



Newman Hub (Orebody 32 Below Water Table)

Proposal content document

24 October 2022
Version 1

Document amendment record

Version	Section/page	Version description	Key changes	Date
0	All	Original draft provided for Traditional Owner review	N/A	29/04/2022
1	All	Final version for EPA	Minor edit	24/10/2022

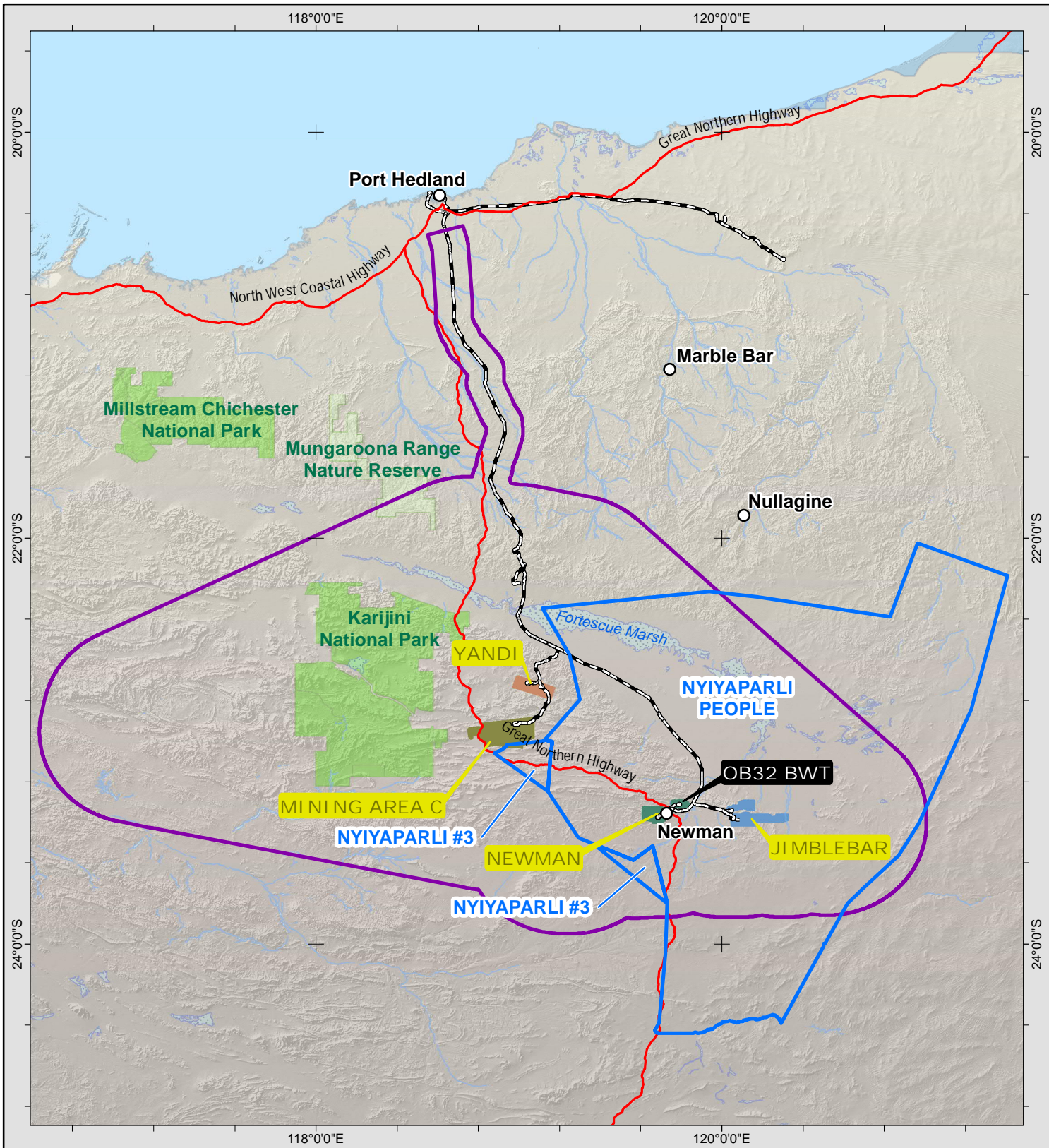
Table 1: General proposal content description

Proposal title	Orebody 32 Below Water Table
Proponent name	BHP Iron Ore Pty Ltd
Short description	<p>The proposal is a derived proposal for the expansion of existing mining operations at Newman (Figure 1), authorised by the Pilbara Expansion Strategic Proposal, Ministerial Statement 1105.</p> <p>The proposal is to expand the existing Orebody 32 above water table iron ore mine (authorised by the Eastern Ridge Revised Proposal, Ministerial Statement 1037) in BHP's Newman Hub to below the water table. The proposal is located approximately 3.6 kilometres (km) northeast of Newman (Figure 2) and includes, but is not limited to, the following activities and operations in Ministerial Statement 1105 Table 3, associated with below water table mining:</p> <ul style="list-style-type: none"> • groundwater abstraction for mine pit dewatering • expansion of mine pit excavation to below the water table • ancillary infrastructure and activities associated with dewatering (including abstraction water bores) • ancillary infrastructure and activities associated with surplus water discharge (including laydown areas, borrow pits and surplus water pipeline from Orebody 32 to Ophthalmia Dam) • ground-disturbance and earthworks (vegetation and habitat removal) associated with surplus water discharge • discharge of surplus water into Ophthalmia Dam • rehabilitation and decommissioning activities. <p>The proposal will use existing and approved elements for the Eastern Ridge mine (authorised by the Eastern Ridge Revised Proposal, Ministerial Statement 1037) for the mining, transportation and processing of ore:</p> <ul style="list-style-type: none"> • mine elements - clearing for mine pit, ore stockpiles and ex-pit overburden storage areas • transportation elements - including haul roads, conveyors, service corridors and rail infrastructure • processing elements - including ore handling plants and crushers.

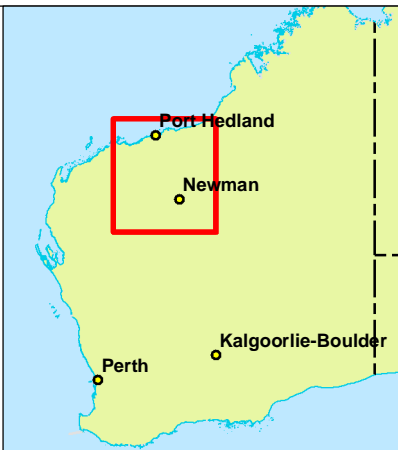
Table 2: Proposal content elements

Element	Location / description	Maximum extent, capacity or range
Physical elements		
Below water table mine and associated infrastructure and activities	Figure 2 Development Envelope - Mine	No clearing (0 ha) of native vegetation within the mine area of the 933 ha Development Envelope

Element	Location / description	Maximum extent, capacity or range
		All disturbance to be within areas disturbed for the Orebody 32 above water table mine
Surplus water discharge and associated infrastructure and activities	Figure 2 Development Envelope - Pipeline	Clearing of up to 224 ha of native vegetation within the pipeline corridor area of the 933 ha Development Envelope
Operational elements		
Pit lake	Figure 2 Development Envelope - Mine	Option for open void and formation of pit lake in Orebody 32
Greenhouse Gas Emissions		
Peak annual average		
Scope 1	Diesel consumption	Less than 97,534 t CO ₂ -e per annum
Scope 2	Electricity use	0 t CO ₂ -e per annum
Annual average life of mine		
Scope 1	Diesel consumption	Less than 41,000 t CO ₂ -e per annum
Scope 2	Electricity use	0 t CO ₂ -e per annum
Total (based on annual average Scope 1 and Scope 2 and 30 year below water table mine life)		767,864 t CO ₂ -e
Other elements which affect extent of effects on the environment		
Maximum project life (based on period of dewatering)		30 years
Commissioning		
Commissioning of the dewatering and surplus water discharge infrastructure subject to operational elements above		
Rehabilitation and closure		
Any permanent pit lake that forms following the permanent cessation of dewatering will be designed and managed to be safe and non-polluting		



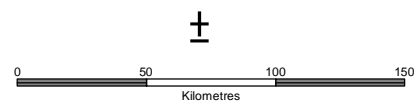
- ▭ WA Native Title Determination
- ▭ Strategic Proposal MS1105 Project Boundary
- Major Roads
- BHP Rail
- Existing Hubs**
- ▭ Jimblebar
- ▭ Mining Area C
- ▭ Newman
- ▭ Yandi



BHP

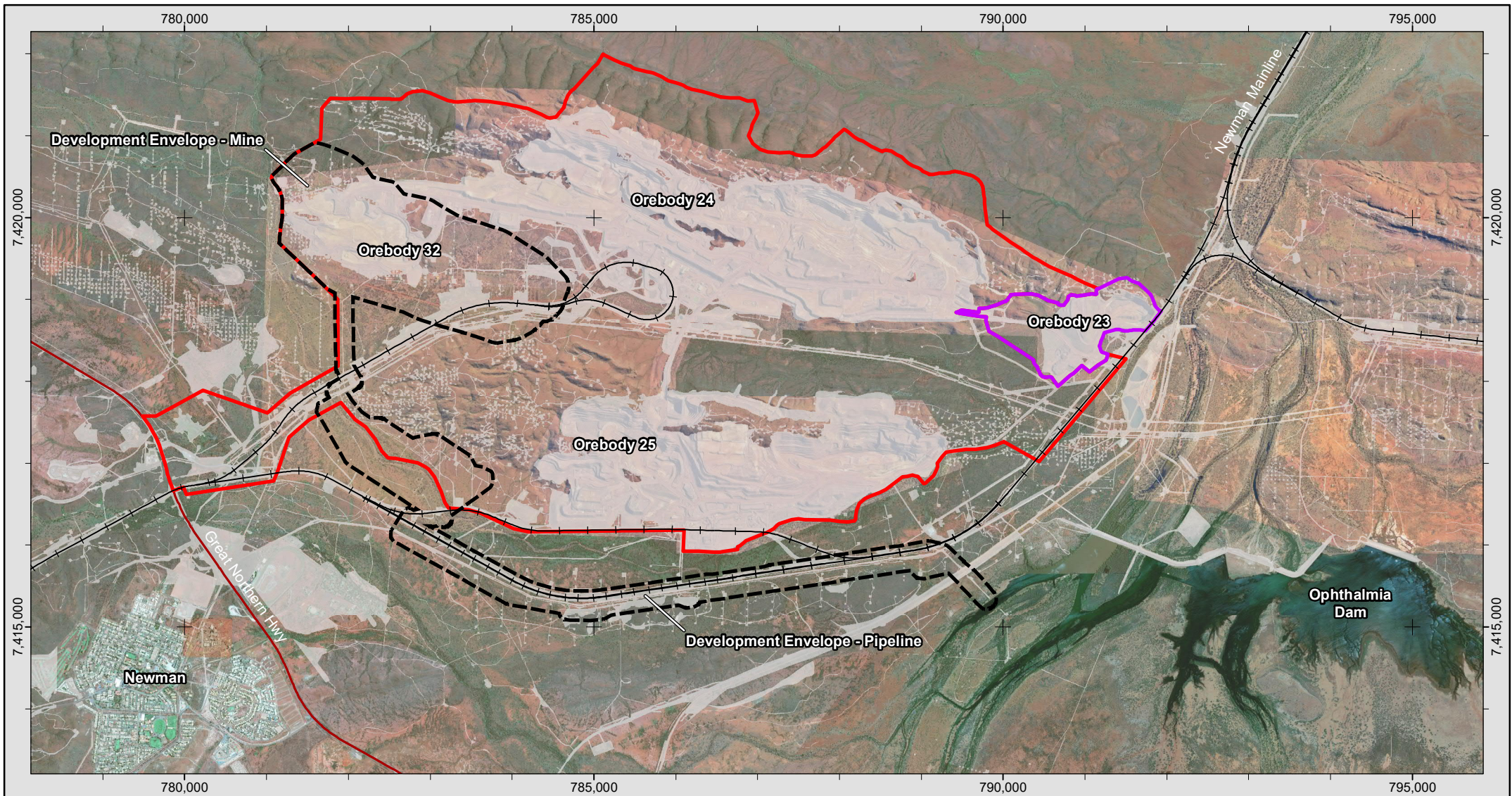
Spatial Data - Studies & Access
BHP IRON ORE

OREBODY 32 BELOW WATER TABLE
Proposal Location in Relation to the Strategic Proposal

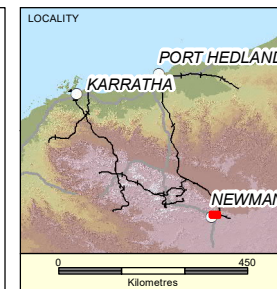


Coordinate System: GCS GDA 1994, Datum: GDA 1994, Units: Degree

Scale @ A4: 1:2,925,000	Prepared: J. Vis	Project No: A1079/005 REV B
Date: 21/03/2022	Reviewed: Env. Approvals	Figure: 1



- Proposed Development Envelope
- Eastern Ridge MS1037 Development Envelope
- Orebody 23 MS478 Development Envelope
- Indicative Cleared Area as at 15 February 2022



BHP Spatial Data - Studies & Access
BHP IRON ORE

OREBODY 32 BELOW WATER TABLE
Proposed Development Envelope

N

Kilometres
Coordinate System: GDA 1994 MGA Zone 50
Projection: Transverse Mercator, Datum: GDA 1994, Units: Meter

Scale @ A4: 1:65,000	Prepared: J. Vis	Project No: A1079/049 REV A
Date: 28/04/2022	Checked: S. Trinder	Figure: 2
	Reviewed: Env Approvals	