/2025	6.54	10800	7020	125	51.1	0.2	0.05	0.07	0.03	0.03	0.4	442	1200	5	292	3610	212
Q02	22/01/2025	6.54	10800	7020	137	41.2	0.2	0.83	0.03	10.4	10.4	10.3	487	1060	18	309	3240	324
Q03***	Not sampled during the reporting period																	
Q04	21/01/2025	6.45	5540	3600	60	47.9	0.2	0.29	0.03	0.82	0.82	0.8	204	605	4	124	1670	156
Q05	23/01/2025	6.57	11300	7340	117	41.6	0.2	0.61	0.02	6.43	6.42	6.2	513	1110	14	325	3450	329
Q06	26/03/2025**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	25/06/2025**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Q07	23/01/2025	6.87	5620	3650	123	34.3	0.3	0.2	<0.01	<0.01	<0.01	0.3	236	507	7	184	1630	116
Q08	23/01/2025	7.46	1960	1270	50	16.9	<0.1	0.2	<0.01	<0.01	<0.01	0.2	42	241	5	43	606	58
M01***	Not sampled during the reporting period																	
M01/18*	Not sampled during the reporting period																	
M03	9/01/2025	6.8		1860	126								66	340	<1	71	886	32
M04***	Not sampled during the reporting period																	
M06	4/06/2025	6.63	2020	1670	105	52.8	0.2	0.08	0.04	0.04	0.04	<0.1	79	345	3	40	764	38
MP03	9/01/2025	6.76	3950	1310	85								64	188	2	80	635	66
MP10	11/06/2025	6.53	5280	2570	139	39.4	<0.1	0.06	<0.01	0.03	0.03	1.1	199	316	2	163	1170	45
MP14***	Not sampled during the reporting period																	
MP17	10/06/2025**	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MP21	30/01/2025	6.31		1600	48	30.8	<0.1	0.3	0.06	<0.01	<0.01	0.4	102	204	4	84	749	51
MP26	11/06/2025	6.96	8540	9160	325	10.5	<0.1	<0.1	<0.01	0.06	0.06	0.4	478	1820	2	392	5050	253

BORE	DATE	pH	EC	TDS	Tot. Alk.	Si as SiO ₂	F ⁻	Tot. P as P	NO ₃ ⁻ + NO ₂ ⁻ as N	NH ₃ as N	NH ₃ ⁺ as N	Tot. N	Mg ²⁺	Na ⁺	K ⁺	Ca ²⁺	Cl ⁻	SO ₄ ²⁻
		µS/cm			mg/L													
MP27	12/06/2025	6.94		5550	150	32.5	<0.1	0.07	0.53	0.05	0.05	1.5	349	898	<1	326	2950	315
N01	4/06/2025	6.71		2030	60	53.1	0.2	0.04	3.19	0.07	0.07	3.7	132	310	<1	96	878	105
N04***		Not sampled during the reporting period																
N05	9/01/2025	7.43		190	54								2	63	<1	<1	57	19
N07	4/06/2025	6.77		1050	55	59.8	<0.1	0.09	6.5	<0.01	<0.01	7.3	84	85	<1	81	447	59
N10	4/06/2025	6.73	2870	5400	177	26.7	<0.1	0.01	0.33	<0.01	<0.01	0.5	327	786	2	402	2630	274
* Bore cover seized shut – unable to sample																		
**Well was dry on date of attempted sampling																		
*** Sampling occurred outside the current reporting period (i.e. Prior to 20 Dec 2024 and after 30 Jun 2025)																		
**** Logger failed																		

Table 4-21 Regional Groundwater Laboratory Monitoring Results – Total Metals

BORE	DATE	TOTAL METALS (mg/L)											
		Al	As	Cd	Cr	Cu	Fe	Hg	Mn	Ni	Pb	Se	Zn
K04	9/01/2025		<0.001	<0.0001	<0.001	0.024			0.671	0.006	<0.001		0.049
	11/06/2025	0.03	<0.001	<0.0001	<0.001	0.002	1.26	<0.0001	0.667	0.009	<0.001	<0.01	0.015
K05	9/01/2025		<0.001	<0.0001	<0.001	0.018			0.276	0.004	<0.001		0.04
	11/06/2025	0.04	<0.001	<0.0001	0.002	0.002	0.74	<0.0001	0.389	0.008	<0.001	<0.01	0.018
K13	12/06/2025	1.5	<0.001	<0.0001	0.005	0.005	1.62	<0.0001	0.019	0.006	0.061	<0.01	0.018
K14***		Not sampled during the reporting period											
T05	2/06/2025	0.12	<0.001	<0.0001	0.008	0.006	0.25	<0.0001	0.017	0.024	<0.001	<0.01	0.041
T06C	2/06/2025	0.06	<0.001	<0.0001	0.002	0.004	1.85	<0.0001	0.079	0.005	<0.001	<0.01	0.008
T07C	12/06/2025	<0.01	<0.001	<0.0001	<0.001	<0.001	<0.05	<0.0001	0.001	<0.001	<0.001	<0.01	<0.005
T11	2/06/2025	0.39	<0.001	<0.0001	0.007	0.014	14.6	<0.0001	0.127	0.008	<0.001	<0.01	0.031
T11A	2/06/2025	0.05	<0.001	<0.0001	0.058	0.003	0.35	<0.0001	0.005	0.022	<0.001	<0.01	0.022
P12	18/06/2025	0.14	<0.001	<0.0001	<0.001	0.004	0.16	<0.0001	0.002	0.002	<0.001	<0.01	<0.005
A04	11/06/2025	4.65	<0.001	0.0003	<0.001	0.108	8.23	<0.0001	0.029	0.005	0.062	<0.01	0.025
B01	22/01/2025	0.04	<0.001	<0.0001	0.002	0.003	0.58	<0.0001	0.557	0.008	0.017	<0.01	0.01
F06-D***		Not sampled during the reporting period											
Q01	10/06/2025	0.05	<0.001	0.0002	<0.001	0.008	0.17	<0.0001	0.256	0.04	<0.001	<0.01	0.048
Q02	22/01/2025	0.14	<0.001	0.0002	<0.001	0.039	0.38	<0.0001	0.054	0.036	0.022	<0.01	0.124
Q03***		Not sampled during the reporting period											
Q05	23/01/2025	0.26	<0.001	0.0004	0.001	0.048	0.51	0.0001	0.057	0.038	0.016	<0.01	0.13
Q06	26/03/2025**	-	-	-	-	-	-	-	-	-	-	-	-
	25/06/2025**	-	-	-	-	-	-	-	-	-	-	-	-
Q07	23/01/2025	1.17	<0.001	0.0001	0.002	0.026	4.01	<0.0001	1.24	0.02	0.002	<0.01	0.208
Q08	23/01/2025	0.37	<0.001	<0.0001	<0.001	0.02	0.36	0.0005	0.016	0.003	0.002	<0.01	0.044
M01***		Not sampled during the reporting period											
M01/18*		Not sampled during the reporting period											

BORE	DATE	TOTAL METALS (mg/L)											
		Al	As	Cd	Cr	Cu	Fe	Hg	Mn	Ni	Pb	Se	Zn
M03	9/01/2025		0.002	<0.0001	0.001	0.023			0.062	0.013	0.002		0.066
M04***		Not sampled during the reporting period											
M06	4/06/2025	0.75	<0.001	<0.0001	0.005	0.005	1.97	<0.0001	0.152	0.017	<0.001	<0.01	0.036
MP03	9/01/2025		<0.001	<0.0001	0.001	0.004			0.006	0.008	0.003		0.026
MP10	11/06/2025	0.65	<0.001	<0.0001	0.002	0.006	1.68	<0.0001	0.02	0.006	0.002	<0.01	0.029
MP14***		Not sampled during the reporting period											
MP17	10/06/2025	DRY	-	-	-	-	-	-	-	-	-	-	-
MP21	30/01/2025	0.69	<0.001	<0.0001	0.006	0.012	2.59	<0.0001	0.172	0.014	0.001	<0.01	0.093
MP26	11/06/2025	0.39	<0.001	<0.0001	0.002	0.008	1.19	<0.0001	0.005	0.002	<0.001	<0.01	0.029
MP17	10/06/2025**	-	-	-	-	-	-	-	-	-	-	-	-
MP27	12/06/2025	0.11	<0.001	0.0002	0.002	0.016	0.46	<0.0001	0.043	0.005	<0.001	<0.01	0.018
N01	4/06/2025	1.24	<0.001	<0.0001	0.004	0.002	2.38	<0.0001	0.011	0.004	<0.001	<0.01	0.017
N04***		Not sampled during the reporting period											
N05	9/01/2025		<0.001	<0.0001	0.008	0.011			0.049	0.004	0.002		0.016
N07	4/06/2025	0.75	<0.001	<0.0001	0.004	0.004	2.24	<0.0001	0.02	0.006	<0.001	<0.01	0.024
N10	4/06/2025	0.18	<0.001	<0.0001	0.001	0.003	0.53	<0.0001	0.006	0.016	<0.001	<0.01	0.032

* Bore cover seized shut– unable to sample
**Well was dry on date of attempted sampling
*** Sampling occurred outside the current reporting period (i.e. Prior to 20 Dec 2024 and after 30 Jun 2025)

4.7.2.3 Production Bore Monitoring Program

Production bore monitoring was undertaken in accordance with the Water Management Plan (v6). The results are provided in Table 4-22 to Table 4-24.

Table 4-22 Production Bore Laboratory Monitoring Results (pH EC TDS, Alkalinity, Silicon as SiO₂, Fluoride, N)

BORE	pH	EC	TDS	Alkalinity	Silicon (SiO ₂)	Fluoride	N
		µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L
E01/06	7.08	1830	1280	171	76.5	0.1	<0.01
K01	6.98	1330	928	206	61.4	<0.1	<0.01
K06	7.74	813	544	83	44	<0.1	<0.01
K07	7.15	2920	2190	286	70.6	<0.1	<0.01
K08	7.64	2810	2100	240	58.8	<0.1	<0.01
K09	6.87	1720	980	50	28.5	<0.1	0.77
M01/08	8	4690	4250	287	63.6	<0.1	<0.01
M01/11	7.94	3130	2420	172	62.1	0.1	<0.01
M02/18*	7.58	6400	4770	157	54.3	0.1	<0.02
M02/08	7.36	5060	3450	194	53.7	<0.1	<0.01
M02/09****	-	-	-	-	-	-	-
M03/08****	-	-	-	-	-	-	-
M03/09**	-	-	-	-	-	-	-
SE01/01	7.67	1650	1060	262	85.8	0.1	<0.01
SE01/03***	-	-	-	-	-	-	-
SE01/04	7.11	8050	5660	146	57.5	0.2	<0.01
SE02/03	7.49	5810	3220	199	78	0.1	0.06
SE02/06	6.89	3490	2170	42	48.8	0.1	0.8
T07/A	6.6	381	215	22	12.7	<0.1	0.09
T08	6.81	701	416	41	19.9	<0.1	0.04
T10	6.62	812	484	35	17.3	<0.1	0.07
T12	7.17	747	518	143	74.8	<0.1	0.02
T13	7.3	704	480	159	76.6	<0.1	<0.01
T14	7.07	1160	808	143	89.8	0.1	<0.01
SE02/01**	-	-	-	-	-	-	-
SE03/01	7.09	3670	2630	152	70.1	0.1	0.17

* Incorrectly described as M01/18 in WMP – correct in WMP

** Bore has been decommissioned – remove from WMP

*** Bore undergoing maintenance during the reporting period, no water drawn

**** These are airwells (not production bores) – remove from WMP.

Table 4-23 Production Bore Laboratory Monitoring Results (Major Cations & Anions)

BORE	Ca	Mg	Na	K	Fe	Cl	SO ₄
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
E01/06	121	59	141	3	1.71	458	100
K01	106	34	100	3	0.1	324	13
K06	35	19	92	2	<0.05	213	10
K07	247	74	220	9	<0.05	792	61
K08	212	74	240	6	0.15	795	45
K09	36	30	249	2	<0.05	532	32
M01/08	335	175	334	8	0.39	1310	48
M01/11	142	112	308	5	2.93	897	36
M02/18*	193	259	701	10	9.18	1910	178
M02/08	254	222	380	3	1.13	1460	93
M02/09****	-	-	-	-	-	-	-
M03/08****	-	-	-	-	-	-	-
M03/09**	-	-	-	-	-	-	-
SE01/01	111	49	147	3	0.07	381	38
SE01/03***	-	-	-	-	-	-	-
SE01/04	274	267	884	11	6.6	2560	171
SE02/03	359	202	429	7	0.94	1730	104
SE02/06	77	82	473	1	0.05	1070	65
T07/A	7	8	51	1	0.05	107	5
T08	18	16	88	<1	0.05	198	9
T10	19	18	102	<1	0.05	237	9
T12	44	25	62	2	3.88	156	6
T13	48	26	50	2	3.39	134	5
T14	55	45	95	2	5.35	284	26
SE02/01**	-	-	-	-	-	-	-
SE03/01	174	110	372	5	0.05	1060	103

* New Production Bore – to be added to WMP

** Bore has been decommissioned – remove from WMP

*** Bore undergoing maintenance during the reporting period, no water drawn

**** These are airwells (not production bores) – remove from WMP.

Table 4-24 Production Bore Laboratory Monitoring Results (Filtered Metals)

BORE	ANALYTE (mg/L)										
	Al	As	Cd	Cr	Fe	Hg	Mn	Ni	Pb	Se	Zn
E01/06	<0.01	<0.001	<0.0001	<0.001	1.71	<0.0001	0.652	0.107	<0.001	<0.01	0.028
K01	0.06	0.007	<0.0001	<0.001	0.1	<0.0001	0.003	<0.001	<0.001	<0.01	<0.005
K06	<0.01	<0.001	<0.0001	<0.001	<0.05	<0.0001	0.306	0.005	<0.001	<0.01	<0.005
K07	<0.01	<0.001	<0.0001	<0.001	<0.05	<0.0001	0.477	<0.001	<0.001	<0.01	<0.005
K08	<0.01	<0.001	<0.0001	<0.001	0.15	<0.0001	1.04	<0.001	<0.001	<0.01	<0.005
K09	<0.01	<0.001	<0.0001	<0.001	<0.05	<0.0001	0.054	0.008	<0.001	<0.01	0.019
M01/08	<0.01	<0.001	<0.0001	<0.001	0.39	<0.0001	0.478	<0.001	<0.001	<0.01	0.009
M01/11	<0.01	<0.001	<0.0001	<0.001	2.93	<0.0001	0.441	0.004	<0.001	<0.01	0.006
M02/18*	<0.01	<0.001	<0.0001	<0.001	9.18	<0.0001	1.01	0.006	<0.001	<0.01	0.008
M02/08	<0.01	<0.001	<0.0001	<0.001	1.13	<0.0001	0.802	0.004	<0.001	<0.01	0.039
M02/09****											
M03/08****											
M03/09**	-	-	-	-	-	-	-	-	-	-	-
SE01/01	<0.01	<0.001	0.0002	<0.001	0.07	<0.0001	0.395	0.003	<0.001	<0.01	<0.005
SE01/03***											
SE01/04	<0.01	<0.001	0.0001	<0.001	6.6	<0.0001	1.02	0.005	<0.001	<0.01	0.022
SE02/03	<0.01	<0.001	<0.0001	<0.001	0.94	<0.0001	0.738	0.002	<0.001	<0.01	<0.005
SE02/06	<0.01	<0.001	0.0002	<0.001	0.05	<0.0001	0.269	0.016	<0.001	<0.01	0.019
T07/A	<0.01	<0.001	<0.0001	<0.001	0.05	<0.0001	0.001	0.002	<0.001	<0.01	<0.005
T08	<0.01	<0.001	<0.0001	<0.001	0.05	<0.0001	0.012	0.004	<0.001	<0.01	0.015
T10	<0.01	<0.001	<0.0001	<0.001	0.05	<0.0001	0.001	0.001	0.001	<0.01	0.023
T12	<0.01	<0.001	<0.0001	<0.001	3.88	<0.0001	0.251	0.002	<0.001	<0.01	<0.005
T13	<0.01	<0.001	<0.0001	<0.001	3.39	<0.0001	0.204	0.002	<0.001	<0.01	<0.005
T14	<0.01	<0.001	<0.0001	<0.001	5.35	<0.0001	0.368	0.003	<0.001	<0.01	0.021

BORE	ANALYTE (mg/L)										
	Al	As	Cd	Cr	Fe	Hg	Mn	Ni	Pb	Se	Zn
SE02/01**	-	-	-	-	-	-	-	-	-	-	-
SE03/01	<0.01	<0.001	0.0002	<0.001	0.05	<0.0001	0.89	0.02	<0.001	<0.01	0.083

* New Production Bore – to be added to WMP
** Bore has been decommissioned – remove from WMP
*** Bore undergoing maintenance during the reporting period, no water drawn
**** These are airwells (not production bores) – remove from WMP.

4.7.2.4 Surface Water Monitoring

Surface water monitoring was undertaken in accordance with the frequency described in the Water Management Plan (v 6.0). During the review of the monitoring results for the reporting period it was identified that TSS had not been included in the laboratory analyte suite for surface water samples, this analyte will be included for all future sampling. The results from surface water monitoring are provided in Table 4-25 and Table 4-26. In addition, historic monitoring results are provided in Appendix 7: Water Monitoring Results and Reports.

Table 4-25 Surface Water Field Monitoring Results Livestock Dams

SITE	DATE	EC	TDS (Calculated)*	pH	DO	Temp	Turbidity
		µS/cm	mg/L		%	°C	NTU
D02	7/01/2025	4663.89	3031.529	8.95	10.70	28.52	2.46
	26/02/2025	3663.20	2381.08	8.02	16.49	28.07	2.46
	27/03/2025	3830.49	2489.819	8.50	11.42	27.80	5.46
	30/04/2025	2132.24	1385.956	7.82	10.21	18.32	7.81
	22/05/2025	2058.57	1338.071	7.47	9.99	15.52	0.41
	19/06/2025	2832.70	1841.255	8.08	10.25	15.22	6.08
D03	7/01/2025	3437.81	2234.577	7.98	14.17	26.81	1.16
	26/02/2025	5250.89	3413.079	8.35	11.19	28.41	3.38
	27/03/2025	2775.32	1803.958	7.63	12.68	26.85	2.89
	30/04/2025	3267.84	2124.096	8.38	160.25	19.17	20.93
	22/05/2025	3065.59	1992.634	8.33	10.51	15.94	4.40
	19/06/2025	1978.47	1286.006	7.15	7.94	16.17	1.16

*Multiplier of 0.65 used to calculate TDS from EC

Hotham River

During the reporting period all records from the Hotham River showed declines in EC/TDS in downstream monitoring locations (S15 & S07) when compared with the upstream monitoring location (S38).

Turbidity levels at downstream location S15 were higher than those recorded at the upstream monitoring location on all occasions. The value recorded in April 2025 exceeded the trigger level, being greater than 2STDEV above the historic mean (mean: 4.15; STDEV: 5.11) at 21.95 NTU. The recorded downstream turbidity falls within the historic range recorded at the upstream site (0-32.4 NTU) meaning it is within the natural variation experienced within the river and is therefore unlikely to result in environmental harm.

Williams River

All monitoring events during the reporting period for the Williams River showed declines in EC/TDS in the downstream monitoring location (S18) when compared to the upstream monitoring location (S50).

Turbidity levels generally recorded higher values at the downstream monitoring location. All downstream values for turbidity remained within 2STDEV of the mean of the upstream monitoring location (mean:10.5; STDEV: 13.01) meaning no trigger level exceedances were recorded for the Williams River during the reporting period.

Marradong Brook

All records from Marradong Brook show an increase in EC at the downstream monitoring location (S11) when compared to the upstream monitoring location (S43) however, the variance between the two locations was small and values remained below the trigger level of within 2STDEV of the upstream historic mean (mean:

5658 $\mu\text{S}/\text{cm}$; STDEV: 2001). Turbidity at the downstream location was also often recorded as being higher than that recorded at the upstream location. However, the recorded turbidity always fell within 2STDEV of the upstream mean (mean: 2.98; STDEV: 5.12) and therefore no trigger level exceedances were recorded for Marradong Brook.

Table 4-26 Surface Water Monitoring Results – Regional Surface Water

SITE	DATE	EC	pH	DO	Temp °C	Turbidity	TDS
		$\mu\text{S}/\text{cm}$		%	°C	NTU	mg/L
S07 Downstream -Hotham River (MTR)	7/01/2025	8414.52	7.96	7.64	26.14	0.98	
	26/02/2025	6619.74	7.63	7.79	26.75	1.97	4690
	27/03/2025	4334.80	8.10	8.94	25.76	2.95	4110
	30/04/2025	3047.03	8.02	10.25	16.45	0.97	3820
	22/05/2025	3169.98	7.85	10.31	14.17	0.47	
	19/06/2025	5712.61	7.57	9.11	13.68	0.07	7860
S11 Downstream – Marradong Brook	7/01/2025	4221.66	7.43	7.69	21.23	2.77	
	26/02/2025	4159.86	7.91	17.99	22.86	2.46	3050
	27/03/2025	4453.24	7.71	11.82	22.31	3.03	4410
	30/04/2025	3606.99	7.51	8.73	15.49	8.26	4710
	22/05/2025	3701.92	7.43	9.48	11.26	0.50	
	19/06/2025	6207.93	7.26	9.18	14.06	0.20	8320
S15 Downstream – Hotham River (All operations)	7/01/2025	7717.86	8.23	7.73	26.60	14.13	
	30/04/2025	3901.10	8.18	9.83	17.13	21.95	4690
S16	26/02/2025	6299.11	7.62	7.72	24.83	1.90	4540
	30/04/2025	4672.87	7.76	8.69	14.75	6.38	6230
	22/05/2025	4377.87	7.75	9.74	11.35	11.54	
	19/06/2025	4732.52	7.36	9.11	13.53	0.00	6760
S18 Downstream – Williams River	7/01/2025	5630.91	7.54	7.68	24.09	6.59	
	27/02/2025	3702.70	7.34	7.19	20.26	2.29	2850
	27/03/2025	5400.21	7.68	7.62	22.19	28.06	4100
	30/04/2025	6145.27	7.70	8.52	17.55	22.48	7670
	22/05/2025	5390.62	7.57	9.67	10.56	2.11	
	19/06/2025	5572.70	7.45	9.08	13.41	2.50	7930
S21	7/01/2025	8915.27	8.05	35.37	25.20	2.43	
	26/02/2025	9071.91	7.50	8.91	25.69	2.56	6500
	27/03/2025	8263.73	7.54	8.79	23.54	6.75	8320
	30/04/2025	5837.69	7.70	8.95	14.94	7.96	8120
	22/05/2025	5661.23	7.66	10.19	11.37	7.68	
	19/06/2025	5789.71	7.39	9.16	13.00	2.82	8380
S24	7/01/2025	9688.62	7.68	7.97	19.66	5.19	
	27/03/2025	9776.78	6.73	4.68	18.90	7.45	10800
	30/04/2025	7157.69	7.11	8.10	13.48	15.02	10300
	22/05/2025	6862.60	7.06	8.55	11.28	13.73	
	19/06/2025	7145.73	7.17	9.45	14.32	20.63	9680
S31	Dry during all sampling attempts during reporting period						
S32	Dry during all sampling attempts prior to May						
	22/05/2025	8544.74	7.14	10.12	12.13	5.65	
	19/06/2025	10306.40	6.47	6.50	13.56	0.00	13100
S33	7/01/2025	4347.49	7.08	5.09	20.81	12.31	

SITE	DATE	EC	pH	DO	Temp °C	Turbidity	TDS
		µS/cm		%	°C	NTU	mg/L
	26/02/2025	4556.96	7.07	8.00	20.97	1.98	3630
	30/04/2025	5306.78	7.61	7.15	14.24	2.11	7480
	22/05/2025	5082.55	7.37	8.26	8.97	0.69	
	27/03/2025	7267.45	7.88	9.02	24.32	2.04	7080
	30/04/2025	4909.59	7.74	8.29	17.02	1.24	6700
S38 Upstream – Hotham River	22/05/2025	4089.47	7.37	6.92	9.60	0.00	
	17/06/2025	7373.18	7.70	9.82	12.51	0.00	9820
S39	7/01/2025	14633.95	8.34	8.70	31.37	1.91	
	26/02/2025	13665.83	8.34	9.49	28.14	2.54	9420
	27/03/2025*	13300.00	8.28*			1.10	8640
	30/04/2025	6274.46	8.22	9.22	17.55	1.02	7930
	22/05/2025	5137.68	7.92	7.73	12.18	0.00	
	17/06/2025	7362.40	7.63	9.51	11.77	0.00	9940
S42	Dry during all sampling attempts prior to May						
	22/05/2025	127.24	8.38	8.95	11.59	14.97	
	19/06/2025	69.31	7.51	9.21	13.81	67.44	103
S43 Upstream - Marradong Brook	27/03/2025	3917.10	7.35	5.41	18.79	1.29	4800
	30/04/2025	3200.37	7.63	8.78	12.11	0.84	4530
	22/05/2025	2998.98	7.50	9.67	8.76	0.00	
	19/06/2025	4050.45	7.51	9.41	15.22	0.41	5340
S50 Upstream - Williams River	27/03/2025	8713.29	7.28	5.37	21.23	5.54	9160
	30/04/2025	6574.61	7.54	8.33	13.21	3.73	9420
	22/05/2025	6299.35	7.54	9.33	9.94	1.70	
	19/06/2025	6601.59	7.31	9.05	14.49	5.92	9040
WHBK10**			No samples taken during reporting period				
HBBK14**			No samples taken during reporting period				
34BK110**			No samples taken during reporting period				
* Lab sample taken only (no field measurements recorded)							
** These sampling points are sampled by Newmont Boddington Gold and information is provided to Worsley through a data sharing arrangement.							
	Trigger level exceedance						
	Threshold level exceedance						

4.7.2.5 Recycled Water Monitoring Program

Recycled water monitoring was undertaken in accordance with the Water Management Plan (v 6.0). The results are provided in Table 4-27.

All wastewater generated through the maintenance workshop activities (such as heavy vehicle washing and workshop floor cleaning) is collected in a storage bund and fed to the BBM Anpress Unit for treatment. Once treated, it is transferred to the Karafil Dam. On the 18 January 2024 a notification was submitted to the Department of Water and Environmental Regulation (DWER) notifying the Anpress was not operational due to mechanical issues. Worsley Alumina is investigating the way forward with this facility including an option to relocate the entire workshop elsewhere, and a licence amendment application will be submitted in due course. Karafil Dam is lined with HDPE plastic to contain recycled and bore water which is used for dust suppression on haul roads. Despite the Anpress facility not functioning during the reporting period, the potentially contaminated water still passes through the unit on the way to the disposal point at the Karafil dam. Water quality sampling continued in accordance with the BBM Licence, with monthly monitoring continuing at the Anpress unit, when access was not restricted, and at the Karafil dam. This monitoring indicated the quality was very similar between the two locations and was within the required guidelines. Monitoring data from the

Anpress unit is compared against the guidelines in the Water Quality Protection Note 68 (Mechanical Equipment Wash-down).

Table 4-27 Recycled Water Monitoring Results

ANALYTE	Copper		Chromium		Zinc		pH		TDS		Total Recoverable Hydrocarbons	
GUIDELINES	0.4 (mg/L)		1 (mg/L)		20 (mg/L)		5.5-8.5		5000 (mg/L)		15 (mg/L)	
MONTH	Tank	Dam	Tank	Dam	Tank	Dam	Tank	Dam	Tank	Dam	Tank	Dam
07/01/2025	0.056	<0.001	0.012	<0.001	0.897	0.006	7.37	7.32	486	2000	0.34	0.17
18/02/2025	-	<0.001	-	<0.001	-	0.011	-	7.15	-	1820	-	1.62
26/03/2025	-	0.002	-	<0.001	-	0.007	-	7.58	-	1740	-	0.73
29/04/2025	-	0.001	-	<0.001	-	0.007	-	7.36	-	1770	-	2.78
27/05/2025	0.008	<0.001	<0.001	<0.001	0.036	<0.005	7.90	7.88	534	1580	0.120	2.71
17/06/2025	0.037	<0.001	<0.001	<0.001	0.482	0.008	7.74	7.41	566	1290	0.25	1.68

4.7.3 Refinery Water Reporting

The information below summarises data collected during the reporting period. The Annual Hydrological Report provides a comprehensive review of the water management at the Refinery and is available in Appendix 7: Water Monitoring Results and Reports.

During the reporting period, no native vegetation clearing occurred in the CBME (see Table 4-5) and therefore no clearing occurred within 30 m of the August River bank in accordance with MS1237 condition B16-1(5) and EPBC 2019/8437 condition 30 or within 50 m of the FWL in accordance with the commitments in the WMP.

4.7.3.1 Refinery Water Monitoring

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime and these are outlined in Table 4-28 and Table 4-29. Where these Triggers (Minimum or Maximum Action Levels) have been reached they are highlighted in yellow in section 4.7.3.2 and section 4.7.3.3.

Table 4-28 Refinery Trigger and Threshold Levels (Regional Surface Water)

ANALYTE	UNIT	MINIMUM ACTION LEVEL	MAXIMUM ACTION LEVEL
Aluminium	mg/L		0.2
Chlorine	mg/L		400
Dissolved Oxygen	%	90	
Electrical Conductivity	uS/cm	120	300
Iron	mg/L		0.3
Manganese	mg/L		0.1
Nitrate as N	mg/L		0.7
Nitrate as NO3	mg/L		0.7
pH	pH unit	6.5	8
Sodium	mg/L		300
Sulfate	mg/L		400
Total Alkalinity as CaCO3	mg/L		500
Turbidity	NTU		20

Table 4-29 Refinery Trigger and Threshold Levels (Groundwater)

ANALYTE	UNIT	WARNING	TRIGGER	THRESHOLD
EC (PHDs, RCL and Refinery)	uS/cm	75 th percentile	75 th Percentile plus 10%	75 th percentile plus 20%
Water Level (Background)	mbgl	N/A	N/A	N/A
Water Level (PHDs)	mbgl	95 th percentile	Water level in monitoring bore becomes lower than PHD water level	Water level in monitoring bore is lower than PHD water level for >3 months
Water Level (RCL and SEPs)	mbgl	95 th percentile	<4 mbgl	<3mbgl

4.7.3.2 Surface Water Monitoring

Water monitoring activities continued during the reporting period. Results are provided below in accordance with the monitoring activities outlined in the Water Management Plan (WMP).

The monitoring data for the ARGs location is shown in Table 4-30 below, no results were recorded under the minimum or over the maximum action levels as outlined in Table 4-28.

Table 4-30 Surface Water Monitoring Results ARGs

DATE	TURBIDITY (NTU)	EC (µS/cm)	pH
Jul-24	5.4	276	6.57
Aug-24	6.0	216	6.84
Sep-24	4.3	179	6.79
Oct-24	4.3	225	6.76
Nov-24	2.7	241	7.17
Dec-24	4.2	239	6.93
Jan-25	11.0	237	7.04
Feb-25	15.0	274	7.22
Mar-25	10.3	280	7.01
Apr-25	9.3	265	7.00
May-25	3.5	251	6.97
Jun-25	7.8	258	7.01

Further information on the surface water monitoring program is available in Appendix 7: Water Monitoring Results and Reports.

4.7.3.3 Ground water monitoring

Worsley Alumina conducted water monitoring for July 2024 to June 2025. The program includes 92 active groundwater monitoring bores with 32 equipped with in-situ sensors. Three new bores were installed in FY25 to replace blocked ones and improve delineation of affected zones. Monitoring includes water level, electrical conductivity, pH, and various chemical analyses. The Refinery Annual Hydrological Report, provided in Appendix 7: Water Monitoring Results and Reports, provides a full review of the water monitoring program and interpretation thereof.

4.7.3.4 Refinery Fresh Water Use

The Freshwater Lake (FWL) was constructed in 1983 to provide water to the Worsley Alumina bauxite processing plant and has a maximum capacity of 6,080 ML (WRM, 2005). The FWL is the primary source of fresh water, with the Refinery Catchment Lake providing a recycling / holding facility for process water which is recycled into the Bayer process. Worsley's operational water needs are typically met by these facilities.

In years of low rainfall and when the catchment lakes cannot supply the necessary water required to meet the Refinery's needs, Worsley Alumina has an agreement with Harvey Water to purchase and import water from Wellington Dam. This water is imported directly into the Refinery Catchment Lake due to high salinity levels means it does not meet drinking water quality standards.

In 2021 Worsley completed construction of a permanent pump facility at Wellington Dam to minimise noise during import periods. Regrettably, in 2022 the facility was vandalised and remains inoperable until repairs are undertaken. Temporary pumps with noise attenuation will be used to minimise ambient noise for park users, and the permanent infrastructure is scheduled to be repaired in the next twelve months subject to receipt of necessary approvals. Pumping water from Wellington Dam is only undertaken when the Refinery is unable to meet its own water requirements onsite.

Monitoring associated with the use of water from both the FWL or any alternative sources is outlined in the Compliance Monitoring Report (Appendix 2: Compliance Monitoring Report).

Freshwater Lake (FWL) abstraction is recorded via an ultrasonic flow meter compliant with the Rights in Water and Irrigation (Approved Meters) Order 2009 installed at the FWL. Consumption is reported to the DWER in accordance with the Refinery Surface Water Licence (SWL68041 (5)). The water limits for the surface water licence are slightly different to what is required by MS1237, in that the SWL (Condition W4 (c) and (d)) allows a for the total volume of water taken over the term of the licence to not exceed 26,000,000kl (over 10 years) and for the total volume of water taken in any year to not exceed 5,400,000kl. Which means the total volume is the same over a 10 year period, but the SWL allows a higher consumption over a given year, as long as the total is not exceed in 10 years. The SWL also requires an annual report be provided to DWER which includes monthly meter readings, monthly usage and annual volume of water drawn, this report is included in Appendix 7: Water Monitoring Results and Reports.

Reporting for the water use at the FWL has been provided for the entire financial year, rather than the reporting period and has exceeded the capacity provided in MS1237 condition A1-1, further detail is provided in Section 5.2.1.

4.7.3.5 Bauxite Residue Disposal Areas Monitoring & Management

South32's overarching approach to tailings management is to achieve stable and dense tailings. This involves understanding tailings behaviour, reducing water content at Tailings Storage Facilities (TSF), and developing innovative construction techniques for these TSFs. In addition to GISTM, our approach is consistent with the ICMM Tailings Governance Framework, Position Statement on Preventing Catastrophic Failure of TSFs, and the Australian National Committee on Large Dams (ANCOLD) guidelines. These requirements are embedded in our internal dam management standard.

Worsley Alumina has four active Bauxite Residue Disposal Areas (BRDA's) (TSF's), all of which are classified as 'Very High' consequence under the GISTM.

The BRDAs are constructed in a similar manner, incorporating various elements including:

- Groundwater underdrainage systems comprising a compacted clay floor with low permeability, and a gravel layer equipped with drainage pipework spanning the entire floor area to capture seepage effectively.
- Structural integrity formed by a starter dam and compacted clay perimeter walls. As the BRDA continues to be raised upstream, compacted clay fill is employed in successive layers. However, some facilities are designed as Downstream construction to facilitate Probable Maximum Precipitation (PMP) events as per ANCOLD and other regulatory requirements.
- Surface water management with each BRDA equipped with an internal decant drainage system.
- Monitoring of the BRDAs incorporates a structured combination of visual inspections, monitoring of piezometers installed in embankments, scheduled InSAR and drone surveys, routine shear vane testing, and settlement monitoring.

In accordance with the ICMM Conformance Protocols, Worsley Alumina has self-assessed its alignment of BRDAs 2, 4, 4X and 5 as having met the 15 Principles and all underlying Requirements of the Global Industry Standard on Tailings Management as published by the International Council of Mining and Metals. Worsley Alumina engaged KPMG to provide limited assurance over this self-assessment. KPMG's assurance opinion concluded:

"We conducted our work in accordance with Australian Standard on Assurance Engagements ASAE 3000 Assurance Engagements other than Audits or Reviews of Historical Financial Information (Standard). In accordance with the Standards, we have:

- used our professional judgement to plan and perform the engagement to obtain limited assurance that we are not aware of any material misstatements in the Information Subject to Assurance, whether due to fraud or error,
- considered relevant South32 internal controls when designing our assurance procedures, however we do not express a conclusion on their effectiveness; and
- ensured that the engagement team possess the appropriate knowledge, skills and professional competencies."
- These principles align with the GISTM requirements to reduce both the probability and consequences of a TSF failure to as low as reasonably practical (ALARP)."

Groundwater monitoring is undertaken as outlined in section 4.7.3.3, with the Refinery Annual Hydrological Report, provided in Appendix 7: Water Monitoring Results and Reports, providing a full review of the water monitoring program including the monitoring associated with the BRDAs.

4.7.4 Port Water Monitoring

Monitoring at the Port was undertaken in accordance with the WMP. Surface water monitoring was tested in accordance with table C2 of the WMP, however monitoring result records are currently not maintained. This will be implemented during the next reporting period.

4.7.5 Carters Freshwater Mussel

4.7.5.1 Carters Freshwater Mussel Reporting

Monitoring for Carter's Freshwater Mussel was conducted both prior to and during the reporting period. Monitoring was undertaken in the Augustus River and surrounding water courses as well as within the Freshwater Lake (FWL). In addition, water and sediment quality was also measured for key analytes and the results are presented in the Carters Freshwater Mussel Annual Monitoring Program, 2024 (Stantec 2025, Appendix 5: Flora and Fauna Reports). No threshold criteria for water or sediment quality were exceeded during the reporting period. The threshold for individual mortality in the FWL was exceeded (56.25% against threshold of 50%). However, this result is unlikely to reflect the true condition of the population as many of those individuals recorded as dead are likely to have been long dead. Lower water levels experienced in the Freshwater Lake is likely to have resulted in stranding and subsequent death of individuals however, recruitment of juveniles was evident indicating that the population is not under threat.

Monitoring will continue in the next reporting period and will be used to establish a better understanding of the populations in both the FWL and the Augustus River and surrounds.

4.7.5.2 Carters Freshwater Mussel Monitoring

The WMP outlines trigger and threshold values to be monitored for much of the sampling regime and these are outlined in Table 4-31.

Table 4-31 Carters Freshwater Mussel Interim Trigger & Threshold Levels

ANALYTE	UNIT	INTERIM TRIGGER LEVEL	INTERIM THRESHOLD LEVEL
Water Quality			
TSS	mg/L	>8	>15
Salinity	mg/L	>1.6	>3.0
Dissolved Metals:			
Mercury (Hg)	mg/L	>0.00006	>0.0006
Aluminium (Al)	mg/L	>0.027	>0.055
Cadmium (Cd)	mg/L	>0.00006	>0.0002
Copper (Cu)	mg/L	>0.001	>0.0014
Lead (Pb)	mg/L	>0.001	>0.034
Zinc (Zn)	mg/L	>0.0024	>0.008
Sediment			
Mercury (Hg)	mg/kg	0.15	1.0
Note: Site Specific Guideline Values (SSGVs) will be developed once 24 samples have been taken for each analyte. Once developed, trigger and threshold values will be replaced with the SSGVs.			

Table 4-32 Carters Freshwater Mussel Monitoring Results

SITE	DATE	TSS	Salinity	Mercury	Aluminium	Cadmium	Copper	Lead	Zinc	Sediment - Mercury
FWL1	Mar-25	29		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.02
	Apr-25	133		< 0.0001	0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.03
	May-25	824		< 0.0001	0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.08
	Jun-25*	-								0.11
FWL2	Mar-25	32		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.02
	Apr-25	172		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.06
	May-25	110		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.06
	Jun-25*	-		-						
FWL3	Mar-25	311		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.06
	Apr-25	1510		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.10
	May-25	12		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.06
	Jun-25	34	0.12	< 0.00004	0.006	< 0.00005	< 0.0005	< 0.0001	< 0.001	
FWL4	Mar-25	<5		< 0.0001	0.02	< 0.0001	< 0.001	< 0.001	< 0.005	0.03
	Apr-25	63		< 0.0001	0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.08
	May-25	20		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.09
	Jun-25	17	0.12	< 0.00004	0.006	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.12
FWL5	Mar-25	5		< 0.0001	0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.02
	Apr-25	5		< 0.0001	0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.04
	May-25	12		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.08
	Jun-25*									
AR1	Mar-25*									< 0.01
	Apr-25*									< 0.01
	May-25*									< 0.01
	Jun-25	6	0.12	<0.00004	0.012	< 0.00005	< 0.0005	< 0.0001	0.001	
AR2	Mar-25	<5		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.02
	Apr-25	8		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.03
	May-25	16		< 0.0001	< 0.01	< 0.0001	< 0.001	< 0.001	< 0.005	0.03

Site	Date	TSS	Salinity	Mercury	Aluminium	Cadmium	Copper	Lead	Zinc	Sediment - Mercury
	Jun-25	<5	0.12	< 0.00004	0.008	< 0.00005	< 0.0005	< 0.0001	< 0.001	0.04
AR3	Mar-25*									0.02
	Apr-25*									
	May-25*									0.03
	Jun-25*									0.02
*	Access restricted due to unsafe conditions									
	Trigger level exceedance									
	Threshold level exceedance									

During the reporting period the FWL level was extremely low making it difficult to access some of the monitoring points to take sufficient water samples due to unsafe access conditions. The TSS exceedances have been reported to DWER as required. As noted in the WMP, SSGV will be established once 24 samples have been taken.

4.8 TERRESTRIAL ENVIRONMENTAL QUALITY

4.8.1 Construction Environmental Management Plan

MS1237 condition B17-3 requires Worsley Alumina to update and submit the Construction Environmental Management Plan (CEMP version 2.0) and to not commence ground disturbing activities within the proposal area (MS1237 condition C1-1) until the CEO of DWER has confirmed in writing that the management plan met the requirements of the relevant conditions or as otherwise agreed. Confirmation that CEMP version 2.0 met the requirements of the relevant conditions was received from DWER on 11 February 2025. A copy of this letter is available in Appendix 4: Environmental Management Plans – Appendix 4: Environmental Management Plans – . Worsley Alumina notes that the letter references an incorrect Ministerial Statement number, however the letter accepts the correct CEMP. The CEMP Version 2.0 was made publicly available on the South32 website ([Worsley Alumina - Documents](#)) in accordance with MS1237 condition C2-6.

No changes were made to the plan during the reporting period, including no minor revisions in accordance with MS1237 conditions C2-3 – C2-5.

Table 4-33 and Table 4-34 provide Worsley Alumina's performance against the CEMP's outcome-based provisions and objective based provisions, respectively.

4.8.2 Acid Sulfate Soils

MS1237 condition B17-2(1) requires no acid sulfate soil contamination occurs within the PAA or elsewhere attributable to the Revised Proposal. As outlined in the CEMP, there are potential acid sulfate soils (PASS) in the footprint of the river/stream crossings which are approved under the *Rights in Water and Irrigation Act 1916*. These crossings are included in the CEMP and management activities to prevent acid sulfate soil contamination will be implemented during their construction. Construction activities for the bridges have not commenced. An Acid Sulfate Soil Management Plan (ASSMP) is provided as an appendix to the CEMP and requires water monitoring to be undertaken to monitor the risk of contamination from ASS.

As construction has not commenced, water monitoring in accordance with the ASSMP has not commenced. Please see Figure 4-1 for a record of disturbance areas for the reporting period. Preliminary pre-construction water monitoring has been undertaken and is provided in Appendix 7: Water Monitoring Results and Reports. Further monitoring will be undertaken in the lead up to construction commencing.

4.8.3 Secondary Salinity

MS1237 condition B17-2(2) requires that no secondary salinity occurs within the PAA or elsewhere attributable to the proposal. As outlined in the CEMP, the WMP prepared in accordance with MS1237 condition B16-2 outlines the triggers and management measures that relate to secondary salinity. Please refer to section 4.7 of this CAR for outcomes from this program.

Table 4-33 Performance Against CEMP Outcome Based Provisions

Outcome		Performance Indicator / Standard	Trigger Criteria	Threshold Criteria	Monitoring / Evidence	Compliant	
1.	Ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal	Dewatering to support construction activities where PASS present	During dewatering activities Total titratable acidity <40mg/L, pH>6				
			N/A at this time		Dewatering has not yet commenced as construction has not commenced – no dewatering occurred during the reporting period		Y
			During dewatering activities, Total titratable acidity <40mg/L, pH in range 4 to 6				
			N/A at this time				Y
			During dewatering activities, Total titratable acidity 40mg/L to 100mg/L, pH >6				
			N/A at this time				Y
			During dewatering activities, Total titratable acidity 40mg/L to 100mg/L, pH in range 4 to 6				
			N/A at this time				Y
			Total titratable acidity >100mg/L or pH<4 or total alkalinity <30mg/L				
			N/A at this time				Y
2.	Ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 & B2;		Rehabilitation of areas cleared for infrastructure, roads or access is not scheduled for rehabilitation within 12 months of that infrastructure road or access no longer being required	Rehabilitation of areas cleared for infrastructure, roads or access has not commenced rehabilitation within 18 months of that infrastructure road or access no longer being required			
					No areas of infrastructure, roads, or access have been identified as not being required during the reporting period		Y

Table 4-34 Performance Against CEMP Objective Based Provisions

OBJECTIVE	PERFORMANCE INDICATOR / STANDARD	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
1. Ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal;	Minimise the risk of exposure of PASS	- Mining footprint to avoid low-lying topographical areas in the vicinity of rivers and creeks. - Stream buffers must be applied to all rivers in accordance with the FMP (CPCWA, 2023) and Water Quality Protection Note 6: Vegetation Buffers to Sensitive Water Resources (Department of Water, 2006). - Acid Sulphate / Potentially Acid Sulphate soil monitoring as part of risk management in disturbance areas - ASSMP in place to outline the identification, sampling and management of any PASS expected to be encountered for the construction of river crossings.	No interaction with PASS has occurred during the reporting period. Construction of the bridges in areas of PASS has not yet commenced. Monitoring & Management will be undertaken in accordance with the Acid Sulfate Soils Management Plan, which is an appendix to the CEMP and is provided publicly on South32's website (Worsley Alumina - Documents). Stream buffers have been included in accordance with the FVMP.	Y
	Minimise PASS disturbance	- All confirmed and suspected ASS materials (i.e. grey to dark grey soils containing organic matter below the water table) encountered during excavations will be transported by truck to the onsite ASS treatment facility or an offsite facility licensed to accept ASS. - Any ASS materials that cannot be transported within the short-term period detailed above must be stockpiled on a suitably prepared storage area and the following additional management measures shall be followed: - Stockpiles are to be contained by bunds with stormwater run-off directed to a collection sump. Bunds are to be constructed from low permeability materials that are not ASS; - A guard layer of fine ground agricultural lime of at least 10 kg/m2 will be spread across the soil surface prior to placement of the stockpile; - The surface area of the stockpile will be minimised by shaping and possibly capping or covering to prevent moisture loss and rainfall entry; and - Temporary or bundled, short term stockpiling will not be permitted within 100 m of a waterway.	No interaction with actual or suspected ASS has occurred during the reporting period. Construction of the bridges in areas of PASS has not yet commenced. Monitoring & Management will be undertaken in accordance with the Acid Sulfate Soils Management Plan, which is an appendix to the CEMP and is provided publicly on South32's website (Worsley Alumina - Documents).	Y
	Minimise impacts to surface water systems	Given the close proximity of the Hotham River monitoring of surface water quality shall be conducted during excavation in ASS areas.	No interaction with PASS has occurred during the reporting period. Construction of the bridges in areas of PASS has not yet commenced. Monitoring & Management will be undertaken in accordance with the Acid Sulfate Soils Management Plan, which is an appendix to the CEMP and is provided publicly on South32's website (Worsley Alumina - Documents).	Y
3. Ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 & B2	Minimise the risk of soil compaction	Following completion of mining operations, rehabilitation activities are planned and implemented and checked in accordance with site specific procedures and standards for each area	Rehabilitation is ongoing, see the Annual Rehabilitation Plan, provided as an appendix to this CAR.	Y
	Management of Erosion	Comply with the requirements of the Rehabilitation Performance Report (condition B14-2) Annual Rehabilitation Management Plan (Condition 14-3) for final landform structure	Rehabilitation Performance report is being drafted and is required to be submitted by 20 Dec 2025, within 12 months of the approval of MS1237. The Annual Rehabilitation Management Plan will cover reporting for mining operational rehabilitation activities.	Y
	Minimise the risk of soil contamination (other than PASS)	- Chemicals, hydrocarbons and other environmentally hazardous materials stored and handled in accordance with Dangerous Goods Safety Act 2004 and associated regulations. - Construction of fuel containment infrastructure in accordance with Australian Standards. - All spills will be managed in accordance with site procedures. - Collection and treatment of potentially contaminated stormwater run-off from workshops and hydrocarbon storage areas. - Contaminated soils at BBM to be placed in lined hydrocarbon storage area until removal from site by a licensed contractor.	No new fuel storage areas have been established during the reporting period.	Y
	Management of Sedimentation	- Apply stream buffers in accordance with the FMP (CPCWA, 2023) and Water Quality Protection Note 6: (Department of Water, 2006). - Manage stream buffers. - Installation of water management infrastructure (sumps, drainage lines etc.) for all operational areas including haul roads in accordance with site procedures and standards. - Obtain Bed and Banks permits under the RIWI Act for any disturbance required to stream beds and banks. - Reshape disturbed areas to match surrounding contours during progressive rehabilitation to minimise impacts on surface water drainage patterns.	Stream buffers are assigned and managed as protected areas, in accordance with the FVMP. Sumps are installed for haul roads in accordance with site design parameters. Beds and banks permits were obtained to support activities (Permit: PMB211532(1) dated 4 March 2025-31 March 2027 (Culverts to be constructed at Thirty-Four Mile Brook & Wattle Hollow Brook) and Permit: PMB211533(1) dated 4 March 2025 – 31 March 2027(Construct a Bridge over Hotham River)). The annual rehabilitation management plan will cover reporting for mining operational rehabilitation activities.	Y

4.9 SOCIAL SURROUNDS (ABORIGINAL HERITAGE) - PAA

4.9.1 Heritage Surveys

MS1237 condition B18-3 requires Worsley Alumina to identify Aboriginal heritage in consultation with the Gnaala Karla Booja Aboriginal Corporation (GKBAC) for all areas proposed to be cleared or impacted prior to any ground disturbing activities of the area.

On 21 August 2024 Worsley Alumina entered into a Noongar Standard Heritage Agreement (NSHA) with the GKBAC.

Although the GKBAC was established on 1 October 2021, the GKBAC was not resourced to manage Aboriginal heritage surveys at the time which resulted in Worsley Alumina establishing an alternative process. This included engaging Traditional Owners through an independent anthropologist and Aboriginal Elder of the region to advise on the appropriate personnel to be engaged for surveys. Prior to the execution of the NSHA, Worsley Alumina undertook heritage surveys with the participation of representatives from the Gnaala Karla Booja South-West Settlement Area, with participants being selected by the GKBAC Cultural Advice Committee.

All of Worsley Alumina's ground disturbance for the reporting period occurred after Aboriginal heritage surveys were conducted. The survey areas have been previously reported in the Worsley Mine Expansion Referral Supporting Document (Table 23, Figure 12) and Table 4-33 in the Revised Proposal Response to Submissions document March 2024 (Version 3).

4.9.2 Aboriginal Heritage Sites

MS1237 conditions B18-1(1) and B18-2(1) require Worsley Alumina to avoid where possible and otherwise minimise adverse impacts to Aboriginal heritage within and around the PAA and to ensure no disturbance to Aboriginal heritage sites within the PAA without approval under the *Aboriginal Heritage Act 1972* and has involved reasonable steps to consult with the GKBAC. MS1237 condition B18-1(2) requires Worsley Alumina to, subject to reasonable health and safety requirements, ensure the implementation of the proposal achieves no interruption of ongoing land access used for traditional use or custom by the GKBAC.

A comparison of Worsley Alumina's clearing and rehabilitation datasets with the Aboriginal heritage sites within the PAA via the aboriginal Cultural Heritage Inquiry System of the Department of Planning, Lands and Heritage (DPLH) indicates that the Aboriginal heritage site, Mt Saddleback (Mokine) Site ID 17214, was the only heritage site on DPLH's Register of Sites that was disturbed by the implementation of the proposal (Appendix 9: Heritage Documents). This disturbance was authorised under Ministerial Consents 34-65280 and 34-67837 (Appendix 9: Heritage Documents).

In addition, geotechnical investigations did occur during the reporting period in the location of Dilyan's Crossing which is authorised under Ministerial Consent MIN-2023-1062 (Appendix 9: Heritage Documents).

During the reporting period, Worsley Alumina did not receive any requests from the GKBAC for access to land utilised for traditional use or custom in accordance with MS1237 condition B18-1(2).

4.9.3 Consultation - Gnaala Karla Booja Aboriginal Corporation

MS1237 conditions B18-2(2) and B18-4 require Worsley Alumina's ongoing consultation and engagement with GKBAC. As per the obligations under the NSHA, Worsley Alumina has submitted Activity Notices for further Aboriginal heritage surveys to be conducted within the PAA and these surveys are currently being arranged by GKB Impact (the business development arm of the GKBAC) who have confirmed they will be the Aboriginal Heritage Service Provider.

Since 8 May 2024, Worsley Alumina has met regularly with GKBAC representatives. Standing agenda items include status updates on heritage surveys convened by Worsley Alumina and those convened by GKBAC, and subsequently, GKB Impact as the Aboriginal Heritage Service Provider under the NSHA. At the end of each meeting, Worsley Alumina provides the minutes to GKBAC/GKB Impact for their review and records.

Appropriate engagement with the GKBAC regarding the BBM Closure Plan is required to occur at least three months prior to submission to the CEO (of DWER) (MS1238 condition B18-4). This condition was not required during the reporting period and will be arranged accordingly when required. Worsley Alumina has submitted a letter to the CEO (of DWER) requesting the submission date for the Closure Plans be amended to October 2026 to align with the applicable submission date for Worsley Alumina's Mining Act tenements.

4.10 REHABILITATION

4.10.1 Rehabilitation, Protected Areas and Ecological Linkages

The monitoring protocols for addressing condition B2-1 are outlined in Appendix 2: Compliance Monitoring Report in accordance with MS1237 condition C3.

Condition B2-1(1) requires Worsley Alumina to ensure that the hectares of rehabilitation of areas mined is equal to or greater than the hectares of clearing of native vegetation for mining in any three financial year period commencing after the date of MS1237. Reporting for this condition will commence in FY28 and will include three full financial year periods since the date of MS1237.

Reporting for condition B2-1 (2) will commence in the FY26 reporting period as information outlined in the 10 Year Mine Plan is required, and as MS1237 was published (20 December 2024) after the date of publication of the 10 Year Mine Plan (31 October 2024) the plan did not contemplate the requirements of the conditions outlined in MS1237.

Condition B2-1(3) requires Worsley to ensure the rehabilitation deficit for mining areas within the PAA is a maximum of 35% from 1 July 2033 unless Worsley Alumina receives approval from the DWER CEO to increase the rehabilitation deficit for a temporary period for no more than two (2) years. Reporting against this requirement is not required until 2033.

Conditions B2-1(4) – (6) are included in the reporting for the FVMP with outcomes for the reporting year outlined in Figure 4-3 (clearing in proximity to protected areas – condition B2-1(4) and B2-1(6) and ecological linkages – condition B2-1(5)). No clearing occurred in protected areas during the reporting period, and no clearing commenced within the ecological linkages. Condition B2-1(4) and (5) also require monitoring for adverse impacts in the protected areas and ecological linkages, please see Table 4-2 and Table 4-3 for management and reporting in relation to potential adverse impacts associated with flora and vegetation and Table 4-13 and Table 4-14 for management and reporting in relation to potential adverse impacts associated with water management.

During the reporting period, no clearing was undertaken in the Quindanning Timber Reserve and therefore clearing has not commenced in the early rehabilitation areas, as referenced in condition B2-1(6) (see Figure 4-1). A small encroachment of the Protected Areas boundary within the "Additional Protected Areas" of Quindanning Timber Reserve outlined in MS1237 Figure 6, had occurred within the limits of MS719, prior to the issue of MS1237 and will be rehabilitated in accordance with condition B2-1(6).

4.10.2 Rehabilitation Performance Report

MS1237 condition B14-2 requires the submission of a Rehabilitation Performance Report within 12 months of the date of MS1237. The Rehabilitation Performance Report addresses results and analysis of long-term rehabilitation performance since mining commencement. The Rehabilitation Performance Report is being prepared and will be submitted accordingly (prior to 20 December 2025) and will be reported on in the CAR in FY26.

4.10.3 Annual Rehabilitation Plan

MS1237 condition B14-3 requires submission of an Annual Rehabilitation Plan (ARP) by 30 September each year with the first ARP to be submitted by 30 September 2025. During the reporting period, 303.3 ha of new rehabilitation was undertaken in a manner consistent with the intent of achieving the environmental outcomes of MS1237 condition B14-1. The ARP details the rehabilitation activities during the reporting period and reports on achievement of the environmental outcomes specified in MS1237 condition B14-1 (MS1237 condition C4-1 and C5-2). As reported in the ARP, Worsley Alumina met conditions of B14-1 where agreed metrics were available.

As the ARP is submitted at the same time as the CAR but is required to be approved by the CEO of DWER, the ARP is not included as an appendix to the CAR. Once approved by the CEO (of DWER), the ARP will be made publicly available in accordance with MS1237 condition D5-1.

4.11 ENVIRONMENTAL OFFSETS

4.11.1 Local Offset EMP

MS1237 condition B15-4 requires Worsley Alumina to prepare and submit a Local Offset Environmental Management Plan (LOEMP version 2.0) to the CEO of DWER, and to not commence ground disturbing activities within the proposal area until the CEO of DWER has confirmed in writing that the management plan meets the requirements of the relevant conditions or as otherwise agreed (MS1236 condition C1-1). Confirmation that the LOEMP met the requirements of the relevant conditions was received from DWER on 11 Feb 2025. A copy of this letter is available in Appendix 4: Environmental Management Plans – .Appendix 4: Environmental Management Plans – Worsley Alumina notes that the letter references an incorrect Ministerial Statement number, however the letter accepts the correct LOEMP. In accordance with MS1237 condition C2-6 and EPBC 2019/8437 condition 62, Version 2.0 of the LOEMP was made publicly available on the South32 website ([Worsley Alumina - Documents](#)). All prior versions of this plan are also maintained online at the same location as required by condition 63 of EPBC 2019/8437. No sensitive biodiversity data was required to be redacted in accordance with condition 64 of EPBC 2019/8437 for any publicly available version of the LOEMP.

Worsley Alumina has commenced implementation of the LOEMP in accordance with MS237 condition C2-1 and EPBC 2019/8437 condition 31. As required by EPBC 2019/8437 condition 32, notification of commencement of implementation of the LOEMP was submitted to DCCEEW on 12 February 2025 within 5 days of commencing implementation.

No revisions to the LOEMP have been made under MS2137 condition C2-3 or EPBC 2019/8437 condition 38 during the reporting period.

- As per MS1237 condition B15-6(3), the LOEMP was prepared in consultation with DBCA. Consultation is documented in the LOEMP Table 23.
- As per MS1237 condition B15-6(6), the LOEMP was prepared to align with the principles of the WA Environmental Offsets Policy which is documented in the LOEMP Table 3.
- As per MS1237 condition B15-2(1) and EPBC 2019/8437 condition 33, 4,384 ha of remnant vegetation for protection and enhancement has been purchased (LOEMP, Table 10).
- As per MS1237 condition B15-2(2) and EPBC 2019/8437 condition 33, 4,962 ha of agricultural land has been purchased and must be ecologically restored and protected. The relevant properties are identified in LOEMP, Table 10.
- MS237 condition B15-2(4) and EPBC 2019/8437 condition 41 require artificial breeding hollows to be installed in the event that known black cockatoo breeding trees (Rank 1 or 2 breeding trees) are

removed. Whilst no Rank 1 or 2 trees were removed during the reporting period, 30 artificial hollows were proactively installed in existing trees on the Gibbs Offset Property (Offset 2) in advance of potential future requirements. The host trees were identified as suitable for housing the artificial breeding hollows through the following investigation, "Black-Cockatoo Artificial Hollow Installation and Monitoring Gibbs Offset Property Part A: Site Assessment (September 2024). Ecology Matters Australia". These trees will be maintained and monitored to assess use on an annual basis.

- As per MS1237 condition B15-5, (Table 1) all properties documented have been purchased and spatially identified. On ground management of Lots 1771, 2026, 2027, 6971, 2028, 159 and 160 has commenced which includes:
 - o Baseline flora and fauna studies;
 - o Development of restoration plans;
 - o Feral animal management commenced in November 2023 with the trapping of pigs and cats and the 1080 baiting of foxes. 1080 baiting of rabbits commenced in August 2024;
 - o Weed control commenced on the property in 2023 for pasture weeds and spiny rush;
 - o Installation of marsupial dens for chuditch, tree hollows for red-tail phascogales and habitat piles across open areas of pasture;
 - o Seedling planting along the existing creek line;
 - o Removal of acacia dominated restoration effort from historical mining activities;
 - o Site assessment of the lots to accommodate artificial hollows for black cockatoos with the subsequent installation of 30 artificial hollows;
 - o Property cleanup with the removal of farm rubbish (ongoing) and dilapidated asbestos shed;
 - o Completion of license application for operation of Felixer Grooming traps with DBCA.

On ground management of Lots 102 and 100 has commenced. This work includes, baseline flora and fauna studies.

Table 4-35 and Table 4-36 provide Worsley Alumina's performance against the LOEMP's outcome-based provisions and objective based provisions, respectively. No triggers or thresholds were reached during the reporting period as outlined in Table 4-35 and management based objective provisions were implemented in accordance with the LOEMP (Table 4-36)

Table 4-35 Performance Against LOEMP Outcome Based Provisions

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
1. Protection and enhancement of no less than 4,384 ha of remnant vegetation in perpetuity.	Area under Conservation Covenant (ha)	<3,288 ha (equal to 75%) of required protection offsets under Conservation Covenant within 12 months of receipt of Ministerial Statement.	<4,384 ha (equal to 100%) of required protection offsets under Conservation Covenant within the first mining tranche (5 years from date of issue of MS1237).*		
		Not yet applicable	Not yet applicable	Conservation covenants have not yet been placed on any protection offset properties. This action is not required to be completed until 20 th December 2025	Y
	Number of feral pigs trapped per annum	No decline from baseline number of pigs captured during targeted trapping programs at any given offset property during a subsequent trapping program (annualised).	<50% decline from baseline number of pigs captured during targeted trapping programs at any given offset property at 20 years post commencement of trapping program (annualised).* <i>Note: At least 6 pigs must have been captured at a given property during the initial year of trapping for this Threshold Criteria to be applied.</i>	Pig baiting and trapping program	
		No trigger exceedances recorded	Not yet applicable	The initial trapping program for feral pigs on the Gibbs Property commenced in November 2023 with the capture of 25 pigs in a two-week period. This represents the baseline for future trapping efforts on the Gibbs Property with trapping occurring on a monthly basis. During the reporting period 31 pigs were trapped on Offset 2 (Gibbs Property) (Table 4-37 & Figure 4-5)	Y
	Number of 1080 baits taken	No decline from baseline in uptake of fox baits at any given offset property during a subsequent trapping program (annualised).	<50% decline from baseline in uptake of fox baits during targeted baiting programs at any given offset property at year 20 (annualised). <i>Note: At least 6 baits must have been taken at a given property during the initial baiting program for this Threshold Criteria to be applied</i>	Fox baiting program	
		No yet applicable	Not yet applicable	The feral animal control program commenced for foxes on the Gibbs Property commenced in December 2023 with the use of Canid Pest Ejector (CPE) baiting. Baits are placed for a two week period every month. During the baseline baiting period (Dec 23 – Nov 24) 32 baits taken up. During the reporting period seven baits were taken on the Gibbs Property (see Table 4-37 and Figure 4-5).	Y
2. Ecological restoration and protection in perpetuity of no less than 4,962 ha of agricultural land to obtain a net-gain in numbat, black cockatoo, chuditch, western ringtail possum, quokka and red-tailed phascogale habitat.	Verified spatial data for restoration	Planned area of Ecological Restoration within mining tranche 1 is <700 ha (for the first mining tranche) OR Planned Ecological Restoration is less than the total area planned for clearing within any subsequent mining tranche.	Ecological Restoration for the first 5-year period <700 ha OR 5 yearly Ecological Restoration is less than the total area cleared within any subsequent 5-year mining tranche. OR <4,962 ha of Ecological Restoration conducted at completion of Revised Proposal.	10 Year Mine Plan Survey of clearing boundaries Survey of restoration boundaries	
		No Trigger exceedances recorded	Not yet applicable	An overarching restoration plan has been developed to achieve 700 ha of ecological restoration within the first mining tranche.	Y
	Completion Criteria (Table 14 of LEOMP)	Failure to achieve the applicable completion criteria defined for Ecological Restoration (LOEMP Table 14) during a given monitoring period (up to 20 years of age).	Failure to achieve the applicable completion criteria defined for ecological restoration (see LOEMP Table 14) at >20 years of age		
		Not yet applicable	Not yet applicable	Monitoring to support performance against draft completion criteria as detailed in Table 14 of the LEOMP has not yet commenced as no areas of ecological restoration have been seeded to date. In accordance with the LEOMP monitoring will be completed for ecological restoration at 18 months, 5, 10 and every subsequent 10 years post establishment.	Y
	Performance Targets (Table 15 of LEOMP)	Trigger levels are reached for one or more of the Offset Performance Targets, as defined in LOEMP Table 15)	Failure to achieve one or more of the defined Offset Performance Targets (see LOEMP Table 15) at >20 years of age.		
		Not yet applicable	Not yet applicable	Monitoring to support performance against Offset Performance Targets as detailed in Table 15 of the LEOMP has not yet commenced as no areas of ecological restoration have been seeded to date. Monitoring will commence when ecological restoration reaches the required age post establishment (>5 years).	Y
3. Installation of three artificial breeding hollows for every tree cleared that is being used, or that has evidence of use, by black cockatoos for breeding, where that clearing is authorised	Number of artificial hollows installed	10 Year Mine Plan identifies the requirement to clear a tree that is being used, or that has evidence of use, by Black Cockatoo species for breeding.	Number of artificial hollows installed is not ≥ 3 times the number of Black Cockatoo breeding trees cleared at the end of a given financial year (i.e. trees that are being used, or that have evidence of use, by Black Cockatoo species).		
		No Trigger exceedances recorded	No Threshold exceedances recorded	No Rank 1 or 2 Black cockatoo trees were cleared during the reporting period. 30 artificial hollows for black cockatoo species were installed on the Gibbs Property (see Figure 4-6).	Y

OUTCOME	PERFORMANCE INDICATOR / STANDARD	TRIGGER CRITERIA	THRESHOLD CRITERIA	MONITORING / EVIDENCE	Compliant
by the CEO under condition B13-1(1)(e)					

Table 4-36 Performance Against LOEMP Objective Based Provisions

OBJECTIVE	MANAGEMENT ACTION	OBSERVATIONS / FINDINGS / COMMENT	Compliant
Minimise risk of uncontrolled fire events within offset properties	- Inspect and maintain firebreaks on an annual basis. - If required, implement cool mosaic burns within offset properties to maintain habitat for Threatened fauna and prevent uncontrolled fire events. - Install appropriate fencing and signage to prevent unauthorised access which could result in lighting of fires (e.g. camping). - Comply with fire and movement bans applied by the relevant Shire. - Emergency response personnel and equipment maintained onsite to support response to uncontrolled fires.	- Annual firebreak inspections will take place in September to October each year. - Annual boundary fence inspections will take place in September to October each year. - Appropriate boundary fencing and lockable gates exist on the Gibbs Property. - All Total Fire Bans and Harvest and Vehicle Movement Bans were observed during the reporting period. - BBM currently has 11 Emergency Services staff and equipment to assist with uncontrolled bushfires. - The Refinery currently has 12 Emergency Services staff and equipment to assist with uncontrolled bushfires.	Y
Minimise risk of spread of <i>Phytophthora</i> dieback within offset properties	- Complete baseline dieback interpretation of offset properties. - Boundaries will be mapped and signposted on access tracks in the field. - Forest hygiene training will be mandated for all employees and contractors accessing the Protection Offset properties. - Forest hygiene management plans will be developed for work within dieback infested areas. - Infested boundaries will be reassessed every 5 years with signage, mapping and hygiene management plans updated as required. - Access to Offset properties will be restricted through the installation and maintenance of boundary fencing and signage. - Further access restrictions may also be applied for high-risk areas such as dry soil conditions only.	- Dieback interpretation (Baseline and 5 yearly boundary verification) has not been undertaken for all properties however this will be completed on a rolling basis - Appropriate boundary fencing and lockable gates exist on the Gibbs Property. - Signs have been purchased to advise the property is being managed for conservation purposes, these signs will be installed - All drivers on the mine site are required to undertaken forest hygiene training - Contractors accessing native vegetation are required to have undertaken Green Card training	Y
Minimise unauthorised access to Offset Properties	- Install appropriate fencing and signage on offset boundaries. - Conduct annual inspection of fencing to identify maintenance requirements or additional security requirements. - Report unauthorised access to relevant authority.	- Boundary fencing has been improved at Offset 2 with the maintenance of boundary fences and progressive installation of kangaroo fencing. Signage to be installed advising the property is being managed for conservation purposes - Annual boundary fence inspections will take place in September to October each year to identify maintenance requirements which are to be subsequently undertaken.	Y
Maximise potential for utilisation of Black Cockatoo Artificial Breeding Hollows	- Ensure selected installation sites meet detailed site selection criteria. - Ensure appropriate installation methodology and security of ABH. - Conduct annual monitoring and maintenance program in accordance with LOEMP section 4.11.5. - Trial new or innovative hollow designs where practicable	- A site assessment was conducted to determine appropriate locations for placement of black cockatoo artificial hollows (Ecology Matters, 2024) - Hollows were installed under the guidance of a qualified ecologist and in accordance with DBCA Fauna Note "Artificial Hollows for Black Cockatoos" (fauna_note_artificial_hollows_for_all_black_cockatoos (6).pdf) - See Figure 4-7 for locations of Artificial Hollow installations - The first round of monitoring for the 30 installed artificial hollows is planned for September 2025. - No additional trials were undertaken during the reporting period.	Y

Table 4-37 Feral Animal Management

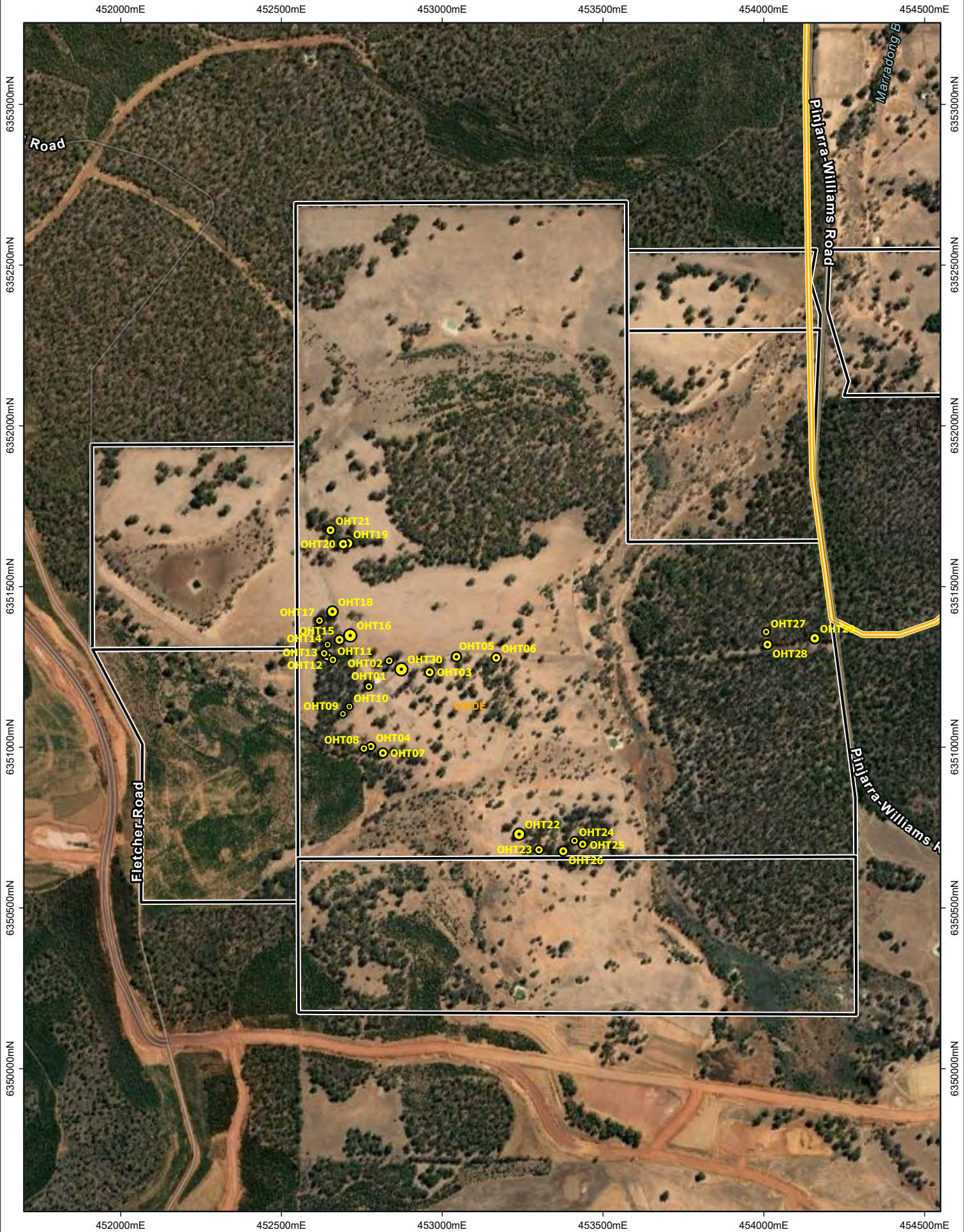
PERIOD	PIGS TRAPPED	FOX BAITS TAKEN	CATS TRAPPED	COMMENTS
1/11/2023	25	-		Pig trapping commenced
1/12/2023	0	10		Fox baiting commenced
1/01/2024	0	7		
1/02/2024	6	4		
1/03/2024	7	3		
1/04/2024	3	3	1	
1/05/2024	0	0		
1/06/2024	0	0		
1/07/2024	2	3		
1/08/2024	0	0	1	
1/09/2024	2	0		
1/10/2024	0	1		
1/11/2024	0	1		
1/12/2024	11	3		Reporting Period
1/01/2025	0	1	1	Reporting Period
1/02/2025	10	0		Reporting Period
1/03/2025	5	1	1	Reporting Period
1/04/2025	0	0		Reporting Period
1/05/2025	1	1		Reporting Period
1/06/2025	4	1		Reporting Period

Note: Cells shaded yellow represent data that contributes to a baseline period for the listed monitoring programs.



Figure 4-5 Images of feral animal management activities on Gibbs Property.

A) Feral fox taking CPE bait. B) Feral pigs being removed. C) Feral cat caught in cage trap



LEGEND

Artificial Hollows - Symbolised by DBH (mm)

- Artificial Hollow Installed
- Local Offset 2 - Gibbs Property

WMDE (Worsley Mining Development Envelope)

PAA (Primary Assessment Area)

Projected: GDA2020 MGA Zone 50
Datum: GDA2020

0 0.5 Kilometres

N

SOUTH32 Worsley Alumina Pty Ltd

Artificial Black Cockatoo Hollows Installed on Gibbs Property

MS1237 Compliance Assessment Report FY25
EPBC 2019/8437 Annual Compliance Report FY25
Date: 23 September 2025 Author: dl1mm1

FIGURE 4-6



Figure 4-7 First black cockatoo artificial hollow installed on Gibbs Offset Property.

4.11.2 Regional Offset EMP

MS1237 condition B15-7 and EPBC 2019/8437 condition 48 require Worsley Alumina to submit a Regional Offset Environmental Management Plan within 5 years of the date of MS1237. This plan is not required to be submitted until 20 December 2029.

4.11.3 Woylie Offset EMP

MS1237 condition B15-9 and EPBC 2019/8437 condition 44 require Worsley Alumina to submit a Woylie Offset Environmental Management Plan within 2 years of the date of MS1237 (or within two years of the date of commencement of the action in respect of EPBC2019/8437 condition 44). This plan is not required to be submitted until 20 December 2026.

4.11.4 Research Offset EMP

The Research Offset Environmental Management Plan required by MS1237 condition B15-11 and EPBC2019/8437 condition 54 must be submitted within 2 years of the date of MS1237 (or within two years of the date of commencement of the action in respect of EPBC2019/8437 condition 54). This plan is not required to be submitted until 20 December 2026.

4.12 CLOSURE AND DECOMMISSIONING

MS1237 condition B3-1 requires the submission of a Mine Closure Plan(s) in accordance with the DEMIRS Statutory Guidelines for Mine Closure Plans March 2020 (or any subsequent revisions of the guidelines). MS1237 condition C1-2 requires the plan be submitted for approval within 12 months of the date of MS1237 or as otherwise agreed by the CEO. Worsley Alumina has submitted a letter to the CEO requesting the submission date for the Closure Plans be amended to October 2026 to align with the applicable submission date for Worsley Alumina's Mining Act tenements.

EPBC 2019/8437 condition 93 requires Worsley Alumina notify DCCEEW electronically of the date of completion of the Revised Proposal and provide completion data, within 20 business days after completion, and in any event, at least 20 business days before this approval expires.

4.13 COMPLIANCE MONITORING REPORT

A compliance monitoring report has been prepared in accordance with condition MS237 condition C3-2 and is provided in Appendix 2: Compliance Monitoring Report.

4.14 REPORTING, AUDITS AND OTHER CONDITIONS

4.14.1 Contact Details

MS1237 condition D3-1 requires Worsley Alumina to notify the CEO of any changes of its name, physical address or postal address within 28 days of such change. Worsley Alumina has had no change of contact details during the reporting period.

4.14.2 Compliance Assessment Plan

MS1237 condition D2-5 requires Worsley Alumina to submit a Compliance Assessment Plan (CAP) which was submitted to the CEO on 11 February 2025 prior to implementation of the Revised Proposal on 12 February 2025. Confirmation that the CAP met the requirements of condition D2-5 and D2-6 was provided by DWER on 19 June 2025. This is provided in Appendix 8: Compliance Assessment Plan: Confirmation of Suitability.

4.14.3 Compliance Assessment Report

This Compliance Assessment Report has been prepared to address the requirements of MS1237 condition D2 and EPBC 2019/8437 condition 75. As part of the submission of the CAP required by MS1237 condition D2-5, Worsley Alumina confirmed the first CAR would be provided by 30 September 2025 to align within other company reporting obligations and comply with MS1237 condition D2-2 (within 15 months of 20 December 2024). Each subsequent CAR will be provided by 30 September each year.

As per EPBC 2019/8437, the Annual Compliance Report period is defined as each subsequent 12-month period following the date of the approval decision (11 February) until the expiry of the approval, unless otherwise specified in writing. Worsley Alumina has requested the Commonwealth consider a variation to certain conditions of EPBC 2019/8437 to align the Annual Compliance Report period (ACR) to the same date as the State's annual compliance assessment reporting requirements, to permit submission of a single report for both Regulators (30 September annually for an end reporting period of the previous financial year). As this request is still being considered, in this instance Worsley Alumina has included the reporting requirements of the Commonwealths' approvals within this CAR and it will be published on the South32 website in accordance with MS1237 requirements.

Endorsement of this CAR is provided on page 4 of this document.

4.14.4 Public Availability

MS1237 conditions D5-1 and D5-2 outline the requirements for ensuring all relevant information is provided publicly in a manner approved by the CEO (of DWER) and in a reasonable period of time. In accordance with MS1237 condition D5-1 and the CAP, all validated data that supports the assessment of compliance of the Worsley Project with MS1237 will be made available publicly. This information/data is listed in Section 9 of the CAR and will be made publicly available with the CAR on the South32 website in accordance with either the commitments in the CAP (within 60 days of being provided to the CEO (of DWER)) or following acceptance of further information as required by each individual plan.

Documents can be accessed on the South32 website via the following link: [Worsley Alumina - Documents](#). As required by EPBC 2019/8437 condition 80, Worsley Alumina will notify DCCEE within five business days that the CAR has been published on the South32 website.

EPBC 2019/8437 conditions 64 and 79 require sensitive biodiversity data to be excluded or redacted from the CAR, associated appendices and spatial data. Worsley Alumina will communicate any redacted information and will submit the full CAR and spatial data to DCCEE within five business days of publication of the CAR on the South32 website as required.

As required by EPBC 2019/8437 condition 81, Worsley Alumina will keep current and superseded CARs published on the website until expiry date of the approval.

4.14.5 Independent Audit

Worsley Alumina notes that MS1237 incorrectly lists the conditions related to Independent Auditing as conditions D5-1 to D5-4, while the previous section of the statement (Public Availability of Data) is also listed as condition D5-1 and D5-2. Outcomes in relation to the second set of D5 conditions for Independent Audit (D5-1 – D5-4) is reported within this section.

No request from the CEO of DWER was made during the reporting period, as outlined by MS1237 condition D5-1 (Independent Audit), and consequently no independent audit of compliance has been conducted.

Under EPBC 2019/8437 conditions 84-92, the audit period is defined as every five-year period following commencement of the action. Given this, EPBC 2019/8437 conditions 84-92 are not yet applicable.

4.14.6 Compliance Records

In accordance with the requirements of the CAP, CARs and associated compliance assessments and evidence used to verify compliance will be maintained for the life of the proposal and then for a minimum of seven years after the end of the life of the proposal. This information will be retained electronically within the South32 (Parent Company) records management system and, where applicable, records will also remain available on the Parent Company Website. As per EPBC 2019/8437 condition 70, Worsley Alumina has documented a procedure for storage location and retention of compliance records.

Monitoring data, surveys, maps and other spatial and metadata required under conditions of EPBC 2019/8437 have been prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act Projects* and the *Guidelines for biological survey and mapped data* as required by EPBC 2019/8437 conditions 72 and 73. In accordance with EPBC 2019/8437 condition 74, Worsley Alumina will provide all monitoring data, surveys, maps, other spatial and metadata and all species occurrence record data electronically to DCCEEW as part of the CAR.

5 DETAILS OF NON-COMPLIANCE OR POTENTIAL NON-COMPLIANCE

The following information provides details of non-compliance or potential non-compliance activities for the Worsley Alumina Project as required by MS1237 conditions C4-4, C5-2 and D1-2 and EPBC 2019/8437 conditions 82 and 83.

Worsley did not notify DWER in accordance with condition D1-1 (1) & (7) for two of the non-compliances and one potential non-compliance with respect to MS1237 outlined below.

Notification was not provided to DCCEEW in accordance with conditions 82 and 83 for the three non-compliances with respect to EPBC 2019/8437.

Worsley has since provided information for all non-compliances to the relevant regulator.

During the reporting period, Worsley Alumina was undergoing a transitional phase, and the specific reporting requirements under MS1237 and EPBC 2019/8437 for these non-compliance occurrences in accordance with the reporting conditions was not identified until drafting of the Compliance Assessment Report (CAR). As a result, these non-compliances were not reported within the stipulated timeframe.

Worsley Alumina has since taken steps to ensure that any future non-compliances are reported promptly as required by MS1237 and EPBC 2019/8437.

5.1 NON-COMPLIANCES

Each non-compliance or potential non-compliance is outlined below.

5.1.1 Flora and Vegetation

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
MS1237 condition B12-1(4) EPBC 2019/8437 Condition 26	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Non-compliant	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
27 March 2025	
Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER?	
Yes ☐ o Reported to DWER verbally Date _____ o Reported to DWER in writing Date _____	No ☒
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
A breach in topsoil handling procedures resulted in the movement of dieback infested topsoil into a previously uninfested topsoil stockpile. This has resulted in an additional 0.47 ha of land being classified as dieback infested. This incident was reported to DBCA on 16 April 2025.	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
MGA GDA2020 Z50 446020 6353630	
What was the cause(s) of the non-compliance or potential non-compliance?	
The maps provided to the work team were overly detailed and visually cluttered making it difficult to identify small risk areas. The team primarily referenced the Clearing Plan maps, which, due to their complexity, obscured critical details. This contributed to the oversight of a small dieback infested stockpile during operational activities.	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	
Reclassification of the stockpile to dieback infested. Stockpile will only be used in an area previously mapped as dieback infested to minimize further infection.	
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?	
The area was marked on the maps and soil hygiene training is provided for all people who hold a minesite drivers permit, so all operating teams, supervisors etc are aware of the requirements for managing soil hygiene risk. To prevent recurrence, options to improve communication are being investigated; including options for additional signage of dieback infested stockpiles, review of shift handover meetings / pre-start meetings to include review of Soil Hygiene Management Plans (in addition to the Clearing Plan maps) prior to commencement of topsoil movement. Investigations to support the use of this infested topsoil for rehabilitation of known infested areas are currently underway to prevent further spread of dieback.	
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure: • in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.	

5.1.2 Inland Waters

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
Water Management Plan - Carters Freshwater Mussel Outcome Based Provisions – Outcome 1 EPBC 2019/8437 condition 29	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Non-compliant	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
Unknown	
Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER & DCCEEW?	
Yes ☐ ☐ Reported to DWER verbally Date _____ ☐ Reported to DWER in writing Date _____ ☐ Reported to DCCEEW Date _____	No ☒
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
The threshold for individual mortality in the Freshwater Lake was exceeded (56.25% against threshold of 50%).	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
N/A	
What was the cause(s) of the non-compliance or potential non-compliance?	
Drying of the freshwater lake is likely to have resulted in stranding and subsequent death of individuals. The result is unlikely to reflect the true condition of the population as many of those individuals recorded as dead are likely to have been long dead. Recruitment of juveniles was evident indicating that the population is not under threat.	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	
As monitoring indicated some mussels are likely to have been long dead, the individuals recorded as dead have been removed to ensure further monitoring can capture any deaths that occur in the future.	
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?	
Limits are set on the height of the water in the FWL. However, it must be noted the FWL was built for the supply of water for the Worsley Refinery process and it will continue to rise and fall within the limits to support refining operations. Continue monitoring in accordance with the WMP.	
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure: • in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance. (the above information may be provided as an attachment to this Statement of Compliance)	

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
Water Management Plan - Carters Freshwater Mussel Outcome Based Provisions – Outcome 3 (CFWM3) EPBC 2019/8437 condition 29	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Non-compliance with a threshold condition	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
N/A	
Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER/DCCEEW?	
Yes ☒ o Reported to DWER verbally Date _____ o Reported to DWER in writing Date __25 June 2025_____ o Reported to DCCEEW Date __No_____	No ☐
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
Exceedance of TSS levels	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
FWL	
What was the cause(s) of the non-compliance or potential non-compliance?	
TSS levels were higher than the interim Threshold levels identified in the WMP	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	
As reported to DWER in June • Additional Monitoring • Investigate and improve functioning of the silt traps upstream of the FWL • Continue with development of the site specific guidelines (SSGV's) for the FWL	
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?	
Silt traps in place; monitoring program in place It appears that these levels are representative of background water quality conditions and the SSGV will need to be updated to reflect this once 24 samples have been collected as required by the WMP.	
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure: • in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance. (the above information may be provided as an attachment to this Statement of Compliance)	

5.1.3 Administrative Non Compliance

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
MS1237 Condition D1-1 (1) & (7) EPBC 2019/8437 Conditions 82 & 83	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Non-compliant	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
N/A	
Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER/DCCEEW?	
Yes ☐ ☐ Reported to DWER verbally Date _____ ☐ Reported to DWER in writing Date _____ ☐ Reported to DCCEEW Date _____	No ☒
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
MS1237: Notification was not provided in 7 Days EPBC 2019/8437: Notifications of non-compliance were not provided within 2 business days of becoming aware of an incident: Notifications of non-compliance were not provided within 12 business days of becoming aware of an incident.	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
N/A	
What was the cause(s) of the non-compliance or potential non-compliance?	
During the reporting period, Worsley Alumina was undergoing a transitional phase, and the specific requirements under MS1237 and EPBC 2019/8437 the non-compliance with the reporting conditions was not identified until drafting of the Compliance Assessment Report (CAR). As a result, the non-compliance was not reported at the time it occurred.	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	
N/A	
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?	
Internal processes have been reviewed to improve regulatory awareness and ensure timely and accurate reporting moving forward.	
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure:	
• in the reporting period addressed in this Statement of Compliance; and • as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.	
N/A	

5.2 POTENTIAL NON-COMPLIANCES

5.2.1 MS1237 Condition A1-1

Which implementation condition or procedure was non-compliant or potentially non-compliant?	
MS1237 A1-1 Refinery Water Source & Use	
Was the implementation condition or procedure non-compliant or potentially non-compliant?	
Potentially non-compliant	
On what date(s) did the non-compliance or potential non-compliance occur (if applicable)?	
N/A	
Was this non-compliance or potential non-compliance reported to the Chief Executive Officer, DWER?	
Yes ☐ o Reported to DWER verbally Date _____ o Reported to DWER in writing Date _____	No ☒ This potential non-compliance was identified during drafting of the CAR.
What are the details of the non-compliance or potential non-compliance and where relevant, the extent of and impacts associated with the non-compliance or potential non-compliance?	
MS1237 outlines the maximum extent/capacity for the consumption of freshwater from the Fresh water lake to 2.6GL. The consumption for FY25 was 2.66GL. Previously MS719 limited the use to "average" use from the Freshwater Lake, which allowed alignment with the Refinery Surface Water Licence. During the drafting of the CAR it was noted the word "average" has been dropped from the condition. Consumption is licenced and reported to the DWER in accordance with the Refinery Surface Water Licence (SWL68041 (5)). The annual water limits for the Surface Water Licence are different to what is required by MS1237, in that the SWL (Condition W4 (c) and (d)) allows for the total volume of water taken over the term of the licence to not exceed 26,000,000kl (26 GL) (over 10 years) and for the total volume of water taken in any year to not exceed 5,400,000kl (5.4 GL). This means the total volume is the same over a 10-year period between approvals, but the SWL allows a higher consumption over a given year, providing the total is not exceeded in 10 years. The limit in accordance with the SWL has not been exceeded and all other monitoring was undertaken in accordance with the SWL. There is no impact as a result of this potential non-compliance as management of the water use is already regulated and controlled under an alternative action.	
What is the precise location where the non-compliance or potential non-compliance occurred (if applicable)? (please provide this information as a map or GIS co-ordinates)	
N/A	
What was the cause(s) of the non-compliance or potential non-compliance?	
Monitoring has historically been undertaken in accordance with the SWL which has a different limit that is monitored against.	
What remedial and/or corrective action(s), if any, were taken or are proposed to be taken in response to the non-compliance or potential non-compliance?	
Monitoring will be undertaken to accommodate both water use limits (MS1237 and SWL)	
What measures, if any, were in place to prevent the non-compliance or potential non-compliance before it occurred? What, if any, amendments have been made to those measures to prevent re-occurrence?	
This potential non-compliance was only identified during the drafting of the CAR.	
Please provide information/documentation collected and recorded in relation to this implementation condition or procedure:	
- in the reporting period addressed in this Statement of Compliance; and - as outlined in the approved Compliance Assessment Plan for the Statement addressed in this Statement of Compliance.	
Meter readings	

6 COMPLIANCE ASSESSMENT AUDIT TABLES

6.1 MS1237 AUDIT TABLE

Table 6-1 MS1237 Audit Compliance Table

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: A1-1	Proposal Implementation	The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded	Implement project pursuant to Table in condition A1-1 of Ministerial Statement (MS) 1237	CAR	Overall	30 September annually	*	*Section 4.2, Table 4-1 provides the compliance assessment against each Proposal Key Characteristic of condition A1-1
MS1237: B1-1	Greenhouse Gas	The proponent must notify the CEO in writing within one month of it becoming aware that implementation of the proposal will not be or is not expected to be regulated under the Safeguard Legislation as a designated large facility (the notifiable event) and such notice must briefly describe the reasons for and expected duration of the notifiable event.	Notify CEO in writing within one month of becoming aware that the proposal will not be or is not expected to be regulated as stated	Letter to CEO	Overall	As required	NR	
MS1237: B1-2	Greenhouse Gas	The proponent must, if requested in writing by the CEO, provide the CEO with a report on the implications for the proposal of any amendment or proposed amendment to the Safeguard Legislation or a decision or proposed decision made under the Safeguard Legislation that is specified in the CEO's request	Report provided to CEO if requested in accordance with condition B1-3	Report as requested	Overall	As required	NR	
MS1237: B1-3	Greenhouse Gas	The report required by condition B1-2 must: (1) be submitted to the CEO within three months of the date of the CEO's request or such longer period as the CEO agrees to in writing; and (2) explain the implications that the specified amendment or decision has had or is expected to have on: (i) the obligation to reduce net Scope 1 GHG emissions from implementation of the proposal under the Safeguard Legislation; and (ii) the quantity of actual and net Scope 1 GHG emissions likely to result from the future implementation of the proposal.	Report provided to CEO if requested in accordance with condition B1-3	Report as requested	Overall	As required	NR	
MS1237: B1-4	Greenhouse Gas	Within six months of the conclusion of five years of the date of this Statement, and every five years thereafter, the proponent shall provide a report to the CEO that describes for the five-year period to which the report applies: (1) the quantity of Non-Safeguard GHG emissions; (2) the quantity of Non-Safeguard Net GHG emissions; (3) the areas of land established with vegetation by rehabilitation of mining areas and restoration of previously cleared land as required by or under conditions B9, B10, B14 and B15 and the quantity of GHG emissions that have been sequestered by the vegetation established on that land; (4) the trajectory and progress towards zero Non-Safeguard Net GHG emissions by 2050; and (5) whether the proponent is compliant with condition B1-5 for any period or part of a period that occurs after 1 July 2050.	Prepare a report five yearly on GHG emissions in accordance with condition B1-4 and provided to the CEO	Report EO submission receipt (or other evidence of submission)	Overall	5 Yearly (first issue before 20 June 2029)	NR	
MS1237: B1-5	Greenhouse Gas	The proponent shall ensure that Non-Safeguard Net GHG emissions shall be zero (0) for every five (5) year period, or part of a five (5) year period, occurring after 1 July 2050	Provide GHG update in CAR	CAR	Overall	30 September annually	NR	
MS1237: B2-1	Rehabilitation, protected areas & Ecological Linkages	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) ensure that in any three (3) financial year period commencing after the date of this Statement that the hectares of rehabilitation of areas mined is equal to or greater than the hectares of clearing of native vegetation for mining; (2) ensure the commencement of rehabilitation of areas cleared for infrastructure, roads or access within 18 months of that infrastructure, road or access no longer being required; (3) from 1 July 2033, ensure that the rehabilitation deficit associated with the Revised Proposal within the PAA is a maximum of 35% unless the proponent receives approval from the CEO to increase the rehabilitation deficit for a temporary period of no more than two (2) years.	Implementation of the CSFMP, FVEMP, WMP and include reporting in the CAR	CAR	Overall	30 September annually	C	Section 4.10.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(4) ensure no disturbance or adverse impacts to the protected areas shown in Figure 4 except where approved by the CEO or where it occurs in the course of: (a) ecological restoration or rehabilitation activities; (b) maintenance and decommissioning of infrastructure within the protected areas; (c) environmental monitoring activities (including installation and decommissioning of monitoring equipment and sites); or (d) activities carried out to ensure compliance with legislation or approvals (including the conditions of this Statement). (5) ensure no disturbance or adverse impacts to more than 146.5 ha of native vegetation within the ecological linkages shown in Figure 5 where disturbance shall only be for infrastructure, roads or access and not mining; (6) ensure no activities occur in additional protected areas shown in Figure 6, and where activities have already occurred in these areas under MS 719, those areas must be rehabilitated in accordance with condition B14-3 to reduce the effects of habitat loss, fragmentation, modification of surface hydrology and groundwater mounding; (7) ensure rehabilitation is prioritised in areas adjacent to protected areas shown in Figure 4, ecological linkages shown in Figure 5 and additional protected areas shown in Figure 6; and (8) complete revegetation (seeding and fertilising) of areas cleared within the early rehabilitation areas identified in Figure 6 within four (4) years after clearing activities commenced in those areas, excluding areas that are used for infrastructure.						
MS1237: B3-1	Decommissioning	The proponent shall prepare and submit a Mine Closure Plan(s) in accordance with the DEMIRS Statutory Guidelines for Mine Closure Plans March 2020 (or any subsequent revisions of the guidelines), to the requirements of the CEO, on advice of DEMIRS and DBCA.	Prepare and submit an updated Mine Closure Plan in accordance with DEMIRS March 2020 Guidelines	Mine Closure Plan EO submission receipt (or other evidence of submission)	Overall		NR	Section 4.12
MS1237: B3-2		The proponent shall implement the proposal to achieve the following environmental objective: 1) to ensure that the site is left in a safe and environmentally acceptable condition.	Implement the CEMP and include reporting in the CAR Implement the Mine Closure Plan	CAR	Overall	30 September annually	NR	Section 4.12
MS1237: B3-3		The Mine Closure Plan(s) required in condition B3-1 shall include the following: (1) the removal or, if appropriate, retention of plant and infrastructure in consultation with relevant stakeholders; (2) the long-term management of ground and surface water systems affected by the refinery, coal stockpiles, waste disposal areas, and associated infrastructure; (3) rehabilitation of all disturbed areas to a standard suitable for the proposed new land use(s); and (4) identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.	Prepare and submit an updated Mine Closure Plan in accordance with DEMIRS March 2020 Guidelines and ensure condition B3-3 requirements are captured	Mine Closure Plan	Overall	Before 20 December 2025 (subject to a request for an extension)	NR	Section 4.12
MS1237: B3-4		The proponent shall review and revise the Mine Closure Plan(s) required by condition B3-1 at intervals not exceeding three (3) years, or as otherwise specified by the CEO, and submit the Mine Closure Plan(s) to the CEO at the agreed intervals.	Review and revise the Mine Closure Plan at least three yearly and submit to the CEO	Mine Closure Plan EO submission receipt (or other evidence of submission)	Overall	Three yearly (first submission before 20 December 2027)	NR	Section 4.12
MS1237: B4-1	Biodiversity-related Investigations – EMAs	The proponent shall conduct biodiversity-related investigations for the extended mining areas in accordance with the endorsed Scope of Biodiversity-related Investigations document	Conduct Biodiversity Studies in accordance with the Scope of Biodiversity-related Investigations	Submission of studies	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs. expected 2035	C	Section 4.3
MS1237: B4-2		The proponent may revise and amend the endorsed Scope of Biodiversity-related Investigations document subject to the amended document being submitted to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority, the DBCA and the Conservation and Parks Commission	Amended Scope of Biodiversity-related Investigations document submitted and endorsed by the Minister for Environment	Amended Scope Written notice from the Minister endorsing the amended scope	Extended Mining Areas	Scope endorsed in 2007 by DCCEEW and 2008 by DWER.	C	Section 4.3
MS1237: B4-3		The Minister for Environment may initiate a review and/or amendment of the endorsed Scope of Biodiversity-related Investigations document	Review Scope of Biodiversity-related Investigations if requested	Letter from Minister requesting review Revised Scope	Extended Mining Areas	As required	C	Section 4.3
MS1237: B4-4		The proponent shall implement and comply with the endorsed amended Scope of Biodiversity-related Investigations document referred to in condition B4-2 and B4-3.	Undertake biodiversity-related investigations in accordance with the Scope of Biodiversity-related Investigations	Biodiversity Reports CAR	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
MS1237: B4-5		The proponent shall make the endorsed Scope of Biodiversity-related Investigations document referred to in conditions B4-1, B4-2 and B4-3 publicly available on the proponent's website	Publish the Scope of Biodiversity-related Investigations on the South32 web page	Scope available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.3
MS1237: B4-6		Prior to the lodgement of the Bauxite Mining Plan required by condition B8, the proponent shall prepare and submit a Biodiversity-related Investigations Report to the Minister for Environment for endorsement on advice of the Environmental Protection Authority, the DBCA and the Conservation and Parks Commission which details the results of the biodiversity-related investigations conducted as required by condition B4-1 and B4-4. The report shall include the following: (1) written certification that the endorsed Scope of Biodiversity-related Investigations document is complete; (2) key biodiversity values to be protected; (3) indicators, parameters or criteria to be used in measuring maintenance of the key biodiversity values identified, and ongoing monitoring requirements; (4) outcomes and findings for each of the matters investigated, including: (a) the occurrence, spatial extent and condition of floristic and vegetation communities at local and regional scale including threatened ecological communities and priority ecological communities; (b) the occurrence, abundance and spatial extent of threatened flora, priority flora and other significant flora (c) the role and significance of ecological linkages; (d) the occurrence, severity and spatial extent of forest disease, weeds and pests and the potential for the spread of forest disease, weeds and pests; (e) characterisation of landforms; (f) the identification and spatial extent of fauna habitat, including specifically, habitat for threatened fauna, priority fauna, other significant fauna and significant short-range endemic fauna; (g) the occurrence, abundance and distribution of terrestrial fauna, including specifically, threatened fauna, priority fauna, other significant fauna, and significant short-range endemic fauna; (h) groundwater systems and the occurrence and distribution of groundwater dependent ecosystems; (i) stream flow and quality, and stream dependent ecosystems; and (j) impacts of climate change. (5) a description and surveyed plans of ecological linkages and the proposed areas of zero disturbance; and (6) defined buffer areas around ecological linkages and areas of zero disturbance.	Prepare and submit a Biodiversity-related Investigations Report in accordance with the requirements of the Scope of Biodiversity-related Investigations and condition B4-6	Biodiversity Related Investigations Report EO submission receipt (or other evidence of submission) Endorsement from the Minister for Environment	Extended Mining Areas	Within 60 days of receiving endorsement from the Minister for Environment	NR	Section 4.4.1.
MS1237: B4-7		The proponent shall make the endorsed Biodiversity-related Investigations Report required by condition B4-6 publicly available on the proponent's website	Publish the Scope of Biodiversity-related Investigations on the South32 web page	Scope available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.1
MS1237: B4-8		The proponent shall not commence ground disturbing activities within the extended mining areas (including mining and transport corridor construction activities) prior to endorsement and publication of the Biodiversity-related Investigations Report required by condition B4-6	Do not commence ground disturbing activities until after endorsement and publication of the Biodiversity-related Investigations Report	CAR	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.1
MS1237: B5-1	Flora & Veg – EMAs	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than 8,400 ha of native vegetation; (2) ensure the proposal does not cause or contribute to the direct or indirect disturbance of threatened flora unless the disturbance is approved under the Biodiversity Conservation Act 2016; (3) unless otherwise approved by the Minister for Environment, on advice of the Environmental Protection Authority and the DBCA, ensure the proposal does not cause or contribute to the direct or indirect disturbance of: (a) vegetation complexes (as mapped for the Regional Forest Agreement) which have less than 30% of their pre-European extent remaining; (b) threatened ecological communities as identified in the Biodiversity- related Investigations Report required by condition B4-6; (c) heathland as identified in the Biodiversity-related Investigations Report required by condition B4-6; (d) granite outcrops as identified in the Biodiversity-related Investigations Report required by condition B4-6;	Implement the proposal in accordance with condition B5-1 Report performance in the CAR	CAR	Extended Mining areas	30 September annually	NR	Section 4.4.2

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(e) other naturally rare or restricted floristic communities, vegetation or ecological communities and key ecological linkages identified in the Biodiversity-related Investigations Report required by condition B4-6; (f) significant populations of priority flora identified in the Biodiversity- related Investigations Report required by condition B4-6; (g) stream zones in accordance with DWER guidance for protection of sensitive water bodies, except for the construction and operation of stream crossings for haul roads, service roads, transport corridors, mine water supply and other infrastructure; and (h) other important conservation values and habitats identified in the Biodiversity-related Investigations Report required by condition B4-6. (4) without limiting condition B5-1(2) and B5-1(3), ensure that mining, transport corridor construction or operational activities do not cause or contribute to the following: (a) any significant adverse impact on any groundwater dependent ecosystems identified by the Biodiversity-related Investigations Report required by condition B4-6 or lead to waterlogging of significant areas of dry land vegetation; (b) any increase in severity status of weeds or pests, as identified in the Biodiversity-related Investigations Report required by condition B4-6, in State Forest; (c) increased spread of forest disease outside areas identified as infected by the Biodiversity-related Investigations Report required by condition B4-6; (d) placing any flora species or ecological community into a higher category of threat; and (e) causing disturbance in defined buffer areas around ecological linkage and areas of zero disturbance identified in the Biodiversity-related Investigations Report required by condition B4-6.						
MS1237: B6-1	Terrestrial Fauna – EMAs	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) ensure the proposal does not cause or contribute to the direct or indirect disturbance of significant areas of habitat for threatened fauna, priority fauna, other significant fauna and significant short-range endemic fauna identified in the Biodiversity-related Investigations Report required by condition B4-6, unless otherwise approved by the Minister for Environment on advice of the Environmental Protection Authority and the DBCA; and 2) without limiting condition B6-1(1), ensure that mining, transport corridor construction or operational activities do not cause or contribute to placing any terrestrial fauna species into a higher category of threat.	Implement the proposal in accordance with condition B6-1 Report performance in the CAR	CAR	Extended Mining areas	30 September annually	NR	Section 4.4.3
MS1237: B7-1	Transport Corridor Route Plans – EMAs	Prior to the commencement of ground disturbing activities within the extended mining areas (including mining and transport corridor construction activities), the proponent shall prepare and submit a Transport Corridor Route Plan to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and the DBCA.	Prepare and submit a Transport Corridor Route Plan for endorsement by the Minister for Environment	Transport Corridor plan EO submission receipt (or other evidence of submission) Endorsement from the Minister for Environment	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.4
MS1237: B7-2		The Transport Corridor Route Plan shall: (1) describe the route, area of disturbance and evaluation of alternative routes considered for each proposed transport corridor; and 2) describe how the selected transport corridor route complies with the requirements of the endorsed Biodiversity-related Investigations Report required by condition B4-6 and is in accordance with conditions B5 and B6	Prepare and submit a Transport Corridor Route Plan to included requirements of B7-2	Transport Corridor Plan	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.4
MS1237: B7-3		The proponent shall implement and comply with the endorsed Transport Corridor Route Plan required by condition B7-1	Report implementation and operation activities in CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.4.4
MS1237: B7-4		The proponent shall make the endorsed Transport Corridor Route Plan required by condition B7-1 publicly available on the proponent's website	Publish the Transport Corridor Route Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMA's	NR	Section 4.4.4
MS1237: B7-5		The Minister for Environment may initiate a review and/or amendment of the endorsed Transport Corridor Route Plan referred to in condition B7-1	Review the Transport Corridor Route Plan if requested	Letter from Minister requesting review Revised Plan	Extended Mining Areas	As required	NR	Section 4.4.4
MS1237: B7-6		The proponent shall implement and comply with the amended endorsed Transport Corridor Route Plan referred to in condition B7-5	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.4.4

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status*	Further Information
MS1237: B7-7		The proponent shall make the endorsed Transport Corridor Route Plan referred to in conditions B7-1 and B7-6 publicly available on the proponent’s website	Publish the Transport Corridor Route Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.4
MS1237: B8-1	Bauxite Mining Plans – EMAs	At least twelve (12) months prior to the commencement of ground disturbing activities within the extended mining areas, the proponent shall prepare and submit a draft Bauxite Mining Plan to the CEO, DBCA, the Conservation and Parks Commission, the Worsley Environmental Management Liaison Group and the Stakeholder Consultation Group for review. The draft Bauxite Mining Plan shall: (1) incorporate the findings contained in the Biodiversity-related Investigations Report required by condition B4-6; (2) ensure that the areas for mining are consistent with the areas of zero disturbance, ecological linkages, and buffers identified in the Biodiversity-related Investigations Report required by condition B4-6, and take into account the location of indicative fauna habitat zones as identified and in accordance with the requirements of the Forest Management Plan 2024 - 2033; (3) set out the management and mitigation measures which will be undertaken to ensure that mining activities comply with conditions B5 and B6; (4) set out monitoring and auditing to be conducted prior to, during and following mining activities; (5) demonstrate how the proponent’s implementation of the proposal protects the key biodiversity values identified in the Biodiversity-related Investigations Report required by condition B4-6 and is in accordance with conditions B5 and B6; and (6) address the objectives of the Forest Management Plan 2024 - 2033.	Prepare and submit a Draft Bauxite Mining Plan for review to the required parties (i.e. CEO etc)	Draft Bauxite Mining plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	At least 12 months prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B8-2		The proponent shall revise and submit the draft Bauxite Mining Plan, taking into account all comments and recommendations (if any) received under condition B8-1, to an independent Environmental Auditor chosen by the proponent for review who will: be an individual currently certified/accredited by RABQSA as a Lead Environmental Auditor or an individual currently certified as a Lead Environmental Auditor by an organisation accredited to ISO/IEC 17924 (by JAS-ANZ or a body recognised by JAS-ANZ); and within one (1) month of receiving a revised draft Bauxite Mining Plan prepare a report on whether, in its opinion, the Plan will comply with conditions B5 and B6.	Revise draft Bauxite Mining Plan and submit it to an independent Environmental Auditor	Report written by the independent Environmental Auditor	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B8-3		The proponent shall submit its response to review comments received under B8-1 together with the revised draft Bauxite Mining Plan and the report prepared by the independent Environmental Auditor to DBCA and the CEO for review	Submit updated Draft Bauxite Mining Plan and Independent Auditor report to DBCA and the CEO for review	Draft Bauxite Mining plan & Audit Report EO submission receipt (or other evidence of submission)	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B8-4		The proponent shall prepare a Final Bauxite Mining Plan, taking into account all comments and recommendations (if any) received from the independent Environmental Auditor referred in condition B8-2 and additional comments received under condition B8-3.	Prepare a Final Bauxite Mining Plan	Draft Bauxite Mining plan	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5.
MS1237: B8-5		Prior to the commencement of ground disturbing activities within the extended mining areas, the proponent shall submit the Final Bauxite Mining Plan and the report prepared by the independent Environmental Auditor to the DBCA and the CEO who may advise the Minister for Environment of any remaining deficiencies within the Bauxite Mine Plan in which case ground disturbing activities within the extended mining areas shall not commence until the Minister has made a determination	Submit for endorsement the Final Bauxite Mining Plan	Final Bauxite Mining Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B8-6		The proponent shall implement and comply with the Final Bauxite Mining Plan	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.4.5.
MS1237: B8-7		The proponent shall make the Final Bauxite Mining Plan publicly available on the proponent’s website.	Publish the Final Bauxite Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B8-8		The proponent may revise and amend the Final Bauxite Mining Plan referred to in condition B8-6 subject to the amended Final Bauxite Mining Plan undergoing review and revision as specified in conditions B8-1, B8-2, B8-3, B8-4 and B8-5	If required, revise and resubmit the Final Bauxite Mining Plan	Revised Final Bauxite Mining Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	As required	NR	Section 4.4.5
MS1237: B8-9		The Minister for Environment may initiate a review and/or amendment of the Final Bauxite Mining Plan referred to in condition B8-6	Review the Final Bauxite Mining Plan if requested	Letter from Minister requesting review	Extended Mining Areas	As required	NR	Section 4.4.5

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
				Revised Plan				
MS1237: B8-10		The proponent shall implement and comply with the amended Final Bauxite Mining Plan referred to in condition B8-8 and B8-9	Report implementation and operation activities in the CAR	CAR	Extended Mining Areas	30 September annually	NR	Section 4.4.5
MS1237: B8-11		The proponent shall make the amended Final Bauxite Mining Plan referred to in condition B8-10 publicly available on the proponent's website	Publish the amended Final Bauxite Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.5
MS1237: B9-1	Rehabilitation – EMAs	On completion of the Biodiversity-related Investigations referred to in condition B4, the proponent shall use the findings of the investigations to prepare and submit a draft Rehabilitation Plan for review to the DBCA, Conservation and Parks Commission, the Worsley Environmental Management Liaison Group and the Stakeholder Consultation Group. The objectives of the draft Rehabilitation Plan are to ensure that: (1) rehabilitation research and trials are targeted to the key issues facing the rehabilitation of the proposed bauxite mine areas; (2) planning and implementation of rehabilitation is carried out in a manner consistent with industry best practice; (3) planning and implementation of rehabilitation is carried out in a manner consistent with relevant objectives and strategies in the Forest Management Plan 2024 - 2033; (4) rehabilitated native vegetation in State Forest areas will ultimately develop into sustainable ecological systems which are compatible with surrounding native vegetation and its land uses, and approximates as closely as possible the pre-mining biodiversity and functional values (5) rehabilitated private land areas return to a mix of productive agricultural land and native vegetation compatible with the original native vegetation, which at least maintains the extent of the existing native vegetation and enhances ecological connectivity; and (6) the matters identified in the report entitled, 'A Review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine' prepared by URS Australia Pty Ltd relating to the assessment of ecosystem sustainability are given due consideration.	Prepare and submit a Draft Rehabilitation Plan for review to the required parties (i.e. DBCA etc)	Draft Rehabilitation plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.6
MS1237: B9-2		The draft Rehabilitation Plan shall address the following topics which are relevant to long term sustainable rehabilitation: (1) objectives for rehabilitation, including site specific variation, and objectives of the Forest Management Plan 2024 - 2033; (2) an outline of proposed rehabilitation research priorities; (3) conduct and application of research; (4) topsoil management; (5) targets for nutrient cycling; (6) pest and disease control and management; (7) targets for flora and fauna recruitment, including specific targets for: (a) the return of recalcitrant species; (b) the return of key fauna habitat; (c) the translocation of mature specimens of long-lived species required for fauna habitat (e.g. Xanthorrhoea and Macrozamia); (d) the recolonisation of invertebrate fauna; and (e) the recolonisation of mycorrhizal fungi; (8) hydrological function; (9) climate change consideration; (10) integration with State Forest management; (11) monitoring and adaptive management (12) plant species composition (including reference to the species listed in the report entitled, 'A Review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine' prepared by URS Australia Pty Ltd), including species vulnerability to fire (13) long term sustainability, including criteria for assessing ecosystem sustainability on natural and disturbed land; (14) completion criteria including an overall requirement that no extraordinary residual management liability (above the normal cost of managing undisturbed forest) shall accrue to the land management authority unless agreed by the State. Completion criteria should have an objective of achieving integration of the rehabilitation areas into large scale prescribed burning programs for the	Prepare and submit a Draft Rehabilitation Plan for review to the required parties (i.e. DBCA etc)	Draft Rehabilitation plan EO submission receipt (or other evidence of submission)	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.6.

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		purpose of fire management prior to the hand-back of responsibility to the State; and (15) peer review and reporting.						
MS1237: B9-3		The proponent shall, at least twelve (12) months prior to commencement of ground disturbing activities within the extended mining areas (including mining and transport corridor construction), prepare and submit a final Rehabilitation Plan, taking into account all comments and recommendations (if any) received under condition B9-1, to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and the DBCA	Prepare and submit a Final Rehabilitation Plan for endorsement to the Minister for Environment.	Final Rehabilitation plan EO submission receipt (or other evidence of submission) Endorsement of Plan from the Minister	Extended Mining Areas	At least 12 months prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.6
MS1237: B9-4		The proponent shall implement and comply with the endorsed Rehabilitation Plan referred to in condition B9-3	Report implementation and operation activities in the CAR	CAR Rehabilitation monitoring results	Extended Mining Areas	30 September annually	NR	Section 4.4.6
MS1237: B9-5		The proponent shall make the endorsed Rehabilitation Plan referred to in condition B9-3 publicly available on the proponent's website	Publish the Final Rehabilitation Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.6
MS1237: B9-6		The proponent shall review the endorsed Rehabilitation Plan annually and present its findings in an annual Compliance Assessment Plan submitted to the CEO. The review shall include the following: (1) presentation of results of monitoring; and 2) plans for improvement in rehabilitation to meet objectives and targets where necessary.	Report activities in the CAR including presentation of monitoring and adaptive management where required	CAR	Extended Mining Areas	30 September annually	NR	Section 4.4.6
MS1237: B9-7		The proponent may revise and amend the endorsed Rehabilitation Plan referred to in condition B9-4, in accordance with the review of condition B9-6 and subject to the amended Rehabilitation Plan undergoing review and revision as specified in condition B9-1.	If required, revise and resubmit Final Rehabilitation Plan	Revised Final Rehabilitation Plan EO submission receipt (or other evidence of submission)	Extended Mining Area	As required	NR	Section 4.4.6
MS1237: B9-8		The Minister for Environment may initiate a review and / or amendment of the endorsed Rehabilitation Plan referred to in condition B9-4	Review Final Rehabilitation Plan if requested	Letter from Minister requesting review Revised Plan	Extended Mining Areas	As required	NR	Section 4.4.6
MS1237: B9-9		The proponent shall submit the amended Rehabilitation Plan referred to in condition B9-7 to the Minister for Environment for endorsement on the advice of the Environmental Protection Authority and DBCA	Submit the amended Rehabilitation Plan to the Minister for Environment for endorsement	Revised Final Rehabilitation Plan EO submission receipt (or other evidence of submission) Letter of endorsement from Minister	Extended Mining Areas	As required	NR	Section 4.4.6
MS1237: B9-10		The proponent shall implement and comply with the endorsed amended Rehabilitation Plan referred to in condition B9-8 and B9-9	Report implementation and operation activities in the CAR	CAR Rehabilitation monitoring results Research outcomes	Extended Mining Areas	30 September annually	NR	Section 4.4.6
MS1237: B9-11		The proponent shall make the endorsed amended Rehabilitation Plan referred to in condition B9-8 and B9-9 publicly available on the proponent's website	Publish the amended Rehabilitation Mining Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.6
MS1237: B10-1	Environmental Offsets – EMAs	The proponent shall implement offsets to achieve a net environmental benefit as a result of land disturbance due to mining activities	Implement offsets as required based on disturbance	Agreed Offsets in place	Extended Mining Areas	As required	NR	Section 4.4.7
MS1237: B10-2		Prior to entering into the extended mining areas, the proponent shall prepare and implement an offsets program that addresses the following: (1) establishing conservation areas: (a) provision of an area of land comparable to the area of State Forest disturbed in extended mining areas for conservation by means of conservation covenants or agreements; and (b) the timeframe for establishment of conservation areas in conjunction with the proponent's Ten Year Mine Plan; (2) catchment and landscape enhancement for previously cleared land in the region: (a) provision of up to \$100,000 per annum for the duration of mining of private land, up to a maximum of ten years; and (b) the timeframe for establishment of catchment and landscape enhancement initiatives in conjunction with the proponent's Ten Year Mine Plan;	Prepare and implement an offsets program to address the requirements of condition B10-2	Offsets Program	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.7

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status*	Further Information
		(3) specific management programs: (a) identification and contribution to jarrah forest conservation initiatives including: (i) research and understanding of jarrah forest biodiversity values; (ii) forest disease management; and (iii) flora and fauna conservation programs.						
MS1237: B10-3		The offsets program must be prepared in consultation with the Worsley Environmental Management Liaison Group.	Prepare offsets program in consultation with the WEMLG	Offsets Program including consultation summary	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.7
MS1237: B11-1	Water Supply Protection – EMAs	Prior to the commencement of any ground disturbing activities in areas proclaimed as water reserves or catchment areas under the Metropolitan Water Supply, Sewerage, and Drainage Act 1909 or under the Country Areas Water Supply Act 1947, the proponent shall prepare a Water Resource Management Plan to the requirements of the Minister for Environment on advice of the DWER and the Water Corporation. The Water Resource Management Plan shall demonstrate that the ground disturbing activities shall have negligible impact on the quantity and quality of water supplies in the catchments.	Develop a Water Resource Management Plan	Water Resource Management Plan Survey of operational areas	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.8
MS1237: B11-2		The proponent shall implement and comply with the endorsed Water Resource Management Plan referred to in condition B11-1	Report implementation and operation activities in the CAR	CAR Survey of operational areas	Extended Mining Areas	30 September annually	NR	Section 4.4.8
MS1237: B11-3		The proponent shall make the endorsed Water Resource Management Plan referred to in condition B11-1 publicly available on the proponent's website	Publish the Water Resource Management Plan on the South32 web page	Plan available on web page	Extended Mining Areas	Prior to commencement of ground disturbing activities in the EMAs	NR	Section 4.4.8
MS1237: B12-1		The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than 3,855 ha of native vegetation, 604 ha of rehabilitation vegetation and 74 ha of plantation vegetation after the date of this Statement. (2) ensure no disturbance or adverse impacts to: (a) threatened flora including <i>Caladenia hopperiana</i> ; (b) <i>Caladenia caesarea</i> subsp. Mooradung; (c) <i>Papistylus intropubens</i> and <i>Synaphea panhesya</i> ; (d) the Mount Saddleback Heath Communities Priority Ecological Community and vegetation type G4; (e) other significant vegetation; (f) other significant flora unless authorised by the CEO; and (g) old growth forest. (3) ensure no disturbance or adverse impacts to more than: (a) 2% of the known population of <i>Calytrix simplex</i> subsp. simplex; (b) 8% of the known population of <i>Gastrolobium</i> sp. Prostrate Boddington; (c) 2% of the known population of <i>Hibbertia ambita</i> , until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population; (d) 2% of the known population of <i>Halgania corymbosa</i> , until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population; (e) 11.9 ha of Williams vegetation complex after the date of this Statement; and (f) 332.5 ha of Michibin vegetation complex after the date of this Statement. (4) ensure that the proposal does not cause or contribute to the introduction and/or spread of forest disease, including <i>Phytophthora cinnamomi</i> , outside of areas identified as infected by the pre-clearance surveys required by condition B12-3	Implement the proposal in accordance with the requirements, including implementing the FVEMP	FVEMP CAR Results of Pre-clearance surveys Survey of cleared operational areas	Overall	30 September annually	C C NC (condition B12-4(4) only)	Section 4.6.2 Table 4-4 Table 4-6 FVMP; Section 4.5.1
MS1237: B12-2		The proponent shall implement the proposal to achieve the following environmental objective: (1) Avoid where practicable or otherwise minimise indirect impacts to flora and vegetation including but not limited to impacts from forest disease, dust, weeds, fire, changes in groundwater and surface water and fragmentation	Implement the proposal in accordance with the requirements, including implementing the FVEMP	FVEMP CAR Flora monitoring reports	Overall	30 September annually	C	FVMP, Section 4.5
MS1237: B12-3		Prior to clearing each area to be disturbed in the PAA, the proponent shall undertake surveys and forest disease mapping of that area consistent with DBCA's Phytophthora Dieback Interpreters Manual for Lands Managed by the Department and with DBCA's Phytophthora Dieback Management Manual, as amended or replaced from time to time.	Implement the FVEMP	FVEMP CAR Dieback Monitoring Reports	Overall	30 September annually	C	FVMP; Section 4.5.1
MS1237: B12-4		Prior to clearing each area to be disturbed in the PAA, the proponent shall map the extent of old growth forest of that area in accordance with DBCA's Procedures for the	Implement the FVEMP	FVEMP CAR	Overall	30 September annually	C	FVMP; Section 4.5.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		assessment, identification and demarcation of old-growth forest, as amended or replaced from time to time		Flora monitoring reports				Section 4.5.2.2
MS1237: B12-5		Prior to clearing each area to be disturbed in the PAA, the proponent must undertake targeted pre-clearance vegetation and flora survey(s) of that area, in accordance with Technical guidance – Flora and vegetation surveys for environmental impact assessment, or any approved updates of these guidelines. Targeted pre-clearance surveys shall: (1) target the following species and communities, but is not limited to: (a) threatened flora; (b) priority flora; (c) new species, or undescribed species; and (d) threatened and priority ecological communities and vegetation type G4. 2) require appropriate botanists with demonstrated experience in orchid surveys in the bioregion, for pre-clearance surveys of <i>Caladenia caesarea</i> subsp. Mooradung and threatened orchid species, including <i>Caladenia hopperiana</i>.	Implement the FVEMP	FVEMP CAR Pre-clearance survey reports	Overall	30 September annually	C	FVMP; Section 4.5.1 Section 4.5.2.2
MS1237: B12-6		In order to meet the outcomes of condition B12-1, objectives of condition B12-2 and satisfy the requirements of condition C4, within twelve (12) months from the date of this Statement, and annually thereafter, the proponent shall prepare and submit an annual Flora and Vegetation Environmental Management Plan and submit it to the CEO on advice from DBCA. This plan shall: (1) include details of the timing, methods, limitations, survey effort and results of the pre-clearance surveys required by conditions B12-3, B12-4 and B12-5 and demonstrate how the findings of the survey(s) have been considered, including identification of mitigation measures; (2) demonstrate buffer zones are appropriately sized to adequately protect the environmental values listed in conditions B12-1(2) and B12-1(3), from the effects of forest disease, dust, weeds, changes in groundwater and surface water and fragmentation; and (3) include actions to ensure that forest disease, dust, weeds, fire, changes in groundwater and surface water and fragmentation, are appropriately managed to ensure the environmental outcomes listed in conditions B12-1(2) and B12-1(3) are met.	Prepare and submit the FVEMP to the CEO	EO submission receipt (or other evidence of submission)	Overall	Prior to ground disturbing activities commencing	C	Section 4.5.1
MS1237: B12-7		The proponent shall not commence ground disturbing activities within an area subject to the annual Flora and Vegetation Environmental Management Plan under condition B12-6, unless that plan has been approved by the CEO	Submit the FVEMP for approval	EO submission receipt (or other evidence of submission) Approval of Plan from the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.5.1
MS1237: B13-1	Terrestrial Fauna - PAA	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) disturb no more than the following environmental values after the date of this Statement: (a) 276 ha of the Quindanning Timber Reserve; (b) 2,033 ha of woylie (<i>Bettongia penicillata ogilbyi</i>) habitat which includes no more than 1,898 ha of the habitat shown in Figure 7; (c) 4,324 ha of numbat (<i>Myrmecobius fasciatus</i>) habitat; (d) 4,533 ha of black cockatoo foraging habitat; (e) 0 (zero) trees being used, or that have evidence of use, by black cockatoos for breeding, shown in Figure 8, or as identified by pre-clearance surveys required by condition B13-4(1), unless the proponent has: (i) submitted a written notice to the CEO documenting a proposal to clear such a tree or trees; (ii) included in the notice referred to in condition B13-1(1)(e)(i) evidence that the tree or trees cannot be reasonably avoided; (iii) included in the notice referred to in condition B13-1(1)(e)(i) an appropriate procedure that will be followed to ensure no black cockatoos will be present in the tree or trees at the time of the proposed clearing; and (iv) within twenty-one (21) days of the submission of the notice referred to in condition B13-1(1)(e)(i) not received advice from the CEO that the proposed clearing is not authorised, in which case the proponent may remove up to 24 trees covered by a notice issued under B13-1(1)(e)(i). (f) 4,459 ha of chuditch (<i>Dasyurus geoffroii</i>) habitat; (g) 135 ha of western ringtail possum (<i>Pseudocheirus occidentalis</i>) habitat;	Implement the FVEMP and CSFMP	FVEMP & CSFMP CAR Operational clearing survey results	Overall	30 September annually	C	Section 4.6.2 Table 4-10 Table 4-12

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(h) 135 ha of quokka (<i>Setonix brachyurus</i>) habitat; and (i) 245 ha of the red-tailed phascogale (<i>Phascogale calura</i>) habitat shown in Figure 9. (2) ensure ongoing viability of the woylie (<i>Bettongia penicillata ogilbyi</i>) population recorded at the Hotham North mine region shown in Figure 11 is not lost due to the proposal; (3) Ensure ongoing viability of any numbat (<i>Myrmecobius fasciatus</i>) population(s) recorded at the Hotham North and Marradong Timber Reserve mine regions shown in Figure 11 is not lost due to the proposal; (4) ensure no disturbance to: (a) the buffers identified by condition B13-4(2) for trees being used, or that have evidence of use, by black cockatoos for breeding (excluding the up to 24 trees referred to in condition B13-1(1)(e)); (b) peregrine falcon (<i>Falco peregrinus</i>) nests including a 30 m buffer unless the tree has not been used over two consecutive breeding seasons; (c) known records of significant short-range endemic fauna where those fauna are only known from the PAA unless they are known to occur within the protected areas or ecological linkages shown in Figure 4 and Figure 5 respectively; and (d) the offset values listed in Table 1 of condition B15-5 that intersect the PAA excluding any disturbance caused for the purpose of undertaking ecological restoration.						
MS1237: B13-2		The proponent shall implement the proposal to achieve the following environmental objectives: 1) minimise the risk of physical injury or mortality from construction activities on native fauna; and 2) minimise the risk of behavioural changes, health impacts, physical injury or mortality from construction activities on native fauna	Implement the proposal in accordance with the requirements, including implementing the FVEMP & CSFMP	FVEMP CSFMP CAR	Overall	30 September annually	C	Section 4.6.2, Table 4-9
MS1237: B13-3		Within the first twelve (12) months from the date of this Statement, the proponent shall commence: (1) woylie (<i>Bettongia penicillata ogilbyi</i>) surveys over the Hotham North mine region shown in Figure 11; and (2) numbat (<i>Myrmecobius fasciatus</i>) surveys over the Hotham North and Marradong Timber Reserve mine regions shown in Figure 11;to determine the baseline population size during implementation of the proposal and to inform reporting associated with the Conservation Significant Fauna Environmental Management Plan required by condition B13-7	Undertake surveys within 12 months of the date of the statement	Survey Reports CAR	Overall	30 September annually	C	Section 4.6.4.1 Appendix 5: Flora and Fauna Reports
MS1237: B13-4		Prior to clearing each area to be disturbed in the PAA, the proponent shall undertake the following actions: (1) within seven (7) days prior to clearing, using a fauna spotter with experience in surveying for black cockatoos, inspect the area for potential breeding trees, and identify suitable hollows and determine if they are being used, or have evidence of use, by black cockatoos for breeding; (2) except where the tree is to be disturbed as one of the 24 trees referred to in condition B13-1(1)(e), identify the site-specific buffer (minimum of 30 metre radius from the base of the tree, unless advised otherwise in writing by the CEO for the purposes of Critical infrastructure) that should be applied to each identified tree that is being used or has evidence of use by black cockatoos for breeding, to ensure its viability for breeding use is not lost due to the proposal; and 2) (3) identify which trees with suitable hollows that are not being used and do not show evidence of use by black cockatoos for breeding cannot be avoided, and document the reasons.	Implement the CSFMP	CSFMP CAR Fauna Survey reports, pre-clearing check sheets	Overall	30 September annually	C	Section 4.6.4.2
MS1237: B13-5		The proponent shall make the methodology and findings of the inspections and buffer and avoidance determinations under conditions B13-4(1), B13-4(2) and B13-4(3), publicly available annually in a summary document on the proponent's website	Make the methodology and survey findings available on the South32 website	Plan available on web page	Overall	Annually	C	Section 4.6.3 Appendix 6: Black Cockatoo Hollows – Methodology and Findings
MS1237: B13-6		During clearing activities in the PAA, the proponent shall undertake the following actions: 1) ensure the presence of fauna handlers to ensure condition B13-6(2) is met; 2) cease clearing activities in any area where woylie (<i>Bettongia penicillata ogilbyi</i>), numbat (<i>Myrmecobius fasciatus</i>), chuditch (<i>Dasyurus geoffroi</i>), western ringtail	Implement the CSFMP	CSFMP CAR Pre-clearance clearing check sheets	Overall	30 September annually	C	Section 4.6.4.2

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		possum (<i>Pseudocheirus occidentalis</i>), quokka (<i>Setonix brachyurus</i>) or red-tailed phascogale (<i>Phascogale calura</i>) individual(s) are identified until: (a) the individual(s) has been relocated by a fauna handler; or (b) the individual(s) has been observed by the fauna handler to have moved on from the area to adjoining suitable habitat; and/or (c) the fauna handler considers that the individual no longer occurs in the area						
MS1237: B13-7		The proponent must prepare a Conservation Significant Fauna Environmental Management Plan to minimise and monitor impacts to conservation significant fauna from the proposal and submit it to the CEO for approval on advice from DBCA. The Conservation Significant Fauna Environmental Management Plan must: (1) demonstrate how impacts to conservation significant fauna from habitat fragmentation, mine operations and predation by feral animals will be minimised; (2) describe the following: (a) the feral predator monitoring and management actions to be undertaken; (b) the monitoring and management of ecological linkages to be undertaken; (c) the monitoring and management of relocated animals; (d) the conservation significant fauna monitoring to be undertaken including at both impact and control sites; and (e) the contingency actions to be taken in the event of a decline to conservation significant fauna attributable to the proposal. (3) Include a definition for ongoing viability of the woylie as referred to in condition B13-1(2) and a definition for ongoing viability of the numbat as referred to in condition B13-1(3). (4) Include a definition for inspect as referred to in condition B13-4.	Prepare and submit the CSFMP to the CEO	EO submission receipt (or other evidence of submission) Written confirmation from CEO of approval of the CSFMP	Overall	Prior to ground disturbing activities commencing	C	Section 4.6.1
MS1237: B14-1	Rehabilitation & Closure - PAA	The proponent must ensure the implementation of the proposal achieves the following environmental outcomes: (1) rehabilitated landforms are stable and do not cause pollution or environmental harm; (2) rehabilitated vegetation is self-sustaining; (3) rehabilitated drainage lines are stable, not prone to erosion, and support ecological processes; (4) areas for which rehabilitation commences after the date of this Statement are rehabilitated to be consistent with the species diversity and abundance of native vegetation within comparative analogue or reference sites; (5) rehabilitated areas for which rehabilitation commences after the date of this Statement are rehabilitated to be consistent with the species diversity and abundance of fauna within comparative analogue or reference sites; (6) areas of State forest for which rehabilitation commences after the date of this Statement shall be rehabilitated with coarse woody debris consistent with comparative analogue or reference sites, to provide habitat for threatened fauna species, as soon as practicable and within twenty-four (24) months after commencing rehabilitation; (7) areas for which rehabilitation commenced before the date of this Statement are rehabilitated to be consistent with the agreed completion criteria that applied at the time the rehabilitation commenced. (8) prioritise rehabilitation areas, including specific targets for minimum timeframes from disturbance to rehabilitation, to reduce fragmentation and edge effects on remnant native vegetation; (9) prioritise rehabilitation areas, including specific targets for minimum timeframes from disturbance to rehabilitation, to enhance fauna ecological linkages; (10) monitoring of agreed biodiversity indicators and agreed completion criteria in consultation with DBCA and to the satisfaction of the CEO, and undertake independent review of biodiversity indicators and completion criteria every five years following implementation of the proposal; (11) annual reporting on agreed biodiversity indicators and agreed completion criteria; (12) annual reporting on hectares rehabilitated; and (13) demonstrate that closure planning and rehabilitation are being undertaken in a progressive manner consistent with achievement of the above outcomes during operations, where practicable, and as soon as practicable upon closure.	Implement proposal in accordance with the required environmental outcomes. Report on outcomes in Annual Rehabilitation Plan, submitted as an Appendix to the CAR	Annual Rehabilitation Plan Rehabilitation monitoring reports	Overall	30 September annually	C	Section 4.10
MS1237: B14-2		The proponent must prepare and submit a Rehabilitation Performance Report, within twelve (12) months of the issue of this Statement, and submit for approval to the	Prepare and submit a Rehabilitation Performance Report and submit for approval to the CEO	Rehabilitation Performance Report	Overall	Before 20 December 2025	N/R	Section 4.10.2

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status*	Further Information
		CEO on advice from the DEMIRS and DBCA. The Rehabilitation Performance Report shall: (1) provide the results and analysis of long-term rehabilitation performance since mining commencement; (2) provide proposed biodiversity indicators and proposed completion criteria which, on approval of the CEO, may become agreed biodiversity indicators and agreed completion criteria; (3) provide historical results and outcomes of rehabilitation research and trials that were undertaken, targeting key issues facing the rehabilitation of bauxite mined areas; (4) provide a discussion of the results of past performance, research and trials, outcomes and improvement strategies; and (5) demonstrate how results of long-term rehabilitation performance have been used to inform proposed biodiversity indicators and completion criteria in condition B14-2(2), to ensure they are adaptive, evidence-based, effective, and achievable. (6) detail the agreed completion criteria applicable to rehabilitation that commenced before the date of this Statement.		EO submission receipt (or other evidence of submission) Approval from the CEO				
MS1237: B14-3		The proponent must prepare and submit an annual Rehabilitation Plan, by 30 September each year following the issue of this Statement, that satisfies the requirements of condition C4, to ensure the environmental outcomes required by condition B14-1 are achieved and submit for approval to the CEO. The plan shall: (1) report whether the environmental outcomes specified in condition B14-1 were achieved; (2) compare environmental values identified in condition B14-1(4), B14-1(5), B14-1(8), B14-1(9) and B14-1(11) annually; (3) include progress against agreed completion criteria and agreed biodiversity indicators; (4) identify actual progressive rehabilitation against schedule of progressive rehabilitation; (5) include research, trials and monitoring programs, targeting key issues in rehabilitation, to improve rehabilitation techniques, practices and outcomes; (6) provide results of research, trials and monitoring programs for rehabilitation; (7) demonstrate how outcomes from previous research, trials and monitoring programs have been incorporated into rehabilitation techniques and practices; (8) ensure that planning and implementation of rehabilitation is carried out in a manner consistent with relevant objectives and strategies in the Forest Management Plan 2024 - 2033, as amended or replaced from time to time; (9) include pest and disease control and management; (10) include topsoil management; (11) include climate change consideration; and (12) include rehabilitation monitoring, an adaptive management framework and continuous improvement strategies.	Prepare and submit an annual Rehabilitation Plan and submit as an appendix to the CAR	Annual Rehabilitation Plan reporting included in CAR	Overall	30 September annually	C	4.10.3
MS1237: B14-4		The proponent must continue rehabilitation to achieve the outcomes required by condition B14-1 until the CEO confirms by notice in writing that it has been demonstrated that the relevant requirements in condition B14-1 have been met.	Continue to undertake rehabilitation to achieve the outcomes until the CEO has confirmed in writing that the outcomes have been met	Written evidence provided from the CEO that the outcomes under condition B14-1 have been met	Overall	Lifetime of Proposal	C	4.10
MS1237: B15-1	Environmental Offsets - PAA	The proponent must implement offsets to counterbalance the significant residual impacts of the proposal on the following environmental values: (1) 2,033 ha of woylie (<i>Bettongia penicillata ogilbyi</i>) habitat; (2) 4,324 ha of numbat (<i>Myrmecobius fasciatus</i>) habitat; (3) 4,533 ha of black cockatoo habitat including up to 24 trees being used, or that have evidence of use, by black cockatoos for breeding where that clearing is authorised by the CEO under condition B13-1(1)(e); (4) 4,459 ha of chuditch (<i>Dasyurus geoffroi</i>) habitat; (5) 135 ha of western ringtail possum (<i>Pseudocheirus occidentalis</i>) habitat; (6) 135 ha of quokka (<i>Setonix brachyurus</i>) habitat; (7) 245 ha of red-tailed phascogale (<i>Phascogale calura</i>) habitat; (8) 11.9 ha of Williams vegetation complex; and (9) 332.5 ha of Michibin vegetation complex.	Prepare Offset EMPs as required (LOEMP, WOEMP, ROEMP & REMP) Report on offset implementation in the CAR	Offset EMPs (LOEMP, WOEMP, ROEMP & REMP) CAR Survey of operational areas	Overall	As required	C	4.11
MS1237: B15-2		The proponent must ensure the implementation of the offsets achieves the following environmental outcomes and objectives:	Prepare Offset EMPs in accordance with the requirements (LOEMP, WOEMP, ROEMP & REMP)	Offset EMPs (LOEMP, WOEMP, ROEMP & REMP)	Overall	As required	C	4.11.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(1) protection and enhancement of no less than 4,384 ha of remnant vegetation in perpetuity; (2) ecological restoration and protection in perpetuity of no less than 4,962 ha of agricultural land to ensure a net-gain in numbat, black cockatoo, chuditch, western ringtail possum, quokka and red-tailed phascogale habitat; (3) ecological restoration and protection in perpetuity of no less than a further 3,000 ha of agricultural land in the Williams River and Hotham River (including Bannister River, Wandering Brook & 14 Mile Brook) catchments shown in Figure 10; (4) installation of three artificial breeding hollows for every tree cleared that is being used, or that has evidence of use, by black cockatoos for breeding, where that clearing is authorised by the CEO under condition B13-1(1)(e); (5) protection of a woylie population that is at least double the size of the number of individuals impacted; and (6) contribute to key knowledge gaps, identified in consultation with DBCA, relating to the environmental values being impacted identified under condition B15-1, to ultimately assist with maintenance of the ongoing ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub-region.	Report on offset implementation in the CAR	Acceptance of Offset EMP's by CEO CAR Offset surveys including area and outcomes (Spatial areas and biological surveys) Conservation covenants on title				
MS1237: B15-3		The proponent must implement the offsets in a manner that ensures: (1) the amount (in hectares) of habitation protection and ecological restoration in the first five (5) years after the date of this Statement exceeds by a factor of two the amount (in hectares) of clearing of native vegetation within the PAA carried out in the first five (5) years after the date of this Statement. (2) the amount of ecological restoration in the first five (5) years after the commencement of clearing activities after the date of this Statement exceeds 700 ha; and (3) the amount (in hectares) of ecological restoration in the 10 years following the period referred to in condition B15-3(1) exceeds by a factor of two (2) the amount (in hectares) of clearing of native vegetation within the PAA carried out in the 10 years following the period referred to in condition B15-3(1).	Implement the LOEMP	LOEMP CAR Offset spatial surveys Conservation covenants	Overall	30 September annually	C	4.11.1C
MS1237: B15-4	Local Offsets Environmental Management Plan	The proponent must prepare a Local Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) will be achieved, monitored and substantiated, and submit it to the CEO.	Prepare LOEMP and submit to the CEO	LOEMP EO submission receipt (or other evidence of submission)	Overall	Before commencing ground disturbing activities	C	Section 4.11.1
MS1237: B15-5		The Local Offset Environmental Management Plan must include the implementation of the offset measures to the extent and at the locations as set out and described in Table 1 (of MS1237)	Prepare LOEMP in accordance with the requirements to include the location described in Table 1	LOEMP	Overall	Before commencing ground disturbing activities	C	Table 4-35 Table 4-36
MS1237: B15-6		The Local Offset Environmental Management Plan shall: (1) demonstrate that the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) will be met; (2) describe how the offset measures will be implemented consistent with condition B15-5; (3) be prepared in consultation with DBCA; (4) spatially identify the areas (Proposed Local Offset Conservation Areas) in condition B15-5 proposed as: (a) acquired lands offset areas; (b) acquired lands offset areas to receive on-ground management offset measures; (5) demonstrate how the environmental values within the Proposed Local Offset Conservation Areas will be maintained, enhanced, managed and restored in order to counterbalance the significant residual impacts to the environmental values in condition B15-1 and achieve the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4); (6) demonstrate application of the principles of the WA Environmental Offsets Policy and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents (7) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4), will periodically be made publicly available; (8) for the land acquisition offsets identified in condition B15-5: (a) demonstrate that the Proposed Local Offset Conservation Areas contain the minimum extents of the environmental values identified in condition B15-5;	Prepare LOEMP in accordance with the requirements	LOEMP Offset biological surveys	Overall	Before commencing ground disturbing activities	C	LOEMP Section 4.11.1

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(b) identify how the Proposed Local Offset Conservation Areas will be protected, being either the sites are ceded to the Crown for the purpose of management for conservation, or the sites are managed under other suitable mechanism for the purpose of conservation; (c) specify the quantum of works associated with establishing the Proposed Local Offset Conservation Areas including for maintaining the offset for at least twenty (20) years; and (d) identify the relevant management body for the on-going management of the Proposed Local Offset Conservation Areas, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role. (9) For on-ground management offsets identified in condition B15-5: (a) state the targets for each environmental value to be achieved by the on-ground management, including completion criteria, which will result in a tangible improvement to the environmental values being offset, including, but not limited to: (i) black cockatoo foraging within eight (8) years of restoration; (ii) chuditch, western ringtail possum and quokka presence within 10 years of restoration; (iii) red-tailed phascogale presence within 20 years of restoration; (iv) numbat presence within 20 years of restoration where that restoration could support the population(s) identified in accordance with condition B13-3(2); (v) completion criteria to measure (at a minimum) species diversity, abundance/distribution, habitat structure and vegetation condition; (vi) adaptive management to inform successful restoration; and (vii) use of artificial breeding hollows by black cockatoos (b) demonstrate the consistency of the targets with the environmental outcomes and objectives in conditions B15-2(1), B15-2(2) and B15-2(4) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; and (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-6(9)(a) and the requirement of condition B15-3. (10) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-6(9)(a) and condition B15-6(9)(c)						
MS1237: B15-7	Regional Offset Environmental Management Plan	The proponent must prepare a Regional Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-2(3) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.	Prepare ROEMP and submit to the CEO	ROEMP EO submission receipt (or other evidence of submission)	Overall	Before 20 December 2029	NR	Currently not required at this stage/ Section 4.11.2
MS1237: B15-8		The Regional Offset Environmental Management Plan must: (1) demonstrate that the environmental outcomes and objectives in condition B15-2(3) will be met; (2) spatially identify the areas, (the Proposed Regional Offset Conservation Areas) to be acquired for on-ground management; (3) demonstrate how the environmental values within the Proposed Regional Offset Conservation Areas will be maintained, enhanced, managed and restored in order to achieve the environmental outcomes and objectives in condition B15-2(3); (4) demonstrate application of the principles of the WA Environmental Offsets Policy, the EPA's public advice 'Considering environmental offsets at a regional scale' and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (5) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in condition B15-2(3), will periodically be made publicly available; (6) identify how the Proposed Regional Offset Conservation Areas to be acquired will be protected, being either the sites are ceded to the Crown for the purpose of management for conservation, or the sites are managed under other suitable mechanism for the purpose of conservation; (7) for offsets acquired specify: (a) a timeframe and works associated with establishing the Proposed Regional Offset Conservation Areas, including a contribution for maintaining the offset for at least twenty (20) years from commencement of on-ground management; and	Prepare ROEMP in accordance with the requirements	ROEMP	Overall	Before 20 December 2029	NR	Currently not required at this stage. Section 4.11.2

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		(b) identify the relevant management body for the on-going management of the Proposed Regional Offset Conservation Areas, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role. (8) where on-ground management is proposed: (a) state the targets for each environmental value to be achieved, including completion criteria, which will result in a tangible improvement to the environmental values being offset, including but not limited to: (i) completion criteria to measure (at a minimum) species diversity, abundance/distribution, habitat structure and vegetation condition; and (ii) adaptive management to inform successful restoration. (b) demonstrate the consistency of the targets with environmental outcomes and objectives in condition B15-2(3) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-8(8); and (d) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-8(8) and condition B15-8(8)(c).						
MS1237: B15-9	Woylie Offset Environmental Management Plan	The proponent must prepare a Woylie Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-2(5) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.	Prepare WOEMP and submit to the CEO	WOEMP EO submission receipt (or other evidence of submission)	Overall	Before 20 December 2026	NR	Section 4.11.3
MS1237: B15-10		The Woylie Offset Environmental Management Plan shall: (1) be prepared in consultation with DBCA; (2) spatially identify the area(s) to receive on-ground management offset measures (the Proposed Woylie Offset Conservation Area); (3) demonstrate how the environmental values within the Proposed Woylie Offset Conservation Area will be maintained, enhanced, managed and restored in order to achieve the environmental outcomes and objectives in condition B15-2(5); (4) demonstrate application of the principles of the WA Environmental Offsets Policy and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (5) identify how the ongoing performance of the offset measures, and whether they are achieving the outcomes and objectives in condition B15-2(5), will periodically be made publicly available; (6) identify how the Proposed Woylie Offset Conservation Area will be protected, being either ceded to the Crown for the purpose of management for conservation, or managed under other suitable mechanism for the purpose of conservation; (7) identify a timeframe and works associated with establishing the Proposed Woylie Offset Conservation Area, including a contribution for maintaining the offset for at least twenty (20) years from commencement of on-ground management; (8) identify the relevant management body for the on-going management of the Proposed Woylie Offset Conservation Area, including its role, and the role of the proponent, and confirmation in writing that the relevant management body accepts responsibility for its role; (9) where on-ground management is proposed: (a) state the targets for each environmental value to be achieved, including completion criteria, which will result in a tangible improvement to the environmental values being offset; (b) demonstrate the consistency of the targets with environmental outcomes and objectives in condition B15-2(5) and the objectives of any relevant guidance, including but not limited to, recovery plans or area management plans; (c) detail the on-ground management actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B15-10(9)(a); and (d) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B15-10(9)(a) and condition B15-10(9)(c).	Prepare WOEMP in accordance with the requirements	WOEMP	Overall	Before 20 December 2026	NR	Section 4.11.3
MS1237: B15-11	Research Offset Environmental Management Plan	The proponent must prepare a Research Offset Environmental Management Plan that demonstrates how the environmental outcomes and objectives in condition B15-	Prepare a REPM and submit to the CEO	REPM	Overall	Before 20 December 2026	NR	Section 4.11.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		2(6) will be achieved, and how this achievement will be substantiated, and submit it to the CEO.		EO submission receipt (or other evidence of submission)				
MS1237: B15-12		The Research Offset Environmental Management Plan shall: (1) identify the objectives and intended outcomes, and specify the deliverables and completion criteria; (2) identify how the research will result in a positive conservation outcome, and will either improve management and protection or address priority knowledge gaps that have been identified as a research priority needed to improve management and protection of the ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub-region; (3) demonstrate the consistency of the objectives in condition B15-12(1) with any relevant guidance, including but not limited to, recovery plans or area management plans, the principles of the WA Environmental Offsets Policy, and the Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy, or any subsequent revisions of these documents; (4) identify and justify how the research will support land acquired and/or on-ground management in achieving a positive conservation outcome; (5) provide an implementation and reporting schedule, including an outline of key activities, all deliverables, stages of implementation, reporting of research results (including interim results), reporting on implementation status, and milestones towards completion criteria; (6) identify the governance arrangements including responsibilities for implementing, and oversight of, the research program, agreements with government agencies, agreements with any third parties, and contingency measures; (7) identify the resources allocated to the research program; (8) identify how a research program summary, and the results (including interim results) of the research program will be communicated and/or published in an open access format; and (9) identify the third party (or third-parties) to carry out the work required to meet the outcomes of condition B15-12(1), who is satisfactory for the role to the CEO. In applying to the CEO for endorsement of the selected third parties, the proponent shall provide demonstration of the track record, experience, qualifications and competencies of the proposed third party to carry out the work and achieve the outcomes.	Prepare REMP in accordance with the requirements	REMP	Overall	Before 20 December 2026	NR	Section 4.11.4
MS1237: B16-1	Inland Waters – PAA	The proponent shall ensure the implementation of the proposal achieves the following environmental outcomes: (1) no adverse impacts to conservation significant flora, fauna or ecological communities as a result of surface and/or groundwater changes attributable to the proposal; (2) no adverse impacts to native vegetation within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal; (3) no adverse impacts to the hydrological regimes and water quality of the Hotham River, Marradong Brook, Augustus River, Murray River, Williams River and Thirty-Four Mile Brook attributable to the proposal; (4) no adverse impacts to groundwater dependent ecosystems within or adjacent to the PAA as a result of surface and/or groundwater changes attributable to the proposal; (5) no disturbance or adverse impacts to native vegetation within 30 m of the Augustus River bank attributable to the proposal; (6) No adverse impacts to neighbouring groundwater users as a result of the proposal.	Implement the Water Management Plan (WMP) Report on compliance with the WMP in the CAR	CAR Biological surveys Water monitoring (including groundwater and surface water) Triennial aquifer review Annual Refinery Water Report	Overall	30 September annually	C	Section 4.7
MS1237: B16-2		The proponent must review and update the Water Management Plan (South32 Worsley Alumina Version 5.4), that satisfies the requirements of condition C4 and demonstrates how achievement of the outcomes in condition B16-1 and B12-1(2)(a) and B12-1(2)(b) will be monitored and substantiated and submit for approval to the CEO prior to implementation of the proposal.	Review and update the WMP. Submit revised version for approval to the CEO prior to commencing ground disturbing activities	WMP EO submission receipt (or other evidence of submission) Approval by the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.7.1 Appendix 4: Environmental Management Plans – Letters of Approval
MS1237: B17-1	Terrestrial Environmental Quality - PAA	The proponent must ensure the implementation of the proposal achieves the following environmental objective: 1) maintain the quality of land and soils so that environmental values are protected.	Implement the CEMP & WMP Report on compliance to the CEMP & WMP in the CAR	CAR Water monitoring results and reports Acid Sulfate soils monitoring in accordance with the CEMP	Overall	30 September annually	C	Section 4.8NR

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status*	Further Information
MS1237: B17-2		The proponent must ensure the implementation of the proposal achieves the following outcomes: (1) ensure no acid sulfate soil contamination within the PAA or elsewhere attributable to the proposal; (2) ensure no secondary salinity occurs within the PAA or elsewhere attributable to the proposal; and (3) ensure soil compaction and soil quality is remediated as part of rehabilitation and mine closure activities, in line with timing requirements outlined in condition B14 and B2.	Implement the proposal in accordance with the CEMP, WMP & MCP Report on compliance to the CEMP, WMP & MCP in the CAR	CAR Water monitoring results and reports Acid sulfate soils monitoring in accordance with the CEMP Rehabilitation monitoring	Overall	30 September annually	NR	Section 4.8.2
MS1237: B17-3		The proponent must review and update the Construction Environmental Management Plan (South 32 Worsley Alumina Version 0, WOR-71183-FS-PM-PLN-0004), that satisfies the requirements of condition C4 and demonstrates how achievement of terrestrial environmental quality outcomes in condition B17-2 will be monitored and substantiated and how the environmental objective in condition B17-1 will be achieved, and submit for approval to the CEO prior to implementation of the proposal.	Review and update the CEMP. Submit revised version for approval to the CEO prior to commencing ground disturbing activities	CEMP EO submission receipt (or other evidence of submission) Approval by the CEO	Overall	Prior to commencing ground disturbing activities	C	Section 4.8.1 Appendix 4: Environmental Management Plans – Letters of Approval
MS1237: B18-1	Social Surroundings (Aboriginal Heritage) - PAA	The proponent must ensure the implementation of the proposal achieves the following outcomes: no disturbance to Aboriginal heritage sites within the PAA unless approval is granted to disturb that site under the Aboriginal Heritage Act 1972 and has involved reasonable steps to consult with the GKB AC; and subject to reasonable health and safety requirements, no interruption of ongoing access to land utilised for traditional use or custom by the GKB AC.	Conduct surveys to identify Aboriginal Heritage in accordance with the NSHA Submit applications under the AHA for any disturbance, with prior consultation with the GKBAC in accordance with the NSHA Report surveys in the CAR including a summary of findings and report AHA applications	CAR If required – relevant section 18 applications. Confidential review of surveys	Overall	30 September annually	C	Section 4.9.1
MS1237: B18-2		The proponent must implement the proposal to meet the following environmental objective: avoid, where possible, and otherwise minimise adverse impacts to Aboriginal heritage within and surrounding the PAA; and ongoing consultation and engagement with the GKB AC about the achievement of the outcomes and objectives in condition B18-1 and condition B18-2(1) for the life of the proposal.	Conduct surveys to identify Aboriginal Heritage in accordance with the NSHA Report surveys in the CAR including a summary of findings	CAR	Overall	30 September annually	C	Section 4.9.2 Section 4.9.3
MS1237: B18-3		Prior to ground disturbing activities, the proponent must identify Aboriginal heritage for all areas proposed to be cleared or indirectly impacted by the proposal in consultation with the GKB AC.	Undertake surveys for activities in accordance with NSHA Report surveys in the CAR	CAR	Overall	30 September annually	C	Section 4.9.1
MS1237: B18-4		The proponent must undertake appropriate engagement with the GKB AC on the Mine Closure Plan(s) required under condition B3-1, at least three (3) months before it is submitted to the CEO.	Engage the GKBAC on development of the Mine Closure Plan, include record of engagement in MCP	Mine Closure Plan	Overall	Within 9 months after the date of MS1237 (30 Sept 2026)	C	Section 4.9.3
MS1237:C1-1	Environmental Management Plans & Monitoring	The proponent must not undertake ground disturbing activities until the CEO has confirmed in writing that the management plans required by conditions B12-6, B13-7, B15-4, B16-2 and B17-3 meet the requirements of those conditions, or as otherwise agreed by the CEO.	Submit WMP, FVEMP, CSFMP, LOEMP & CEMP for approval and do not commence ground disturbing activities until the CEO has confirmed in writing they meet the requirements. Report commencement in CAR	Management Plans EO submission receipt (or other evidence of submission) Written confirmation from CEO CAR	Overall	Prior to commencement of Ground disturbing activities CAR – 30 September annually	C	Appendix 4: Environmental Management Plans – Letters of Approval
MS1237:C1-2		The Mine Closure Plan(s) required by condition B3-1 must be prepared and submitted for approval within twelve (12) months of the date of this Statement, or as otherwise agreed by the CEO.	Submit Mine Closure Plan within 12 months of the date of the Statement	Mine Closure Plan, including submission letter / EO submission receipt (or other evidence of submission)	Overall	Within 12 months of the date of the Statement	NR	Section 4.12NR
MS1237:C1-3		If the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan required by conditions B15-7, B15-9 and B15-11 respectively have not been submitted for approval by the CEO in the case of the Woylie Offset Environmental Management Plan and the Research Offset Environmental Management Plan, within two (2) years, and in the case of the Regional Offset Environmental Management Plan, within five (5) years of the date of this Statement, all construction activities are to cease immediately. Construction activities may only recommence after the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan are submitted for approval by the CEO, or as otherwise agreed by the CEO.	Submit REMP & WOEMP within 2 years of the date of MS1237; submit ROEMP within 5 years of the date of MS1237	REMP & WOEMP, including submission letter / EO submission receipt (or other evidence of submission) ROEMP, including submission letter / EO submission receipt (or other evidence of submission)	Overall	20 December 2026 20 December 2029	NR	Sections 4.11.2, 4.11.3, 4.11.4
MS1237:C1-4		If, within three (3) years in the case of the Woylie Offset Environmental Management Plan and the Research Offset Environmental Management Plan, and within six (6) years in the case of the Regional Offset Environmental Management Plan, of the date of this Statement, the CEO has not confirmed that the respective plans meet the	Engage to have EMP’s approved	Written notification from the CEO that the REMP & WOEMP are approved	Overall	20 December 2027 20 December 2030	NR	Section 4.11.3, 4.11.4

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		requirements of conditions B15-8, B15-10 and B15-12 respectively, all construction activities are to cease immediately. Construction activities may only restart after the CEO notifies the proponent that the Regional Offset Environmental Management Plan, Woylie Offset Environmental Management Plan and Research Offset Environmental Management Plan meet the requirements of conditions B15-8, B15-10 and B15-12 respectively, or as otherwise agreed by the CEO.		Written notification from the CEO that the ROEMP is approved				
MS1237:C2-1		Upon being required to implement the plan(s) under conditions B3-1, B13-7, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3, or after receiving notice in writing from the CEO that the plan(s) required under conditions B3-1, B12-6, B13-7, B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 satisfies the relevant requirements, the proponent must: (1) implement the most recent version of the confirmed plan; and (2) continue to implement the confirmed plan referred to in condition C2-1(1), other than for any period which the CEO confirms by notice in writing that it has been demonstrated that the relevant requirements for the plan have been met, or are able to be met under another statutory decision-making process, in which case the implementation of the plan is no longer required for that period.	Report on implementation of the EMP's in the CAR	CAR	Overall	30 September annually	C	Sections 4.12, 4.12, 4.6.1, 4.11.1, 4.11.2, 4.11.3, 4.11.4, 4.7.1, 4.8.1
MS1237:C2-2		The proponent: (1) may review and revise a confirmed plan provided it meets the relevant requirements of that plan, including any consultation that may be required when preparing the plan; (2) must review and revise a confirmed plan and ensure it meets the relevant requirements of that plan, including any consultation that may be required when preparing the plan, as and when directed by the CEO; and (3) must revise and submit to the CEO the confirmed plan if there is a material risk that the outcomes or objectives it is required to achieve will not be complied with, including but not limited to as a result of a change to the proposal.	Review confirmed EMP's as required/requested	Revised EMP EO submission receipt (or other evidence of submission)	Overall	As required	C	FVMP only – section 4.5.1
MS1237:C2-3		Despite condition C2-1, but subject to conditions C2-4 and C2-5, the proponent may implement minor revisions to a plan if the revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the plan is required to achieve.	Implement minor changes in accordance with the requirement of C2-4 & C2-5		Overall	As required	C	FVMP only – section 4.5.1
MS1237:C2-4		If the proponent is to implement minor revisions to a plan under condition C2-3, the proponent must provide the CEO with the following at least twenty (20) business days before it implements the revisions: (1) the revised plan clearly showing the minor revisions; (2) an explanation of and justification for the minor revisions; and (3) an explanation of why the minor revisions will not result in new or increased adverse impacts to the environment or result in a risk to the achievement of the limits, outcomes or objectives which the plan is required to achieve.	Update EMP with minor revisions	Marked up EMP with minor revisions Letter of explanation of minor revisions Letter of submission / EO submission receipt (or other evidence of submission)	Overall	20 business days prior to implementing minor revisions	C	Minor revisions were only made to the FVMP over the reporting period Section
MS1237:C2-5		The proponent must cease to implement any revisions which the CEO notifies the proponent (at any time) in writing may not be implemented.	Include in the CAR	Notification from CEO CAR	Overall	As required	NR	No request to cease operations
MS1237:C2-6		Confirmed plans, and any revised plans under condition C2-4(1), must be published on the proponent's website and provided to the CEO in electronic form suitable for on- line publication by the Department of Water and Environmental Regulation within twenty (20) business days of being implemented, or being required to be implemented (whichever is earlier).	Publish EMP's and minor revisions on South32 web page	EMP's available on web page	Overall	Within 20 business days of being implemented, or being required to be implemented (whichever is earlier)		
MS1237:C3-1	Conditions Related to Monitoring	The proponent must undertake monitoring capable of: (1) substantiating whether the proposal limitations and extents in Part A are exceeded; and (2) detecting and substantiating whether the environmental outcomes identified in Part B are achieved (excluding any environmental outcomes in Part B where a plan is expressly required to monitor achievement of that outcome).	Undertake appropriate monitoring	CAR	Overall	30 September annually	C	Section 4.13
MS1237:C3-2		The proponent must submit as part of the Compliance Assessment Report required by condition D2, a compliance monitoring report that: (1) outlines the monitoring that was undertaken during the implementation of the proposal; (2) identifies why the monitoring was capable of substantiating whether the proposal limitation and extents in Part A are exceeded; (3) for any environmental outcomes to which condition C3-1(2) applies, identifies why the monitoring was scientifically robust and capable of detecting whether the environmental outcomes in Part B are met; (4) outlines the results of the monitoring;	Submit a CAR that includes all listed information	CAR	Overall	30 September annually	C	Section 4.13

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		(5) reports whether the proposal limitations and extents in Part A were exceeded and (for any environmental outcomes to which condition C3-1 (2) applies) whether the environmental outcomes in Part B were achieved, based on analysis of the results of the monitoring; and (6) reports any actions taken by the proponent to remediate any potential non-compliance.						
MS1237:C4-1		The plans required under conditions B3-1, B12-6, B13-7,B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 must contain provisions which enable the substantiation of whether the relevant outcomes of those conditions are met, and must include: (1) threshold criteria that provide a limit beyond which the environmental outcomes are not achieved; (2) trigger criteria that will provide an early warning that the environmental outcomes are not likely to be met; (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure threshold criteria and trigger criteria. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future; (4) baseline data; (5) data collection and analysis methodologies; (6) adaptive management methodology; (7) contingency measures which will be implemented if threshold criteria or trigger criteria are not met; and (8) reporting requirements.	Required management plans include the criteria required	Approved Management Plans	Overall	Prior to commencement of ground disturbing activities	C	Section 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.10.3, 4.11.1, 4.11.2, 4.11.3, 4.11.4.
MS1237:C4-2		The environmental management plan required under condition B16-2 requires a Groundwater Dependent Ecosystem Monitoring Framework that establishes: (1) identification of all areas of groundwater dependent ecosystems and <i>Caladenia hopperiana</i> and <i>Caladenia caesarea</i> subsp. Mooradung individuals that have the potential to be impacted by the proposal; (2) baseline groundwater monitoring of levels and quality, at groundwater dependent ecosystem locations and <i>Caladenia hopperiana</i> and <i>Caladenia caesarea</i> subsp. Mooradung locations, for not less than twelve (12) months, that addresses, but is not limited to, the following parameters: (a) groundwater levels; (b) electrical conductivity or salinity; (c) pH; (d) nutrient levels (nitrogen and phosphorus); (e) total dissolved solids; and (f) dissolved metals. (3) comparison of monitoring results against comparable regional reference sites, to: (a) distinguish regional climate/drying effects from proposal effects; and (b) provide context for mounding and dryland salinity that may be caused by the proposal. (4) a monitoring procedure for water quality and groundwater levels, and schedule, for the identified locations of groundwater dependent ecosystems and <i>Caladenia hopperiana</i> and <i>Caladenia caesarea</i> subsp. Mooradung individuals; and (5) whether the trigger and threshold levels contained within the Water Management Plan (South32 Worsley Alumina Version 5.4) and any revisions approved under B16-2 are suitable to meet the outcomes.	Include a Groundwater Dependent Ecosystem Monitoring Framework as part of the Water Management Plan	Approved Water Management Plan	Overall	Prior to commencement of ground disturbing activities	C	WMP Section 4.7.1
MS1237:C4-3		The environmental management plan required under condition B12-6 shall include: (1) annual monitoring of <i>Caladenia hopperiana</i> and <i>Caladenia caesarea</i> subsp. Mooradung individuals in the PAA. Monitoring is to be undertaken by appropriate botanists with demonstrated experience in orchid surveys in the bioregion. Monitoring shall address, but is not limited to, the following parameters: (a) numbers of individuals; (b) plant health; and (c) vegetation condition. (2) comparison of monitoring results against: (a) the preceding year; and (b) the baseline.	Include the required criteria in the Flora and Vegetation Management Plan	Flora and Vegetation Management Plan	Overall	Prior to commencement of ground disturbing activities	C	FVMP Section 4.5.1

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status*	Further Information
		(3) For disturbance or adverse impacts to priority flora in condition B12-1(3), a trigger criteria that is less than: (a) 8% for the known population of <i>Gastrolobium</i> sp. Prostrate Boddington; (b) 10% where more than 100 individuals have been recorded or 2% where less than 100 individuals have been recorded for the known population of <i>Hibbertia ambita</i> ; and (c) 2% of the known population of <i>Halgania corymbosa</i> , until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population of <i>Halgania corymbosa</i> . (4) For disturbance or adverse impacts to priority flora in condition B12-1(3), a threshold criteria of: (a) 8% for the known population of <i>Gastrolobium</i> sp. Prostrate Boddington; (b) 10% where more than 100 individuals have been recorded or 2% where less than 100 individuals have been recorded for the known population of <i>Hibbertia ambita</i> ; and (c) 2% of the known population of <i>Halgania corymbosa</i> , until it can be demonstrated that more than 100 individuals have been recorded, in which case 10% of the known population of <i>Halgania corymbosa</i> .						
MS1237:C4-4		Without limiting condition C3-1, failure to achieve an environmental outcome, or the exceedance of a threshold criteria, regardless of whether threshold contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Include non-compliances in the CAR	CAR	Overall	30 September annually	NC	Section 5
MS1237:C5-1		The plans required under conditions B3-1,B12-6, B13-7, B14-3, B15-4, B15-7, B15-9, B15-11, B16-2 and B17-3 must contain provisions which enable the achievement of the relevant objectives of those conditions and substantiation of whether the objectives are reasonably likely to be met, and must include: (1) management actions; (2) management targets; (3) contingency measures if management targets are not met and (4) reporting requirements.	Draft and have management plans approved which include the required criteria	Management Plans	Overall	Prior to commencement of ground disturbing activities		Section 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.10.3, 4.11.1, 4.11.2, 4.11.3, 4.11.4.
MS1237:C5-2		Without limiting condition C2-1, the failure to achieve an environmental objective, or implement a management action, regardless of whether contingency measures have been or are being implemented, represents a non-compliance with these conditions.	Include non-compliances in the CAR	CAR	Overall	30 September annually	C	Section 4.5.1, 4.6.1, 4.7.1, 4.8.1, 4.10.3, 4.11.1, 4.11.2, 4.11.3, 4.11.4.
MS1237:D1-1	Non Compliance Reporting	If the proponent becomes aware of a potential non-compliance, the proponent must: (1) report this to the CEO within seven (7) days; (2) implement contingency measures; (3) investigate the cause; (4) investigate environmental impacts; (5) advise rectification measures to be implemented; (6) advise any other measures to be implemented to ensure no further impact; and (7) provide a report to the CEO within twenty-one (21) days of being aware of the potential non-compliance, detailing the measures required in conditions D1-1(1) to D1-1(6) above.	Notify the CEO of potential non-compliances in writing Provide a report to the CEO	Written notification Non-compliance report	Overall	Notification within 7 days of becoming aware of a potential non compliance Report within 21 days of becoming aware of the potential non-compliance	NC	Section 5
MS1237:D1-2		Failure to comply with the requirements of a condition, or with the content of an environmental management plan required under a condition, constitutes a non-compliance with these conditions, regardless of whether the contingency measures, rectification or other measures in condition D1-1 above have been or are being implemented.	Include non-compliances in CAR	CAR	Overall	30 September annually	NC	Section 5
MS1237:D2-1	Compliance Reporting	The proponent must provide an annual Compliance Assessment Report to the CEO for the purpose of determining whether the implementation conditions are being complied with.	Provide a CAR to the CEO annually	CAR	Overall	30 September annually	C	This report Section 4.14.3
MS1237:D2-2		Unless a different date or frequency is approved by the CEO, the first annual Compliance Assessment Report must be submitted within fifteen (15) months of the date of this Statement, and subsequent reports must be submitted annually from that date.	Submit a CAR within required timeframe reporting on the previous twelve (12) months	CAR	Overall	30 September annually	C	This report, submitted by 30 Sept 2025 Section 4.14.3
MS1237:D2-3		Each annual Compliance Assessment Report must be endorsed by the proponent's Chief Executive Officer, or a person approved by proponent's Chief Executive Officer to be delegated to sign on the Chief Executive Officer's behalf.	Ensure CAR is endorsed by Proponents CEO or delegate	Endorsement included in the CAR	Overall	30 September annually	C	Page 4

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MS1237:D2-4		Each annual Compliance Assessment Report must: (1) state whether each condition of this Statement has been complied with, including: (a) exceedance of any proposal limits and extents; (b) achievement of environmental outcomes; (c) achievement of environmental objectives; (d) requirements to implement the content of environmental management plans; (e) monitoring requirements; (f) implement contingency measures; (g) requirements to implement adaptive management; and (h) reporting requirements; (2) include the results of any monitoring (inclusive of any raw data) that has been required under Part C in order to demonstrate that the limits in Part A, and any outcomes or any objectives are being met; (3) provide evidence to substantiate statements of compliance, or details of where there has been a non-compliance; (4) include the corrective, remedial and preventative actions taken in response to any potential non-compliance; (5) be provided in a form suitable for publication on the proponent's website and online by the Department of Water and Environmental Regulation; and (6) be prepared and published consistent with the latest version of the Compliance Assessment Plan required by condition D2-5 which the CEO has confirmed by notice in writing satisfies the relevant requirements of Part C and Part D.	Submit a CAR within required timeframe reporting on the previous twelve (12) months	CAR	Overall	30 September annually	C	This document
MS1237:D2-5		The proponent must prepare a Compliance Assessment Plan which is submitted to the CEO at least six (6) months prior to the first Compliance Assessment Report required by condition D2-2, or prior to implementation of the proposal, whichever is sooner.	Submit a Compliance Assessment Plan (CAP)	CAP	Overall	Prior to implementation of the Proposal	C	Section 4.14.2
MS1237:D2-6		The Compliance Assessment Plan must include: (1) what, when and how information will be collected and recorded to assess compliance; (2) the methods which will be used to assess compliance; (3) the methods which will be used to validate the adequacy of the compliance assessment to determine whether the implementation conditions are being complied with; (4) the retention of compliance assessments; (5) the table of contents of Compliance Assessment Reports, including audit tables; and (6) how and when Compliance Assessment Reports will be made publicly available, including usually being published on the proponent's website within sixty (60) days of being provided to the CEO.	Submit CAP	CAP	Overall	Prior to implementation of the Proposal	C	Section 4.14.2
MS1237:D3-1	Contact Details	The proponent must notify the CEO of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.	Notify the CEO in writing of any change to proponent details	Copy of written notification to CEO of any change in proponent details	Overall	Within twenty-eight (28) days of such a change	NR	Not required at this stage. Section 4.14.1
MS1237:D4-1	Time Limit For Proposal Implementation	Implementation of the proposal within the extended mining areas must be substantially commenced within fifteen (15) years from the date of this Statement.	Provide evidence to the CEO in writing to demonstrate that the proposal has substantially commenced	CAR	EMAs	Within 15 years from the date of the Statement	NR	Section 4.4.9
MS1237:D4-2		The proponent must provide to the CEO documentary evidence demonstrating that they have complied with condition D4-1 no later than fourteen (14) days after the expiration of the period specified in condition D4-1.	Notify the CEO in writing that activity in the EMAs has substantially commenced	Copy of written notification to the CEO of substantial commencement	EMAs	Within 14 days of the expiration of 15 years from the date of the statement	NR	
MS1237:D4-3		If the proposal within the extended mining areas has not been substantially commenced within the period specified in condition D4-1, implementation of the proposal within the extended mining areas must not be commenced or continued after the expiration of that period.	Commence mining activities in the Extended Mining Areas within 15 years of the date of the statement or do not commence the activities	CAR	EMAs	Within 15 years of the date of the statement	NR	
MS1237:D5-1	Public Availability of Data	Subject to condition D5-2, within a reasonable time period approved by the CEO upon the issue of this Statement and for the remainder of the life of the proposal, the proponent must make publicly available, in a manner approved by the CEO, all validated environmental data collected before and after the date of this Statement relevant to the proposal (including sampling design, sampling methodologies, monitoring and other empirical data and derived information products (e.g. maps)),	All environmental management plans, data and reports required by MS1237 are made publicly available	CAR	Overall	For life of the of the proposal as approved by the CEO	C	Section 4.14.4

AUDIT CODE	SUBJECT	REQUIREMENT	HOW	EVIDENCE	PHASE	TIMEFRAME	STATUS*	FURTHER INFORMATION
		environmental management plans and reports relevant to the assessment of this proposal and implementation of this Statement.						
MS1237:D5-2		If any data referred to in condition D5-1 contains trade secrets or any data referred to in condition D5-1 contains particulars of confidential information (other than trade secrets) that has commercial value to a person that would be, or could reasonably be expected to be, destroyed or diminished if the confidential information were published, the proponent may submit a request for approval from the CEO to not make this data publicly available and the CEO may agree to such a request if the CEO is satisfied that the data meets the above criteria. In making such a request the proponent must provide the CEO with an explanation and reasons why the data should not be made publicly available.	Letter to CEO requesting not to make sensitive data publicly	Written letter to the CEO Written approval from CEO to exclude data from public availability	Overall	As required	C	Section 4.14.4
MS1237:D5-1	Independent Audit	The proponent must arrange for an independent audit of compliance with the conditions of this statement, including achievement of the environmental outcomes and/or the environmental objectives and/ or environmental performance with the conditions of this statement, as and when directed by the CEO	Independent Audit Report prepared	Independent Audit Report	Overall	As required	C	Section 4.14.5
MS1237:D5-2		The independent audit must be carried out by a person with appropriate qualifications who is nominated or approved by the CEO to undertake the audit under condition D6-1.	Qualified auditor engaged	Qualifications & Experience of the Independent Auditor included within the report	Overall	As required	C	Section 4.14.5
MS1237:D5-3		The proponent must submit the independent audit report with the Compliance Assessment Report required by condition D2, or at any time as and when directed in writing by the CEO. The audit report is to be supported by credible evidence to substantiate its findings.	Submission of independent audit report	Independent Audit Report	Overall	As required	C	Section 4.14.5
MS1237:D5-4		The independent audit report required by condition D6-1 is to be made publicly available in the same timeframe, manner and form as a Compliance Assessment Report, or as otherwise directed by the CEO.	Independent audit report to be made publicly available	Audit report is available on South32 Website with relevant CAR	Overall	Within 60 days of being provided to the CEO	C	Section 4.14.5
* Status Description include: - Compliant (C) - Completed (CLD) - Not required at this stage (NR) - Potentially Non-compliant (PNC) - Non-compliant (NC) - Not Audited (NA) (for DWER use only) - Verification Required (VR) (for DWER use only)								

6.2 EPBC 2019/8437 AUDIT TABLE

Table 6-2 EPBC 2019/8437 Compliance Audit Table

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
1	The approval holder must not, in the implementation of the Action after the date of this approval:		
1(a)	a) Clear outside the Action Area (except where carried out under other approvals or as required or permitted under legislation).	Compliant	Figure 4-1
1(b)	b) Construct outside the Action Area (except where carried out under other approvals or as required or permitted under legislation).	Compliant	Figure 4-1
1(c)	c) Clear more than a total of 146.5 hectares (ha) of native vegetation in ecological linkages.	Compliant	Table 4-10
1(d)	d) Clear native vegetation in the protected areas except where approved by the department or where it occurs in the course of:	Compliant	4.5.4
1(d) i	I. ecological restoration or rehabilitation activities;	Compliant	4.5.4
1(d) ii	II. maintenance and decommissioning of infrastructure within the protected areas;	Compliant	4.5.4
1(d) iii	III. environmental monitoring activities (including installation and decommissioning of monitoring equipment and sites); or	Compliant	4.5.4
1(d) iv	IV. activities carried out to ensure compliance with legislation or approvals (including the conditions of this approval).	Compliant	4.5.4
2	The approval holder must not, in the implementation of the Action after the date of this approval clear more than a total of 1,679 ha of degraded and cleared agricultural land, 74 ha of plantation vegetation and 604 ha of rehabilitation vegetation.	Compliant	4.5.2 Table 4-4-
3	The approval holder must not, in the implementation of the Action after the date of this approval, clear more than:		
3(a)	a) 1,338 ha of native vegetation within the first five years following commencement of the Action (Mining Tranche 1).	Compliant	4.5.2.2
3(b)	b) 2,517 ha of native vegetation in the period between 5 and 15 years following commencement of the Action (Mining Tranche 2 and 3).	Not Applicable	
4	The approval holder must comply with condition B12-5 of the Western Australia Approval and ensure that an independent, suitably qualified orchid expert conduct targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of <i>Caladenia hopperiana</i> individuals.	Compliant	4.5.3
5	The approval holder must ensure that an independent, suitably qualified orchid expert conduct targeted pre-clearance surveys of the Action Area in line with survey guidelines to obtain baseline data of the presence, location and abundance of <i>Diuris micrantha</i> and <i>Pultenaea pauciflora</i> individuals	Compliant	4.5.3
6	The approval holder must comply with condition B12-1(2)(a) of the Western Australia Approval and not harm any known <i>Caladenia hopperiana</i> individual or populations within the Action Area	Compliant	4.5.2
7	Prior to clearing commencing, the approval holder must establish an avoidance area around all identified <i>Caladenia hopperiana</i> individuals and populations within the Action Area identified at Attachment I and during the pre-clearance surveys.	Compliant	4.5.4
8	The approval holder must not clear, construct, cause minor disturbance or undertake any other aspect of the Action that may cause harm to any flora protected matter within any avoidance area established in accordance with condition 7. The approval holder must not harm any <i>Diuris micrantha</i> or <i>Pultenaea pauciflora</i> individual or population within the Action Area.	Compliant	4.5.4
9	Prior to commencing clearing, the approval holder must establish an avoidance area around all <i>Diuris micrantha</i> and <i>Pultenaea pauciflora</i> individuals and populations within the Action Area identified in the pre-clearance surveys.	Compliant	4.5.4
10	The approval holder must comply with condition B13-4 of the Western Australia approval to the extent that it relates to protected matters.		4.6.3
11	The approval holder must not after the date of this approval clear more than 24 known black cockatoo breeding trees or previously recorded black cockatoo breeding trees.	Compliant	4.6.3
12	Prior to commencing clearing, the approval holder must establish a hollow avoidance area around every known black cockatoo breeding tree and previously recorded black cockatoo breeding tree within the Action Area (other than the up to 24 trees that may be cleared in accordance with condition 11).	Compliant	4.6.3
13	To avoid and minimise impacts on black cockatoos, other than as permitted under condition 11, the approval holder must:		
13(a)	a) Not harm any known black cockatoo breeding trees or previously recorded black cockatoo breeding trees and	Compliant	4.6.3
13(b)	b) Not harm, clear or construct within any hollow avoidance area.	Compliant	Figure 4-3

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
14	The approval holder must comply with condition B13-5 of the Western Australia Approval. The approval holder must publish the information required under condition B13-5 of the Western Australia Approval and the avoidance determinations made under condition 13 of this approval annually on the website.	Compliant	4.6.3
15	The approval holder must undertake ongoing monitoring during each breeding season of the previously recorded black cockatoo breeding trees and known black cockatoo breeding trees as identified in pre-clearance surveys. The approval holder must publish the monitoring results annually as part of each compliance report.	Compliant	Table 4-9 Section 4.6.3
16	Within 6 months prior to any clearing of a part of the Action Area commencing, the approval holder must ensure that a suitably qualified ecologist conducts a pre-clearance survey of that part of the Action Area to detect the presence of Malleefowl mounds. The approval holder must establish an avoidance area around each identified Malleefowl mound.	Compliant	4.6.4.2
17	The approval holder must comply with condition B13-3 of the Western Australia Approval and ensure a suitably qualified ecologist commences within 12 months from the date of this approval, surveys in accordance with the survey guidelines for:		
17(a)	a) Woylie, over the Hotham North mine region to determine the Woylie baseline population; and	Compliant	4.6.4.1
17(b)	b) Numbat, over the Hotham North mine region and the Marradong Timber Reserve to determine the Numbat baseline population.	Compliant	
18	The approval holder must ensure that the ongoing viability of any known population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area is not lost due to the Action. The approval holder must undertake population viability monitoring to determine, the ongoing viability of the population of the Chuditch, Quokka, Western Ringtail Possum, and Red-tailed Phascogale, within the Action Area where clearing has commenced.	Compliant	4.6.4.4
19	To minimise impacts of fragmentation on threatened mammals the approval holder must not:		
19(a)	a) clear or construct within the ecological linkages except to provide a fauna crossing structure or for critical infrastructure.	Compliant	Figure 4-3
19(b)	b) clear, construct or cause harm within any stream buffer.	Compliant	4.5.4
20	During any clearing in the PAA, the approval holder must comply with condition B13-6 of the Western Australia Approval and relocate or allow to move to an adjoining suitable area all protected matters which are fauna, and which are observed in the vicinity of the clearing to adjoining suitable habitat by a fauna handler.	Compliant	4.6.4.2
21	The approval holder must cease all clearing taking place in any area where any threatened mammal individual is identified in a pre-clearance survey undertaken less than 24 hours before the clearing is proposed to commence until:		4.6.4.2
21(a)	a) the individual has been relocated by a fauna handler; or	Compliant	4.6.4.2
21(b)	b) the individual has been observed by the fauna handler to have moved on from the area to adjoining suitable habitat; and/or	Compliant	4.6.4.2
21(c)	c) the fauna handler considers that the individual no longer occurs in the area.	Compliant	4.6.4.2
22	The approval holder must comply with conditions B13-1(2) of the Western Australia Approval to ensure that the ongoing viability of any known population of Woylie recorded at Hotham North mine region in accordance with condition 17(a) is not lost due to the Action.	Compliant	4.6.4.1
23	The approval holder must comply with conditions B13-1(3) of the Western Australia Approval to ensure that the ongoing viability of any known population of Numbat recorded at Hotham North mine region and Marradong Timber Reserve in accordance with condition 17(b) is not lost due to the Action.	Compliant	4.6.4.1
24	For the life of the approval, the approval holder must minimise impacts to protected matters from dust, weeds, changes in groundwater and surface water, fire effects and fragmentation.	Compliant	4.5.1 4.7.1
25	For the life of the approval, the approval holder must not undertake any clearing of native vegetation outside of daylight hours to minimise impacts to threatened mammals and black cockatoos.	Compliant	Table 4-9
26	The approval holder must comply with conditions B12-3 and B12-1(4) of the Western Australia Approval and survey part of the PAA for the presence of dieback to identify the location, extent and severity of any dieback infected area prior to clearing that part of the PAA. The approval holder must ensure that the taking of the Action does not cause or contribute to any spread of dieback outside the extent of dieback infected areas.	Non-Compliant	4.5.2.1
27	To minimise impacts from changes to surface water and groundwater on protected matters, the approval holder must ensure that the implementation of the Action from the date of this approval does not have an adverse impact on groundwater and surface water systems, quantity and quality within the protected areas, ecological linkages, and outside the WMDE and CBME for the life of the approval through adaptive management.	Compliant	4.7.1 4.7.2
28	To achieve condition 27, the approval holder must implement the Water Management Plan for the life of the approval.	Compliant	4.7.1
29	The approval holder must implement the Water Management Plan to manage and protect Carter's Freshwater Mussel from adverse impacts attributable to the Action.	Compliant Non-compliant	4.7.1 4.7.5
30	The approval holder must not disturb or cause any adverse impact to the avoidance area around the Augustus Riverbank.	Compliant	Figure 4-3

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
31	The approval holder must commence implementation of the Local Environmental Offsets Management Plan no longer than 6 months after commencement of the Action and continue to implement the Local Environmental Offsets Management Plan at least until the expiry date of this approval.	Compliant	4.11.1
32	The approval holder must, within 5 business days of commencing implementation of the Local Environmental Offsets Management Plan, notify the department of the date on which implementation of the Local Environmental Offsets Management Plan commenced.	Compliant	4.11.1
33	The approval holder must not commence the Action unless all the offset sites have been acquired in accordance with condition B15-5 (Table 1) of the Western Australia Approval.	Compliant	4.11.1
34	The approval holder must secure all offset sites in accordance with the Local Environmental Offsets Management Plan.	Not applicable	4.11.1
35	The approval holder must achieve the following environmental objectives for Offset 1:		
35(a)	a) Securement of no less than 4,165.4 ha of remnant vegetation;	Not applicable	4.11.1
35(b)	b) Restoration of no less than 432.2 ha to become habitat for Numbat, Black Cockatoo, Chuditch, Western Ringtail Possum and Quokka to a habitat quality of 6 within 20 years of commencement of the Action;	Not applicable	4.11.1
35(c)	c) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
35(d)	d) An ongoing viable population of Western Ringtail Possum, Chuditch and Quokka present in the area identified in the Local Offsets Environmental Management Plan as the Offset Properties South-West within 10 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
35(e)	e) An ongoing viable population of Chuditch present in the area identified in the Local Offsets Management Plan as the Offset Properties North-East within 10 years of commencing implementation of the Local Environmental Offsets Management Plan; and	Not applicable	4.11.1
35(f)	f) Suitable foraging and breeding habitat for Numbat in the offset site within 20 years of commencing implementation of the Local Environmental Offsets Management Plan to support a baseline population, if identified in accordance with condition B13-3(2) of the Western Australia Approval.	Not applicable	4.11.1
36	The approval holder must achieve the following environmental objectives for Offset 2:		
36(a)	a) Securement of no less than 218.6 ha of remnant vegetation;	Compliant	4.11.1
36(b)	b) Restoration and securement of no less than 299.8 ha to become habitat for Numbat, Black Cockatoo, Chuditch and Red-tailed Phascogale to a habitat quality of 6 within 20 years of commencement of the Action;	Not applicable	4.11.1
36(c)	c) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
36(d)	d) An ongoing viable population of Chuditch present in the offset sites within 10 years of commencing implementation of the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
36(e)	e) An ongoing viable population of Red-tailed Phascogale present in the offset sites within 20 years of commencing implementation of the Local Environmental Offsets Management Plan; and	Not applicable	4.11.1
36(f)	f) Establish foraging and breeding habitat for Numbat in the offset sites within 20 years of commencing implementation of the Local Environmental Offsets Management Plan in those areas identified in condition B13-3(2) of the Western Australia Approval where restoration will support the population of Numbat.	Not applicable	4.11.1
37	The approval holder must achieve the following environmental objectives for Offset 3a:		
37(a)	a) Restoration and securement of no less than 4,229 ha to become habitat for Numbat, Black Cockatoo and Chuditch, to a habitat quality of 6 within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
37(b)	b) Restoration of black cockatoo foraging and provide evidence of foraging activities within 8 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
37(c)	c) Establish foraging and breeding habitat for Chuditch to demonstrate it is present in the offset sites within 10 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan;	Not applicable	4.11.1
37(d)	d) Establish foraging and breeding habitat for Red-tailed Phascogale to demonstrate it is present in the offset sites within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan; and	Not applicable	4.11.1
37(e)	e) Establish foraging and breeding habitat for Numbat in the offset sites within 20 years of commencing restoration activities on any given lot in accordance with the Local Environmental Offsets Management Plan.	Not applicable	4.11.1
38	The approval holder may apply in writing to the department to change the location of Offset 3a, as set out in the Local Environmental Offset Management Plan. The approval holder must amend the Local Environmental Offset Management Plan and re-submit to the department for Minister Approval.	Not applicable	4.11.1

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
39	Once the approval holder has achieved each offset outcome specified in conditions 35, 36 and 37, the approval holder must maintain, or exceed, each offset outcome at least until the expiry date of this approval.	Not applicable	4.11.1
40	Within 40 business days of the 1 October immediately following each 5th anniversary of the commencement of the Action, the approval holder must:		
40(a)	a) Have an independent suitably qualified ecologist assess the progression of meeting the habitat quality of the restoration sites of Offset 1, Offset 2 and Offset 3a and whether the offset outcomes and timeframes specified in conditions 35, 36, and 37 at the restoration sites of Offset 1, Offset 2 and Offset 3a have been achieved or are likely to be achieved.	Not applicable	4.11.1
40(b)	b) Publish on the website the written report of the independent suitably qualified ecologist, including the results prepared under condition 40a.	Not applicable	4.11.1
41	To compensate for the removal of known black cockatoo breeding trees the approval holder must achieve the following environmental outcomes for Offset 4:		
41(a)	a) Within 6 months of clearing a known black cockatoo breeding tree or previously recorded black cockatoo breeding tree under condition 11, install 3 artificial nest hollows.	Not applicable	4.11.1
41(b)	b) Maintain all artificial nest hollows installed in accordance with condition 41(a) at least until the expiry date of this approval;	Compliant	4.11.1
41(c)	c) At least 14% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 5 years of installation under condition 41a.	Not applicable	4.6.3
41(d)	d) At least 28% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 10 years of installation under condition 41a.	Not applicable	4.6.3
41(e)	e) At least 42% of the artificial nest hollows installed in accordance with condition 41(a) have been successful within 15 years of installation under condition 41a.	Not applicable	4.6.3
42	The approval holder must complete an annual monitoring report, which details the use of the artificial nest hollows by black cockatoos, and evaluates, at least once each year after the breeding season, any obstacles to the successful breeding of black cockatoos in the artificial nest hollows and applies adaptive management to remove any obstacles.	Not applicable	4.6.3 4.11.1
43	The approval holder must publish the annual monitoring report relating to Offset 4 on the website.	Not applicable	4.6.3
44	To compensate for the residual significant impacts of the Action on Woylie, the approval holder must submit to the department for Minister approval a Woylie Offset Environmental Management Plan within 2 years of the commencement of the Action.	Not applicable	4.11.3
45	If the Woylie Offset Environmental Management Plan required by condition 44 has not been approved by the Minister within 3 years of commencement of the Action, the approval holder must cease any construction in the Action Area and may only restart after the Minister notifies the approval holder that the Woylie Offset Environmental Management Plan meets the requirements of conditions B15-8, B15-10 and B15-12 of the Western Australia Approval and condition 46 of this approval. The approval holder must implement the Woylie Offset Environmental Management Plan until the expiry date of this approval.	Not applicable	4.11.3
46	The Woylie Offset Environmental Management Plan must meet the requirements of the Environmental Offsets Policy and the Environmental Management Plan Guidelines to the satisfaction of the Minister.	Not applicable	4.11.3
47	The Woylie Offset Environmental Management Plan must be prepared with advice from a suitably qualified ecologist; prepared in consultation with the DBCA; and, be developed as per condition B15-10 of the Western Australia Approval.	Not applicable	4.11.3
48	To compensate for the residual significant impacts of the Action on protected matters the approval holder must prepare a Regional Offset Environmental Management Plan.	Not applicable	4.11.2
49	The approval holder must comply with condition B15-8 of the Western Australia Approval to contribute to providing offsets at a regional scale for protected matters.	Not applicable	4.11.2
50	The approval holder must restore no less than 3,000 ha of agricultural land within the Williams River and Hotham River catchments.	Not applicable	4.11.2
51	The approval holder must make the Regional Offset Environmental Management Plan available to the department within 5 years of the commencement of the Action.	Not applicable	4.11.2
52	If the Regional Offset Environmental Management Plan required by condition 48 has not been made available on the website within 6 years of commencement of the Action, the approval holder must cease any construction in the Action Area until the approval holder has made the Regional Offset Environmental Management Plan available on the website. The approval holder must implement the Regional Offset Environmental Management Plan until the expiry date of this approval.	Not applicable	4.11.2
53	The Regional Offset Environmental Management Plan must be consistent with the Environmental Offsets Policy and the Environmental Management Plan Guidelines; be prepared with advice from a suitably qualified ecologist; be prepared in consultation with the DBCA; and be developed as per condition B15-8 of the Western Australia Approval.	Not applicable	4.11.2
54	To compensate for the residual significant impacts of the Action on protected matters, and to contribute to key knowledge gaps, identified in consultation with DBCA, relating to the environmental values being impacted to ultimately assist with maintenance of the ongoing ecological integrity of the Northern Jarrah Forest Interim Biogeographic Regionalisation of Australia Sub-region, the approval holder must submit a Research Offset Environmental Management Plan to the department within 2 years of the commencement of the Action.	Not applicable	4.11.4
55	If the Research Offset Environmental Management Plan required by condition 54 has not been made available on the website within 3 years of commencement of the Action, the approval holder must cease any construction in the Action Area until the approval holder has made the Research Offset Environmental Management Plan available on the website. The approval holder must implement the Research Offset Environmental Management Plan until the expiry date of this approval.	Not applicable	4.11.4
56	The approval holder must make the results of the Research Offset Environmental Management Plan available on the website, to DBCA and the department.	Not applicable	4.11.4

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
57	The Research Offset Environmental Management Plan must be consistent with the Environmental Management Plan Guidelines; prepared in consultation with the DBCA; and, be developed as per condition B15-12 of the Western Australia Approval.	Not applicable	4.11.4
58	The approval holder may choose to revise a plan required to be implemented under condition 28 without submitting it for approval under section 143A of the EPBC Act, if:		No changes to were made to EPBC plans
58(a)	a) the taking of the Action in accordance with the revised plan would be consistent with the approved Action,	Not applicable	4.7.1
58(b)	b) the taking of the Action in accordance with the revised plan would be consistent with the conditions attached to this approval,	Not applicable	
58(c)	c) the taking of the Action in accordance with the revised plan would not be likely to have a new or increased impact, and	Not applicable	
58(d)	d) the approval holder notifies the department electronically that it has prepared a revised version of the plan (the 'revised plan'). In notifying the department, the approval holder must specify each condition which references the plan and provide the department with:	Not applicable	
58(d) i	i. an electronic copy of the revised plan,	Not applicable	
58(d) ii	ii. an electronic copy of the revised plan marked up with track changes to show the differences between the plan and the revised plan,	Not applicable	
58(d) iii	iii. a comprehensive explanation of all differences between the plan and the revised plan,	Not applicable	
58(d) iv	iv. a declaration that the approval holder has read and understands the Guidance on 'new or increased impact' relating to changes to approved management plans under EPBC Act environmental approvals, Commonwealth of Australia 2017,	Not applicable	
58(d) v	v. a comprehensive analysis and detailed discussion on the likelihood that taking the Action in accordance with the revised plan will not have, or will be not likely to have, a new or increased impact,	Not applicable	
58(d) vi	vi. written notice of the date on which the approval holder will implement the revised plan (the 'revised plan implementation date'), being at least 30 business days after the date of providing notice of the revision of the plan, or a date agreed to in writing with the department, and	Not applicable	
58(d) vii	vii. a copy of the compliance report for the latest ACR period and a statement of any relevant history of compliance (including non-compliance) in relation to the plan.	Not applicable	
58(e)	e) The approval holder must commence implementation of the revised plan from the revised plan implementation date unless otherwise notified in writing by the Minister.	Not applicable	
59	If the Minister notifies the approval holder that the Minister is satisfied that the taking of the Action in accordance with a plan which has been revised without submitting it for the Minister's approval would be likely to have a new or increased impact, then:		
59(a)	a) the approval holder's ability to revise a plan without submitting the plan for Minister approval does not apply, or ceases to apply, in relation to the revised plan,	Not applicable	
59(b)	b) the approval holder must implement the plan in force immediately prior to that revised plan or a version of the plan specified by the Minister in the notice, and	Not applicable	
59(c)	c) the Minister may also notify that, for a specified period, the approval holder's ability to revise a plan without submitting the plan for Minister approval does not apply for one or more specified plans.	Not applicable	
60	The approval holder may, at any time by giving written notice to the department, revoke its choice to implement a plan which has been revised without submitting it for the Minister's approval. If the approval holder revokes the choice to implement a revised plan, the approval holder must implement the plan in force immediately prior to that revised plan.	Not applicable	
61	Wherever these conditions require the approval holder to submit any plan to the department, all such plans must be submitted to the department electronically.	Compliant	All required plans were electronically submitted
62	Unless otherwise agreed to in writing by the Minister, the approval holder must publish each plan on the website within 15 business days of the date:	Compliant	
62(a)	a) of this approval, if the version of the plan to be implemented is specified in these conditions,	Compliant	4.14.4
62(b)	b) the plan is approved by the Minister in writing, if the plan requires the approval of the Minister,	Compliant	Required plans have been published to the South32 website in accordance with condition
62(c)	c) the plan is approved by a state government official as required under a Western Australia Approval condition which must be complied with in accordance with these EPBC Act conditions, or	Compliant	Appendix 4: Environmental Management Plans –
62(d)	d) the plan is submitted to the department in accordance with a requirement of these conditions, if the plan does not require the approval of the Minister	Not Applicable	
63	The approval holder must keep all plans published on the website, in a format that is easily accessible and downloadable, from the first date which that plan must be published and until the expiry date of this approval. This requirement applies to all current and superseded versions of plans.	Compliant	4.14.4 Required plans including superseded versions remain accessible on South32 website

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
64	The approval holder is required to exclude or redact sensitive biodiversity data from any version of a plan before that plan is published on the website or otherwise provided to a member of the public. If sensitive biodiversity data is excluded or redacted from a plan, the approval holder must notify the department in writing what exclusions and redactions have been made in the version published on the website.	Compliant	4.14.4
65	The approval holder must notify the department in writing of any proposed change to the Western Australia Approval that may relate to protected matters within 2 business days of formally proposing such a change and within 5 business days of becoming aware of any proposed change.	Not applicable	4.1
66	The approval holder must notify the department in writing of any change to the Western Australia Approval conditions that may relate to protected matters, within 5 business days of such a change to conditions coming into effect. Such notification must include a copy of the changed Western Australia Approval conditions showing what changes have been made.	Not applicable	4.1
67	The approval holder must notify the department electronically in writing of the date of commencement of the Action, within 5 business days following commencement of the Action.	Compliant	2
68	The approval holder must not commence the Action later than 5 years after the date of this approval decision.	Compliant	2
69	The approval holder must notify the department electronically of the date of commencement for each Mining Tranche within 5 business days.	Compliant	4.5.2.2
70	The approval holder must maintain accurate and complete compliance records and document the procedure for recording and storing compliance records.	Compliant	4.14.6 Worsley Alumina has a procedure for location and retention of compliance records.
71	If the department makes a request in writing, the approval holder must provide electronic copies of compliance records to the department within the timeframe specified in the request.	Not applicable	
72	The approval holder must ensure that any monitoring data, surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the <i>Guidelines for biological survey and mapped data</i> , Commonwealth of Australia 2018, or as otherwise specified by the Minister in writing.	Compliant	4.14.6
73	The approval holder must ensure that any monitoring data, surveys, maps, and other spatial and metadata required under the conditions of this approval are prepared in accordance with the <i>Guide to providing maps and boundary data for EPBC Act projects</i> , Commonwealth of Australia 2021, or as otherwise specified by the Minister in writing.	Compliant	4.14.6
74	The approval holder must submit all monitoring data, surveys, maps, other spatial and metadata and all species occurrence record data (sightings and evidence of presence) electronically to the department within 20 business days of the next anniversary of the date of this approval decision except where otherwise specified in a plan.	Compliant	4.14.6
75	The approval holder must prepare a compliance report for each Annual Compliance Report period (ACR period).	Compliant	1.3.2 4.14.3
76	The approval holder must ensure each compliance report includes:		
76(a)	a) accurate and complete details of compliance and any non-compliance with:	Compliant	Table 6-2
76(a) i	I. each condition imposed under the Western Australia Approval if a condition attached to this approval decision requires compliance with that Western Australia Approval condition,	Compliant	Table 6-2
76(a) ii	II. each condition attached to this approval decision, and	Compliant	Table 6-2
76(a) iii	III. all commitments made in each plan,	Compliant	Table 4-13 Table 4-14 Table 4-35 Table 4-36
76(b)	b) a schedule of all plans in effect in relation to these conditions during the ACR period,	Compliant	Appendix 10: Schedule of Plans in Effect - EPBC 2019/8437 Condition 76(b)
76(c)	c) accurate and complete details of how each plan was implemented during the ACR period, and	Compliant	4.7 4.11
76(d)	d) if any incident occurred, accurate and complete details of each incident	Compliant	5.1
77	The approval holder must ensure each compliance report is completed to the satisfaction of the Minister and is consistent with the Annual Compliance Report Guidelines, Commonwealth of Australia 2023.	Compliant	1
78	The approval holder must, within 20 business days following the end of each ACR period, in a format that is easily accessible and downloadable, publish on the website:	Compliant	4.14.4
78 (a)	a) each compliance report, and	Compliant	Request made to alter the ACR period to align with MS1237
78 (b)	b) a shapefile showing all clearing of protected matters, and their habitat, undertaken within the ACR period.	Compliant	Appendix 3: GIS Information

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition*	EVIDENCE/COMMENTS (CAR Section Reference)
79	The approval holder must:		
79(a)	a) Exclude or redact sensitive biodiversity data from each compliance report and shapefile published on the website or otherwise provided to a member of the public.	Not applicable	4.14.4
79(b)	b) If sensitive biodiversity data is excluded or redacted from a version of a compliance report published or otherwise provided to a member of the public, submit the full compliance report to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public	Not applicable	4.14.4
79(c)	c) If sensitive biodiversity data is excluded or redacted from a version of a shapefile published or otherwise provided to a member of the public, submit the full shapefile to the department within 5 business days of its publication on the website and notify the department in writing what exclusions and redactions have been made in the version published on the website or otherwise provided to a member of the public.	Not applicable	4.14.4
80	The approval holder must notify the department electronically, within 5 business days of each date of publication that the compliance report has been published on the website. In this notification, the approval holder must provide the department with the web address for where the compliance report and related shapefile are published on the website.	Not applicable	This is the first ACR to be submitted under EPBC 2019/8437
81	The approval holder must keep each compliance report and related shapefile published on the website from the first date which that compliance report must be published and until the expiry date of this approval.	Not applicable	4.14.4
82	The approval holder must notify the department electronically, within 2 business days of becoming aware of any incident. The approval holder must specify in each notification:	Non-compliant	5.1
82(a)	a) any condition or commitment made in a plan which has not been, or may have not been, complied with,		5.1
82(b)	b) a description of the incident, and		5.1
82(c)	c) the location (if applicable, including co-ordinates), date and time of the incident.		5.1
83	The approval holder must provide to the department electronically in writing, within 12 business days of becoming aware of an incident, the details of that incident. The approval holder must specify:	Non-compliant	5.1
83(a)	a) all corrective measures and investigations which the approval holder has already taken in respect of the incident,		5.1
83(b)	b) the potential impacts of the incident,		5.1
83(c)	c) the method and timing of any corrective measures that the approval holder proposes to undertake to address the incident, and		5.1
83(d)	d) any variation of these conditions or revision of a plan that will be required to prevent recurrence of the incident and/or to address its consequences.		5.1
84	The approval holder must ensure that an independent audit of compliance with the conditions is conducted for every audit period.	Not applicable	4.14.5
85	The approval holder must submit details of the proposed independent auditor and their qualifications to the department within 10 business days following the end of each audit period.	Not applicable	4.14.5
86	The approval holder must ensure the scope of each independent audit is sufficient to determine the compliance status for each condition of approval, and each commitment made in each plan.	Not applicable	4.14.5
87	The approval holder must ensure the criteria for each independent audit and the undertaking of each independent audit are consistent with the Independent Audit and Audit Report Guidelines.	Not applicable	4.14.5
88	The approval holder must submit an audit report to the department for written agreement from the department within 3 months following the end of each audit period, or as otherwise directed by the Minister in writing.	Not applicable	4.14.5
89	The approval holder must ensure each audit report is completed to the satisfaction of the Minister and is consistent with the Independent Audit and Audit Report Guidelines.	Not applicable	4.14.5
90	The approval holder must publish each audit report on the website, in a format that is easily accessible and downloadable, within 10 business days of the date the department agrees to that audit report in writing.	Not applicable	4.14.5
91	The approval holder must notify the department within 5 business days of the date the audit report is published on the website. In this notification, the approval holder must provide the department with the web address for where the audit report is published on the website.	Not applicable	4.14.5
92	The approval holder must keep each audit report published on the website from the first date which that audit report must be published and until the expiry date of this approval.	Not applicable	4.14.5
93	Within 20 business days after the completion of the Action, and, in any event, at least 20 business days before this approval expires, the approval holder must notify the department electronically of the date of completion of the Action and provide completion data. The approval holder must submit any spatial data that comprises completion data as a shapefile.	Not applicable	
94	The approval holder must notify the department electronically 60 business days prior to the expiry date of this approval, that the approval is due to expire.	Not applicable	

* Status Description include:

- Compliant

- Non-compliant
- Not Applicable

6.3 EPBC 2004/1566 AUDIT TABLE

Table 6-3 EPBC 2004/1566 Compliance Audit Table

CONDITION # / REFERENCE	CONDITION AS PER EPBC APPROVAL DOCUMENT	Is this project compliant with this condition Compliant or Non-Compliant or Not Applicable	EVIDENCE/COMMENTS
1	Submit Biodiversity Investigations Scope (BIS) within 6 months of approval.	Compliant	The BIS was submitted to the Department on 12 November 2007. This was within 6 months of 6 June 2007. The BIS was approved by the Department on 29 November 2007.
2.	Submit Biodiversity Investigations Report prior to vegetation clearing for each mining pod.	Not Applicable	Mining in new mining areas covered by the scope of this approval will not occur within the current mine planning cycle.
3	Advise Department of commencement date within 14 days.	Compliant	A letter was sent to the Department on 27 August 2008. This was within 14 days of 18 August 2008 when Worsley Alumina commenced construction of the project.
4	Submit compliance report by October 1 each year after commencement.	Compliant	Letters were sent to the Department on 25 September 2008, 1 October 2009, 23 September 2010, 22 September 2011, 31 August 2012, 16 September 2013, 25 August 2014, 1 October 2015, 21 October 2016, 17 November 2017, 7 September 2018, 2 April 2020, 21st September 2021, 7th September 2022, 4th September 2023, 16 September 2024, and 22 September 2025.
5	Comply with any request from the Minister to revise the BIS.	Not Applicable	No requests were received from the Minister to revise the BIS.
6	Maintain records and make them available on request.	Compliant	Records are maintained and available.
7	Do not commence project more than 5 years after approval, if Minister has advised not to commence	Compliant	Approval was received in 2007 and project commenced on 18 August
* Status Description include: • Compliant • Non-compliant • Not Applicable			

7 REFERENCES

Alumina Refinery (Worsley) Agreement Act 1973 (WA)

DCCEEW (Department of Climate Change, Energy, the Environment and Water) (2023). *Annual Compliance Report Guidelines. Reporting under the Environment Protection and Biodiversity Conservation Act 1999*. Canberra.

DCCEEW (Department of Climate Change, Energy, the Environment and Water) (2023). *Notification of Approval Decision, Worsley Bauxite Alumina Project Expansion, Boddington, Western Australia (EPBC 2019/8437)*. Canberra.

Ecology Matters (2024). *Black-Cockatoo Artificial Hollow Installation and Monitoring Gibbs Offset Property Part A: Site Assessment*. Unpublished report for Worsley Alumina Pty Ltd.

Environmental Protection Act 1986 (Western Australia)

Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)

Mining Act 1978 (WA).

Minister for Energy, Environment, Climate Action (2024). *Ministerial Statement 1237*. Perth, Western Australia.

Minister for the Environment, Racing & Gaming (2006). *Ministerial Statement 719*. Perth, Western Australia.

OEPA (2012). EPA Post Assessment Guidelines No. 3: *Post Assessment Guideline for Preparing a Compliance Assessment Report*. Western Australia.

South32 Worsley Alumina Pty Ltd (2022) Worsley Mine Expansion (Revised Proposal) Environmental Review Document. (Available on-line: Worsley Mine Expansion – Revised Proposal | EPA Western Australia

South32 Worsley Alumina (2005). *Environmental Review and Management Programme*. Unpublished report, Perth WA.

WRM (2005). *Ecological Water Requirements of Augustus River – Intermediary Assessment*. Unpublished report by Wetland Research and Management to Worsley Alumina Pty Ltd. March 2005.

8 DEFINITIONS, TERMS & ABBREVIATIONS

Term	Definition
Administrative Non-Compliance	A non-compliance which has no environmental impact
ARP	Annual Rehabilitation Plan
ARC Period	As defined by EPBC2019/8437 “means each subsequent 12-month period following the date of this approval decision until the expiry date of this approval, unless otherwise specified in writing by the Minister
BBM	Boddington Bauxite Mine
BIR	Biodiversity-related Investigations Report
BIS	Biodiversity Investigations Scope
BTC	Bauxite Transport Corridor
CAP	Compliance Assessment Plan
CAR	Compliance Assessment Report
CBME	Contingency Bauxite Mining Envelope
CEMP	Construction Environmental Management Plan
CEO	Chief Executive Officer (DWER)
CSFEMP	Conservation Significant Fauna Environmental Management Plan
DWER	Department Water and Environment Regulation
DCCEEW	Department of Climate Change, Energy, the Environment and Water
DBCA	Department of Biodiversity Conservation and Attractions
EMA	Extended Mining Area
EMLG	Environmental Management Liaison Group
EMP	Environmental Management Plan
EPA	Environmental Protection Authority
EPBC	Environment Protection and Biodiversity Conservation
Evidence of use	Trees with a suitable hollow for black cockatoo breeding where evidence of potential use of that hollow has been observed. For example, chewing at the hollow entry.
FVMP	Flora and Vegetation Management Plan
FWL	Freshwater Lake
GL	Gigalitre

Term	Definition
Ha	Hectares
Km	Kilometre
LOEMP	Local Offsets Environmental Management Plan
m AHD	Meters Australian Height Datum
MCP	Mine Closure Plan
ML/a	Mega Litres per annum
MS1237	Ministerial Statement 1237 (Published 20 December 2024)
Mtpa	Million tonnes per annum
MW	Mega Watt
NJF	Northern Jarrah Forest
NMT	Noise Monitoring Terminal
Non-Administrative non-compliance	Non-compliance which has the potential to result in an environmental impact
OBC	Overland Bauxite Conveyor
PAA	Primary Assessment Area
PBT	Potential Breeding Tree
QTR	Quindanning Timber Reserve
RCL	Refinery Catchment Lake
REMP	Research Environmental management Plan
RL	Relative Level
RLA	Refinery Lease Area
ROEMP	Regional Offsets Environmental Management Plan
SEP	Solar Evaporation Pond
State Agreement	<i>Alumina Refinery (Worsley) Agreement Act 1973</i>
WEMLG	Worsley Environmental Management Liaison Group
WMDE	Worsley Mining Development Envelope
WMP	Water Management Plan
WOEMP	Woylie Offset Environmental Management Plan
Worsley Alumina	South 32 Worsley Alumina Pty Ltd

Term	Definition
Worsley JV	Worsley Joint Venture

9 APPENDICES

9.1 APPENDIX 1: MS719 Performance Report (Link: APPENDIX 1)

9.2 APPENDIX 2: COMPLIANCE MONITORING REPORT

9.3 APPENDIX 3: GIS INFORMATION

- Record of clearing during the reporting period
- Record of rehabilitation during the reporting period
- Record of Verified Rank 1, 2 & 3 Black Cockatoo Trees – provided confidentially to the DWER and DCCEEW as required by MS1237 condition D5-2 and EPBC 2019/8437 condition 64.

9.4 APPENDIX 4: ENVIRONMENTAL MANAGEMENT PLANS – LETTERS OF APPROVAL

- FVMP – Letter of approval, in accordance with condition C1-1
- CSFMP – Letter of approval, in accordance with condition C1-1
- WMP – Letter of approval, in accordance with condition C1-1
- CEMP – Letter of approval, in accordance with condition C1-1
- LOEMP – Letter of approval, in accordance with condition C1-1

9.5 APPENDIX 5: FLORA AND FAUNA REPORTS

These reports will be provided separately

- Biologic 2025 – Targeted Flora Survey (*Gastrolobium* sp. Prostrate Boddington).
- Glevan 2025 – Dieback Occurrence Report Harvesting Areas
- Glevan 2025 – Dieback Occurrence Report Additional Harvesting Areas
- Glevan 2025 – Dieback Occurrence Report Nullaga Link Road
- Matiske 2025 – Annual Rehabilitation Monitoring Report (Report not yet finalised - to be provided once available)
- Matiske 2025 – Targeted Priority Flora Survey Memo
- Bamford Consulting 2024 – Targeted Fauna Habitat monitoring report
- Ecology Matters 2025 – Pre-clearance survey Progress Report (Nov 24 – July 25)
- Stantec 2024 – Carters Freshwater Mussel Survey
- Phoenix Environmental Sciences – Population Estimates for Numbat & Woylie for the Hotham North Project, May 2025

- Biologic Environmental Survey – Technical Memo: South32 Marradong targeted Numbat Survey, January 2025
- Ecology Matters 2024 – Black Cockatoo Artificial Hollow Installation and Monitoring Gibbs Offset Property Part A

9.6 APPENDIX 6: BLACK COCKATOO HOLLOWES – METHODOLOGY AND FINDINGS

9.7 APPENDIX 7: WATER MONITORING RESULTS AND REPORTS

- BBM Historic surface water monitoring results for sites: S07, S11, S15, S16, S18, S21, S24, S31, S32, S33, S38, S39, S42, S43, S50, S55, WHBK10, HBBK14, 34BK110, D02, D03
- Historic ground water monitoring results (Data)
 - o 2024_South32_Marradong_GW_final.pdf
 - o 2024_South32_Saddleback_GW_final.pdf
- BBM Historic Groundwater levels (Graphs)
- 2025 Annual Hydrological Report
- FY25 Hotham River Crossing Surface Water Analysis (Data)
- Triennial Aquifer Review July 2020 – June 2023 (Green, Croton & Dalton, 2024)

9.8 APPENDIX 8: COMPLIANCE ASSESSMENT PLAN: CONFIRMATION OF SUITABILITY

9.9 APPENDIX 9: HERITAGE DOCUMENTS

- DPLH ACHIS Search_Clearing and Rehabilitation Areas
- Ministerial Consent 34-65280
- Ministerial Consent 34-67837
- Ministerial Consent MIN-2023-1062

9.10 APPENDIX 10: SCHEDULE OF PLANS IN EFFECT - EPBC 2019/8437 CONDITION 76(B)

EPBC 2019/8437 condition 76(b) requires Worsley Alumina to include a schedule of all plans in effect in relation to conditions during the Annual Compliance Report (ACR) period:

- Water Management Plan
- Local Offset Environmental Management Plan

Appendix 1 MS719 COMPLIANCE STATUS (JULY 1 2024 – DECEMBER 19 2024)

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
Implementation	719:M1-1	The proponent shall implement the proposal as documented in schedule 1 of this statement subject to the conditions and procedures of this statement	Table 4-1	Satisfactory during this period
Proponent Commitments	719:M2-1	The proponent shall implement the environmental management commitments documented within schedule 2 of this statement	N/A	Satisfactory during this period
Proponent Nomination and Contact Details	719:M3-1	The proponent for the time being nominated by the Minister for the Environment under section 36(6) or (7) of the <i>Environmental Protection Act, 1986</i> is responsible for the implementation of the proposal until such time as the Minister for the Environment has exercised the Minister's power under section 38(7) of the Act to revoke the nomination of that proponent and nominate another person as the proponent for the proposal	1.1.1	Satisfactory during this period
	719:M3-2	If the proponent wishes to relinquish the nomination, the proponent shall apply for the transfer of the proponent and provide a letter with a copy of this statement endorsed by the proposed replacement proponent that the proposal will be carried out in accordance with this statement. Contact details and appropriate documentation on the capability of the proposed replacement proponent to carry out the proposal shall also be provided	4.14.1	Not required at this stage
	719:M3-3	The nominated proponent shall notify the Department of Environment of any change of contact name and address within 60 days of such change	4.14.1	Not required at this stage
Commencement and Time Limit of Approval	719:M4-1	The proponent shall substantially commence the proposal within five years of the date of this statement or the approval granted in this statement shall lapse and be void. Note: The Minister for the Environment will determine any dispute as to whether the proposal has been substantially commenced	N/A	Completed
	719:M4-2	The proponent shall make application for any extension of approval for the substantial commencement of the proposal beyond five years from the date of this statement to the Minister for the Environment, prior to the expiration of the five-year period referred to in condition 4.1 The application shall demonstrate that: - The environmental factors of the proposal have not changed significantly. - New, significant, environmental issues have not arisen; and - All relevant government authorities have been consulted. Note: The Minister for the Environment may consider the grant of an extension of the time limit of approval not exceeding five years for the substantial commencement of the proposal.	N/A	Not required at this stage.
Compliance Audit and Performance Review	719:M5-1	The proponent shall prepare an audit program. The aim of this audit program is to ensure that there is on-going compliance with this Ministerial Statement. The audit program shall include the following: - An audit table, which lists the implementation conditions and the proponent's commitments, and details how these will be met by listing the actions required, their objectives, details of how the actions/objectives will be achieved, and the relevant timeframes; and - Details of any criteria and/or standards that will be used to measure compliance, and the rational for their use.	N/A	Satisfactory during this period
	719:M5-2	The proponent shall submit compliance reports in accordance with the audit program approved by the Department of Environment and the compliance monitoring guidelines, and shall: - Describe, or update, the status of implementation of the proposal. - Provide verifiable evidence of compliance with the conditions, procedures and commitments. - Review the effectiveness of corrective and preventative actions contained in the environmental management plans and programs. - Provide verifiable evidence of the fulfilment of requirements specified in the environmental management plans and programs. - Identify all confirmed non-conformities and non-compliances and describe the related corrective and preventative actions taken; and - Identify potential non-conformities and non-compliances and provide evidence of how these are being assessed for corrective action. Note: Under sections 48(1) and 47(2) of the <i>Environmental Protection Act 1986</i> , the Chief Executive Officer of the Department of Environment is empowered to monitor the compliance of the proponent with the statement and should directly receive the compliance documentation, including environmental management plans, related to the conditions, procedures and commitments contained in this statement	This report	Satisfactory during this period

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
	719:M5-3	The proponent shall submit a performance review report every five years following the formal authority issued to the decision-making authorities under section 45(7) for the <i>Environmental Protection Act 1986</i>, to the requirements of the Minister for the Environment on advice for the Environmental Protection Authority which addresses: The major environmental issues associated with implementing the project; the environmental objectives for those issues; the methodologies used to achieve these; and the key indicators of environmental performance measured against those objectives. The level of progress in the achievement of sound environmental performance, including industry benchmarking, and the use of the best practicable measures available. Significant improvements gained in environmental management, including the use of external peer reviews. Stakeholder and community consultation about environmental performance and the outcomes of that consultation, including a report of any on-going concerns being expressed; and The proposed environmental objectives over the next five years, including improvements in technology and management processes.	N/A Performance report was submitted in April 2021 – no further report was required before MS1237 was issued	Satisfactory during this period
	719:M5-4	The proponent may submit a report prepared by an independent auditor to the Chief Executive Officer of the Department of Environment on each condition or commitment of this statement which requires the preparation of a management plan, programme, strategy or system, stating whether the requirements of each condition or commitment have been fulfilled within the timeframe stated within each condition or commitment.	N/A	Satisfactory during this period
Greenhouse Gas Abatement	719:M6-1	Prior to commencement of construction, the proponent shall prepare a Greenhouse Gas Emissions Management Plan to: - Ensure that through the use of best practice, the total net "greenhouse gas" emissions and/or "greenhouse gas" emissions per unit of product from the project are minimised; and - Manage "greenhouse gas" emissions in accordance with the Framework Convention on Climate Change, 1992, and consistent with the National Greenhouse Strategy. To the requirements of the Minister for the Environment on advice of the Environmental Protection Authority The Plan shall include: - Calculation of the "greenhouse gas" emissions associated with the proposal, as advised by the Environmental Protection Authority. - Note: the current requirements of the Environmental Protection Authority are set out in: Minimising Greenhouse Gas Emissions, Guidance for the Assessment of Environmental Factors, No.12 published by the Environmental Protection Authority (October 2002). This document may be updated or replaced from time to time - Specific measure to minimise the total net "greenhouse gas" emissions and/or the "greenhouse gas" emissions per unit of product associated with the proposal using a combination of "no regrets" and "beyond no regrets" measures; Note: the following definitions apply: "No regrets" measures are those which can be implemented by a proponent, and which are effectively cost-neutral "Beyond no regrets" measures are those which can be implemented by a proponent, and which involve additional costs that are not expected to be recovered. - Estimation of the "greenhouse gas" efficiency of the project (per unit of product and/or other agreed performance indicators) and comparison with the efficiencies of other comparable projects producing a similar product, both within Australia and overseas. - Actions for the monitoring and annual reporting of "greenhouse gas" emissions and emission reduction strategies. - A target set by the proponent for the reduction of total net "greenhouse gas" emissions and/or "greenhouse gas" emissions per unit of product and as a percentage of total emissions over time, and annual reporting of progress made in achieving this target. Consideration should be given to the use of renewable energy sources such as solar, wind or hydro power. - Consideration by the proponent of entry (whether on a project-specific basis, company-wide arrangement or within an industrial grouping, as appropriate) into the Commonwealth Government's "Greenhouse Challenge" voluntary cooperative agreement program. - Components of the agreement program include. - An inventory of emissions. - Opportunities for abating "greenhouse gas" emissions in the organisation. - A "greenhouse gas" mitigation action plan. Regular monitoring and reporting of performance; and	N/A	Satisfactory during this period

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
		Independent performance verification		
	719:M6-2	The proponent shall implement the Greenhouse Gas Emissions Management Plan required by condition 6.1	N/A	Satisfactory during this period
	719:M6-3	Prior to commencement of construction the proponent shall make the Greenhouse Gas Emissions Management Plan required by condition 6.1 publicly available.	N/A	Completed
Decommissioning	719:M7-1	Within twelve months following the commencement of construction the proponent shall prepare a Preliminary Decommissioning Plan to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority. The Preliminary Decommissioning Plan shall provide the framework to ensure that the site is left in an environmentally acceptable condition The preliminary Decommissioning Plan shall address: • The rationale for the siting and design of plant and infrastructure as relevant to environmental protection, and conceptual plans for the removal or, if appropriate, retention of plant and infrastructure. • The long-term management of ground and surface water systems affected by the refinery, coal stockpiles, waste disposal areas and associated infrastructure. • A conceptual rehabilitation plan for all disturbed areas and a description of a process to agree on the end land use(s) with all stakeholders. • A conceptual plan for a care and maintenance phase; and • Management of potentially polluting materials to avoid the creation of contaminated areas.	N/A	Completed
	719:M7-2	At least 12 months prior to the anticipated date of decommissioning, or at a time agreed with the Environmental Protection Authority, the proponent shall prepare a Final Decommissioning Plan to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority. The objective of the Final Decommissioning Plan is to ensure that the site is left in an environmentally acceptable condition. • The final Decommissioning Plan shall address: • The removal or, if appropriate, retention of plant and infrastructure in consultation with relevant stakeholders. • The long-term management of ground and surface water systems affected by the refinery, coal stockpiles, waste disposal areas, and associated infrastructure. • Rehabilitation of all disturbed areas to a standard suitable for the agreed new land use(s); and • Identification of contaminated areas, including provision of evidence of notification and proposed management measures to relevant statutory authorities.	4.12	Not required at this stage
	719:M7-3	The proponent shall implement the Final Decommissioning Plan required by condition 7.2 until such time as the Minister for the Environment determines, on advice of the Environmental Protection Authority, that the proponent's decommissioning responsibilities are complete.	4.12	Not required at this stage
	719:M7-4	The proponent shall make the Final Decommissioning Plan required by condition 7-2 publicly available	4.12	Not required at this stage
Biodiversity–Related Investigations	719:M8-1	The proponent shall prepare a draft Scope of Biodiversity-related Investigations document which encompasses those areas within the proposed new mining areas, shown in Figure 2 of schedule 1, and sufficient surrounding area to provide for information on regional context. The draft Scope of Biodiversity-related Investigations shall include investigation of the following matters: • The occurrence and spatial extent of floristic and vegetation communities at local and regional scale. • The condition of floristic and vegetation communities identified in Item 1 above. • The occurrence and spatial extent of Threatened Ecological Communities (TEC's), including nominated TEC's. • The occurrence and extent of Declared Rare and Priority Flora pursuant to the Wildlife Conservation Act 1950 and other Priority Flora as identified in the database maintained by the Department of Conservation and Land Management. • The role and significance of ecological linkages.	4.4	Completed

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
		- The occurrence, severity and spatial extent of forest disease and the potential for the spread of forest disease. - Characterisation of landform. - The identification and spatial extent of fauna habitat, including specifically, habitat for Threatened, Priority listed and other significant Fauna, and significant Short Range Endemic fauna, and other significant invertebrate taxa. - The occurrence and abundance of vertebrate fauna, including specifically, threatened fauna as defined in the Wildlife Conservation Act 1950 or the Commonwealth Environmental Protection and Biodiversity Conservation Act 1999; Priority fauna as defined and listed by the Department of Conservation and Land Management (CALM); obligate tree hollow nesting or roosting species; and species requiring specialised habitats or resources, including Honey Possums. - The occurrence and abundance of significant Short-Range Endemic and other significant invertebrate taxa; - Groundwater systems and the occurrence and distribution of groundwater-dependent ecosystems. - Stream flow and quality, and stream-dependent ecosystems. - Weed and pest severity status in State Forest; and - Impact of climate change.		
	719:M8-2	The proponent shall, within twelve months following the formal authority issued to the decision-making authorities under section 45(7) of the <i>Environmental Protection Act 1986</i>, submit the draft Scope of Biodiversity-related Investigations document required by condition 8-1 for review to: The Department of Conservation and Land Management. The Conservation Commission of Western Australia. The Environmental Management Liaison Group (refer Procedure 5); and The Stakeholder Consultation Group (refer Procedure 6).	4.4.1	Completed
	719:M8-3	The proponent shall, within eighteen months following the formal authority issued to the decision making authorities under section 45(7) of the <i>Environmental Protection Act 1986</i>, submit a revised Scope of Biodiversity-related Investigations document, taking into account all comments and recommendations (if any) received under condition 8-2, to the Minister for the Environment for endorsement on the advice of the Environmental Protection Authority, the Department of Conservation and Land Management and the Conservation Commission of Western Australia.	4.4.1	Completed
	719:M8-4	The proponent shall make the endorsed Scope of Biodiversity-related Investigations document referred to in condition 8-3 publicly available.	4.4.1	Completed
	719:M8-5	The proponent shall conduct biodiversity-related investigations in accordance with the endorsed Scope of Biodiversity-related Investigations document referred to in condition 8-3		Not required at this stage
	719:M8-6	Prior to the lodgement of Bauxite Mining Plans (refer condition 11-1) and the commencement of ground disturbing activities (including mining and transport corridor construction activities), the proponent shall prepare and submit a Biodiversity-related Investigations Report to the Minister for the Environment for endorsement on the advice of the Environmental Protection Authority, the Department of Conservation and Land Management and the Conservation Commission of Western Australia which details the results of biodiversity-related investigations conducted as required by condition 8-5. The biodiversity-related investigations Report shall include the following; - Written certification that the endorsed Scope of Biodiversity-related Investigations document is complete. - Key biodiversity values to be protected; - Indicators, parameters or criteria to be used in measuring maintenance of the key biodiversity values identified, and ongoing monitoring requirements; - Outcomes and findings for each of the matters investigated, including those matters identified in condition 6-3; - Surveyed plans detailing the ecological linkages and the proposed areas of zero disturbance; - The proposed areas of zero disturbance; and - Defined buffer areas around ecological linkages and areas of zero disturbance.	4.4.1	Not required at this stage
	719:M8-7	The proponent shall make the Biodiversity-related Investigations Report required by condition 8-6 publicly available	4.4.1	Not required at this stage
Protection of Biodiversity	719:M9-1	The proponent shall not, unless otherwise approved by the Minister for the Environment on advice of the Environmental Protection Authority and the Department of Conservation and Land Management, implement the	4.4.1	Not required at this stage

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
		proposal so as to cause or contribute to the direct or indirect disturbance of the following: - Vegetation complexes (as mapped for the Regional Forest Agreement) which have less than 30% of their pre-European extent remaining; - Threatened Ecological Communities (TECs) as identified in the Biodiversity-related Investigations Report; - Heathland as identified in the Biodiversity-related Investigations Report; - Granite outcrops as identified in the Biodiversity-related Investigations Report; - Other naturally rare or restricted floristic communities, vegetation or ecological communities and key ecological linkages identified in the Biodiversity-related Investigations Report; - Declared Rare Flora, unless the disturbance is approved under the Wildlife Conservation Act 1950; - Significant populations of Priority Flora identified in the Biodiversity-related Investigations Report; - Significant areas of habitat for Threatened, Priority listed and other significant fauna, significant Short Range Endemic fauna, and other significant invertebrate taxa identified in the Biodiversity-related Investigations Report; - Stream zones in accordance with the Department of Environment Guidance for protection of sensitive water bodies, except for the construction and operations of stream crossings for haul roads, service roads, transport corridors, mine water supply and other infrastructure; and - Other important conservation values and habitats identified in the Biodiversity-related Investigations Report		
	719:M9-2	Without limiting condition 9-1, the proponent shall ensure that mining, transport corridor construction or operational activities do not cause or contribute to the following: - Any significant adverse impact on any groundwater-dependent ecosystems identified by Biodiversity-related Investigations Report or lead to water logging of significant areas of dry land vegetation; - Any increase in severity status of weeds or pests (as identified in the Biodiversity-related Investigations Report) in State Forest; - Increased spread of forest disease outside areas identified as infected by the Biodiversity-related Investigations Report; - Placing any species or ecological community into a higher category of threat (consistent with the expectations of the Forest Management Plan 2004 – 2013); and - Causing disturbance in defined buffer areas around ecological linkage and areas of zero disturbance identified in the Biodiversity-related Investigations Report.	4.4.1	Satisfactory during this period
Transport Corridor Route Plans	719:M10-1	Prior to the commencement of ground-disturbing activities (including mining and transport corridor construction activities) in any mining envelope (refer to Figure 2), the proponent shall prepare and submit a Transport Corridor Route Plan to the Minister for the Environment for endorsement on the advice of the Environmental Protection Authority and the Department of Conservation and Land Management. The Transport Corridor Route Plan shall: - Describe the route, area of disturbance and evaluation of alternative routes considered for each proposed transport corridor; and - Describe how the selected transport corridor route complies with the requirements of the Biodiversity-related Investigations Report and is in accordance with condition 9.	4.4.4	Not required at this stage
	719:M10-2	The proponent shall implement and comply with the Transport Corridor Route Plan required by condition 10-1	4.4.4	Not required at this stage
	719:M10-3	The proponent shall make the Transport Corridor Route Plan required by condition 10-1 publicly available	4.4.4	Not required at this stage
	719:M10-4	The Minister for the Environment may initiate a review and/or amendment of the endorsed Rehabilitation Plan referred to in condition 10-1	4.4.4	Not required at this stage
Bauxite Mining Plans	719:M11-1	At least 12 months prior to ground disturbing activities, the proponent shall prepare and submit a draft Bauxite Mining Plan to the Department of Environment, the Department of Conservation and Land Management, the Conservation Commission of Western Australia, the Environmental Management Liaison Group and the Stakeholder Consultation Group for review. The draft Bauxite Mining Plan shall: Incorporate the findings contained in the Biodiversity-related Investigations Report;	4.4.5	Not required at this stage

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		- Ensure that the areas for mining are consistent with the areas of zero disturbance, ecological linkages, and buffers identified in the Biodiversity-related Investigations Report and take into account the location of indicative fauna habitat zones as identified and in accordance with the requirements of the Forest Management Plan 2004 – 2013; - Set out the management and mitigation measures which will be undertaken to ensure that mining activities comply with conditions 9-1 and 9-2; - Set out monitoring and auditing to be conducted prior to, during and following mining activities; - Demonstrate how the proponent's implementation of the proposal protects the key biodiversity values identified in the Biodiversity-related Investigations Report and is in accordance with condition 9; and - Address the objectives of the Forest Management Plan 2004 – 2013.		
	719:M11-2	The proponent shall revise and submit the draft Bauxite Mining Plan, taking into account all comments and recommendations (if any) received under condition 11-1, to an independent Environmental Auditor chosen by the proponent (refer to Procedure 7) for review.	4.4.5	Not required at this stage
	719:M11-3	The proponent shall submit its response to review comments received under 11-1 together with the revised draft Bauxite Mining Plan and the report prepared by the Environmental Auditor (refer Procedure 7) to the Department of Conservation and Land Management and the Department of Environment for review	4.4.5	Not required at this stage
	719:M11-4	The proponent shall prepare a Final Bauxite Mining Plan, taking into account all comments and recommendations (if any) received from the independent Environmental Auditor referred in condition 11-2 and additional comments received under condition 11-3.	4.4.5	Not required at this stage
	719:M11-5	Prior to the commencement of ground-disturbing activities, the proponent shall submit the Final Bauxite Mining Plan and the report prepared by the independent Environmental Auditor (refer Procedure 7) to the Department of Environment and the Department of Conservation and Land Management who may advise the Minister for the Environment of any remaining deficiencies within the Bauxite Mine Plan in which case ground disturbing activities shall not commence until the Minister has made a determination.	4.4.5	Not required at this stage
	719:M11-6	The proponent shall implement and comply with the Final Bauxite Mining Plan.	4.4.5	Not required at this stage
	719:M11-7	The proponent shall make the Final Bauxite Mining Plan publicly available.	4.4.5	Not required at this stage
	719:M11-8	The proponent may revise and amend the Final Bauxite Mining Plan subject to the amended Final Bauxite Mining Plan undergoing review and revision as specified in condition 11-1, 11-2, 11-3, 11-4 and 11-5.	4.4.5	Not required at this stage
	719:M11-9	The Minister for the Environment may initiate a review and/or amendment of the Final Bauxite Mining Plan referred to in condition 11-6.	4.4.5	Not required at this stage
	719:M11-10	The proponent shall implement and comply with the amended Final Bauxite Mining Plan referred to in condition 11-6.	4.4.5	Not required at this stage
	719:M11-11	The proponent shall make the amended Final Bauxite Mining Plan referred to in condition 11-6 publicly available.	4.4.5	Not required at this stage
Rehabilitation	719:M12-1	On completion of the Biodiversity-related investigations referred to in condition 8, the proponent shall use the findings of the investigations to prepare and submit a draft Rehabilitation Plan for review to: - The Department of Conservation and Land Management; - The Conservation Commission of Western Australia - The Environmental Management Liaison Group (refer Procedure 5); and - The Stakeholder Consultation group (refer Procedure 6). The objectives of the draft Rehabilitation Plan are to ensure that: - Rehabilitation research and trials are targeted to the key issues facing the rehabilitation of the proposed bauxite mine areas; - Planning and implementation of rehabilitation is carried out in a manner consistent with industry best practice; - Planning and implementation of rehabilitation is carried out in a manner consistent with relevant objectives and strategies in the Forest Management Plan 2004 – 2013;	4.4.6	Not required at this stage

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		- Rehabilitated native vegetation in State Forest areas will ultimately develop into sustainable ecological systems which are compatible with surrounding native vegetation and its land uses, and approximates as closely as possible the pre-mining biodiversity and functional values; - Rehabilitated private land areas return to a mix of productive agricultural land and native vegetation compatible with the original native vegetation, which at least maintains the extent of the existing native vegetation and enhances ecological connectivity; and - The matters identified in the report entitled, "A review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine" prepared by URS Australia Pty Ltd relating to the assessment of ecosystem sustainability are given due consideration. The draft Rehabilitation Plan shall address the following topics which are relevant to the long term sustainable rehabilitation: Objectives for rehabilitation, including site specific variation, and objectives for the Forest Management Plan 2004 – 2013; - An outline of the proposed rehabilitation research priorities; - Conduct and application of research; - Topsoil management; - Targets for nutrient cycling; - Pest and disease control and management; - Targets for flora and fauna recruitment, including specific targets for: - The return of recalcitrant species; - The return of key fauna habitat; - The translocation of mature specimens of long-lived species required for fauna habitat (e.g. Xanthorrhoea and Macrozamia); - The recolonisation of invertebrate fauna; and - The recolonisation of mycorrhizal fungi. - Hydrological function; - Climate change consideration; - Integration with State Forest management; - Monitoring and adaptive management; - Plant species composition (including reference to the species listed in the report entitled, "a Review of the Rehabilitation at Worsley Alumina's Boddington Bauxite Mine" prepared by URS Australia Pty Ltd), including species vulnerability to fire; - Long term sustainability, including criteria for assessing ecosystem sustainability on natural and disturbed land; - Completion criteria including an overall requirement that no extraordinary residual management liability (above the normal cost of managing undisturbed forest) shall accrue to the land management authority unless agreed by the State. Completion criteria should have an objective of achieving integration of the rehabilitation areas into large scale prescribed burning programs for the purpose of fire management prior to the hand-back of responsibility to the State; and - Peer review and reporting.		
	719:M12-2	The proponent shall, at least twelve months prior to commencement of ground disturbing activities (including mining and transport corridor construction), prepare and submit a final Rehabilitation Plan, taking into account all comments and recommendations (if any) received under condition 12-1, to the Minister for the Environment for endorsement on the advice of the Environmental Protection Authority and the Department of Conservation and Land Management	4.4.6	Not required at this stage
	719:M12-3	The proponent shall implement and comply with the endorsed Rehabilitation Plan referred to in condition 12-2.	4.4.6	Not required at this stage
	719:M12-4	The proponent shall make the endorsed Rehabilitation Plan referred to in condition 12-2 publicly available	4.4.6	Not required at this stage
	719:M12-5	The proponent shall review the endorsed Rehabilitation Plan annually and present its findings in an Annual Environmental Report submitted to the Department of Environment. The review shall include the following: - Presentation of results of monitoring; and - Plans for improvement in rehabilitation to meet objectives and targets where necessary.	4.4.6	Not required at this stage
	719:M12-6	The proponent may revise and amend the endorsed Rehabilitation Plan referred to in condition 12-2, in accordance with the review of condition 12-5 and subject to the amended Rehabilitation Plan undergoing review and revision as specified in conditions 12-1.	4.4.6	Not required at this stage

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	719:M12-7	The Minister for the Environment may initiate a review and/or amendment of the endorsed Rehabilitation Plan referred to in condition 12-2.	4.4.6	Not required at this stage
	719:M12-8	The proponent shall submit the amended Rehabilitation Plan referred to in condition 12-6 to the Minister for the Environment for endorsement on the advice of the Environmental Protection Authority and the Department of Conservation and Land Management	4.4.6	Not required at this stage
	719:M12-9	The proponent shall implement and comply with the endorsed amended Rehabilitation Plan referred to in condition 12-7.	4.4.6	Not required at this stage
	719:M12-10	The proponent shall make the endorsed amended Rehabilitation Plan referred to in condition 12-7 publicly available.	4.4.6	Not required at this stage
Water Supply Protection	719:M13-1	Prior to the commencement of any ground disturbing activities in areas proclaimed as water reserves or catchment areas under the <i>Metropolitan Water Supply, Sewerage, and Drainage Act 1909</i> or under the <i>Country Areas Water Supply Act 1947</i>, the proponent shall prepare a Water Resource Management Plan to the requirements of the Minister for the Environment on advice of the Water and Rivers Commission and the Water Corporation The Water Resource Management Plan shall demonstrate that the ground disturbing activities shall have negligible impact on the quality and quantity of water supplies in the catchments.	4.4.8	Satisfactory during this period
	719:M13-2	The proponent shall implement and comply with the Water Resource Management Plan referred in condition 13-1.	4.4.8	Satisfactory during this period
	719:M13-3	The proponent shall make the Water Resource Management Plan referred in condition 13-1 publicly available	4.4.8	Satisfactory during this period
Air Quality Management Plan	719:M14-1	Prior to commencement of construction, the proponent shall prepare an Air Quality Management Plan to the requirements of the Minister for the Environment on advice of the Environmental Protection Authority. The objective of the Air Quality Management Plan is to ensure that best available practicable and efficient technologies are used to minimise and monitor air emissions from the refinery and bauxite residue disposal areas. The plan shall include: - An air quality improvement plan addressing priority areas. These will include mercury emissions from digestion and coal-fires cogeneration facility, fugitive dust emissions from bauxite residue disposal areas, VOC emissions from calciners, a program for the Air Emissions Impact Assessment project, and community consultation; - The results of a field odour assessment study; - An assessment of odour from the refinery catchment lake; - An ambient air monitoring program; - An emissions monitoring program, which includes odour, mercury, particulate, and VOC emissions from significant point and area sources; - Actions to control fugitive and point source particulate emissions; - Incident and complaints response; and - A program for annual reporting on air quality.	N/A	Completed
	719:M14-2	The proponent shall implement the Air Quality Management Plan required by condition 14-1.	N/A	Satisfactory during this period
	719:M14-3	The proponent shall make the Air Quality Management Plan required by condition 14-1 publicly available.	N/A	Completed
Water Resources	719:P1	Worsley will prepare and implement a Water Resource Management plan – Mining which takes into account changing rainfall patterns and which will address the following: - Assessment of salinity hazard and salt storage in soils in proposed mining areas; - Development of predictive tools to estimate the extent of water table rise due to mining operations; - Monitoring of salinity and level of groundwater in and near mining areas; - Monitoring of regional water quality (salinity) of streams and groundwater; - Contingency measures for salinity management; - Assessment of water dependent ecosystems in new mining areas; - A process for selection of water supplies for the mine including the evaluation of alternatives;	4.7	Satisfactory during this period

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
		- Improvement in the efficiency of water use; - Monitoring of water usage, groundwater level and any groundwater dependent ecosystems which may be affected by Worsley's groundwater abstraction; - Working arrangements for exploration and mining in public drinking water supply areas; - Establishment of appropriate stream buffer zones; - Spills management; and - Sediment control and drainage management in all areas where Worsley operates.		
Dust	719:P2	Worsley will prepare and implement a Dust Management Plan that addresses the following: - Suppression of dust from the construction of bauxite transport corridors and operation of overland conveyors; - Suppression of dust in all areas where Worsley operates, including the use of additives to reduce water consumption where appropriate; - Monitoring of dust levels at locations upwind and downwind of mining activities; and - Monitoring of the impact of dust on vegetation adjoining haul roads and the development of measures to address any identified significant adverse impacts.	N/A	Satisfactory during this period
Noise and Vibration	719:P3	Worsley will prepare and implement a noise and Vibration Management Plan – Mining, that will address the following: - Forecasting of operational noise; - Measures to ensure compliance with noise regulations. These will include mine planning and day to day noise forecasting; - Measures to control noise emissions from mining equipment; - Monitoring of operational and blast noise and vibration; - Implementation of corrective and preventative actions where in-house targets are exceeded; - Response to complaints; and - Community consultation.	N/A	Satisfactory during this period
Offsets	719:P4	Worsley will prepare and implement an offsets program that addresses the following: Establishing conservation areas: - Provision of an area of land comparable to the area of State Forest disturbed in new mining areas for conservation by means of conservation covenants or agreements; and - The timeframe for establishment of conservation areas in conjunction with Worsley's Ten Year Mine Plan. - Catchment and landscape enhancement for previously cleared land in the region: - Provision of up to \$100,000 pa for the duration of mining of private land, up to a maximum of 10 years; and - The timeframe for establishment catchment and landscape enhancement initiatives in conjunction with Worsley's 10 Year Mine Plan. - Specific management programs: - Identification and contribution to jarrah forest conservation initiatives including; - Research and understanding of jarrah forest biodiversity values; - Forest disease management; - Flora and fauna conservation programs.	4.4.7	Not required at this stage
Noise	719:P5	Worsley will prepare and implement a Noise Management Plan – Bauxite Transport, which will address: - Construction of bauxite transport corridors and operation of overland conveyors; - The use of noise emissions modelling results in the siting of transport corridors; - Monitoring of noise emissions from conveyor systems to demonstrate compliance with Agreement Act requirements; - Corrective and preventative actions where in house targets are exceeded; - Identification of potential noise sensitive premises; - Community consultation; and - Response to complaints	N/A	Satisfactory during this period
Management of biodiversity, forest resources and rehabilitation in Primary Bauxite Area	719:P6	Worsley will prepare and implement a Biodiversity and Forest Management Plan – Primary Bauxite Area that will address the following: Vegetation, flora and fauna A program of baseline flora and fauna surveys before mining to determine; - The occurrence and extent of vegetation communities; - The occurrence and extend to forest disease; and	4.5 4.6 ARP	Satisfactory during this period

Topic	Ministerial Condition	Ministerial Conditions	CAR Ref.	Status
		• Occurrence and abundance of vertebrate fauna, significant Short Range Endemic and other significant invertebrate taxa; • Seasonal flora and fauna surveys in adjoining mining areas; • Weed and feral animal control programs; • Forest hygiene procedures; • Identification of areas of potentially high conservation values in the Primary Bauxite Area; • Control measures to ensure that the biodiversity and sustainability of these areas will not be substantially adversely affected by mining and bauxite conveyors; and • Creation of wildlife corridors and establishment of fauna habitat zones in consultation with the State. • Rehabilitation • Description of rehabilitation process; • A program of research to improve rehabilitation outcomes, in particular to encourage recruitment of recalcitrant or rare and priority flora and fauna species into rehabilitated areas; • Monitoring of the establishment of flora and recruitment of fauna species into the rehabilitated areas; • A process for progressive development of completion criteria; • The use of local provenance seed in rehabilitation; • The re-creation of fauna habitat in rehabilitation; and • Rehabilitation of forest project areas affected by jarrah dieback caused by mining operations.		
Water Resources	719:P7	Worsley will prepare and implement a Water Resources Management Plan – Refinery that takes into account changing rainfall patterns and addresses: • Strategic water source planning; • Improvement in the efficiency of water use at the Refinery; • Protection of water quality in the Augustus River, which is located downstream of the refinery; • Maintenance of environmental water provisions; • Surface and groundwater quality monitoring; and • Management and clean-up of spills and onsite contamination	4.7	Satisfactory during this period