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WESTERN AUSTRALIA

# Clearing Assessment Report

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Western Australia.*

Lamb Creek Iron Ore Project – Great  
Northern Highway Intersection

January 2025

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# Amendments

Report Compilation & Review	Name and Position	Document Revision	Date
Authors:	Morgan Sejournee Environmental Scientist (AECOM) James Pederick Principal Environmental Scientist	Rev B	22 April 2022
Reviewer:	Linda Kirchner Technical Director – Environment	Rev B	22 April 2022
Reviewer:	Neil Smith Principal Environmental Advisor MinRes	Rev B	10 June 2022
Author:	James Pederick Principal Environmental Scientist	Rev 0	9 August 2022
Reviewer:	Kate Thomson Technical Director - Environment	Rev 0	9 August 2022
Author:	James Pederick Principal Environmental Scientist	Rev 1	8 September 2022
Reviewer:	Kate Thomson Technical Director - Environment	Rev 1	8 September 2022
Author:	James Pederick Principal Environmental Scientist	Rev 2	01 November 2022
Reviewer:	Alix Chinnery Principal Environmental Scientist	Rev 2	01 November 2022
Author:	Gefen Juran Graduate Environmental Scientist	Rev 3	30 May 2024
Reviewer:	Margaret Dunlop Principal Environmental Scientist	Rev 3	31 May 2024

Reviewer following client comment:	Margaret Dunlop Principal Environmental Scientist	Rev 4	5 July 2024
Reviewer:	Alix Chinnery Associate Director - Project Management, Environment WA	Rev 00	20 January 2025

## 1 PURPOSE

The purpose of this Clearing Assessment Report (CAR) is to provide a report detailing the assessment of native vegetation clearing required for the construction and operation of the proposed Lamb Creek Iron Ore Project intersection on the Great Northern Highway.

The CAR outlines the key activities associated with the project, the existing environment and an assessment of native vegetation clearing. This assessment provides an evaluation of the vegetation clearing impacts associated with the project using the ten Clearing Principles, and the strategies used to manage vegetation clearing.

## 2 SCOPE

### 2.1 Project Scope

**Project Name:** Lamb Creek Iron Ore Project – Great Northern Highway Intersection

**Project Purpose / Components:** Process Minerals International (ACN 063 988 894), a wholly owned subsidiary of Mineral Resources Limited (ACN 118 549 910), herein MinRes, is progressing development of the Lamb Creek Iron Ore Project (LCIOP), a new iron ore mine situated approximately 130 kilometres by road northwest of Newman in Western Australia. Development of the LCIOP will include construction of an intersection linking the proposed mine access road with the GNH. In addition to the intersection, MinRes requires the installation of acceleration and turning lanes to provide access into and out of the LCIOP from the GNH, and upgrade of associated existing surface water drainage features. There will also be a construction compound area south of the GNH intersection for material stockpiling and other construction support services.

This clearing application is only relevant to the southern disturbance area of the LCIOP at the intersection with the GNH (as shown in Figure 1) as clearing for the main access road and mine site activities is being sought separately through a Section 38 referral under Part IV of the EP Act (submitted 8 January 2025, APP-0026940). The GNH intersection and associated clearing is located within Main Roads WA (MRWA) road reserve. A significant portion of the Development Envelope (22%) is existing road or previously disturbed area.

**The proposed clearing is:** 8.6 ha of native vegetation within a 13.2 ha Development Envelope.

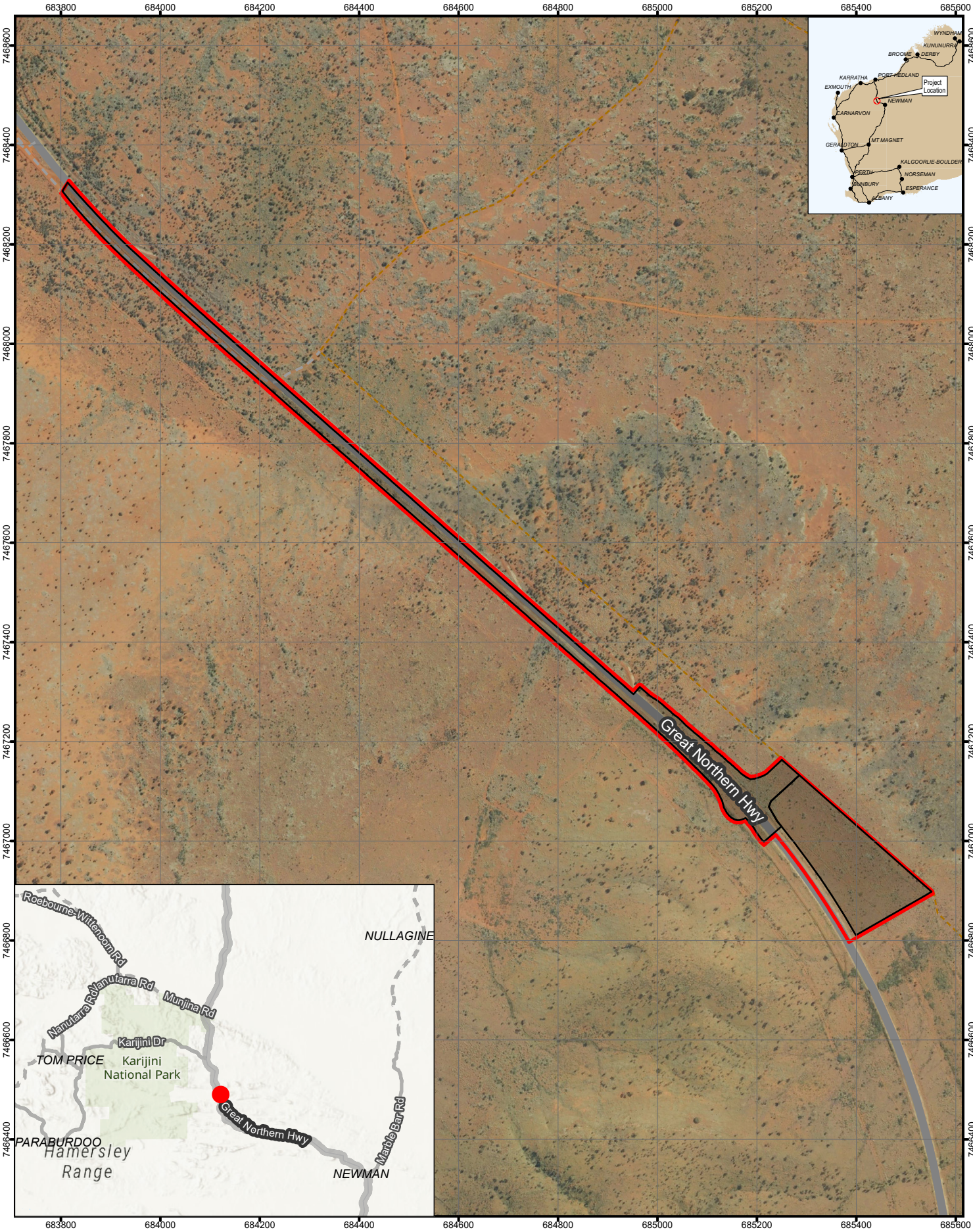
**The proposed temporary clearing is:** None

**Project Location(s):** The project area is located on the GNH, between SLK 1293 and 1295 in the Shire of East Pilbara as shown in Figure 1.

### 2.2 Assessment Report Scope

The assessment area, see Figure 2 is confined to a local area of a 5 km radius.





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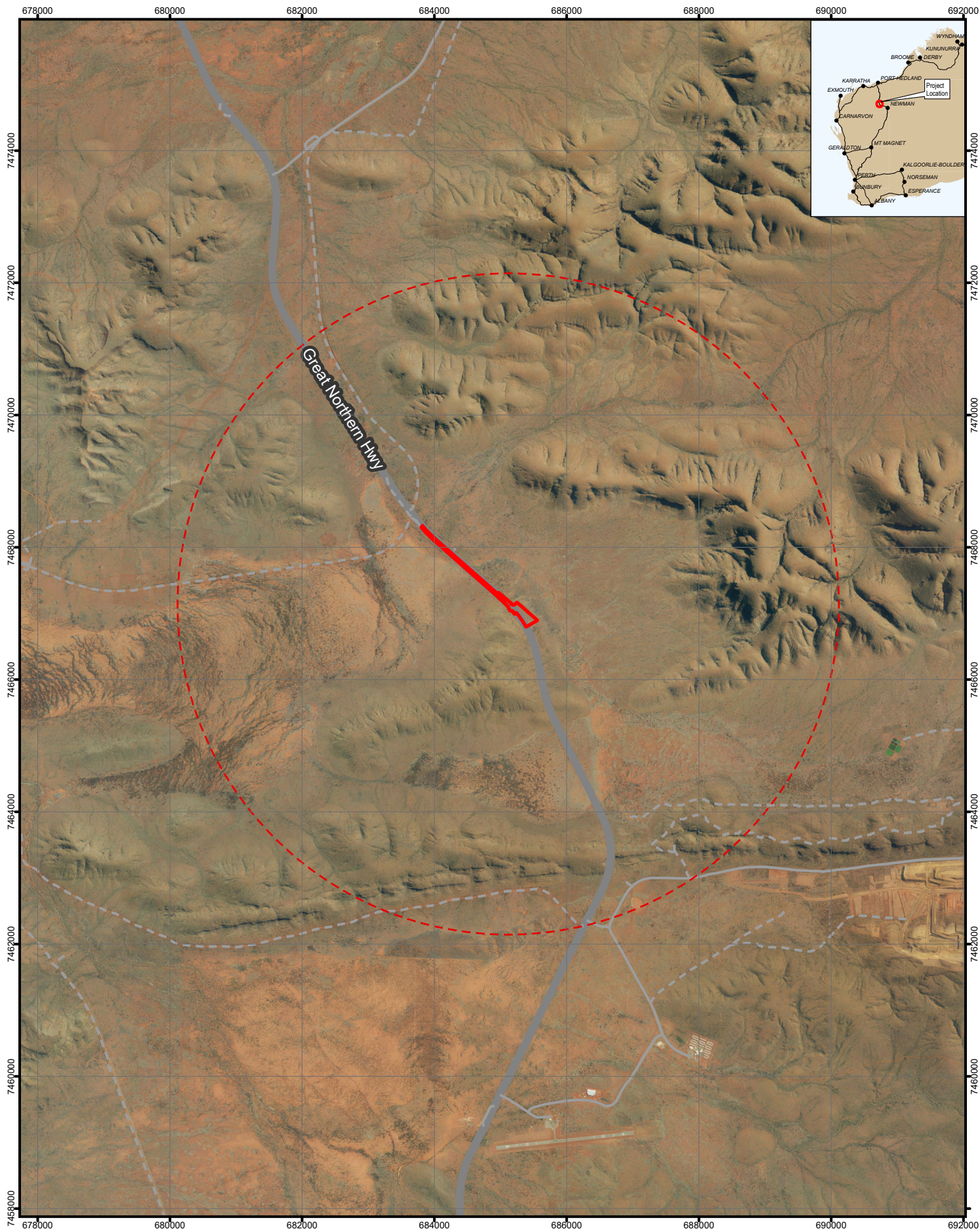
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metres

Data sources:  
Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).  
Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS  
WMS:  
World Hillshade: Esri, USGS

- LEGEND
- Development Envelope (DE)
  - Indicative Footprint (IF)

Project Area	
MINERAL RESOURCES LIMITED (MINRES)	Figure 1
LAMB CREEK IRON ORE PROJECT – GREAT NORTH HIGHWAY INTERSECTION, CLEARING ASSESSMENT REPORT	





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Base Data: (c) Based on information provided by and with the permission of the Western Australian Land Information Authority trading as Landgate (2010).  
Service Layer Credits: World Topographic Map: Esri, HERE, Garmin, FAO, NOAA, USGS  
WMS:  
World Hillshade: Esri, USGS

- LEGEND
- Development Envelope (DE) 5km Buffer
  - Development Envelope (DE)

### Project Location and Study Area

#### MINERAL RESOURCES LIMITED (MINRES)

LAMB CREEK IRON ORE PROJECT –  
GREAT NORTH HIGHWAY  
INTERSECTION, CLEARING  
ASSESSMENT REPORT

Figure  
**2**



## 2.3 Measures to Avoid, Minimise, Reduce and Manage Project Clearing Impacts

The design and management measures implemented to avoid and minimise the clearing impacts by the project are provided in the Construction Environmental Management Plan (CEMP).

Further details on how the clearing impacts have been avoided and minimised include:

- Environmental and heritage requirements included in the site induction and pre-starts;
- Demarcate clearing boundaries prior to clearing;
- Clearing activities managed to ensure machinery stays within the approved clearing area;
- Pre-Starts to detail the approved clearing areas and what environmental values they contain;
- Infrastructure used to maintain surface drainage patterns, if required (e.g. culverts, diversion);
- Construction during rainfall avoided where practicable;
- Hygiene inspections conducted for all vehicles and machinery, prior to entry and exit to site;
- A hygiene inspection checklist will be used to record the results of hygiene inspections;
- Inspections will be conducted to assess compliance with the CEMP during operations;
- A practical completion inspection will be conducted to assess compliance completion of clearing; and
- Results of CEMP inspections will be recorded using an inspection checklist.

## 2.4 Approved Policies and Planning Instruments

The clearing of native vegetation in Western Australia is regulated under the EP Act and the *Environmental Protection (Clearing of Native Vegetation) Regulations 2004* (Clearing Regulations).

In addition to the matters considered in accordance with section 51O of the EP Act, MinRes has also had regard to the below instruments.

### **Other Legislation of relevance for assessment of clearing and planning/other matters**

- *Biodiversity Conservation Act 2016* (WA) (BC Act).
- *Conservation and Land Management Act 1984* (WA) (CALM Act).
- *Country Areas Water Supply Act 1947* (WA) (CAWS Act).
- *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act).
- *Planning and Development Act 2005* (WA) (P&D Act).
- *Soil and Land Conservation Act 1945* (WA).
- *Rights in Water and Irrigation Act 1914*.
- *Aboriginal Heritage Act 1972* (WA).
- *Town Planning and Development Act 1928*.

### **Other Relevant policies and guidance documents**

- Environmental Offsets Policy (Government of Western Australia, 2011);
- A guide to the assessment of applications to clear native vegetation (DEC, December 2014);
- Procedure: Native vegetation clearing permits (DWER, October 2019);
- Environmental Offsets Guidelines (Government of Western Australia, August 2014);
- Technical guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA, 2016a);
- Technical guidance – Terrestrial Vertebrate Fauna Surveys for Environmental Impact Assessment (EPA, 2020);
- Approved conservation advice under section 266B of the EPBC Act for threatened flora/fauna/vegetation communities;
- Significant Impact Guidelines 1.1 – Matters of National Environmental Significance (DEWHA, 2013);
- Approved Recovery Plans for threatened species; and
- Strategic advice – EPA.

### 3 SUMMARY OF SURVEYS

#### 3.1 Biological Surveys

The detailed and targeted flora, detailed fauna and short-range endemic surveys were undertaken by Rapallo Environmental during 2020 and 2021. An additional vegetation survey of the Development Envelope was undertaken by Umwelt in August 2022. MinRes commissioned these biological surveys to delineate key flora and fauna values and potential sensitivity of these values to impact. The survey areas covered the greater LCIOF areas which includes the Great Northern Highway Road Reserve Project Area. The desktop assessment and biological survey have been used to determine whether there are any potential constraints associated with the Project activities.

Section 3.1.1 contains the summary of the surveys.

##### 3.1.1 Summary of Biological Survey

###### **Detailed flora and vegetation survey of the Great Northern Highway intersection**

Rapallo Environmental (Rapallo) conducted a single phase detailed vegetation and flora survey of the Great Northern Highway intersection area over a six-day period in May 2021 to support the LCIOF. The desktop study component found 86 conservation significant vascular flora taxa from within 60 km of the Lamb Creek GNH Intersection project area. A likelihood assessment identified eleven taxa that were either confirmed, likely to occur, or may potentially occur in the Lamb Creek GNH Intersection survey area. Five of these were recorded within the greater LCIOF area during the surveys, 2 taxon was recorded within the proposed GNH intersection Development Envelope (the subject of this NVCP application).

The desktop study identified forty-eight introduced taxa (weeds). Nine of these taxa were recorded in the greater LCIOF survey area during the field survey, with only one weed taxa recorded in the GNH intersection Development Envelope.

###### **Targeted conservation significant flora survey of the Lamb Creek project area**

A targeted conservation significant flora survey was conducted over two phases, from 15-29 April 2020 and 12-17 May 2021 over the greater LCIOF area. The survey identified the following conservation significant flora species:

- *Aristida lazaridis* (Listed as Priority 2 by the DBCA)
- *Aristida jerichoensis* var. *subspinulifera* (Listed as Priority 3 by the DBCA)
- *Eremophila* sp. Hamersley Range (Listed as Priority 3 by the DBCA)
- *Goodenia nuda* (Previously listed as Priority 4 by the DBCA, now delisted)
- *Rhagodia* sp. Hamersley (M.E. Trudgen 17794) (Listed as Priority 3 by the DBCA)
- *Rostellularia adscendens* var. *latifolia* (Listed as Priority 3 by the DBCA)
- *Seringia exastia* (Previously listed as Critically Endangered under the EPBC Act and BC Act, now delisted under BC Act)

No additional species were recorded in the Great Northern Highway intersection area in the Umwelt (2022) targeted flora survey.

Two potentially undescribed taxon, *Euphorbia* aff. *ferdinandi* and *Corchorus* sp. were recorded from the Great Northern Highway intersection area (outside the Development Envelope) in Rapallo 2021 and Umwelt 2022 respectively. These taxon may represent new species. Of the above species only *Aristida lazaridis* and *Aristida jerichoensis* var. *subspinulifera* occurs within the current clearing permit application area with 22 individuals and 1 individual respectively occurring in the proposed Development Envelope, but outside the Indicative Footprint.

### **Detailed Vertebrate Fauna Survey of the Lamb Creek Project**

The detailed vertebrate fauna survey conducted by Rapallo Environmental (2022b) documents the results of a desktop assessment and two detailed vertebrate fauna field surveys (April 2020 and February 2021) across a 1645 ha survey area. The desktop study identified 301 species of terrestrial vertebrate fauna recorded within 50 kilometres of the survey area., including 157 birds, 46 mammals, 91 reptiles, and 7 amphibians. Discounting species listed as marine, the fauna desktop study identified 29 taxa of conservation significant fauna of which twelve were assessed as possible, likely, or confirmed to occur in the greater LCIOP survey area.

Five species of vertebrate fauna listed as conservation significant under either the BC Act or EPBC Act or ranked as a Priority species by the Department of Biodiversity Conversation and Attractions (DBCA) have been recorded from or proximal to the greater LCIOP area to date. These are listed below:

- Northern quoll (*Dasyurus hallucatus*) listed Endangered under both the EPBC Act and BC Act – Confirmed, recorded in 2012.
- Ghost bat (*Macroderma gigas*) listed Vulnerable under both the EPBC Act and the BC Act – Confirmed, recorded in 2012, 2020 and 2021.
- Western pebble-mound mouse (*Pseudomys chapmani*) DBCA Priority 4 – Confirmed, mounds recorded throughout the Lamb Creek survey area in 2012 and 2020.
- Fork-tailed Swift (*Apus pacificus*) listed migratory and marine under the EPBC Act – Confirmed, recorded in 2012.
- Pilbara olive python (*Liasis olivaceus barroni*) listed Vulnerable under both the EPBC Act and the BC Act – Confirmed, recorded in 2012.

A further three species of conservation significance were considered likely to occur within the greater LCIOP survey area. These were Peregrine Falcon (*Falco peregrinus* – listed Other Specially Protected Fauna under the BC Act), Gane's blind snake (*Anilius ganei* – DBCA Priority 1), and Pilbara barking gecko (*Underwoodisaurus seorsus* – DBCA Priority 2).

Seven broad fauna habitat types were identified within the greater LCIOP survey area. These include, in decreasing order of extent; Stony plain, Hillcrest/hillslope, Mulga/Corymbia plain, Minor drainage, Tussock grassland plain, medium drainage and Gorge, gully and rocky breakaway. Additionally, a small portion of the surveyed LCIOP area comprised cleared areas. For the GNH intersection area, a significant portion (22 %) of the area within the Development Envelope has been previously cleared/disturbed (includes the existing road), with the remainder Mulga/Corymbia plain.



### **Baseline Short-range Endemic Invertebrate Survey of the Lamb Creek Iron Ore Project**

The desktop SRE invertebrate investigation conducted by Rapallo Environmental (2022c) comprised searches of the Western Australian Museum Invertebrate databases. A 200 by 200 km search area centred on the greater LCIOP yielded a total of 8894 records of SRE category taxa (i.e. taxa belonging to taxonomic groups prone to shortrange endemism). Of these records, six taxa were assessed to be SRE and 376 were assessed as potential SRE. The remainder were assessed as widespread. Thirteen records of potential SRE taxa were collected from the greater LCIOP survey area from the pseudoscorpion and scorpion groups.

No confirmed SRE invertebrate taxa were collected from the LCIOP survey area. The Development Envelope does not contain typical habitat for restricted terrestrial invertebrate fauna species such as rocky gorges and springs and the species are unlikely to occur in the Development Envelope.

### **Detailed and Targeted Flora and Vegetation Survey**

A detailed and targeted flora and vegetation survey was undertaken by Umwelt in 2022 to address gaps in the previous surveys. A total of 328 discrete vascular flora taxa representing 45 families and 137 genera were recorded in the Study Area, including seven introduced taxa. One Threatened taxon (*Seringia exastia*) was recorded within the Study Area. A further seven significant flora taxa were recorded within the Study Area including DBCA listed Priority (P) taxa, and two potentially undescribed taxa, as listed below:

- *Aristida jerichoensis* var. *subspinulifera* (P3)
- *Aristida lazaridis* (P2)
- *Corchorus* sp. (Potentially undescribed)
- *Eremophila naaykensis* (P3)
- *Euphorbia ferdinandi* s. lat. (Potentially undescribed)
- *Hibiscus* sp. Gurinbiddy Range (M.E. Trudgen MET 15708) (P2)
- *Rhagodia* sp. Hamersley (M. Trudgen 17794) (P3)

No new conservation significant flora species were identified in the Development Envelope.

## 4 VEGETATION DETAILS

### 4.1.1 Project Site Vegetation Description

The Project is located within the Pilbara Craton bioregion, within the Hamersley subregion. The Pilbara Craton bioregion, described in CALM (2002), has an active drainage system including Fortescue, De Grey and Ashburton River systems. The Hamersley subregion, described by Kendrick (2001), is the southern section of the Pilbara Craton and consists of a mountainous area of Proterozoic sedimentary ranges and plateaux dissected by gorges. The vegetation consists of Mulga low woodland over bunch grasses on valley floors with *Eucalyptus leucophloia* over *Triodia* on skeletal soils of ranges. Rare features of the subregion include the Gorges of the Hamersley Range (particularly in Karijini National Park), Palm Spring and Duck Creek, Themeda grasslands of the Pilbara, and Red Hill Station Mulga stands in the extreme west of the subregion. Dominant land use includes grazing, Unallocated Crown Land and Crown Reserve, native pastures, Conservation, and mining.

Beard (1976) mapping is used to determine the current extent of remnant vegetation remaining when compared to pre-European vegetation extent. The EPA's objective is to retain at least 30% of all pre-European ecological communities, which is consistent with recognised retention levels (EPA, 2016b).

Two vegetation associations occur within the proposed Indicative Footprint of the GNH intersection, these include Vegetation Association 18 described as low woodland with mulga (*Acacia aneura*) and Vegetation Association 82 described as hummock grasslands, low tree steppe; snappy gum over *Triodia wiseana* (Government of Western Australia, 2019).

Table 1 and Table 2 provide details of the Pre-European Vegetation Associations within the Development Envelope and the remaining extents of these associations. For a full description of the existing vegetation, refer to the Detailed flora and vegetation survey of the Great Northern Highway intersection – Lamb Creek Project (Rapallo, 2021).

**Table 1 Summary of Project Area's Mapped Pre-European Vegetation Association(s)**

Pre-European Vegetation Association(s) (Government of Western Australia, 2019)	Clearing Description	Vegetation Condition	Comments
<b>Vegetation Association 82</b> described as hummock grasslands, low tree steppe; snappy gum over <i>Triodia wiseana</i>	Clearing up to 6.3 ha	Native vegetation considered to be in Good condition (Rapallo Environmental 2021)	Vegetation description determined by the 2018 Statewide Vegetation Statistics (Government of Western Australia, 2019) and condition determined from the biological survey undertaken by Rapallo Environmental in 2021 (Rapallo Environmental, 2021).
<b>Vegetation Association 18</b> described as low woodland with mulga ( <i>Acacia aneura</i> )	Clearing of up to 6.9 ha	Native vegetation considered to be in Good condition (Rapallo Environmental 2021)	Vegetation description determined by the 2018 Statewide Vegetation Statistics (Government of Western Australia, 2019) and condition determined from the biological survey undertaken by Rapallo Environmental in 2021 (Rapallo Environmental, 2021).

**Table 2 Pre-European Vegetation Representation**

Pre-European Vegetation Association	Scale	Pre-European (ha)	Current Extent (ha)	% Remaining	% Remaining in DBCA Reserves
<b>Veg Assoc No. 18</b>	<b>Statewide</b>	19,892,306.5	19,843,148.1	99.7	6.6
	<b>IBRA Bioregion</b> Pilbara	676,556.7	671,843.3	99.3	25.2
	<b>IBRA Sub-region</b> Hamersley	581,246.1	576,541.7	99.2	29.3
	<b>Local Government Authority</b> Shire of East Pilbara	359,372.1	355,446.5	98.9	1.5
<b>Veg Assoc No. 82</b>	<b>Statewide</b>	2,565,901.3	2,553,206.2	99.5	11.5
	<b>IBRA Bioregion</b> Pilbara	2,563,583.2	2,550,888.1	99.5	11.5
	<b>IBRA Sub-region</b> Hamersley	2,177,573.9	2,165,224.2	99.4	13.5
	<b>Local Government Authority</b> Shire of East Pilbara	927,709.8	919,072.2	99.1	0.5



## 5 ASSESSMENT AGAINST THE TEN CLEARING PRINCIPLES

In assessing whether the project's proposed clearing is likely to have a significant impact on the environment, the project was assessed against the ten Clearing Principles (Environmental Protection Act 1986, Schedule 5).

Each principle has been assessed in accordance with DWER's 'A Guide to the Assessment of Applications to Clear Native Vegetation' and other relevant CPS Decision Reports prepared by DWER.

### (a) Native vegetation should not be cleared if it comprises a high level of biological diversity.

Comments	Proposed clearing is not considered to be at variance to this Principle														
	<p>The Project is located within the Pilbara Craton bioregion, within the Hamersley subregion.</p> <p>The Pilbara Craton bioregion, described in CALM (2002), has an active drainage system including Fortescue, De Grey and Ashburton River systems. The Hamersley subregion, described by Kendrick (2001), is the southern section of the Pilbara Craton and consists of a mountainous area of Proterozoic sedimentary ranges and plateaux dissected by gorges. The vegetation consists of Mulga low woodland over bunch grasses on valley floors with <i>Eucalyptus leucophloia</i> over <i>Triodia</i> on skeletal soils of ranges. Rare features of the subregion include the Gorges of the Hamersley Range (particularly in Karijini National Park), Palm Spring and Duck Creek, Themeda grasslands of the Pilbara, and Red Hill Station Mulga stands in the extreme west of the subregion. Dominant land use includes grazing, Unallocated Crown Land and Crown Reserve, native pastures, Conservation, and mining.</p> <p>Two vegetation associations occur within the Indicative Footprint, these include Vegetation Association 18 described as low woodland with mulga (<i>Acacia aneura</i>) and Vegetation Association 82 described as hummock grasslands, low tree steppe; snappy gum over <i>Triodia wiseana</i> (Government of Western Australia, 2019).</p> <p>It is expected that the proposed clearing within the Indicative Footprint will impact the following native vegetation communities within the survey area (Umwelt 2022).</p>														
	<table> <tr> <th>Code</th><th>Vegetation Type Description</th><th>Extent Within Area to be Cleared (ha)</th><th>% of Area to be Cleared</th></tr> <tr> <td>3</td><td>Isolated trees of <i>Corymbia hamersleyana</i>, <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>E. gamophylla</i> over low sparse shrubland of mixed <i>Acacia</i> species over low hummock grassland of <i>Triodia pungens</i> and <i>T. wiseana</i> on red-brown sandy clay loam on mid to lower slopes with ironstone pebbles.</td><td>6.2</td><td>72.1</td></tr> <tr> <td>7</td><td>Isolated trees of <i>Corymbia hamersleyana</i>, <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>Eucalyptus xerothermica</i> over low open to sparse shrubland dominated by <i>Acacia aptaneura</i>, <i>A. aneura</i> and <i>A.</i></td><td>1.2</td><td>14.0</td></tr> </table>	Code	Vegetation Type Description	Extent Within Area to be Cleared (ha)	% of Area to be Cleared	3	Isolated trees of <i>Corymbia hamersleyana</i> , <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>E. gamophylla</i> over low sparse shrubland of mixed <i>Acacia</i> species over low hummock grassland of <i>Triodia pungens</i> and <i>T. wiseana</i> on red-brown sandy clay loam on mid to lower slopes with ironstone pebbles.	6.2	72.1	7	Isolated trees of <i>Corymbia hamersleyana</i> , <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>Eucalyptus xerothermica</i> over low open to sparse shrubland dominated by <i>Acacia aptaneura</i> , <i>A. aneura</i> and <i>A.</i>	1.2	14.0		
Code	Vegetation Type Description	Extent Within Area to be Cleared (ha)	% of Area to be Cleared												
3	Isolated trees of <i>Corymbia hamersleyana</i> , <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>E. gamophylla</i> over low sparse shrubland of mixed <i>Acacia</i> species over low hummock grassland of <i>Triodia pungens</i> and <i>T. wiseana</i> on red-brown sandy clay loam on mid to lower slopes with ironstone pebbles.	6.2	72.1												
7	Isolated trees of <i>Corymbia hamersleyana</i> , <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> and <i>Eucalyptus xerothermica</i> over low open to sparse shrubland dominated by <i>Acacia aptaneura</i> , <i>A. aneura</i> and <i>A.</i>	1.2	14.0												

Comments	Proposed clearing is not considered to be at variance to this Principle			
		<i>pruinocarpa</i> over low tussock grassland to sparse tussock grassland dominated by <i>Themeda</i> sp. Mt Barricade (M.E. Trudgen 2471), <i>Enneapogon polyphyllus</i> , <i>Chrysopogon fallax</i> and <i>Aristida</i> spp. With occasional <i>Triodia pungens</i> on red brown clay loam with some ironstone pebbles on plains.		
	8	Isolated trees of <i>Eucalyptus xerothermica</i> over tall open to sparse shrubland of <i>Hakea lorea</i> subsp. <i>lorea</i> and <i>Acacia aptaneura</i> over low open tussock grassland of <i>Aristida contorta</i> , <i>A. inaequiglumis</i> and <i>Themeda triandra</i> on red-brown sandy clay to clay on plains.	0.7	8.1
	9	Low open woodland of <i>Corymbia hamersleyana</i> , <i>C. deserticola</i> subsp. <i>deserticola</i> , <i>Eucalyptus gamophylla</i> and <i>Eucalyptus leucophloia</i> subsp. <i>leucophloia</i> over tall sparse shrubland of <i>Acacia atkinsoniana</i> and occasional <i>A. ancistrocarpa</i> and <i>A. aptaneura</i> over low hummock grassland dominated by <i>Triodia pungens</i> and occasional <i>T. wiseana</i> with <i>Paraneurachne muelleri</i> also dominant on red-brown clay loam with ironstone pebbles on plains.	0.5	5.8
	Total		8.6	100%
	None of the native vegetation communities that intersect with the Indicative Footprint align with conservation significant vegetation such as Priority Ecological Communities (PECs) or Threatened Ecological Communities (TECs) (Umwelt 2022). Furthermore, no vegetation within the Indicative Footprint is considered to provide an important function required to maintain ecological integrity of a significant ecosystem (as defined by EPA, 2016a) (Rapallo Environmental, 2021).			
A targeted conservation significant flora survey completed by Rapallo Environmental (2022a) and the subsequent survey by Umwelt (2022) recorded eight significant flora taxa within the broader LCIOF survey area. These species include: <ul style="list-style-type: none"><li>• <i>Seringia exastia</i> (Previously listed as Critically Endangered under the EPBC and BC Act, now delisted under BC Act)</li><li>• <i>Aristida lazaridis</i> (Listed as Priority 2 by the DBCA)</li><li>• <i>Aristida jerichoensis</i> var. <i>subspinulifera</i> (Listed as Priority 3 by the DBCA)</li><li>• <i>Eremophila</i> sp. Hamersley Range (Listed as Priority 3 by the DBCA)</li><li>• <i>Goodenia nuda</i> (Previously listed as Priority 4 by the DBCA, now delisted)</li><li>• <i>Rhagodia</i> sp. Hamersley (M. Trudgen 17794) (Listed as Priority 3 by the DBCA)</li><li>• <i>Rostellularia adscendens</i> var. <i>latifolia</i> (Listed as Priority 3 by the DBCA)</li><li>• <i>Euphorbia</i> aff. <i>Ferdinandi</i> (potentially undescribed).</li></ul> A total of 22 individuals of the Priority 2 flora species <i>Aristida lazaridis</i> were recorded within the GNH Indicative Footprint. This species is locally restricted to the GNH flora survey area, with approximately 12,773 individuals recorded during the targeted GNH				

Comments	Proposed clearing is not considered to be at variance to this Principle
	<p>intersection conservation significant flora survey (Rapallo Environmental, 2022a). One individual of <i>Aristida jerichoensis</i> var. <i>subspinulifera</i> was also recorded in the Development Envelope (Umwelt 2022).</p> <p>Rapallo Environmental (2021) recorded nine introduced species across their survey area. These species include:</p> <ul style="list-style-type: none"> <li>• <i>*Aerva javanica</i></li> <li>• <i>*Bidens bipinnata</i></li> <li>• <i>*Stylosanthes hamata</i></li> <li>• <i>*Malvastrum americanum</i></li> <li>• <i>*Cenchrus ciliaris</i></li> <li>• <i>*Cenchrus setiger</i></li> <li>• <i>*Melinis repens</i></li> <li>• <i>*Portulaca oleracea</i></li> <li>• <i>*Solanum lasiophyllum</i>.</li> </ul> <p>Only <i>*Melinis repens</i> was recorded in the Development Envelope of the intersection.</p> <p>128 species of vertebrate fauna were recorded during the 2020 detailed fauna survey of the greater Lamb Creek Project area (Rapallo Environmental, 2022b). This included 63 bird species, 20 mammal species, 44 reptile species and one frog species. Combined with the results of the 2012 fauna survey the total number of vertebrate fauna species recorded from the Lamb Creek project area to date is 185 species (Rapallo Environmental, 2022b).</p> <p>Five conservation significant fauna species listed under the EPBC Act or the BC Act were recorded near or within the survey area. These include:</p> <ul style="list-style-type: none"> <li>• Northern quoll <i>Dasyurus hallucatus</i> (Listed as Endangered under the EPBC Act and BC Act)</li> <li>• Ghost bat <i>Macroderma gigas</i> (Listed as Vulnerable under the EPBC Act and BC Act)</li> <li>• Western pebble-mound mouse <i>Pseudomys chapmani</i> (Listed as Priority 4 by the DBCA)</li> <li>• Fork-tailed Swift <i>Apus pacificus</i> (Listed as Migratory and Marine under the EPBC Act)</li> <li>• Pilbara olive python <i>Liasis olivaceus barroni</i> (Listed as Vulnerable under the EPBC Act and the BC Act).</li> </ul> <p>Seven broad fauna habitats were recorded in the greater Lamb Creek Project survey area (Rapallo, 2022b) including:</p> <ul style="list-style-type: none"> <li>• Stony plain</li> <li>• Hillcrests/hillslope</li> <li>• Mulga/Corymbia plain</li> <li>• Minor drainage</li> <li>• Tussock grassland plain</li> <li>• Medium drainage</li> <li>• Gorge, gully and rocky breakaway.</li> </ul> <p>The portion of the GNH Indicative Footprint that was fauna habitat mapped in Rapallo 2022b is restricted to 1.3 ha and this was all classed as Tussock grassland plain. However, given the extent of fauna habitat survey coverage across the broader area and that 22% (2.9 ha) of the Development Envelope represents disturbed or previously cleared areas this information gap is considered inconsequential.</p>



Comments	Proposed clearing is not considered to be at variance to this Principle
	<p>The habitat loss from proposed clearing is not likely to be significant due to its proximity to GNH and the same habitat types are available immediately adjacent to the proposed clearing areas. There will be no new ecological linkage breaks along Great Northern Highway, however, the distance between vegetation habitats will be slightly greater with the widened developed road area. This widening is unlikely to significantly reduce movement of fauna species.</p> <p>The native vegetation within the clearing area is broadly representative of the vegetation from the surrounding area (Development Envelope and surrounds) and vegetation type 3, 7, 8 and 9, are widespread in the local area. Vegetation does not comprise a high level of biological diversity. It is therefore expected that the proposed clearing will not be at variance with this principle.</p>
Methodology	<p>DPRID shapefile (DPRID, 2019)  EPA (2016a)  Government of Western Australia (2019)  Rapallo Environmental (2021)  Rapallo Environmental (2022a)  Rapallo Environmental (2022b)  Umwelt (2022)</p>

**(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.**

Comments	Proposed clearing is not considered to be at variance to this Principle
	<p>Seven broad fauna habitats were recorded in the greater LCIOP fauna survey area (Rapallo Environmental, 2022b). These habitats include:</p> <ul style="list-style-type: none"> <li>• Stony plain</li> <li>• Hillcrests/hillslope</li> <li>• Mulga/Corymbia plain</li> <li>• Minor drainage</li> <li>• Tussock grassland plain</li> <li>• Medium drainage</li> <li>• Gorge, gully and rocky breakaway</li> </ul> <p>The portion of the GNH Indicative Footprint that was fauna habitat mapped in Rapallo 2022b is restricted to 1.3 ha and this was all classed as Tussock grassland plain. However, given the extent of fauna habitat survey coverage across the broader area and that 22% (2.9 ha) of the Development Envelope represents disturbed or previously cleared areas this information gap is considered inconsequential.</p> <p>Given all seven habitat types recorded are widespread in the region and are not limited to within the Development Envelope, the clearing of 8.6 ha of potential fauna habitat is not considered to be at variance to this principle.</p> <p>The tussock grassland plain fauna habitat includes occasional open mulga woodland stands or scattered mulga individuals on brown sandy clay loam to loams and contains patches of spinifex (Rapallo Environmental 2022b). This fauna habitat potentially provides habitat for five conservation significant fauna species and is considered of moderate significance for fauna. These are:</p> <ul style="list-style-type: none"> <li>• Ghost bat (foraging/ dispersal)</li> </ul>

Comments	Proposed clearing is not considered to be at variance to this Principle
	<ul style="list-style-type: none"> <li>• Grey falcon (foraging/ dispersal)</li> <li>• Peregrine falcon (foraging/ dispersal)</li> <li>• Gane's blind snake</li> <li>• Short-tailed mouse.</li> </ul> <p>The habitat loss from proposed clearing is not likely to be significant due to its proximity to GNH and the same habitat types are available immediately adjacent to the proposed clearing areas. There will be no new ecological linkage breaks along Great Northern Highway, however, the distance between vegetation habitats will be slightly greater with the widened developed road area. This widening is unlikely to significantly reduce movement of fauna species.</p>
Methodology	DBCA Shapefiles DBCA website EPA (2016a, 2020) Rapallo Environmental (2021) Rapallo Environmental (2022a) Rapallo Environmental (2022b)

**(c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.**

Comments	Proposal is not at variance to this Principle
	<p>The targeted conservation significant flora survey of the greater LCIOF area (Rapallo, 2022a) recorded one Threatened flora species, <i>Seringia exastia</i>, listed as Critically Endangered under the EPBC Act.</p> <p>Previously <i>S. exastia</i> was also classed as Critically Endangered under the WA BC Act, however, as a result of taxonomic revision <i>Seringia exastia</i> was merged from a common and a restricted species and is considered common and widespread. This species was subsequently delisted under the State BC Act after consideration by the WA Threatened Species Scientific Committee (TSSC). Given the widespread nature of the species, it is likely to be delisted under the EPBC Act in the future.</p> <p>No Threatened Flora species (excluding the 'to be delisted' <i>Seringia exastia</i>) were recorded within the Indicative Footprint or Development Envelope. As no Threatened flora were recorded within the Indicative Footprint, the proposed clearing is not at variance to this principle.</p>
Methodology	EPA (2016a) Protected Matters Search Report (DAWE, 2022) Rapallo Environmental (2021) Rapallo Environmental (2022a) Umwelt (2022)

**(d) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of a threatened ecological community.**

Comments	Proposed clearing is not at variance to this Principle
	<p>The desktop assessment indicated no TECs occur within or near the Indicative Footprint. The nearest known PEC is subtype 2 of the Coolibah-Lignum Flats vegetation community, with the edge of the buffer zone located nearly five kilometres south of the survey area (DBCA 2021b). Furthermore, the detailed vegetation survey of the greater LCIOF survey area (Rapallo 2022a) did not identify any vegetation representing a TEC.</p> <p>No impacts are expected to occur to TECs; therefore, the proposed clearing is not at variance to this Principle.</p>
<b>Methodology</b>	<p>Protected Matters Search Report (DAWE, 2022)</p> <p>Rapallo Environmental (2021)</p> <p>Rapallo Environmental (2022a)</p> <p>Umwelt (2022)</p>

**(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.**

Comments	Proposed clearing is not at variance to this Principle
	<p>The National Objectives and Targets for Biodiversity Conservation 2001-2005 (Commonwealth of Australia, 2001) recognises that the retention of 30% or more of the pre-clearing of each ecological community is necessary if Australia's biodiversity is to be protected, consistent with recognised retention levels (EPA, 2016b).</p> <p>Two vegetation associations intersect with the Indicative Footprint (Table 1). These vegetation associations include Vegetation Association 18 described as low woodland with mulga (<i>Acacia aneura</i>) and Vegetation Association 82 described as hummock grasslands, low tree steppe; snappy gum over <i>Triodia wiseana</i> (Government of Western Australia, 2019). Both vegetation associations have more than 98% remaining across varying scales from the Shire of East Pilbara to Statewide (Table 2).</p> <p>A total of 2.9 ha (22%) of the Development Envelope footprint represents already disturbed or cleared areas. Clearing of up to 8.6 ha of native vegetation will not significantly alter the extent of remnant native vegetation and will meet the threshold of 30% retention of these vegetation associations in the Pilbara. The proposed clearing does not represent a significant remnant of native vegetation in an area that has been extensively cleared and therefore is not at variance to this principle.</p>
<b>Methodology</b>	<p>Aerial photography</p> <p>Commonwealth of Australia (2001)</p> <p>EPA (2016b)</p> <p>Government of Western Australia (2019)</p> <p>Rapallo Environmental (2021)</p> <p>Umwelt (2022)</p>



**(f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.**

<b>Comments</b>	<b>Proposed clearing is not at variance to this Principle</b>
	No Ramsar Wetlands, nationally Important Wetlands, DBCA managed waters or riparian vegetation occur within the Survey Area. The nearest Nationally Important Wetland is the Fortescue Marsh located 52 km north of the biological survey area (DAWE 2022). The proposed clearing will not impact any wetland vegetation and therefore is not at variance to this principle.
<b>Methodology</b>	Aerial photography DWER shapefiles

**(g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.**

<b>Comments</b>	<b>Proposed clearing is not at variance to this Principle</b>
	<p>The project area is located within the Fortescue botanical district of the Pilbara region (Beard 1990). This region is mountainous, with soils ranging from shallow, stony sandy loams along slopes, to cracking clays, stripped hardpans and calcareous loams along active waterways (Beard 1990).</p> <p>There is potential for local soil erosion to occur, although topography is not steep and gullyng would not be expected. As described in Table 2 there is extensive pre-European vegetation remaining around the proposed clearing area (&gt;98%). Project activities do not include dewatering or excavation below the water table. Given the extent of remaining vegetation in the adjacent areas it is not expected that clearing of up to 8.6 ha of vegetation surrounding Great Northern Highway will impact or cause salinity, eutrophication or flooding.</p>
<b>Methodology</b>	DBCA shapefiles Rapallo Environmental (2021)

**(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.**

<b>Comments</b>	<b>Proposed clearing is not at variance to this Principle</b>
	<p>No conservation reserves occur within or adjacent to the Indicative Footprint. The closest conservation reserve is situated approximately 17 km west of the Indicative Footprint and is associated with Karijini National Park. Additionally, land surrounding the greater LCIOF Survey Area does not provide a buffer or ecological link to a conservation area. It is not expected that any conservation areas will be impacted from the proposed clearing.</p> <p>The Indicative Footprint does not lie within an Environmentally Sensitive Area (ESA).</p> <p>As there are no conservation estates or ESA's within or adjacent to the Indicative Footprint, the proposed clearing is not at variance to this principle.</p>
<b>Methodology</b>	DBCA shapefiles Rapallo Environmental (2021)

**(i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.**

Comments	Proposed clearing is not likely to be at variance to this Principle
	<p>There are no permanent watercourses or wetlands within the proposed clearing area and the road works to Great Northern Highway will not intercept/disturb groundwater. Any ephemeral flow due to rainfall quickly evaporates or infiltrates leaving minimal pooling. The region has poorly defined drainage with no rivers or permanent creeks. The majority of runoff from the proposed clearing area would occur as sheet flow with the occasional small, ill-defined creek lines existing in runoff areas along the ridge line. All existing culverts and floodways along Great Northern Highway will be duplicated along the acceleration and deceleration lanes to ensure existing flood design flow volumes are maintained.</p> <p>The risk of surface water quality deterioration occurring due to clearing is considered minimal due to erosion control measures being implemented and the sandy (low erodibility) nature of the local soils. Ephemeral surface water flows will be maintained through construction of appropriate drainage infrastructure to avoid erosion within the catchment and no clearing will be undertaken in areas subject to inundation.</p> <p>There will be no permanent chemical or hydrocarbon storage, small volumes may need to be stored during construction. All chemicals and hydrocarbons will be stored in accordance with AS 1940 and kept well away from drainage lines.</p> <p>The proposed clearing is not expected to have an appreciable impact upon surface water and groundwater quality and therefore is not likely to be at variance with this Principle.</p>
<b>Methodology</b>	DWER and DBCA shapefiles EPA (2016) Rapallo Environmental (2021)

**(j) Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.**

Comments	Proposed clearing is not at variance to this Principle
	<p>The climate of the region is semi-arid, characterised by hot summers and cool winters. The area has a low average rainfall of approximately 324 millimetres per year (BoM, 2022). There are no permanent watercourses or wetlands within the area proposed to be cleared.</p> <p>Within the Hamersley (PIL3) subregion drainage runs into either the Fortescue River to the north, the Ashburton River to the south, or the Robe River to the west (Kendrick 2001). The Great Northern Highway intersection survey area falls within the Ashburton River Catchment. One mapped intermittent creek line enters the survey area from the north-east, with much of the survey area characterised by non-incised drainage plain, receiving run-on from adjacent hills. The sandy (low erodibility) nature of the local soils is anticipated to have a high infiltration rate with infrequent flooding. This factor is not anticipated to change with the works in the Development Envelope. Therefore, the Project is not at variance to this Principle.</p>
<b>Methodology</b>	Rapallo Environmental (2022a)

## 6 ADDITIONAL ACTIONS REQUIRED

The proposed GNH intersection has been included as part of a Mining Proposal application (ID 500084) for the greater Lamb Creek Iron Ore Project, submitted by Process Minerals International on 20 December 2024 (a wholly owned subsidiary of Mineral Resources Limited) to the DEMIRS.

Approval of the proposed design for the intersection has been given by MRWA and authority for commencing construction in the road reserve will also be required from Main Roads Western Australia (MRWA) subject to meeting conditions of the design agreement reached with MinRes (e.g. Traffic Management Plan).

## 7 STAKEHOLDER CONSULTATION

MinRes have conducted extensive stakeholder consultation on the greater LCIO, which includes the GNH intersection. This consultation has included stakeholders in regulatory agencies, local government, other companies and landholders, and Traditional Owners.

The Traditional Owners group for the area of the Project, and greater LCIO, are the local /Banjima People and the Development Envelope is located on land the subject of Banjima People Native Title Determination Area (WAD6096/1998).

A search of the Aboriginal Cultural Heritage Inquiry System (ACHIS) database confirms the proposed work area inside the MRWA road reserve does not intersect with any DPLH Registered Sites or Lodged Places. The public boundary for DPLH Registered Site 7607, Whispering Trees Shelter is 1.8km to the south of the proposed work area. The Great Northern Highway Road Reserve runs through the public boundary. DPLH Lodged Place ID 30213, Gaguna is located over 800m to the north.

MinRes's engagement with Banjima has included extensive heritage survey, consultation about infrastructure design, haulage options and the management of Aboriginal Cultural Heritage. The proposed GNH intersection and all other LCIO infrastructure is designed to avoid Aboriginal Cultural Heritage, eliminating the need for any approvals under the AHA 1972.

A record of stakeholder consultations of relevance to the Project is provided in Table 3.



**Table 3 Lamb Creek Stakeholder Engagement Communications Register**

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
08-January-2025	Online submission	DCCEEW	DCCEEW	Submission of Section 38 Referral for the Lamb Creek Iron Ore Project via Environment Online.	Issues with online system validating spatial data, application and spatial data manually uploaded by DWER staff.	Referral lodged, Application reference APP-0026940.
20-December-2024	Online submission	DEMIRS	DEMIRS	Submission of Lamb Creek Mining Proposal via EARS.	None, application lodged.	Mining Proposal lodged, Application ID 500084.
18-December-2024	Email	DCCEEW	DCCEEW MinRes	DCCEEW provided comments on MinRes response to RFI queries on Preliminary Document.	Additional information required for some MinRes responses.	MinRes to provide additional information requested regarding; progressive rehabilitation plans, habitat type and quantity cleared for fringed firebush, potential impacts of dust/vibration/noise on some MNES, offset details, understanding of groundwater conditions
06-December-2024	Email	BNTAC	BNTAC MinRes	Final versions of Mining Proposal, Mine Closure Plan and Section 38 Referral Supporting Document provided to BNTAC prior to submission to DEMIRS/DWER.		MinRes to continue its collaboration with BNTAC on mine closure plan and Part IV and V approval submissions.
2-December-2024	Meeting	DEMIRS MinRes	DEMIRS MinRes	Mining Proposal pre-submission briefing, MinRes intention to submit MP before Christmas break.	No significant concerns raised by DEMIRS, recommended early engagement with DEMIRS-NVCP staff if s38 decision is Not Assessed.	MinRes to finalise and submit MP and MCP before end of 2024. DEMIRS MinRes staff available for any queries from DEMIRS staff.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
22-November-2024	Email	Banjima People (MHERC) BNTAC	BNTAC MinRes	BNTAC letter of support for the Lamb Creek Iron Ore Project.	BNTAC provided MinRes with a letter of support for the Lamb Creek Project. The letter is provided conditionally with BNTAC and the MHERC being satisfied with the level of engagement by MinRes to date. Conditions for this support listed in the letter and included (among others); no on-site landfills, pit backfilled to minimum of 5m above the pre-mining water table, no ex-pit storage of mineralised waste, various measures to support visual amenity, access road to be paved with asphalt. BNTAC's support is also preliminary and subject to their approval of the MCP for both Lamb Creek and Phil's Creek mines (prior to commencing extractive activities at Lamb Creek).	MinRes to include the letter of support when submitting its Section 38 Referral Supporting Document to the WA-EPA, and other licencing submissions. MinRes to continue its collaboration with BNTAC on the details of Lamb Creek and Phil's Creek MCP's
7-November-2024	Email	Banjima People (MHERC) BNTAC	BNTAC MiRes	BNTAC advised MinRes of resolution passed by Banjima board 6/11/24 to provide letter of support for Section 38 referral.	MHERC support for the proposed project on behalf of Banjima People to be provided.	MinRes to provide draft letter to BNTAC for their review and edit as necessary and issuing under Banjima letterhead.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
25-October-2024	Meeting	BNTAC	BNTAC MinRes	Follow-up to 21-22 October 2024 On-Country visit to discuss BNTAC/MHERC view of the proposed Project and management controls presented to date. Discuss MinRes request for BNTAC/MHREC formal endorsement/support of the project. MinRes draft statement of position for Closure Outcomes for the project discussed and the progress of mine closure plan update for Lamb Creek	BNTAC seeking clarity on its ability to comment on future approval submissions, if it provides formal support for the Section 38 referral now.	MinRes to provide update to key opportunities for BNTAC / Banjima to provide input, feedback, comment on the various regulatory approval applications for the Lamb Creek Project. BNTAC will provide comments to the Rev 1 traffic light statement of position based on Banjima / BNTAC Closure Outcomes
23-October-2024	Email	DCCEEW	DCCEEW MinRes	MinRes provided minor update to EPBC Preliminary Documentation report. Figure 3 (Conceptual Mine Layout) was updated to reflect a revised (expanded) pit boundary. No changes to the Proposed Action Area (PAA) or Indicative Footprint (IF) are required by this update.	No effect on assessment of potential impacts given no change to PAA or IF.	DCCEEW assessment of Preliminary Documentation to continue.
21-22-October-2024	Meeting	Banjima People (MHERC) BNTAC	Banjima People (MHERC) BNTAC MinRes	On-Country meetings and site inspection with Banjima members of their MinRes Heritage and Environment Reference Committee (MHERC) and BNTAC staff and consultants. MinRes provided project overview and inspection of the site to ensure MHERC members are fully informed before making decisions on level of support for the project.	Further examination of opportunities for reducing extent of ex-pit waste rock landform remaining post-operations to continue. Support for the project will be dependent on continuing collaboration on development of the Mine Closure Plan.	MHERC and BNTAC to report to their Board at November 2024 meeting and consider MinRes' request for letter of support for the Lamb Creek Project.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
14-October-2024	Meeting	BNTAC	BNTAC MinRes	MinRes met with Technical Representatives and Consultants for BNTAC to present the 'Statement of Position' for the Project for each Closure Outcome. Alternative Closure Outcome phrasing for the Project were presented based on ability to meet original Closure Outcome.	BNTAC largely accepted Statement of Position, however, recommended workshopping of Surface Water Closure Outcome.	MinRes to revise Statement of Position based on 14 October 2024 meeting and provide to BNTAC for presentation to the MHERC.
04-October-2024	Meeting	BNTAC	BNTAC MinRes	Technical Representatives and Consultants for BNTAC presented the under-development Banjima Closure Principles and Outcomes to MinRes for consultation. This presentation included an overview of the Banjima Closure Framework, Closure Objectives, Closure Principles and Behaviours and Closure Outcomes, also known as the End State Values – for any Projects that occur on Banjima Country.	BNTAC noted that these Closure Outcomes are in development and will be Project specific, however represent the aspirational Closure Outcomes on Banjima Country.	MinRes to develop a 'Statement of Position' for the Project against BNTAC Closure Outcomes.
03-September-2024	Email	BNTAC	BNTAC MinRes	BNTAC and Minres confirm dates for the next MHERC meeting to occur 21-23 October 2024		Engagement between MinRes and BNTAC is ongoing, including coordination of attendees and logistics
29-August-2024	Email	DCCEEW	DCCEEW MinRes	Finalised meeting (23/08/2024) notes provided by DCCEEW. Advice also provided regarding how change in EPBC approval area (reduction) could be presented in upcoming Preliminary Document submission.	Agreed meeting notes finalised. DCCEEW recommendation to MinRes for proposed reduction in EPBC Proposed Action Area (PAA), keep PAA area unchanged but reduce Indicative Footprint to account for change in waste rock landform design.	MinRes to consider advice when finalising Preliminary Document for submission to DCCEEW in response to RFI.



Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
28-August-2024	Email	DCCEEW	DCCEEW MinRes	MinRes provided draft PAP to DCCEEW staff for the EPBC assessment, including steps and indicative timelines.	Draft PAP to be reviewed by DCCEEW and comments provided to MinRes before finalising.	DCCEEW to review draft and provide comments to MinRes
23-August-2024	Meeting	DCCEEW	DCCEEW MinRes	MinRes provide DCCEEW staff with outline of approach taken to address EPBC-RFI questions and high level summary of responses.	<p>Subject to review of details, MinRes' approach for addressing RFI sounds reasonable to DCCEEW. This approach is based on using fauna habitat suitability, and local and regional fauna survey info, supported by technical expert review and advice, to provide justification that no additional fauna surveys are required.</p> <p>MinRes advised DCCEEW of proposed change (reduction) to disturbance area from reduction/relocation of waste rock landform resulting for Social Surrounds engagement with Banjima (to be reflected in Preliminary Document).</p> <p>Next steps includes preparation of a Project Assessment Plan (PAP) to outline steps and indicative timing for the assessment and approval. MinRes offered to provide draft PAP for DCCEEW's consideration.</p>	MinRes to complete and submit Preliminary Document for DCCEEW assessment, addressing RFI queries and any updates in PAA or disturbance areas. MinRes to provide draft PAP for DCCEEW review and consideration.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
19-August-2024	Meeting	BNTAC, Banjima People (MHERC)	BNTAC, Banjima People (MHERC) MinRes	Initial meeting of Banjima's MinRes Heritage, Environment Reference Committee (MHERC) with MinRes presenting Lamb Creek Project overview and technical area summaries, including progress of Mine Closure Plan (MCP) updating. As step toward MHERC understanding of Project and expression of support for environmental approvals. Banjima MHERC/BNTAC satisfied with amount and detail of information presented, however the MHERC members need to visit the site to be fully informed before making decisions regarding level of support for the proposed Project. Mine closure is of particular interest given the short mine life.	Banjima MHERC/BNTAC satisfied with amount and detail of information presented, however the MHERC members need to visit the site to be fully informed before making decisions regarding level of support for the proposed Project. Mine closure is of particular interest given the short mine life.	MinRes to work with BNTAC to facilitate the next MHERC meeting (21 - 23 Oct, 2024) being held at Lamb Creek. MinRes to continue consultations with BNTAC, MHERC and independent consultants on approval submission reviews and MCP updates.
5-7 August 2024	On ground consultation	Banjima Traditional Owners	Banjima Traditional Owners, MinRes	A request received following Social Surroundings consultation undertaken June 2024, recommended further ethnographic consultation occur to confirm the avoidance of Ethnographic Place Gaguna. The additional ethnographic consultation occurred in August 2024, 2024_BAN_Trip06		In August 2024, MinRes conducted further ethnographic consultation with nominated Traditional Owners. Heritage report received confirms MinRes proposed Project footprint and activities within development envelope avoid heritage place Gaguna, administered by the DPLH.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
06-August-2024	Meeting	BNTAC	BNTAC MinRes	MinRes and BNTAC/consultants workshop on Mine Closure Plan updating.	Post Mining Land Use (PMLU) development, target ecosystem restoration.	MinRes to consider BNTAC comments when updating MCP, continue with closure studies, further consultation with BNTAC on MCP development.
17-June-2024	On ground consultation	BNTAC	BNTAC MinRes	On Country Social Surrounds consultation and engagement with Banjima People, 17 to 21 June, 2024 (2024_BAN_Trip04) The purpose of the MinRes's engagement was to provide the Banjima Traditional Owners Project brief, detail regarding completed supporting studies; and the proposed project infrastructure layout. The consultation opportunity was for MinRes to understand Banjima People' social surrounding values and any concerns with proposed Project and management measures.	Issues discussed included visual impacts mitigation, pit design and closure considerations; to achieve best outcomes for the Project and Banjima People. A request for MinRes to conduct further ethnographic consultation to confirm the avoidance of Gaguna.	MinRes to be provided a report; including the consultation outcomes; and management recommendations regarding any identified concerns, and social surroundings values. MinRes to consider Banjima's requests and recommendations; and investigate options to address concerns including visual impacts mitigation, pit design and closure considerations; to achieve best outcomes for the Project and Banjima People. A request for MinRes to conduct further ethnographic consultation to confirm the avoidance of Gaguna, BNTAC to confirm establishment of the MHERC and for all future MinRes consultation to occur with the MHERC.
6-June-2024	Email	DCCEEW	DCCEEW MinRes	DCCEEW issue Further Information Request for EPBC referral EPBC 2023/09754.	Requesting further information regarding fauna survey adequacy, noise assessment for road train traffic.	MinRes to prepare response to questions and submit to DCCEEW.
20-April-2024	Email	DCCEEW	DCCEEW MinRes	DCCEEW decision on referral, assessment approach completed.	DCCEEW notification letter and decision notice on EPBC referral - Controlled Action, assessment on preliminary information with additional information.	Proceed with referral assessment process - MinRes pay assessment fee, DCCEEW issue request for further information, MinRes responses, assessment.

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11-April-2024	Email	RTIO / Juna Downs	RTIO / Juna Downs MinRes	Following up from 8/02/2024 meeting with MinRes, RTIO provide update re: potential impact on pastoral infrastructure, future pastoral activities.	RTIO confirmed no current or future pastoral infrastructure within Lamb project area. Also noted Project would sterilize grazing area and request confirmation that rehabilitation post mine closure would restore potential for grazing. Request MinRes provide the total area (ha) that will be fenced during operations. Also request a copy of the ALCAM for the rail crossing.	RTIO/Juna Downs do not have any concerns with the proposed Lamb Creek operation regarding the pastoral station operations. MinRes to provide requested information and continue engagement regarding post closure land uses.
5-Apr-2024	Meeting	BNTAC	BNTAC MinRes	Follow up (to meeting on 21/03/2024) technical discussion between BNTAC consultant (Pentium Water) and MinRes hydrogeology and hydrology specialists, regarding the Lamb Creek hydrogeological setting and mine water management.	Pentium endorses the information provided by MinRes regarding the Lamb Creek hydrogeological setting and dewatering analysis, based on pumping test data and other studies. Pentium endorses the adaptive water management approach proposed for Lamb Creek but would like to see some high-level commentary on the management of a mine water deficit or surplus, were this to occur.	MinRes to reissue the Test Pumping Results memo, revised to include a summary of the adaptive mine water management under deficit or surplus conditions.
26-March-2024	Phone and email	DCCEEW	DCCEEW MinRes	DCCEEW staff reviewing EPBC referral submission had questions regarding the areas covered by fauna survey.	Differences in areas surveyed in 2012 and 2020 fauna surveys was difficult to see in figures in the referral supporting document (RSD). 2012 survey is considered too old, and it was unclear where the 'gap' in survey coverage for the proposed Action Area was.	The differences in survey coverage and minor (2.3% of indicative footprint) gap in fauna survey coverage were explained and additional images displaying this was provided to DCCEEW by email. Review of the referral for decision whether proposal is a Controlled Action is continuing and is due by 19/4/2024.



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21-March-2024	Meeting	BNTAC	BNTAC MinRes	Discuss MinRes responses to BNTAC/consultant review comments on draft Section 38 referral. BNTAC update on access agreement negotiations, planning for Social Surroundings consultation.	Lacking detail on groundwater, surface water conditions and predicted impacts. Further info provided by MinRes hydro-geos, technical discussions with BNTAC consultant to continue after meeting. Detail and understanding of mine closure plans also needed now by Banjima given short LoM.	MinRes hydro-geos and hydrology specialists to continue discussions with BNTAC consultant, report on pump testing also provided by MinRes 22/3/2024.
16-February-2024	Email	BNTAC	BNTAC MinRes	BNTAC provided review comments (general environmental, approvals focus) on draft Section 38 referral and site-wide NVCP. Request meeting to discuss comments.	General comments on updates required due to changes in project footprints (e.g. changes to mine plan, pit backfilling) and pending results of Social Surroundings consultation. BNTAC not supportive of on-site landfill.	MinRes to review comments and provide responses. Meeting to discuss review comments scheduled for 20/02/2024. MinRes has work underway and planned.
8-February-2024	Meeting	RTIO / Juna Downs	RTIO / Juna Downs MinRes	Project update, approvals status, pastoral station (Juna Downs) operational status/plans. EPBC referral submitted Dec 2023 includes restrictions on use of barbed wire fencing (re: impact on ghost bats).	Juna Downs being restocked but should be north of RTIO rail line and so minimal consequence for MinRes' Lamb Creek project. Confirmation of what (if any) existing pastoral infrastructure is in/near MinRes' project area is required. RTIO request info/assurances regarding impacts on rail crossing, GNH traffic numbers.	RTIO will brief Juna Downs pastoral manager and revert to MinRes with any concerns and info on current/planned pastoral infrastructure in area of proposed operations. MinRes to check and provide, as available, traffic, rail crossing (ALCAM) assessment, related to GNH intersection and RTIO rail line.

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19-January-2024	Email	BNTAC	BNTAC MinRes	MinRes provided draft Section 38 Referral Supporting Document (RSD) and draft site wide NVCP application (only needed if s38 decision is Not Assessed) for BNTAC review and comment.	MinRes identified that the drafts have hold points for further updates related to; status of access agreement and updated mine plan, waste backfill level and WRL design.	BNTAC/consultants to review and comment on draft submissions.
12-January-2024	Email	BNTAC	BNTAC MinRes	MinRes issued scope and request for quote to BNTAC for the review of draft submissions - Section 38 referral, NVCP (site-wide, only needed if s38 decision is Not Assessed), and Works Approval.	None, issued for response.	BNTAC to review with consultants and provide quote to MinRes.
20-December-2023	Online submission	DCCEEW	DCCEEW MinRes	Submission of EPBC referral for the Lamb Creek Iron Ore Project via EPBC Business Portal.	None, EPBC referral lodged.	EPBC referral lodged, reference 2023/09754.
18-December-2023	Meeting	BNTAC	BNTAC MinRes	Consultation with BNTAC and their consultants regarding comments on draft submissions; EPBC, Mine Closure Plan, Mining Proposal. Pit backfilling, on-site landfill not acceptable, visual amenity lacking. MinRes provided info on work (underway and planned) to further refine mine closure plan.	Request to minimise ex-pit waste rock disposal, maximise pit backfilling. BNTAC uncomfortable with on-site landfill (within WRL) prefer off-site disposal. Level of maturity of MCP considered inadequate for short mine life, visual amenity needs addressing.	A number of BNTAC comments are common between the various submission documents, e.g. level of pit backfilling, maturity of design/plans. Gaps in information provided to BNTAC were identified and plans to address discussed. Agreed on collaborative approach.
5-December-2023	Email	BNTAC	BNTAC MinRes	MinRes provided responses to BNTAC comments/questions on the EPBC Referral Supporting document and SFMP.	Responses to comments/questions provided, including any resulting changes to EPBC documentation.	Responses issued for review and discussion with BNTAC. Arrange for meeting to discuss responses and consideration of culturally appropriate mitigation methods (where required).

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30-October-2023	Email	BNTAC	BNTAC MinRes	BNTAC provided written comments on EPBC submission Referral Supporting Document and Significant Fauna Management Plan (SFMP).	Comments, questions on submission documents.	MinRes assess and provide responses to BNTAC review comments and questions including any revisions to documents as a result of BNTAC comments.
20-October-2023	Email	BNTAC	BNTAC MinRes	BNTAC provide list of meeting dates with BNTAC Heritage & Env Committee for engagement on Lamb Creek.	Three meetings with MRHEC scheduled for 2024 (Apr, Jun & Oct), high demand for Banjima representatives from multiple proponents. No meeting before end of 2023 due to cultural events, Lore in Dec/Jan.	BNTAC anticipate MRHEC will be established in Jan 2024. MinRes to incorporate meeting dates into engagement schedule and advise BNTAC on alignment with approval submission endorsements being sought by MinRes
13-October-2023	Phone	BNTAC	BNTAC MinRes	Discuss progress on Land Access Agreement (LAA) for MinRes activities on Banjima Country	BNTAC Board met on 12/10/2023 and agreed that LAA doesn't require a community meeting to execute, however the Trustee advised that a Meeting is required to determine how the royalties are to be shared/allocated and under what trust structure. MinRes' business will not make the Nov. 2023 AGM/Common Law meeting but a community meeting is scheduled for Feb/Mar 2024. BNTAC do not anticipate a delay in their support for the Lamb Creek Project as a result of these requirements.	LAA between BNTAC and MinRes to be discussed at Feb/Mar 2024 Community Meeting, facilitating execution of the agreement thereafter.

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11-October-2023	Meeting	BNTAC	BNTAC MinRes	Discuss draft schedule, process, and objectives for BNTAC review/commenting on approval submissions. Focused on the mining proposal (MP) and closure plan but also relevant for other approvals	Establishment of BNTAC's Heritage & Env Committee delayed due to workload (busy until end of Nov 2023). MinRes allotted 1 meeting per quarter with BNTAC committees, BNTAC staff can only consult/brief MRHEC at scheduled meeting dates	MinRes and BNTAC staff continue collaboration to refine consultation schedule with further inputs from BNTAC on creation of BNTAC's Heritage & Environment Committee for review of MinRes projects. MinRes provided copy of draft MP via portal for review alongside MCP.
06-October-2023	Meeting	BNTAC	BNTAC MinRes	Facilitate engagement with BNTAC regarding review of approval submissions and discussions around mine closure/rehabilitation and end land uses. Review of EPBC submission also discussed.	BNTAC's need for resources, establishing reference groups, for approval document reviews, inputs on closure planning, to allow for BNTAC to 'consent' and support MinRes' proposed projects. MinRes priority for Lamb EPBC referral submission by end of Oct 2023	BNTAC to set up Heritage & Env Committee (MRHEC) to conduct reviews & TO inputs for approval documents & mine closure plans. EPBC submission review to be prioritised. BNTAC developing "statement of principles" guidelines for closure, including end land uses. Agreement/PO required to cover additional BNTAC resourcing needs. Draft EPBC submission documents provided to BNTAC.
12-September-2023	Email	RTIO Juna Downs	RTIO, Juna Downs MinRes	Notification of planned sampling of groundwater monitoring bores at Lamb Creek, Sept 19 to 21, 2023. Access using existing exploration tracks crosses through RTIO tenement & Juna Downs	Access using existing exploration tracks crosses through Hamersley Iron E47/1790 & Juna Downs Station	Notification provided as per access agreement between MinRes & RTIO, Juna Downs
12-September-2023	Email	BHP	BHP MinRes	Notification of planned sampling of groundwater monitoring bores at Lamb Creek, Sept 19 to 21, 2023. Access using existing exploration tracks crosses through BHP tenement	Access using existing exploration tracks crosses through BHP tenements ML 281SA and ML 251SA	Notification provided as per access agreement between MinRes & BHP

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29-August-2023	Email	BNTAC	BNTAC MinRes	MinRes provide GIS files to BNTAC of planned exploration activities at Wedge	None, information provided for further consultation	Requested information provided
29-August-2023	Email	BNTAC	BNTAC MinRes	MinRes provide information requested by BNTAC; 1) GIS files of proposed Development Envelope & Indicative Footprint for Lamb Creek, and 2) groundwater quality monitoring data	None, information provided for further consultation	Requested information provided
22-August-2023	Meeting / Presentation	BNTAC	BNTAC MinRes	MinRes provide BNTAC summary & update on environmental studies/reports on Banjima country in Lamb Creek/Wedge area	Limitations with BNTAC resources for review/commenting on studies, approval submissions, arrangement to be agreed. Prelim feedback from BNTAC consultants on MCP- detail lacking, consultation required. Sharing of monitoring data requested	MinRes & BNTAC to continue discussions on consultation, engagement process. MinRes provide link to monitoring data. MinRes requests written comments on MCP
17-August-2023	Email	MRWA	MRWA MinRes	MRWA approval of GNH intersection design	100% design IFC drawings approved, MRWA approval to proceed pending satisfying of MRWA conditions as given	MinRes free to proceed with tendering, construction subject to receipt of other Project approvals (Mining Proposal, NVCP, Part IV)
16-August-2023	Email	BNTAC	BNTAC MinRes	MinRes to provide BNTAC and their consultants with electronic copies of final Lamb Creek baseline environmental study reports, prior to in person meeting	Baseline study reports available for BNTAC review and comment	Electronic link to baseline reports provided to BNTAC and consultants.
25-July-2023	Email	MRWA	MRWA MinRes	Provide updated 100% design IFC drawings to MRWA for review and signoff	Updates to design based on discussions with MRWA	MinRes consultant (ShawMac) to update GNH 100% design as agreed with MRWA



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13-July-2023	Meeting/ Presentation	DCCEEW	DCCEEW DWER MinRes	Pre-referral meeting with DCCEEW on the EPBC referral and MNES likely to be impacted	Buffer distances for ghost bat roosts	MinRes will ensure DCCEEW comments on access road and buffers are addressed in EPBC referral submission
10-July-2023	Meeting/ Presentation	BNTAC	BNTAC MinRes	MinRes provide briefing to BNTAC staff on current and proposed works on Banjima country and discuss approach for future engagements. Status and way forward for agreement	Workload on BNTAC resources, establishment of BNTAC heritage and negotiation committees. BNTAC request for copies of baseline studies for review by BNTAC subject matter experts (consultants)	BNTAC and MinRes to work together to exchange information and establish protocols for timely consultation on environmental studies and licensing submissions
8-June-2023	Email	MRWA	MRWA MinRes	MRWA review comments on 100% intersection design	Acceleration lane design to be shortened to address aquaplaning risk as agreed with MRWA	MinRes consultants (ShawMac) to update GNH intersection 100% design as agreed with MRWA
28-March-2023	Letter	DMIRS	DMIRS MinRes	Granting of L47/1008 to PMI	None	L47/1008 granted, expiry 27-March-2044
1-February-2023	Letter	EPA	EPA MinRes	MinRes withdrawing Lamb Creek Section 38 referral	MinRes decision to withdraw referral to allow engagement and project support from BNTAC (Banjima)	Lamb Creek Section 38 referral withdrawn
27-January-2023	Letter	BNTAC	BNTAC MinRes	Letter from BNTAC, responding to MinRes proposed negotiation schedule, funding arrangements, request for BNTAC letter of support for EPA referral under assessment	BNTAC position that appropriate consultation has not yet occurred but is willing to work with MinRes towards establishing an appropriate consultation and agreement administration process moving forward.  Significant attrition/turnover of BNTAC staff and a new Board has resulted in loss of corporate knowledge.	BNTAC position that appropriate consultation has not yet occurred, but is willing to work with MinRes towards establishing an appropriate consultation and agreement administration process moving forward

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24-January-2023	Email	MRWA	MinRes MRWA	MRWA letter issued consenting to MinRes applying for NVCP to work within GNH road reserve to construct intersection	None	MRWA letter available to support MinRes' NVCP application (when made)
12-January-2023	Meeting	MRWA	MRWA MinRes	MinRes provide briefing to MRWA environmental staff on proposed NVCP for intersection at GNH	None	MRWA to consider MinRes request for letter of support
19-December-2022	Letter	EPA	MinRes EPA	EPA letter request for further info (Section 38F (1) and (2)) regarding Social Surroundings-Cultural Heritage- for assessment of s38 referral.	EPA require evidence that Banjima People have been appropriately consulted on how potential impacts on the Social Surroundings have been avoided and minimised	MinRes to contact Banjima representatives (BNTAC) with request for letter
23-November-2022	Email	MRWA	MinRes MRWA	MinRes provided list of current and upcoming projects interacting within MRWA road reserve areas	Proposed intersection of Lamb Creek access road with GNH (within road reserve) and approvals approach. MinRes propose to obtain their own NVCP for work within the road reserve and seek MRWA consent	MinRes awaiting MRWA feedback on proposed approvals approach.
10-November-2022	Teams meeting	Shire of East Pilbara	Shire of East Pilbara MinRes	MinRes gave an overview of MinRes, it's central Pilbara operations (including Lamb Creek) and the Pilbara hub development	None	The Shire indicated they were supportive of the proposal subject to the details
2-November-2022	Email	MRWA	MinRes MRWA	MRL responses to MRWA review comments on 85% design report	Before proceeding to 100% design, a few MRL comments require confirmation of MRWA Region preference/direction	MRWA 85% design review comments addressed, a few MRL comments require MRWA Region responses

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14-October-2022	Meeting	Rio Tinto Juna Downs	MinRes BCI	Meeting of Rio Tinto / MinRes tenure land access liaison meeting group. Discuss status and identify actions concerning current and upcoming activities/plans in areas involving RTIO/MinRes tenure, including Lamb Creek	MinRes has concluded access agreements with RTIO and BHP regarding Lamb Creek (L47/1008 and others). Granting of L47/1008 is pending application transfer from Warden to Mining Register. RTIO advised of plans of re-stocking pastoral station around the Lamb Creek area.  Other, non-Lamb Creek, topics discussed related to; water sharing/transfer project in conjunction with BCI, MinRes' Central Haul Road project, Yandi/Phil Creek access agreement review.	Granting of L47/1008 (for MinRes Lamb Creek Project access route) is pending action from Mining Register. Management arrangement for re-stocking to be considered by pastoral manager.  Access agreements in place with RTIO and BHP.
10-October-2022	Email	MRWA	MinRes MWRA	MRWA review comments on 85% design report for proposed GNH intersection	MRWA comments/questions on a number of design elements	MRWA 85% design review comments to be addressed
13-September-2022	Email	BNTAC (Banjima)	BNTAC MinRes	MinRes following up invitation for Banjima representatives to participate in ongoing Lamb Creek environmental activities and seeking comment on environmental assessments environmental activities issued.		
09-September-2022	Email	BNTAC (Banjima)	BNTAC MinRes	MinRes following up invitation for Banjima representatives to participate in ongoing Lamb Creek environmental activities.		

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05-September-2022	Email	BNTAC (Banjima)		Copies of Referral documents, supporting appendices and other relevant documents issued to BNTAC with invitation to comment and offer to give a presentation on key aspects.		
02-September-2022	Email	BNTAC (Banjima)		Invitation for Banjima representatives to participate in ongoing Lamb Creek environmental activities issued.	Planned activities schedule provided.	Await response from BNTAC.
10-Aug-2022	Meeting/ Presentation	DMIRS	DMIRS MinRes	Mining Proposal (MP) Pre-submission meeting Project description, approvals approach, proposed MP Key Activities	POW for access road construction only valid if for exploration purposes. Post closure surface water control & pit flooding assessment required. Abandonment bunds also serving as surface water controls must be designed to function in perpetuity	MRL will ensure DMIRS comments on access road and abandonment bund are addressed in MP submission.
10-August-2022	Meeting / Presentation	DMIRS	MinRes DMIRS	Mining Proposal (MP) Pre-submission meeting Project description, approvals approach, proposed MP Key Activities	POW for access road construction only valid if for exploration purposes. Post closure surface water control & pit flooding assessment required. Abandonment bunds also serving as surface water controls must be designed to function in perpetuity.	MRL will ensure DMIRS comments on access road and abandonment bund are addressed in MP submission.

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08-August-2022	Email	EPA	MinRes EPA	RFI from EPAS for assessing s38 submission & setting level of assessment	"RFI on: Subterranean fauna- extent of stygo habitat impacted Inland waters- spatial extent of impact, any GDE Social surroundings- evidence of engagement with Banjima, Gaguna extent, impacts to Juna Downs Station.	EPAS referred to info in s38 submission (RSD) and additional info also provided in MRL email 12 Aug
May 30 to Aug 1- 2022	Phone and email	BNTAC (Banjima)		Email and telephone correspondence with BNTAC and BNTAC legal counsel regarding matters relating to other MinRes projects BNTAC wished resolved before progressing other discussions on Lamb Creek.		
08-July-2022	Meeting / Presentation	Rio Tinto	MinRes Rio Tinto	"Meeting convened to assist and support tenure interactions between the companies' interests in the Central Pilbara arising due to new project developments. DISCUSSION POINTS • Withdrawal of Objections by RIO. Signed agreement reached May 2022	N/A	RIO and MinRes to consider a date such as around Friday 14 October 2022 to re-convene and review action items.



Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
21-June-2022	Meeting	BHP	MinRes	Lamb Creek haul road tenure	N/A	Below are details of the meeting held with BHP yesterday. The primary agenda item was to review the access agreement for the Lamb Creek haul road tenure which is currently being negotiated but we also introduced the Mulga (Central Pilbara) Haul Road to their new tenure manager. Next steps on this are to review with their rail superintendent which is anticipated around end of July.
21-June-2022	Meeting	BHP	MinRes BHP	Lamb Creek haul road tenure	N/A	The primary agenda item was to review the access agreement for the Lamb Creek haul road tenure which is currently being negotiated but we also introduced the Mulga (Central Pilbara) Haul Road to their new tenure manager. Next steps on this is to review with their rail superintendent which is anticipated around end of July.
23-May-2022	Email	BNTAC (Banjima)	BNTAC MinRes	MinRes issue revised memorandum to BNTAC setting out further information on matters to be discussed with the BNTAC Board.		
13-May-2022	Email	EPA	MinRes	Section 38 Referral for the Lamb Creek Iron Ore Project submitted.	N/A	N/A

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09-May-2022	Email	MRWA	MinRes MRWA Handley Surveys	GNH / Lamb Creek Intersection - Handley Surveys received the MRWA approval for work at Lamb Creek. Site mob 17/05/22, demob 20/05/22.	N/A	<ol style="list-style-type: none"> <li>1. Please ensure that all traffic management implemented in the road reserve is as per the approved Traffic Management Plan PTM-TMP-HS4342-001 REV B and complies with Australian Standards and Main Roads Traffic Management for Works on Roads – Code of Practice.</li> <li>2. During works, Main Roads' Officers may give directives relating to safety or adherence to Main Roads standards. In the event there is a non-compliance with standards or procedures they can also suspend works.</li> <li>3. Notification of road works shall be sent to all relevant parties seven (7) business days prior to works commencing.</li> <li>4. This approval is valid until 24 May 2022</li> <li>5. If the works are not completed by the above date, please notify Main Roads of the new scheduled completion date.</li> </ol>
29-April-2022	Email	BNTAC (Banjima)	BNTAC MinRes	Further formal request to meet with BNTAC Board including a memorandum outlining all issues to be discussed.		

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29-April-2022	Meeting	Rio Tinto	MinRes Rio Tinto	<p>GENERAL INTRODUCTION Meeting convened to assist and support tenure interactions between the companies' interests in the Central Pilbara arising due to new project developments.</p> <p>DISCUSSION POINTS</p> <ul style="list-style-type: none"> <li>• Noted that a draft access agreement had been settled for execution and is currently in the signing process.</li> <li>• Matter scheduled for Warden on 6 May 2022.</li> <li>• Withdrawal of Objections by RIO is subject to completing document execution and making programming orders for grant.</li> </ul>	N/A	RIO and MinRes to consider a date such as around Friday 1 July 2022 to re-convene and review action items.
11-April-2022	Meeting	BNTAC (Banjima)	BNTAC MinRes	Meeting with BNTAC Officers to discuss revised process for securing date to present to BNTAC Board.		
04-April-2022	Phone and email	BNTAC (Banjima)	BNTAC MinRes	MinRes renewed discussions on presentation to BNTAC Board and follow up on draft agreement.		

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28-March-2022	Meeting	BHP	MinRes BHP	Meeting convened to assist and support tenure interactions between the companies' interests in the Central Pilbara arising due to new project developments. Included discussion on Lamb Creek Miscellaneous lease (L) applications.	BHP has an objection to L47/1046 (not related to Lamb Creek Project area)	BHP and MinRes to consider a date such as around mid- June 2022 to re-convene and review action items.
21-March-2022	Email	DWER	MinRes DWER	MinRes provide updated GWOS incorporating DWER comments on earlier version.	All DWER comments incorporated into GWOS. MinRes proposed that due to access restrictions, baseline groundwater quality monitoring will be conducted quarterly until drive-in access is established, then monthly thereafter. In addition, data loggers are to be installed to record groundwater levels.	Updated GWOS to support 5C licence application lodged.
15-March-2022	Email	DWER	MinRes DWER	MinRes provide additional info to DWER for assessment of 5C water licence application, follow-up to 6/12/2021 meeting	MinRes provided memo report to DWER with additional info on potential for perched aquifers at Lamb Creek and the occurrence of subterranean fauna and potential impacts from dewatering. MinRes also advised that it is still working on providing responses to enquiries on heritage. Evidence of consultation with other water user (RTIO) also provided.	RTIO has no objections to issuing of water licence. Additional info/update on heritage questions to be provided by MinRes.

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02-March-2022	Email	BNTAC (Banjima)	BNTAC MinRes	Invitation to participate in Lamb Creek environmental surveys. MinRes is conducting further baseline environmental surveys across and around the Lamb Creek project. There will be two rounds of post- wet season survey: 1- 14-23 March 2- 4-14 April Each survey will be by helicopter and run out of Newman.		Waiting on BNTAC advice around their involvement.
25-February-2022	Teams	DBCA	MinRes DBCA	MinRes presented a brief outline of the Project and summary of the baseline ecological investigations completed and potential impacts on flora, vegetation, terrestrial fauna and subterranean fauna. Briefing of DBCA as background for upcoming Section 38 referral submission for Lamb Creek.	DBCA will be looking for contextual information on the presence, numbers of ghost bats and the level of understanding of roosting sites in the area. DBCA are also interested in the potential cumulative impacts on conservation significant flora and fauna.	DBCA appreciates the Project briefing and summary of ecological investigations and potential impacts. This will assist them when they are asked for advice on the flora/fauna aspects of the referral.
17-February-2022	Phone and email	DBCA	MinRes DBCA	Provide brief introduction to Lamb Creek Project and high-level summary of flora and fauna values and potential impacts. Approvals pathway via Part IV referral and DBCA involvement in reviews.	Request more detailed presentation on Lamb Creek Project and environmental setting and potential impacts	DBCA appreciates the introduction to the project and summary of key points with respect to DBCA remit. DBCA request a formal presentation (Teams) on Lamb Creek to further inform them of site environment and potential impacts in advance of them being asked to comment on referral.
15-February-2022	Email	BNTAC (Banjima)	BNTAC MinRes	Draft land access agreement between MinRes and BNTAC issued to BNTAC and legal counsel for Banjima.		

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15-February-2022	Email	BNTAC (Banjima)	BNTAC MinRes	Draft mine closure plan presentation to introduce MinRes mine closure planning. MinRes seeking an opportunity to start consulting with Banjima regarding this plan as it develops.	No issues raised.	MinRes awaiting feedback on Mine Closure Plan and ongoing engagement
10-February-2022	Teams	Shire of East Pilbara	MinRes Shire	Provided update re MinRes's Central Pilbara Iron Ore hub Provided update re Lamb Creek project including updated timings for approvals and expected construction Requested support re accessing alternative Shire Roads to access tenements for exploration drilling	No issues raised.	Shire continues to remain highly supportive of MinRes and our projects Supportive of our use of roads, and our request to maintain roads to our required standard, as needed Requested we inspect roads in question to determine required upgrades, and to capture these upgrades and future maintenance commitments in an agreement
05-January-2022	Email	Rio Tinto	MinRes RTIO	RTIO advised that their hydrologists have no concern with abstraction in the area given the low volumes and length of use. However, they have pointed out the lack of data in this area – asked if data sharing could be an opportunity?	Lack of data.	MinRes responded. Thanked for the update on RTIO's position in relation to our water licence application, we are pleased to hear our proposed water extraction does not raise any concerns with RTIO interests. Regarding data sharing, MinRes is also open to this and just need to finish checking with a few internal groups to determine how this can work and get the official go ahead. At present anticipate that, assuming confirmation of approval to proceed, our hydrogeological people can liaise directly with your hydrogeological people after introductions.



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04-January-2022	Phone and email	White Springs Pty Ltd	MinRes White Springs Pty Ltd	White Springs query on appropriate contacts for contracting opportunities.	Seeking to make contact with appropriate MinRes staff.	Contact details originally forwarded in late 2021 were re-sent.
21-December-2021	Email	Rio Tinto	MinRes RTIO	RTIO query on MinRes's purpose for the water licence application.	Purpose of water abstraction applied for by MinRes. Potential for data sharing.	Informed RTIO the water abstraction is for supply and dewatering, from both in-pit sump and production bores. RTIO indicated no significant concerns with MinRes's proposed water licence application.
17-December-2021	Email	Banjima	MinRes BNTAC	Email introducing White Springs - a business owned by a Banjima member.	Seeking to make contact with appropriate MinRes staff in the business development area.	Appropriate contacts in the Communities team given and introduction made.
17-December-2021	Email	Banjima	MinRes BNTAC	Email seeking an opportunity to give project update to Banjima Board.	No issues raised.	BNTAC CEO will advise on suitable dates.

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16-December-2021	Email	DWER	MinRes DWER	DWER email received following up on 6/12/21 meeting.	DWER areas of interest for written response from MinRes - info on potential impact to stygofauna, drawdown. Evidence of consultation and 'consent' from TOs for proposed activities.	Information presented re: drawdown, stygofauna appear to address DWER queries, written response to be provided by MinRes. Evidence of consultation with other users (RTIO) to be provided by MinRes. MinRes presented info that DPLH 'lodged' Gaguna heritage site is larger than the site agreed with the Banjima people, and proposed bores are not within the actual Gaguna site. All registered sites have been avoided in the project design. DWER cannot accept the revised site boundaries unless reflected in DPLH database, or MinRes can provide documentary evidence of Banjima consent to the bores & other proposed activity within the DPLH designated site.
10-December-2021	Phone	Rio Tinto	MinRes RTIO	Consultation on MinRes's water licence application with adjacent licence holder (RTIO). Status of RTIO licence and any concerns with proposed MinRes allocation.	RTIO's existing GWL#173219 only approx. 1.5km south of MinRes Project, but of small annual quantity (45,000 kL) and likely for exploratory purposes. Any impacts of MinRes's proposed water allocation on RTIO?	No initial RTIO concerns with proposed allocation but will require confirmation with RTIO water specialists.

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06-December-2021	Meeting / Presentation	DWER	MinRes DWER	DWER-water comments/questions on water licence application & supporting documents (GWOS, H2 study). Included a heritage update.	H2 study - potential of perched aquifers/shallow groundwater in detrital supporting GDE vegetation/other ecosystems? GWOS - consultation required with neighbouring water user (GWL#173219), DWER acceptance of proposed monitoring program, bores within lodged aboriginal heritage site and agreements with TOs.	H2 study - study data & model indicates absence of perched/shallow groundwater that would support GDE vegetation or subterranean fauna in a perched aquifer. No GDE vegetation found during flora studies, subterranean fauna found in underlying bedrock not detrital.  GWOS - DWER accepts proposed monitoring program, MinRes in contact with other water user (RTIO) to determine any concerns with MinRes water allocation request, MinRes in ongoing consultations with TO group (Banjima) to renew an access agreement & have conducted numerous heritage surveys identifying some (registered) sites, Project design footprint avoids all heritage sites. Noted that lodged sites not recognized until registered.
01-December-2021	Email	Rio Tinto	MinRes	MinRes provided updated map and associated shapefiles.	No issues raised.	Updated map and shapefiles provided.
01-December-2021	Email	BHP	MinRes BHP	PMI BHP Lamb Creek Access Deed - MinRes provided updated map and the associated shapefiles for the access deed.	No issues raised.	Updated map and shapefiles provided.

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30-November-2021	Meeting	Rio Tinto/Juna Downs	MinRes RTIO	The Lamb Creek proposed alignment and access agreement.	RTIO exploration team are not comfortable with the position of borrow pits or infrastructure located close to the haul road intersection. MinRes confirmed that it will not be progressing any of the borrow pits in that iteration of the haul road alignment.	RTIO to review shapefiles and respond to MinRes comments on draft deed.
26-November-2021	Meeting	EPA	MinRes Stantec EPA	Pre-referral meeting for Lamb Creek s38 submission. Provide high level summary of potential impacts on significant factors and proposed management measures, seek EPA feedback.	No significant issues. The plant shown as critically endangered at GNH intersection is a result of misidentification and expected to be delisted. EPA advice on aspects to ensure are included in referral, and recent experiences with other referrals: identify changes made to avoid heritage sites, committing to ongoing TO group engagement is important, clearly demonstrate any risk, or lack thereof, of PAF wastes, ghost bat habitat and distances from disturbances important. EPA advised that any recent assessments that included GHG have been appealed on this factor (Conservation Council-philosophically opposed to GHG emissions).	No significant issues raised with Lamb Creek as proposed, should be an uncomplicated assessment. However, EPA also advised that appeals can, and have recently, come from unexpected, interested parties.

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18-November-2021	Email	DWER	MinRes DWER	Email correspondence from/to DWER water regarding MinRes's water licence application. DWER requesting further information on the potential for perched/shallow groundwater systems at Lamb Creek. Also provided review comments on MinRes's proposed Groundwater Operating Strategy. MinRes has requested a meeting to respond to DWER enquiries and is awaiting a response. Plan for a meeting in December 2021.	No issues raised.	MinRes has requested a meeting to respond to DWER enquiries and is awaiting a response. Plan for a meeting in December 2021.
18-November-2021	Phone	EPA	MinRes EPA	Provided an email update on project referral status (including Lamb Creek) - confirming this will be referred and seeking a pre-referral meeting.	No issues raised.	N/A
16-November-2021	Email	Banjima	MinRes Banjima	Discuss approach to new Aboriginal Heritage Legislation.	Agreed New Act should be provided for.	Drafting to proceed on that basis.
12-November-2021	Phone and email	Banjima	MinRes Banjima	Email correspondence and phone calls regarding future heritage surveys and COVID-19 management protocols.		
10-November-2021	Meeting	DMIRS	MinRes DMIRS	Whole of projects and mining activity presentation which included discussion on Lamb Creek and confirmation of referral under s38 and adjusted timeframes for submission of Mining Proposal.	No issues raised.	Further update in next bi-monthly meeting.

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5-9-November-2021	Email	Banjima	MinRes Banjima	Discussion regarding Board meeting to consider agreement drafting. Banjima preferred draft agreement before Board meeting. Drafting to commence whilst Board meeting date agreed.	Banjima proposed alternative means of engagement.	MinRes to consider
19-October-2021	Email	Juna Downs Station	MinRes Rio Tinto	Notification that MinRes will be undertaking airborne imagery surveys in late October in association with its Lamb Creek and Ophthalmia projects. The survey will include various tenements and pastoral leases held by Rio Tinto.	No issues raised.	Rio to circulate to internal stakeholders and revert if any feedback.
19-October-2021	Email	BHP	MinRes BHP	Notification that MinRes will be undertaking airborne imagery surveys in late October in association with its Lamb Creek and Ophthalmia projects. The survey will include various tenements and pastoral leases held by BHP.	No issues raised.	BHP responded and advised they have no concerns.
11-13-October-2021	Email	Banjima	MinRes Banjima	Seeking date to present update to Banjima Board as agreed on 8 September.	Purpose of Board update queried - what level of information.	Banjima to consider if Board update appropriate course.
30-September-2021	Phone	Banjima	MinRes Banjima	Seeking date to present update to Banjima Board as agreed on 8 September.	No issues raised.	Date to be provided by Banjima.



Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
21-September-2021	Meeting	DMIRS EPA	MinRes DWER/EPA DMIRS	Talk through the Lamb Creek Project - DMIRS and DWER-EPA - intent to put through DMIRS approvals process - get a feel in terms of preliminary impact assessment that may change the approvals strategy / approach. Undertaken baseline studies and developing disturbance and development envelopes.	No issues raised.	<p>EPA advised MinRes evidence of avoidance is good. Reaffirmed GHG, Culture and Heritage important.</p> <p>MinRes advised project is effectively replacing tonnes from Iron Valley. Cumulative impacts considered in this regard. No net increase in trucks from Lamb Creek to PH (direct replacement for Iron Valley haulage) MinRes total GHG would not change.</p> <p>EPA advised unrelated activity but worth noting in submission. Mentioned previous studies assessing whole vs single operations GHG assessment. Advised to avoid going down this path. Additionally, emissions from diesel are costly, alternatives not likely to occur within short mine life.</p>
16-September-2021	Phone and email	Banjima		Email correspondence and phone calls exploring possibility of meeting with Banjima Working Group in lieu of BNTAC Board.		
08-September-2021	Meeting	Banjima	MinRes Banjima	Delivered a project update and discussed meeting with the Board to deliver a similar overview	No issues raised.	Desire for ongoing dialogue.
08-September-2021	Meeting	DMIRS	MinRes DMIRS	Bi-monthly whole of projects and mining activity presentation which included discussion on Lamb Creek.	No issues raised.	Further update in next bi-monthly meeting.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
24-August-2021	Meeting	Shire of East Pilbara	MinRes Shire	MinRes met with the Shire to give them an overview of the proposed Lamb Creek project.	No issues raised.	Good opportunity to meet with the new CEO and present an overview of our projects and operations. The Shire did not raise any concerns and indicated they would support new developments through the usual approvals processes etc. The relationship will become more significant as we progress the development of our broader Central Pilbara project.
18-August-2021	Email	Birdlife WA Conservation Council WA Wilderness Society Wildflower Society WA	Birdlife WA representatives Conservation Council WA representatives Wilderness Society representatives Wildflower Society WA representatives	MinRes sent email invitation to NGO's to attend a briefing update on the proposed Lamb Creek Project.	No issues raised.	No NGOs were available to attend therefore MinRes offered individual briefings at times that are suitable to the NGOs via phone or Teams.
16-August-2021	Phone	MRWA	MinRes MRWA	Native veg clearing in MRWA road reserve required for GNH intersection.	Determine NVCP approval pathway for clearing in road reserve- use MRWA state-wide CPS-818, or MinRes lodge NVCP via DWER. Understand MRWA requirements for working in road reserve in either case.	MinRes apply for NVCP via DWER but also prepare supporting documents meeting MRWA requirements. MRWA will review MinRes application and supporting documents and provide letter giving consent for MinRes to submit NVCP and work in road reserve.
13-August-2021	Email	DWER	DWER MinRes	MinRes submission of H2 hydrogeological study and groundwater operating strategy (GWOS), in support of application for 5C water licence	No issues raised.	Submissions completed as required to support 5C licence application.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
22-July-2021	Email	DWER	DWER MinRes	MinRes's application for 5C water licence and required supporting H2 hydrogeological study and groundwater operating strategy (GWOS) submissions.	MinRes request further 2-week deferral of submission for H2 hydrogeological study and GWOS (in support of 5C licence application) until 13 August 2021. Amendment to H2 study underway to predict water table recovery levels (post mining). Results of this additional work will inform GWOS.	DWER-Water approve revised submission date for H2 study and GWOS to 13 August 2021.
21-July-2021	Meeting	DMIRS	MinRes DMIRS	Bi-monthly whole of projects and mining activity presentation which included discussion on Lamb Creek.	No issues raised.	Further update in next bi-monthly meeting.
1-July-2021 - 14-July-2021	Email	Banjima Australian Cultural Heritage Management (ACHM)	MinRes Roe Legal ACHM	Additional spatial data provided clarifying boundaries of Gaguna and acceptable buffer around the place.		The Proposal has been modified in response to the recommendations of the ethnographic survey – the northern haul road alignment has been shifted north to place it further away from Gaguna.
09-November-2020	Email	DWER	DWER MinRes	MinRes application for 5C water licence and required supporting H2 hydrogeological study and groundwater operating strategy (GWOS) submissions.	MinRes request deferral of submission for H2 hydrogeological study and GWOS (in support of 5C licence application) until 31 July 2021. Due to difficulty in securing drilling contractors given industry-wide demand.	DWER-Water approved revised submission date for H2 study and GWOS to 31 July 2021.
24-September-2020	Letter	DPLH	DPLH MinRes	Programme of Works (POW) 89255.	A review of the Register of Places and Objects as well as the Aboriginal Heritage Database.	The proposed drilling program does not intersect the actual boundary of Aboriginal heritage place ID 30213 (Gaguna) as currently administered by DPLH.

Date of Consultation	Type of Consultation	Stakeholder	Attendees	Purpose and items discussed	Issues raised	Outcomes
16-April-2020	Meeting / Presentation	DWER	MinRes DWER	Lamb Creek Iron Ore Project Presentation for DWER to provide an overview of MinRes proposed Lamb Creek Iron Ore Project and complete pre referral meeting, discuss environmental acceptability and next steps in assessment process.	No issues raised.	N/A
01-March-2020	Meeting	DMIRS	MinRes DMIRS	Introduced the Project to DMIRS. Complete pre-referral meeting, agree environmental acceptability and next steps in assessment process.	DMIRS stated that targeted fauna surveys will be required as original surveys are over 5 years old and there were potential MNES. Flora surveys not required as no TEC/PEC or priorities.	MinRes to undertake targeted flora and fauna studies. Reports to be submitted with POW application. MinRes to develop and submit an Exploration EMP, to be submitted with POW application. MinRes to ensure excess tonnage applied for prior to submitting POW application.
15-September-2017	Meeting	DWER	DWER MinRes	Pre-referral meeting with EPA Services to discuss environmental factors relevant to the proposal.	Potential for significant impact on troglofauna (five new species recorded found only in pit extent).	The Proposal has been modified in response to the potential impact to restricted troglofauna – the northern extent of the pit has been reduced via the application of a troglofauna exclusion zone. This zone effectively avoids the recorded occurrence of three restricted troglofauna within the mine pit.
21-December-2012	Letter	DAWE	Polaris / MinRes SEWPaC	EPBC Referral	EPBC referral assessment decision.	SEWPaC Decision: The proposed action is not a controlled action.
01-November-2012	Letter	DAWE	Polaris / MinRes SEWPaC	EPBC Referral	Letter dated 1 November 2012, referred to a meeting on 15 November 2012 to discuss the Lamb Creek project.	N/A

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August / September 2012	Survey	Banjima	Banjima	Martidja Banyjima Site Avoidance Survey of Lambs Creek Project, East Pilbara, WA. The archaeological survey was undertaken between 14 August and 23 August, and 11 September and 20 September 2012.	The Proposal has been modified in response to the recommendations of the ethnographic avoidance survey – the northern haul road alignment has been shifted north to place it further away from the hill known as Gaguna.	The Proposal has been modified in response to the recommendations of the ethnographic avoidance survey – the northern haul road alignment has been shifted north to place it further away from the hill known as Gaguna.

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