

BHP

Impact Reconciliation Procedure

Jimblebar Hub Iron Ore Mining Operations

FINAL

**December 2023
Version 1**

Version Control

Version	Description	Key changes	Date
Version 0	Draft version for Traditional Owner review	Original document	10/09/2023
Version 1	Final version submitted with referral of Jimblebar Hub Significant Amendment	Revision of document for the Combined Proposal (Jimblebar Hub Iron Ore Mining Operations)	11/12/2023

Abbreviations and Definitions

Term	Meaning
BHP	BHP Iron Ore Pty Ltd
CEO	Chief Executive Officer
DWER	Department of Water and Environmental Regulation
ECW	Enhanced Compressed Wavelet
EPA	Environmental Protection Authority
ESRI	Environmental Systems Research Institution
GDA2020	Geocentric Datum of Australia 2020
GeoTIFF	Geographic Tagged Image File Format
ha	Hectares
IBRA	Interim Biogeographic Regionalisation for Australia
the Instructions	<i>Instructions on how to prepare Environmental Protection Act 1986 Part IV Impact Reconciliation Procedures and Impact Reconciliation Reports (EPA 2021)</i>
IRP	Impact Reconciliation Procedure
IRR	Impact Reconciliation Report
m	metres
MRF	Mining Rehabilitation Fund
MS	Ministerial Statement
NVCP	Native Vegetation Clearing Permit

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1 The proposal and condition requirements

1.1 The Proposal

This Impact Reconciliation Procedure (IRP) has been prepared by BHP Iron Ore Pty Ltd (BHP) to support the referral of a significant amendment of Approved Proposals under the existing Ministerial Statements (439 (as amended by 1012), 1021 and 1126) for the Jimblebar Hub, the *Jimblebar Hub Iron Ore Mining Operations Significant Amendment* (the Significant Amendment Proposal). The IRP has been developed in accordance with the *Instructions on how to prepare Environmental Protection Act 1986 Part IV Impact Reconciliation Procedures and Impact Reconciliation Reports* (EPA 2021) (the Instructions).

The approval of the significant amendment will result in a single Ministerial Statement (MS) for the Jimblebar Hub Iron Ore Mining Operations (MSXXXX), and authorise clearing of up to 12,262 ha of native vegetation within the Jimblebar Hub Development Envelope (Figure 1). This IRP will apply to the Combined Proposal for the Jimblebar Hub (i.e. the existing Approved Proposals as amended by the Significant Amendment Proposal, if approved). Clearing associated with the Approved Proposals will continue to be covered under the endorsed Western Australia Iron Ore (WAIO) *Impact Reconciliation Procedure (V2.3)* (WAIO IRP) (BHP 2023) until the new Ministerial Statement for the Jimblebar Hub Iron Ore Mining Operation is granted (at which time clearing will then be covered under this IRP).

The purpose of this IRP is to outline the methods used to calculate the area of vegetation or environmental value/s impacted within the Hamersley and Fortescue Interim Biogeographic Regionalisation for Australia (IBRA) subregions of the Pilbara bioregion (Figure 2), in relation to the Jimblebar Hub Iron Ore Mining Operations.

1.2 Ministerial Statement condition requirements

BHP is required to implement the Jimblebar Hub Impact Reconciliation Procedure (this IRP) as per Condition B8-5 of MSXXXX (Table 1).

The relevant condition requirements for Condition B8 of MSXXXX are provided in Appendix 1.

Table 1: MSXXXX Condition B8 Offsets

Ministerial Statement	Title	Condition number
XXXX	Jimblebar Hub Iron Ore Mining Operations	B8 Offsets B8-1 to B8-13

2 Procedure

2.1 Identification of the environmental values requiring offsets

The environmental values required to be offset have been identified through the environmental impact assessments for the Jimblebar Hub Iron Ore Mining Operations, and by **Condition B8-1 of MSXXXX** (Table 2). BHP will contribution to the Pilbara Environmental Offsets Fund (PEOF) biennially, with the amount to be contributed calculated in accordance with the rates in **Condition B8-3 of MSXXXX** (Table 2).

Table 2: Environmental values that require offset and the contribution rate under **MSXXXX Condition B8**

Environmental value/s	Contribution rate		
	Condition	IBRA Subregion	Offset rate (\$/ha) ¹
Condition B8-1 (1) Good to Excellent condition Native vegetation	B8-3 (1)	Hamersley	945
	B8-3 (2)	Fortescue	1,891
Condition B8-1 (2) Ghost Bat critical foraging habitat	B8-3 (3)	Hamersley	1,891
	B8-3 (4)	Fortescue	3,781

1. Based on FY22/23 financial offset rates, to be indexed annually in accordance with the Perth - All Groups Consumer Index.

The environmental impact assessments found that following mitigation, there is potential for significant residual impacts on Terrestrial Fauna from the clearing of critical foraging habitat for the Ghost Bat. In addition, the Environmental Protection Authority (EPA) considered that the clearing of native vegetation in Good to Excellent condition is a significant residual impact on Flora and Vegetation due to the cumulative impacts of clearing in the Pilbara.

The Jimblebar Hub Significant Amendment Proposal identified the total extent of clearing of critical foraging habitat for Ghost Bat is up to 814 ha and will require offset (Table 3). It should be noted that while critical foraging habitat for the Ghost Bat was identified as a value in the Approved Proposal for MS1126, the offset of this value was captured under the offset for the clearing of native vegetation in Good to Excellent condition and not as a standalone offset requirement.

A total of up to 6,521 ha of native vegetation in Good to Excellent condition has been identified for the Jimblebar Hub Iron Ore Mining Operations as requiring offset (Table 3). This consists of 1,864 ha for the Jimblebar Hub Significant Amendment Proposal, and 4,657 ha from the Approved Proposals (specifically, 2,000 ha previously conditioned under MS1126, 2,500 ha under MS1021 and 157 ha under MS439 as amended by MS1012). This extent (6,521 ha) is the combined total for the Jimblebar Hub Iron Ore Mining Operations; as there are existing approved operations, some of this extent has already been cleared and reported accordingly under the WAIO IRP.

In order to avoid duplication of offsets, the extent of residual impact to be offset for vegetation in Good to Excellent condition, will exclude the extents to be offset for critical fauna habitats (where the vegetation is in Good to Excellent condition, noting 14 ha of critical habitat is in Poor condition), given that offsets for critical fauna habitat will be paid at the higher published rate.

As a result, the total extent requiring offset for the Jimblebar Hub Iron Ore Mining Operations is 6,535 ha. The extent of impacts to the environmental values to be offset are summarised in Table 3.

Table 3: Extents of environmental values to be offset under MSXXXX Condition B8

Significant residual impact	Environmental value/s	Extent of significant residual impact (ha)	Extent to be offset (ha)
Clearing native vegetation in Good to Excellent condition	Native vegetation in Good to Excellent condition within the Development Envelope	6,521 ¹	5,721 ²
Clearing of critical foraging habitat for Ghost Bat	Critical foraging habitat (Drainage Area/ Floodplain, Major Drainage Line, Minor Drainage Line and Mulga Woodland) for the Ghost Bat within the Development Envelope	814	814
Total extent to be offset			6,535

1. This total consists of 1,864 ha for the Jimblebar Hub Significant Amendment Proposal, 2,000 ha previously conditioned under MS1126, 2,500 ha under MS1021 and 157 ha under MS439 as amended by MS1012. Some of this extent has already been cleared for the Approved Proposals.
2. To avoid duplication, the extent to be offset for native vegetation in Good to Excellent condition excludes the extent to be offset for critical habitat. Noting that 14 ha of the critical habitat is in Poor condition, 800 ha is excluded from the extent to be offset for native vegetation in Good to Excellent condition.

2.1.1 Baseline survey information

The baseline biological survey information that establishes the extent and condition of the environmental values, is described below and further in Appendix 2.

Native vegetation in Good to Excellent condition

Vegetation condition mapping of the Development Envelope is based on the survey data from the most recent surveys undertaken for the area, which were undertaken in accordance with the EPA Technical Guidance for Flora and Vegetation (EPA 2016).

There are some areas of the Development Envelope that have not had vegetation condition mapped (408 ha, representing 1.7% of the Development Envelope) (Figure 3). These areas correspond to the historical Jimblebar mining area or gaps in mapping coverage. There is no clearing expected to occur in the unmapped areas; however, if the clearing does occur within the unmapped areas, it will be assumed that the vegetation in the area is in Good to Excellent condition.

Of the 12,262 ha of clearing for the Jimblebar Hub Iron Ore Mining Operations, up to 6,521 ha of native vegetation is in Good to Excellent condition and will require offset (Table 3).

The vegetation condition data was mapped spatially and is stored in an internal spatial database. The internal spatial database also contains the IBRA subregion spatial dataset as defined by the Australian Government Department of Climate Change, Energy, the Environment and Water (DCCEEW), as required by the Instructions.

Critical foraging habitat for Ghost Bat

Detailed fauna habitat mapping of the Development Envelope was undertaken in accordance with the EPA Technical Guidance for Vertebrate Fauna relevant at the time of surveying (EPA 2020). A total of 11 fauna habitat types were identified and mapped within the Development Envelope (Figure 4). Of these habitat types, Drainage Area/ Floodplain, Major Drainage Line, Minor Drainage Line and Mulga Woodland habitat types were identified as critical foraging habitat for Ghost Bat where they occur in proximity (<12km) to critical roosting

habitat¹ (Figure 4), and when they are in Poor or better condition². These habitat types have been mapped occurring across approximately 7,151 ha of the Development Envelope.

Based on habitat and condition mapping, the total extent of clearing of critical foraging habitat for Ghost Bat is up to 814 ha and will require offset (Table 3). This comprises approximately 22 ha within the Hamersley IBRA subregion and 792 ha within the Fortescue IBRA subregion.

2.1.2 Offset exemptions

This IRP applies only to clearing within the Development Envelope authorised under **MSXXXX** for the Jimblebar Hub Iron Ore Mining Operations. While the Development Envelope crosses into the Augustus subregion of the Gascoyne bioregion, the environmental values only apply to Hamersley and Fortescue subregions of the Pilbara bioregion (Figure 2).

As discussed under Section 2.1, the Jimblebar Hub Significant Amendment Proposal identified the clearing of critical foraging habitat for Ghost Bat as a significant residual impact requiring offset. This offset requirement only applies to clearing approved as part of the Jimblebar Hub Significant Amendment Proposal and not clearing approved under the Approved Proposals.

It is noted that some of the authorised clearing within Jimblebar Hub Iron Ore Mining Operations is exempt from offsets. Table 4 summarises the offset exemptions that will apply to **MSXXXX**.

BHP notes that the Instructions require the offset exemption areas to be accurately documented and clearly delineated from those areas subject to offsets that are addressed in this IRP. It is important to note that in practice for Ministerial Statements, there is no spatial definition (i.e. a polygon) of the exempt areas; clearing is authorised anywhere within the Development Envelope and while unlikely, may not necessarily align with the Indicative Footprint provided during the assessment of a proposal.

Table 4: Clearing exempt from offsets under **MSXXXX Condition B8**

Condition	Condition requirement	Exemption area (ha)
B8-12	The clearing of 4,644 ha of native vegetation previously authorised under Ministerial Statements 683, 809 and 857 prior to 22 October 2015 is exempt from the requirement to offset under condition B8-2	4,644 ¹
B8-13	The clearing of 636 ha of native vegetation previously authorised under Ministerial Statement 439 prior to 3 February 2015 is exempt from the requirement to offset under condition B8-2	636 ²

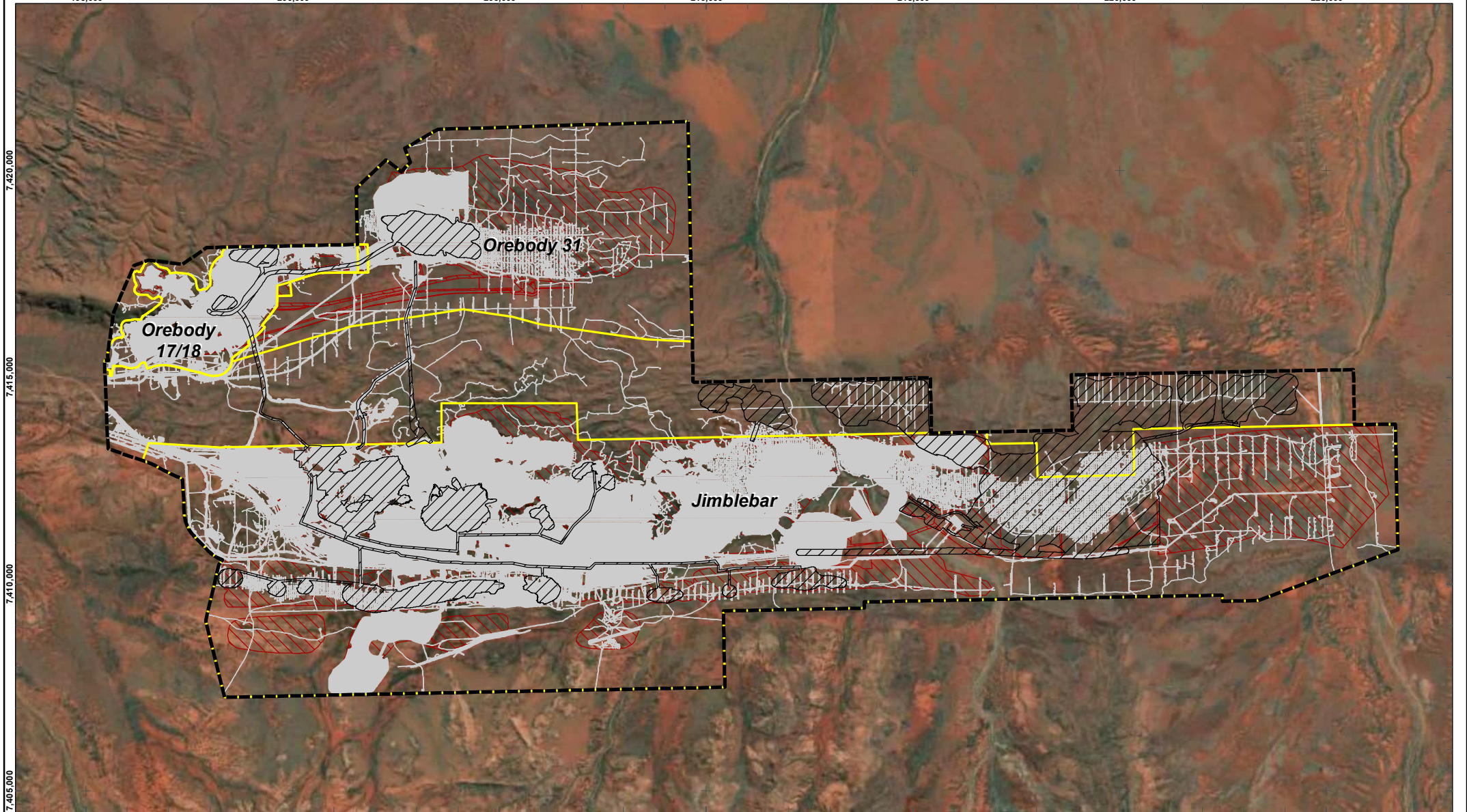
1. This area comprises 2,022 ha authorised under MS683, 580 ha under MS809, and 2,042 ha under MS857






2. This corresponds to the area authorised under MS439

The Jimblebar Hub Iron Ore Mining Operations comprised existing mining operations and therefore, a large portion of these exemption amounts have been met. Specifically, 4,279 ha of clearing has already taken place attributed to the exemption area for Condition B8-12, and 636 ha of clearing attributed to the exemption area for Condition B8-13. These areas have been tracked and reported under the WAIO IRP.

¹ Critical roost habitat is considered to be caves classified as Category 1 or Category 2 roosts. While no Category 1 or Category 2 roosts occur within the Development Envelope, two Category 2 roosts occur adjacent (within 3 km) to the Development Envelope (Figure 4) and as such, suitable habitat within the Development Envelope is within the foraging range to these caves and is therefore classified as critical foraging habitat.

² The extent of critical foraging habitat for Ghost Bat coincides with vegetation in Poor to Excellent condition. The extent of the critical foraging habitat with vegetation in Degraded or Completely Degraded condition is excluded on the basis that these areas are highly unlikely to support the species as they lack the key features required to support foraging (i.e. treed vegetation that provides foraging perches) and/or are significantly less productive when compared to the surrounding critical foraging habitat within the Development Envelope in Poor or better condition.



-  Jimblebar Hub Development Envelope
-  Significant Amendment Indicative Footprint
-  Indicative Cleared Area as at FY2022
-  Approved Proposal Indicative Footprint
-  Approved Proposal Ministerial Statement boundaries

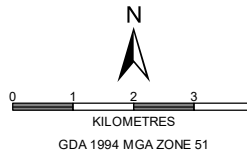


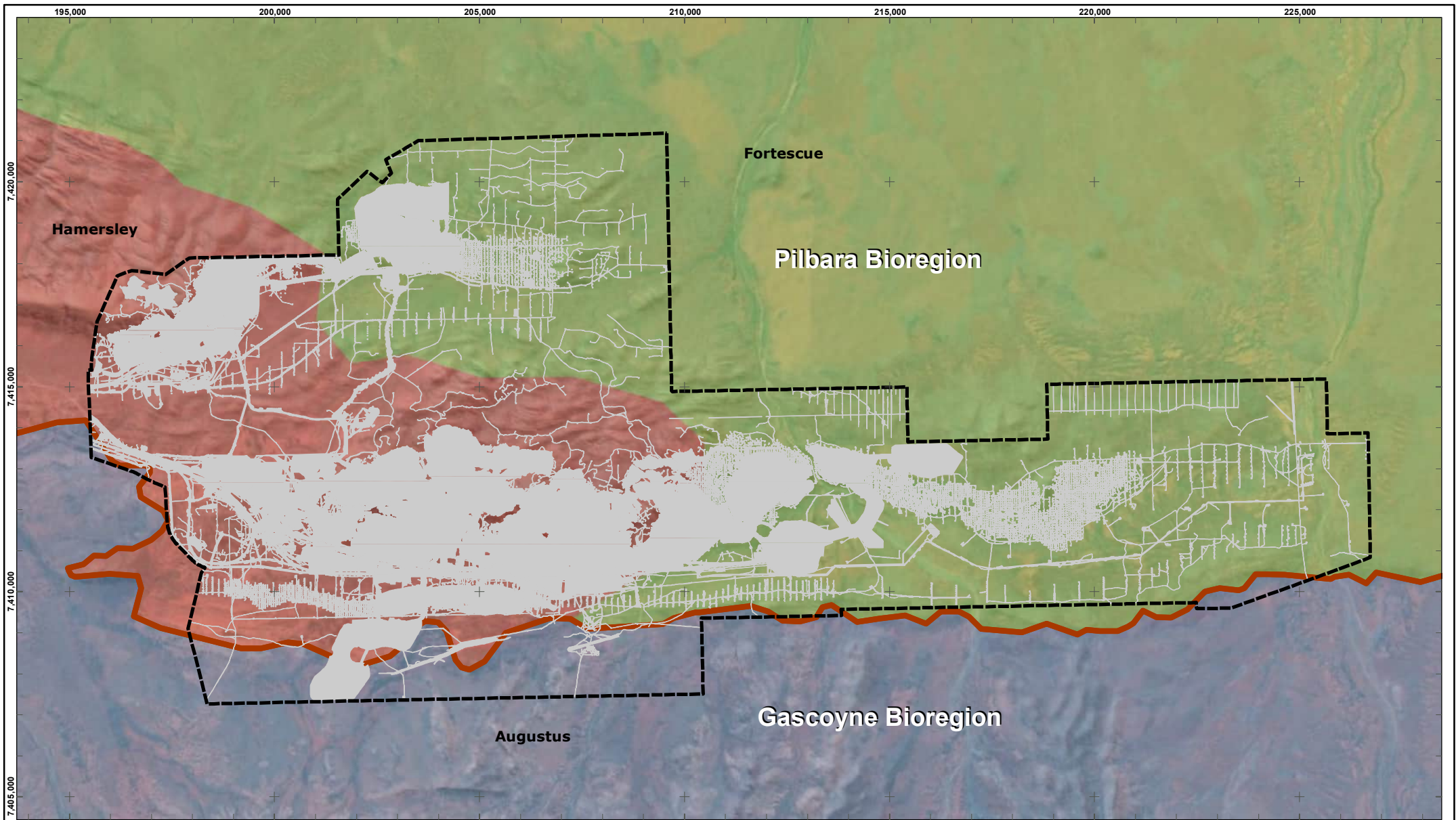
PUBLIC







**JIMBLEBAR HUB
IMPACT RECONCILIATION PROCEDURE
Development Envelope**

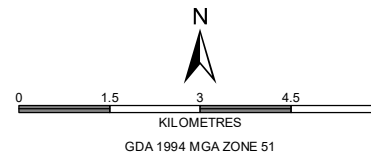
PLANNING & STANDARDS - IRON ORE

SCALE @ A4:	1:125,000	PREPARED:	SPATIAL DATA	FIGURE:	1
DATE:	23/11/2023	REQUESTOR:	ENV. APPROVALS	NO:	1021/114B





-  Jimblebar Hub Development Envelope
-  Indicative Cleared Area as at FY2022
-  IBRA bioregions
- IBRA subregions**
-  Augustus
-  Fortescue
-  Hamersley



BHP PUBLIC

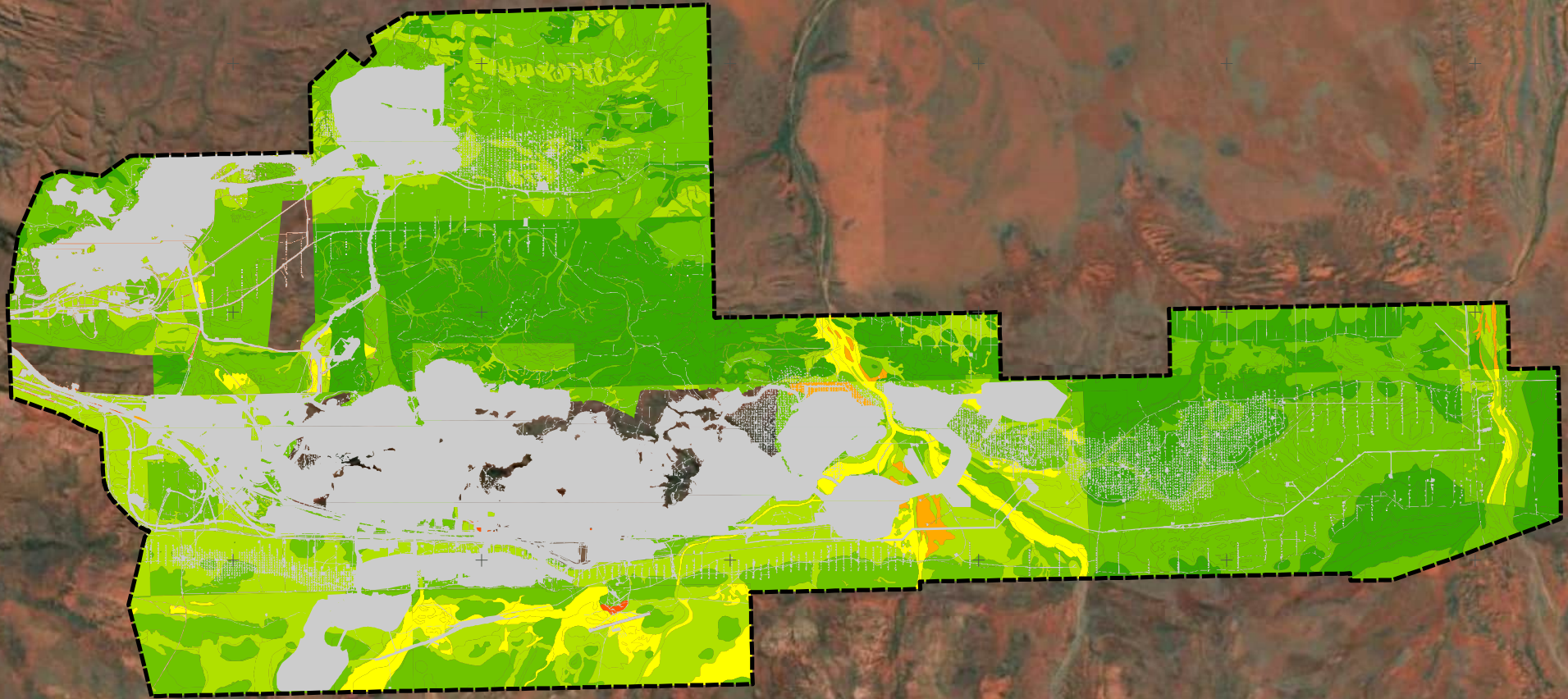
**JIMBLEBAR HUB
IMPACT RECONCILIATION PROCEDURE
IBRA Bioregions and Subregions**



PLANNING & STANDARDS - IRON ORE

SCALE @ A4:	1:125,000	PREPARED:	SPATIAL DATA	FIGURE:	2
DATE:	23/11/2023	REQUESTOR:	ENV. APPROVALS	NO:	1021/115B

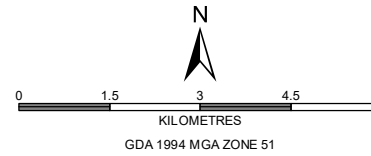
195,000 200,000 205,000 210,000 215,000 220,000 225,000

7,405,000 7,410,000 7,415,000 7,420,000



 Jimblebar Hub Development Envelope
 Indicative Cleared Area as at FY2022

 Excellent
 Very Good
 Good
 Poor
 Degraded
 Completely Degraded



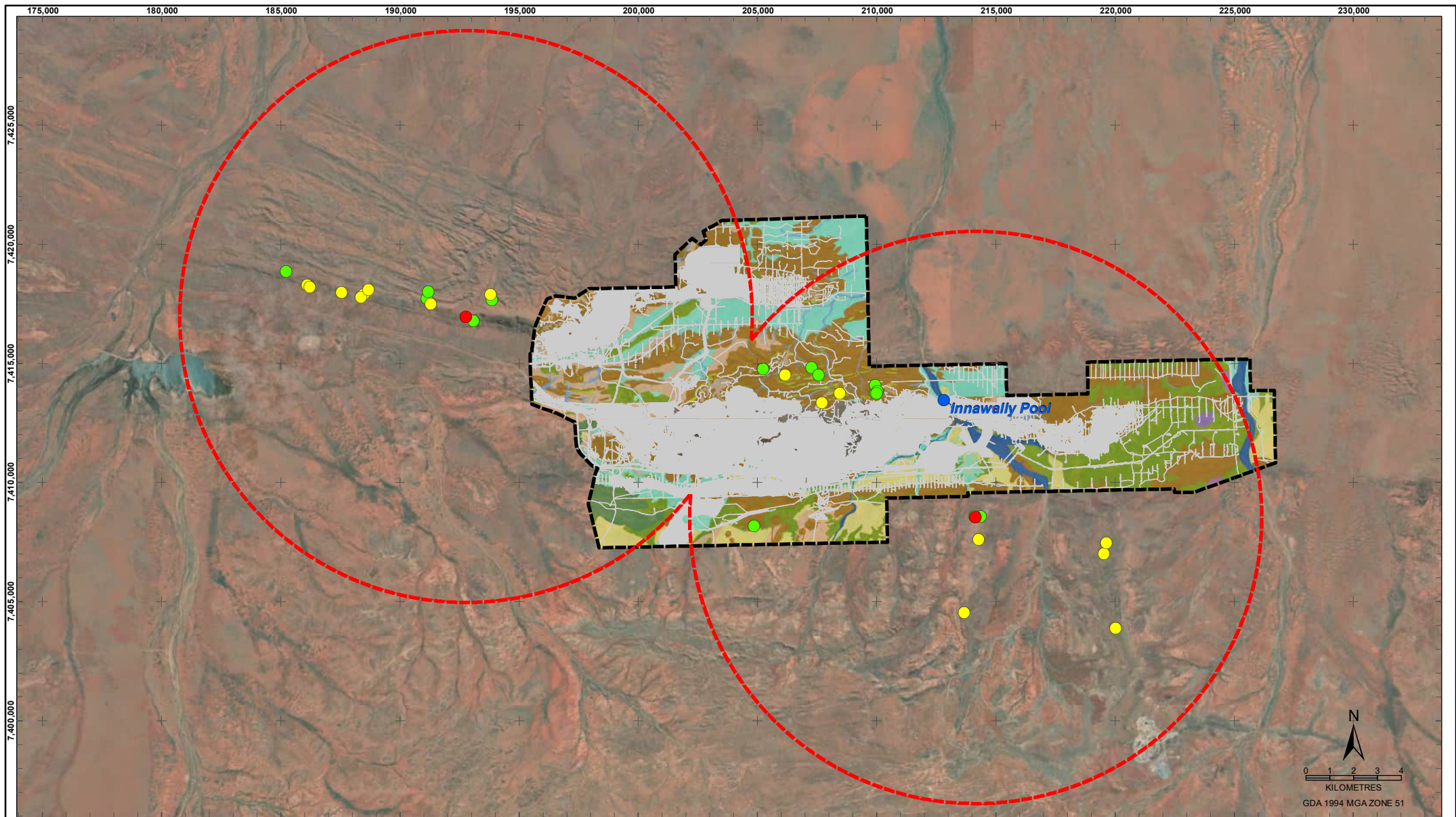
BHP

PUBLIC

**JIMBLEBAR HUB
 IMPACT RECONCILIATION PROCEDURE
 Vegetation Condition**

PLANNING & STANDARDS - IRON ORE

SCALE @ A4: 1:125,000 PREPARED: SPATIAL DATA FIGURE: 3
 DATE: 23/11/2023 REQUESTOR: ENV. APPROVALS NO: **1021/116B**



- Jimblebar Hub Development Envelope
- Indicative Cleared Area as at FY2022
- Category 2 Roost 12km Foraging Range

- Ghost Bat roosts**
- Category 2 Roost
 - Category 3 Roost
 - Category 4 Roost

- Critical habitat type**
- Drainage Area/ Floodplain
 - Major Drainage Line
 - Minor Drainage Line
 - Mulga Woodland

- Non-critical habitat type**
- Breakaway/ Cliff
 - Claypan
 - Gorge/ Gully

- Hardpan Plain
- Hillcrest/ Hillslope
- Sand Plain
- Stony Plain

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PUBLIC

**JIMBLEBAR HUB
IMPACT RECONCILIATION PROCEDURE
Fauna Habitats and Cave Features**

PLANNING & STANDARDS - IRON ORE

SCALE @ A4: 1:215,000 PREPARED: SPATIAL DATA FIGURE: 4
 DATE: 14/12/2023 REQUESTOR: ENV. APPROVALS NO: **1021/117B**

2.2 Method to determine impacts

As discussed in Section 2.1, flora and vegetation surveying (including vegetation condition assessment and mapping) and vertebrate fauna surveying (including identification and mapping of fauna habitats for threatened fauna species) of the Development Envelope were undertaken in accordance with EPA Technical Guidance (EPA 2016, 2020). The vegetation condition and fauna habitat mapping completed during the surveys is considered to form the baseline state of the environmental values for this IRP (described further in Appendix 1).

Jimblebar Hub comprises existing mining operations (Approved Proposals). As discussed in Section 1.1, clearing associated with the Approved Proposals will continue to be covered under and reported against the endorsed WAIO IRP (BHP 2023) until the new Ministerial Statement for the Jimblebar Hub Iron Ore Mining Operation is granted (following which clearing will then be covered under this IRP).

2.2.1 Impacts

BHP will use the methodology detailed in Steps 1-3 below to calculate the amount of land disturbance (i.e. clearing of native vegetation) within the Development Envelope. This will result in a verified Land Disturbance dataset that is used to determine the amount of clearing that is required to be offset against the environmental value/s (i.e. Step 4).

The verified Land Disturbance dataset is also used to update the baseline datasets for the condition of vegetation and state of environmental value/s that is to be used for the next financial year reconciliation.

This process will be repeated annually to determine the amount of clearing in each financial year, as is required to be reported in the Impact Reconciliation Report (IRR) (see Section 3.2).

Step 1 - Remotely Sensed data

BHP sources appropriate remotely sensed data (i.e. aerial photography or satellite imagery) for the area of the IRR. The remotely sensed data may come from a variety of sources and where appropriate, it will be mosaicked together. The mosaicked remotely sensed data is then re-sampled to 1 m resolution. This remotely sensed data set is used for the capture of the land clearing that is to be supplied as an end deliverable dataset.

Step 2 - Land Disturbance data

Direct land disturbance (i.e. clearing) is captured on a periodic basis throughout the financial year. The data is captured via digitising the land disturbance visible in orthophotos and/or satellite imagery, at a scale of 1:2,000.

All land disturbance data is then attributed with the reporting year, responsible operational entity, the underlying approval and the proposed or actual land-use (using the Department of Mines, Industry Regulation and Safety Mining Rehabilitation Fund (MRF) classifications). Where there are multiple approvals within the same area, the site responsible person is accountable for allocating the land disturbance to the appropriate approval.

Step 3 - Data review

Following the capture of the Land Disturbance data, the dataset is reviewed at the end of each financial year to ensure:

- all land disturbance activities for the financial year period have been identified
- accurate and clean boundaries (removal of overlaps and correction of anomalies)
- data attribute completeness and correctness.

As BHP captures land disturbance/clearing at a scale of 1:1,000 (i.e. +/- 0.5 m on the ground), any polygon slivers or gaps in the dataset under one square metre are ignored and are considered acceptable in the context of analysing datasets at vastly different scales.

Step 4 - Processing of environmental value/s datasets

BHP have developed a methodology which automates the process of combining Land Disturbance, IBRA subregions and environmental value/s (e.g. vegetation condition) datasets to ensure the process of deriving the final offset calculation is consistent and repeatable. The process manipulates the datasets (e.g. clips inputs to the project Development Envelope, cleans any overlaps) to match the requirements of the Instructions, resulting in a final area calculation.

3 Reporting

3.1 Frequency and timing

As discussed in Section 2.2, any clearing undertaken within the Jimblebar Hub for the Approved Proposals will continue to be managed under the endorsed WAIO IRP until the new Ministerial Statement is granted for the Jimblebar Hub Ore Iron Mining Operation. The first biennial reporting period for this IRP is expected to commence in FY2025. Table 5 documents the timing of the biennial reporting periods for the Jimblebar Hub Iron Ore Mining Operations to end of life.

As per the Instructions, the IRR will be submitted no later than four months after the conclusion of the biennial reporting period. As specified in Table 5, BHP propose to submit the IRR on the last business day in September following the end of the reporting period.

Table 5: Reporting period and frequency of the Impact Reconciliation Reports

Biennial period	Action	Timing
	Ministerial Statement XXXX issued	TBC
	Proposal clearing commences under MSXXXX	Estimated to commence FY2025
Period 1	First biennial reporting period	1 July 2024 to 30 June 2026
	IRR submitted to DWER	30 September 2026
Period 2	Second biennial reporting period	1 July 2026 to 30 June 2028
	IRR submitted to DWER	30 September 2028
Period 3	Third biennial reporting period	1 July 2028 to 30 June 2030
	IRR submitted to DWER	28 September 2030
Period 4	Fourth biennial reporting period	1 July 2030 to 30 June 2032
	IRR submitted to DWER	30 September 2032
Period 5	Fifth biennial reporting period	1 July 2032 to 30 June 2034
	IRR submitted to DWER	30 September 2034
Period 6	Sixth biennial reporting period	1 July 2034 to 30 June 2036
	IRR submitted to DWER	30 September 2036
Period 7	Seventh biennial reporting period	1 July 2036 to 30 June 2038
	IRR submitted to DWER	30 September 2038
Period 8	Eighth biennial reporting period	1 July 2038 to 30 June 2040
	IRR submitted to DWER	30 September 2040
Period 9	Ninth biennial reporting period	1 July 2040 to 30 June 2042

Biennial period	Action	Timing
	IRR submitted to DWER	30 September 2042
Period 10	Tenth biennial reporting period	1 July 2042 to 30 June 2044
	IRR submitted to DWER	30 September 2044
Period 11	Eleventh biennial reporting period	1 July 2044 to 30 June 2046
	IRR submitted to DWER	30 September 2046
Period 12 Final reporting period	Twelfth biennial reporting period	1 July 2046 to 30 June 2048
	IRR submitted to DWER	30 September 2048

3.2 Impacts and reconciliation

Ground-disturbing activities for the will wholly occur within the Jimblebar Hub Development Envelope. Clearing is ongoing for the existing operations authorised under the Approved Proposal, with new proposed clearing for the Significant Amendment Proposal expected to commence in FY2025 once the new Ministerial Statement for the Jimblebar Hub Iron Ore Mining Operations is granted.

As discussed in Section 2.1, clearing of vegetation in Good to Excellent condition and of critical foraging habitat for Ghost Bat within the Hamersley and Fortescue IBRA subregions of the Pilbara bioregion for the Jimblebar Hub Iron Ore Mining Operations will be up to 6,535 ha. The Jimblebar Hub Iron Ore Mining Operations is estimated to have a maximum project life of 36 years (comprising construction and mine operations), with no clearing expected to occur beyond 2046. As detailed in Section 2.2, the clearing of vegetation will be captured spatially and reconciled against the baseline data (for vegetation condition and fauna habitats) within the Development Envelope.

As per **Condition B8-7 of MSXXXX**, the IRR will provide the location and spatial extent of the clearing undertaken within each biennial reporting period. More specifically, the following information will be submitted in each IRR:

- amount of clearing (ha) of fauna habitats identified as critical foraging habitat for Ghost Bat, within the Hamersley and Fortescue IBRA subregions of the Pilbara bioregion that has occurred during each financial year of the reporting period, including the offset rate
- amount of clearing (ha) of vegetation in Good to Excellent condition, within the Hamersley and Fortescue IBRA subregions of the Pilbara bioregion that has occurred during each financial year of the reporting period, including the offset rate
- information used to validate amount of clearing (e.g. aerial imagery, remote sensing data, digitised polygons and/or ground-truthing surveys) in each financial year
- information regarding any exemptions, other clearing approvals or reductions to contributions to the fund (e.g. where impacts have occurred that are applied to a different Ministerial Statements or NVCP)
- forward estimate of impacts expected to be reported in subsequent reporting periods
- details and spatial data for historical impacts excluded from offset requirements.

4 References

BHP Iron Ore Pty Ltd (BHP) (2020) *Biodiversity Survey Spatial Data Requirements Procedure*. Document number SPR-IEN-EMS-015. Version 11.0. Published January 2020.

BHP Iron Ore Pty Ltd (BHP) (2023) *Impact Reconciliation Procedure*. Document number 0147312. Version 2.3. Published February 2023.

Environmental Protection Authority (EPA) (2016) *Technical Guidance - Flora and Vegetation Surveys for Environmental Impact Assessment*. Environmental Protection Authority. Western Australia. Published 13 December 2016.

Environmental Protection Authority (EPA) (2020) *Technical Guidance - Terrestrial vertebrate fauna surveys for environmental impact assessment*. Environmental Protection Authority. Western Australia. Published 1 July 2020.

Appendices

Appendix 1 Ministerial Statement **XXXX** Condition 8 requirements

Condition number	Condition requirements
B8 Offsets	
B8-1	<p>The proponent must contribute funds to the Pilbara Environmental Offsets Fund calculated pursuant to condition B8-2, to achieve the objective of counterbalancing the significant residual impacts to:</p> <ol style="list-style-type: none"> (1) Good to Excellent condition native vegetation (2) Ghost Bat critical foraging habitat
B8-2	<p>The proponent's contribution to the Pilbara Environmental Offsets Fund must be paid biennially, with the amount to be contributed calculated based on the clearing undertaken in each year of the biennial reporting period in accordance with the rates in condition B8-3. The first biennial reporting period must commence from ground disturbing activities of the environmental value(s) identified in condition B8-3.</p>
B8-3	<p>Calculated on the 2022-2023 financial year, the contribution rates are:</p> <ol style="list-style-type: none"> (1) \$945 AUD (excluding GST) per ha of the following environmental values cleared as a result of the proposal within the Hamersley IBRA subregion: <ol style="list-style-type: none"> (a) Good to Excellent condition native vegetation (2) \$1,891 AUD (excluding GST) per ha of the following environmental values cleared as a result of the proposal within the Fortescue IBRA subregion: <ol style="list-style-type: none"> (a) Good to Excellent condition native vegetation (3) \$1,891 AUD (excluding GST) per ha of the following environmental values cleared as a result of the proposal within the Hamersley IBRA subregion: <ol style="list-style-type: none"> (a) Ghost Bat critical foraging habitat (4) \$3,781 AUD (excluding GST) per ha of the following environmental values cleared as a result of the proposal within the Fortescue IBRA subregion: <ol style="list-style-type: none"> (a) Ghost Bat critical foraging habitat.
B8-4	<p>The rates in condition B8-3 change annually each subsequent financial year in accordance with the percentage change in the CPI applicable to that financial year.</p>
B8-5	<p>To achieve the objective in condition B8-1, the proponent must implement the Jimblebar Hub Impact Reconciliation Procedure:</p> <ol style="list-style-type: none"> (1) spatially define the environmental value(s) identified in condition B8-1 (2) spatially define the areas where offsets required by condition B8-1 are to be exempt (3) include a methodology to calculate the amount of clearing undertaken during each year of the biennial reporting period for each of the environmental values identified in condition B9-3 (4) state that clearing calculation for the first biennial reporting period will commence from ground disturbing activities in accordance with condition B8-2 and end on the second 30 June following commencement of ground disturbing activities (5) state that clearing calculations for each subsequent biennial reporting period will commence on 1 July of the required reporting period, unless otherwise agreed by the CEO (6) indicate the timing and content of the Impact Reconciliation Reports; and

Condition number	Condition requirements
	(7) be prepared in accordance with Instructions on how to prepare <i>Environmental Protection Act 1986 Part IV Impact Reconciliation Procedures and Impact Reconciliation Reports</i> (or any subsequent revisions).
B8-6	The proponent must submit an Impact Reconciliation Report in accordance with the confirmed Impact Reconciliation Procedure in condition B8-5.
B8-7	The Impact Reconciliation Report required pursuant to condition B8-6 must provide the location and spatial extent of the clearing undertaken as a result of the proposal during each year of each biennial reporting period.
B8-8	The proponent may apply in writing and seek the written approval of the CEO to reduce all or part of the contribution payable under condition B8-3 where: <ul style="list-style-type: none"> (1) a payment has been made to satisfy a condition of an approval under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> in relation to the proposal; and (2) the payment is made for the purpose of counterbalancing impacts of the proposal on matters of national environmental significance.
B8-9	The CEO may grant approval to discount the amount payable under condition B8-1(2), if the CEO is satisfied that the payment will offset the significant residual impacts of the proposal.
B8-10	Condition C2 applies to the confirmed Impact Reconciliation Procedure required by condition B8-5 as if it were an environmental management plan.
B8-11	Failure to implement a confirmed Impact Reconciliation Procedure or submit an Impact Reconciliation Report as required by condition B8-6 represents a non-compliance with these conditions.
B8-12	The clearing of 4,644 ha of native vegetation previously authorised under Ministerial Statements 683, 809 and 857 prior to 22 October 2015 is exempt from the requirement to offset under condition B8-2.
B8-13	The clearing of 636 ha of native vegetation previously authorised under Ministerial Statement 439 prior to 3 February 2015 is exempt from the requirement to offset under condition B8-2.

Appendix 2 Baseline spatial data associated with the environmental value requiring offset

Flora, vegetation and vertebrate fauna surveying of the Development Envelope was undertaken in accordance with the EPA Technical Guidance relevant at the time of surveying (EPA 2016, 2020). The flora and vegetation surveying included the assessment and mapping of vegetation condition. The condition of vegetation was mapped using the Vegetation Condition Scale for the Eremaean and Northern Botanical Provinces as per Table 2 in the EPA Technical Guidance (EPA 2016). The vertebrate fauna survey included the identification and mapping of fauna habitats, and an assessment of their importance to threatened fauna species that are known to occur in the Development Envelope.

All baseline environmental survey data captured during the surveys was supplied to BHP in accordance with BHP Data Standards (document SPR-IEN-EMS-015) (BHP 2020). The BHP Data Standards ensure a consistent and repeatable method of capturing environmental survey data. The survey data is stored on BHP's internal database system following review for technical and spatial accuracy.

This baseline environmental survey data and existing land disturbance data is considered to form the pre-clearing extent and baseline state (of vegetation condition and fauna habitats) for this IRP.

The following spatial data is provided to support this IRP, as per the Instructions:

- **boundary:** the Jimblebar Hub (Amended Proposal) Development Envelope
- **baseline:** vegetation condition mapping (baseline survey data), fauna habitat mapping (baseline survey data), clearing/ land disturbance up to the date the approval of the Amended Proposal, and IBRA subregions
- **imagery:** aerial imagery for the extent of the Development Envelope.

All spatial data is provided in a format that complies with the requirements of the Instructions, and as per the following parameters:

- **data type:** closed polygons for boundary and baseline data attributes as per Table 6 of the Instructions
- **format:** shapefiles or Environmental Systems Research Institution (ESRI) geodatabase format
- **coordinate system:** Geocentric Datum of Australia 2020 (GDA2020) datum, projected into the appropriate Map Grid of Australia zone
- **imagery:** Enhanced Compressed Wavelet (ECW) format or Geographic Tagged Image File Format (GeoTIFF), at a minimum 1 m resolution.