



APPROVAL

Mangoola Coal Continued Operations (MCCO) Project, Wybong NSW (EPBC 2018/8280)

This decision is made under sections 130(1) and 133(1) of the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*. Note that section 134(1A) of the EPBC Act applies to this approval, which provides in general terms that if the **approval holder** authorises another person to undertake any part of the **action**, the **approval holder** must take all reasonable steps to ensure that the other person is informed of any conditions attached to this approval, and that the other person complies with any such condition.

Details

Person to whom the approval is granted (approval holder)	Mangoola Coal Operations Pty Limited
ACN or ABN of approval holder	ACN: 127 535 755
Action	To establish a new open cut coal pit, as well as associated infrastructure including roads, overburden areas and water management systems within the Mangoola landholdings [See EPBC Act referral 2018/8280 and request for variation of proposal dated 21 May 2021].

Approval decision

My decisions on whether or not to approve the taking of the **action** for the purposes of each controlling provision for the **action** are as follows.

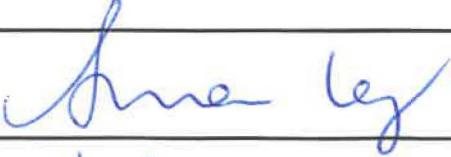
Controlling Provisions

Listed Threatened Species and Communities	
Section 18	Approve
Section 18A	Approve
Coal seam gas or large coal mining development impact on water resources	
Section 24D	Approve
Section 24E	Approve

Period for which the approval has effect

This approval has effect until 31 December 2040.

Decision-maker

Name and position	The Hon Sussan Ley MP Minister for the Environment
Signature	
Date of decision	1/10/21

Conditions of approval

This approval is subject to the conditions under the EPBC Act as set out in ANNEXURE A.

ANNEXURE A – CONDITIONS OF APPROVAL

Part A – Conditions specific to the action

Water Resources

The objective of conditions 1 to 7 is to minimise the impacts of the action on water resources.

1. The **approval holder** must not extract or process more than **52 million tonnes of run-of mine coal** from the **MCCO Additional Project Area**.
2. The **approval holder** must comply with conditions B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B85-91 of Part B of the **State development consent**.
3. The **approval holder** must ensure the action has **negligible impacts to Groundwater Dependent Ecosystems** (the **GDE Performance Measure**).
 - a. The **approval holder** must include in the Groundwater Management Plan required by condition B50(v) of the **State development consent**:
 - i a program to monitor the **GDE Performance Measure**
 - ii A trigger action response plan to respond to any exceedances of the **GDE Performance Measure**
 - iii A plan to repair and mitigate any exceedances.
 - b. The **approval holder** must notify the **Department** within 5 business days of detecting an exceedance of the **GDE Performance Measure** and the proposed repairs and/or mitigation work to be undertaken. In the event an exceedance of the **GDE Performance Measure** cannot be repaired or mitigated, the approval holder must provide an offset. The offset must be approved by the **Minister**.
4. For the protection of surface water quality, the **approval holder** must:
 - a. Ensure the action has **negligible impacts to surface water quality**.
 - b. Submit a list of water quality monitoring parameters and **performance criteria** for the **Minister's** approval. The **approved water quality parameters and performance criteria** are to be included in the Surface water management **plan** (condition B50(iv) of the **State development consent**). The water quality parameters must include (but not limited to) key metals (total and dissolved) and nutrients. Coal extraction from the **MCCO Additional Project Area** cannot commence until the water quality monitoring parameters and **performance criteria** have been approved by the **Minister** (the **approved water quality parameters and performance criteria**).
 - i The **approved water quality parameters and performance criteria** are subject to the same requirements as the **performance measures** listed in Table 6, condition B48 of the **State development consent**.

- c. Prepare a Stream Monitoring Program for the Hunter River discharge point which includes:
 - i a map showing the **water discharge location** on the Hunter River associated with the action. The map must also identify the receiving waters.
 - ii baseline water quality data of the **approved water quality parameters** for the receiving waters, upstream and downstream of any water discharge locations associated with the action and identified in condition 4c(i)
 - iii expected water quality, volume, timing (seasonal) and frequency of discharged water and the potential impacts to surface water quality
 - iv proposed mitigation measures to reduce impacts of the discharged water to the receiving environment
 - v a program to monitor the **approved water quality parameters** against the **performance criteria** within the receiving waters. The monitoring program must be designed to detect impacts to water quality directly associated with the action and be able to distinguish from natural variability and upstream impacts
 - vi a program to monitor stream biota within the receiving waters. The program must include site-specific guideline values and mitigation strategies following sampling events.
 - vii Coal extraction in the **MCCO Additional Project Area** cannot commence until the Stream Monitoring Program has been approved by the **Minister**.
- 5. The **approval holder** must provide the **Department** with the version of the **Water Management Plan** approved by the **NSW Planning Secretary** as required by condition B50 of the **State development consent** within **5 business days** of its approval by the **NSW Planning Secretary**.
- 6. The **approval holder** must notify the **Department** within **5 business day** of submitting a request to change the approved **Water Management Plan** approved by the **NSW Planning Secretary**. If the revised version of the **Water Management Plan** is approved by the **NSW Planning Secretary**, the **approval holder** must provide the **Department** with the approved revised **Water Management Plan** within **5 business days** of its approval and outline what changes have been made and any implications for **protected matters**.
- 7. If, at any time during the period for which this approval has effect, the approval holder detects or predicts an exceedance of any trigger levels which are specified in the approved **Groundwater Management Plan** or **Surface Water Management Plan** required by condition B50 of the **State development consent**, the approval holder must notify the **Department** of the exceedance in writing within **5 business days** of detecting or predicting the exceedance.

Listed threatened species and ecological communities

The objective of conditions 8 to 12 is to minimise impacts and compensate for residual impacts of the action on EPBC Act listed threatened species and ecological communities.

- 8. The **approval holder** must not exceed the **clearing limits** specified below and shown in Annexure 2:
 - a. 24.3 hectares of the **White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland EPBC Act listed ecological community**.
 - b. 148 hectares of **Regent Honeyeater (*Anthochaera phrygia*) habitat**.
 - c. 148 hectares of **Swift Parrot (*Lathamus discolor*) habitat**.

- d. 162.7 hectares of **Grey-headed flying fox (*Pteropus poliocephalus*)** habitat.
 - e. 101.6 hectares of land containing ***Prasophyllum* sp Wybong** habitat.
9. Prior to the commencement of coal extraction in the MCCO Additional Project Area, or other timeframe agreed to by the Minister, the approval holder must retire the biodiversity credits specified in Table 1. The credits must be retired in accordance with the NSW Biodiversity Offset Scheme of the NSW Biodiversity Conservation Act and to the satisfaction of the Biodiversity Conservation Trust.

Table 1 – Credits to be retired

Protected matter	Associated PCT Community	Area (ha)	Credits required
White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community	HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	17.8	1,136
	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46	253
Regent Honeyeater (<i>Anthochaera phrygia</i>)/ Swift Parrot (<i>Lathamus discolor</i>)	HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	6.30	369
	HU817 - Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter	135.2	7,821
	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46	253
Grey-headed flying fox (<i>Pteropus poliocephalus</i>)	HU812 - Forest Red Gum grassy open forest on floodplains of the lower Hunter	14.7	1,151
	HU816 - Spotted Gum - Narrow-leaved Ironbark shrub - grass open forest of the central and lower Hunter	6.3	369
	HU817 - Narrow-leaved Ironbark - Bull Oak - Grey Box shrub - grass open forest of the central and lower Hunter	135.2	7,821
	HU821 - Blakely's red Gum - Narrow-leaved Ironbark - Rough-barked apple shrubby woodland of the Hunter	6.46	253

Note: The credits in Table 1 were calculated in accordance with the Framework for Biodiversity Assessment of the NSW Biodiversity Offset Policy for Major Projects (OEH, 2014) and will need to be converted to reasonably equivalent 'biodiversity credits', within the meaning of the NSW Biodiversity Conservation Act 2016, for the credits are to be retired in accordance with the Biodiversity Offsets Scheme of the NSW Biodiversity Conservation Act 2016.

10. For the protection of the *Prasophyllum* sp Wybong, prior to the commencement of coal extraction in the MCCO Additional Project Area, or other timeframe agreed to by the Minister, the approval holder must provide the Minister with:
 - a. evidence that 193.1 ha of *Prasophyllum* sp Wybong offset habitat has been secured under a Biodiversity Stewardship Agreement.
 - b. a *Prasophyllum* sp Wybong offset management plan (this can be provided separately or as part of the Biodiversity Management Plan). This plan must be prepared by a suitably qualified *Prasophyllum* sp Wybong expert and must include, but not be limited to:
 - i identification of potential direct and indirect impacts to the *Prasophyllum* sp Wybong individuals and/or habitat in the offset area
 - ii management actions proposed to minimise impacts to the *Prasophyllum* sp Wybong individuals and/or habitat in the offset area
 - iii performance indicators and trigger thresholds for the population size and habitat condition. Both short and long term performance indicators and trigger thresholds should be included to account for seasonal variations.
 - iv a program to monitor and evaluate the population size and habitat condition against the performance indicators and trigger thresholds
 - v an action plan to respond to exceedances and/or failure to meet the performance indicators and thresholds.
11. The approval holder must provide the Minister with an annual report outlining the results of the monitoring and management actions required under the *Prasophyllum* sp Wybong offset management plan, within 60 business days of the end of the calendar year.
12. The approval holder must comply with condition B57 of the State development consent to prepare and implement the Biodiversity Management Plan. The approval holder must comply with conditions B54, B55¹, B56, B57, B58 and B59 of Part B of the State development consent (to the extent the conditions in Part B relate to EPBC Act threatened species and ecological communities).

Part B –Administrative conditions

Notification of date of commencement of the action

13. The approval holder must notify the Department in writing of the date of commencement of the action within 10 business days after the date of commencement of the action.
14. If the commencement of the action does not occur within 5 years from the date of this approval, then the approval holder must not commence the action without the prior written agreement of the Minister.

Compliance records

15. The approval holder must maintain accurate and complete compliance records.

¹ The Department notes that the 2012 version of the plan referred to in State condition B55 has been updated to version 3 dated 5 November 2018 or latest version as updated from time to time.

16. If the **Department** makes a request in writing, the **approval holder** must provide electronic copies of **compliance records** to the **Department** within the timeframe specified in the request.

Note: **Compliance records** may be subject to audit by the **Department** or an independent auditor in accordance with section 458 of the **EPBC Act**, and or used to verify compliance with the conditions. Summaries of the result of an audit may be published on the **Department's website** or through the general media.

Submission and publication of plans

17. The **approval holder** must:

- a. submit **plans** electronically to the **Department**;
- b. unless otherwise agreed to in writing by the **Minister**;
 - i publish each **plan** on the **website** within 20 **business days** of the date:
 - I. of this approval if the version of the **plan** to be implemented is specified in these conditions or in the **State development consent**;
 - II. the **plan** is approved by the **Minister**; or
the **plan** is approved by the **NSW Planning Secretary** if the **plan** is required under the **State development consent** to be approved by the **NSW Planning Secretary**;
 - ii exclude or redact **sensitive ecological data** from **plans** published on the **website** or provided to a member of the public and, if **sensitive ecological data** is redacted from any **plan**, submit an unredacted electronic version of the **plan** to the **Department** explaining what redactions have been made in the published version; and
 - iii keep **plans** published on the **website** until the end date of this approval.

Annual compliance reporting

18. The **approval holder** must prepare a **compliance report** addressing compliance with each of the conditions of this approval, including implementation of any management **plans** and strategies from the **State development consent** that are referred to in this approval, every calendar year, or otherwise in accordance with an annual date that has been agreed to in writing by the **Minister**.
The **approval holder** must:

- a. publish each **compliance report** on a **website** within 60 **business days** following the relevant 12 month period,
- b. notify the **Department** by email that a **compliance report** has been published on the **website** and provide the **website's** link for the **compliance report** within five **business days** of the date of publication,
- c. keep all **compliance reports** publicly available on the **website** until this approval expires,
- d. exclude or redact **sensitive ecological data** from **compliance reports** published on the **website**, and
- e. where any **sensitive ecological data** has been excluded from the version published, submit the full **compliance report** to the **Department** within 5 **business days** of publication.

Note: **Compliance reports** may be published on the **Department's website**.

Reporting non-compliance

19. The **approval holder** must notify the **Department** in writing of any: **incident**, or non-compliance with the conditions of this approval. The notification must be given as soon as practicable, and no

later than **5 business days** after becoming aware of the **incident** or non-compliance. The notification must specify:

- a. the condition of this approval or any State condition (if applicable) referred to in this approval which is in breach.
 - b. a short description of the **incident** and/or non-compliance, and
 - c. the location (including co-ordinates), date, and time of the **incident** and/or non-compliance. In the event the exact information cannot be provided, provide the best information available.
20. The **approval holder** must provide to the **Department** the details of any **incident** or non-compliance with the conditions of this approval as soon as practicable and no later than **10 business days** after becoming aware of the **incident** or non-compliance, specifying:
- a. any corrective action or investigation which the **approval holder** has already taken or intends to take in the immediate future,
 - b. the potential impacts of the **incident** or non-compliance, and
 - c. the method and timing of any remedial action that will be undertaken by the **approval holder**.

Independent audit

21. The **approval holder** must ensure that **independent audits** of compliance with the conditions are conducted as requested in writing by the **Minister**.
22. For each **independent audit**, the **approval holder** must:
- a. provide the name and qualifications of the independent auditor and the draft audit criteria to the **Department**,
 - b. only commence the **independent audit** once the audit criteria have been approved in writing by the **Department**, and
 - c. submit an audit report to the **Department** within the timeframe specified in the approved audit criteria.
23. The **approval holder** must publish the audit report on the **website** within **10 business days** of receiving the **Department's** approval of the audit report and keep the audit report published on the **website** until the end date of this approval.

Completion of the action

24. The **approval holder** must comply with condition A5² in Schedule 2 of the **State development consent**.
25. Within **20 business days** after the **completion of the action**, the **approval holder** must notify the **Department** in writing and provide **completion data**.

Changes to State development consent

26. The **approval holder** must notify the **Department** in writing of any proposed change to the **State development consent** that may relate to **protected matters** within **5 business days** of formally proposing a change or within **5 business days** of submitting an application to propose a change.

² Condition A5 in the State development consent states that mining operations may be carried out on the site until 31 December 2030

27. The **approval holder** must notify the **Department** in writing of any change to the **State development consent** conditions that may relate to **protected matters**, within **10 business days** of a change to conditions being approved.

Part C - Definitions

Action means the Mangoola Coal Continued Operations Project, Wybong, NSW (EPBC 2018/8280) as described in the NSW State Assessment Report for SSD 8642 and the referral under the EPBC Act [See EPBC Act referral 2018/8280 and request for variation of proposal dated 21 May 2021]

Approval holder means the person to whom the approval is granted as identified on the approval notice for EPBC 2018/8280, or to whom the approval is transferred under S145B of the **EPBC Act**, or a person who may take the **action** in accordance with section 133(2A) of the **EPBC Act**.

Approved water quality parameters and performance criteria means the parameters and performance criteria that are approved by the Minister in accordance with condition 4(b).

Biodiversity Conservation Trust means the Biodiversity Conservation Trust established under section 10.1 of the NSW *Biodiversity Conservation Act 2016*.

Biodiversity Management Plan means the Biodiversity Management Plan required under the State development consent condition B57.

Business day means a day that is not a Saturday, a Sunday or a public holiday in the state or territory of the **action**.

Clear/clearing means the cutting down, felling, thinning, logging, removing, killing, destroying, poisoning, ringbarking, uprooting or burning of vegetation (but not including weeds – see the *Australian weeds strategy 2017 to 2027* for further guidance).

Commencement of coal extraction means removal of coal and does not include preparatory works such as removal of overburden and removal of vegetation.

Commencement of the action means the first instance of any specified activity associated with the action including **clearing** and construction of any infrastructure. **Commencement of the action** does not include minor physical disturbance necessary to:

- i. undertake pre-clearance surveys or monitoring programs;
- ii. install signage and /or temporary fencing to prevent unapproved use of the **MCCO Additional Project Area**;
- iii. protect environmental and property assets from fire, weeds and pests, including erection of temporary fencing, and use of existing surface access tracks;
- iv. install temporary site facilities for persons undertaking pre-commencement activities so long as these are located where they have no impact on the **protected matters**.

Completion data means an environmental report and spatial data clearly detailing how the conditions of this approval have been met. The **Department's** preferred spatial data format is **shapefile**.

Completion of the action means the time at which all activities associated with the action have ceased.

Compliance records means all documentation or other material in whatever form required to demonstrate compliance with the conditions of approval in the **approval holder's** possession or that are within the **approval holder's** power to obtain lawfully.

Compliance report(s) means written reports:

- i. providing accurate and complete details of compliance, **incidents**, and non-compliance with the conditions and the **plans**,
- ii. consistent with the **Department's Annual Compliance Report Guidelines (2014)**,
- iii. including a **shapefile** of any clearance of any **protected matters**, or their habitat, undertaken within the relevant 12 month period, and
- iv. annexing a schedule of all **plans** prepared and in existence in relation to the conditions during the relevant 12 month period.

Department means the Australian Government agency responsible for administering the **EPBC Act**.

Environmental value means a quality or physical characteristic of the associated user that is conducive to ecological health, public amenity, or safety.

EPBC Act means the *Environment Protection and Biodiversity Conservation Act 1999 (Cth)*.

EPBC Act listed threatened species and communities: Regent Honeyeater (*Anthochaera phrygia*), Swift Parrot (*Lathamus discolor*), Grey-headed flying fox (*Pteropus poliocephalus*), a Leek Orchid (*Prasophyllum* sp Wybong) and White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community and any other matter listed as threatened under the **EPBC Act** at the time of the decision made under section 75 of the **EPBC Act** in relation to this action that may be found to be present where it could be affected by the action.

52 million tonnes of run-of mine coal means the coal mined from the **MCCO Additional Project Area** as approved in the **State development consent**.

Groundwater Dependent Ecosystem(s) (GDE) means ecosystems whose species and ecological processes rely on groundwater, either entirely or intermittently.

GDE Performance Measure means negligible environmental consequences to GDE's beyond those predicted in the EIS and supplementary reports that were considered as part of the assessment documentation. In the event of inconsistencies or ambiguity between documents, the most recent document prevails to the extent of the inconsistency or ambiguity.

Grey-headed flying fox (*Pteropus poliocephalus*) habitat means the area identified in Annexure 2 as potential Grey-headed Flying-fox habitat.

Incident means any event which has the potential to, or does, impact on one or more **protected matter(s)** other than as authorised by this approval.

Independent audit means an audit conducted by an independent and suitably qualified person as detailed in the *Environment Protection and Biodiversity Conservation Act 1999 Independent Audit and Audit Report Guidelines (2019)*.

MCCO Additional Project Area means the area shown outlined by the solid red line and labelled as 'MCCO Additional Project Area' in Annexure 1 to this approval.

Minister means the Minister administering the **EPBC Act** and includes any delegate of the Minister.

Negligible impacts means impacts do not exceed what was predicted in the EIS or subsequent documentation that formed part of the assessment documentation. In the event of inconsistencies or ambiguity between documents, the most recent document prevails to the extent of the inconsistency or ambiguity.

Negligible impacts to surface water quality means impacts to surface waters do not (1) exceed what was predicted in the EIS or subsequent documentation that formed part of the assessment documentation. In the event of inconsistencies or ambiguity between documents, the most recent document prevails to the extent of the inconsistency or ambiguity and/or (2) exceed prediction within the Approved Stream Monitoring Program required by condition 4(c).

NSW Planning Secretary means the person designated under the **State development consent** to approve management plans required under the conditions of the **State development consent**.

NSW Biodiversity Conservation Act means the *NSW Biodiversity Conservation Act 2016*.

NSW Biodiversity Offset Scheme means the NSW Biodiversity Offset Scheme established under section 6.2 of the *NSW Biodiversity Conservation Act 2016*.

Performance criteria means a value assigned to water quality parameter(s) by which exceedances require appropriate management actions (repair, mitigate and/or offset).

Performance measures means the water management performance measures specified in Table 6 of the **State development consent**.

Plan(s) means any of the documents required to be prepared, implemented by the **approval holder** and/or published on the **website** in accordance with these conditions (including those plans required by conditions of the **State development consent** that this **EPBC Act** approval requires the **approval holder** to comply with).

***Prasophyllum* sp Wybong expert** means a person with over 7 years' experience in identification and management of orchids who has been approved as an expert by the Minister.

***Prasophyllum* sp Wybong habitat** means habitat identified in Annexure 2 as ***Prasophyllum* sp Wybong habitat**.

***Prasophyllum* sp Wybong habitat offset** means ***Prasophyllum* sp Wybong habitat offset** identified in Annexure 3.

Protected matters means a **water resource** and, the following **EPBC Act** listed **threatened species and ecological communities**: Regent Honeyeater (*Anthochaera phrygia*), Swift Parrot (*Lathamus discolor*), Grey-headed flying fox (*Pteropus poliocephalus*), a Leek Orchid (*Prasophyllum* sp. Wybong) and White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland ecological community and any other matter listed as threatened under the **EPBC Act** at the time of the decision made under section 75 of the **EPBC Act** in relation to this action that may be found to be present where it could be affected by the action.

Regent Honeyeater (*Anthochaera phrygia*) habitat means the area identified in Annexure 2 as potential Regent Honeyeater/ Swift Parrot Habitat.

Sensitive ecological data means data as defined in the Australian Government Department of the Environment (2016) *Sensitive Ecological Data – Access and Management Policy V1.0*.

Shapefile means location and attribute information of the **action** provided in an Esri shapefile format. Shapefiles must contain '.shp', '.shx', '.dbf' files and a '.prj' file that specifies the projection/geographic coordinate system used. Shapefiles must also include an '.xml' metadata file that describes the shapefile for discovery and identification purposes.

State development consent means the State development consent for application number SSD-8642 approved on 26 April 2021, or any subsequent approved version.

Swift Parrot (*Lathamus discolor*) habitat means the area identified in Annexure 2 as potential Regent Honeyeater/ Swift Parrot Habitat.

Water discharge location means where water associated with the **action** is likely to be released into the Hunter River as a result of planned or unplanned discharge events.

Water Management Plan means the plan required under condition B50 of the **State development consent**.

Water Resource(s) means surface water or groundwater; or a watercourse, lake, wetland, or aquifer (whether or not it currently has water in it); and includes all aspects of the water resource (including water, organisms and other components and ecosystems that contribute to the physical state and **environmental value** of the water resource), as defined in the *Water Act 2007* (Cth).

Website means a set of related web pages located under a single domain name attributed to the **approval holder** and available to the public.

Wetland means land intermittently or permanently inundated with water that is usually slow moving or stationary, shallow, can be fresh, brackish or saline, and where the inundation affects the plant and animal communities present and the type and productivity of soil.

White Box-Yellow Box-Blakely's Red Gum Grassy Woodland and Derived Native Grassland EPBC Act listed ecological community means the area identified in Annexure 2 as White Box – Yellow Box- Blakely's Red Gum Grassy Woodland and derived native grassland CEEC.



Annexure 1

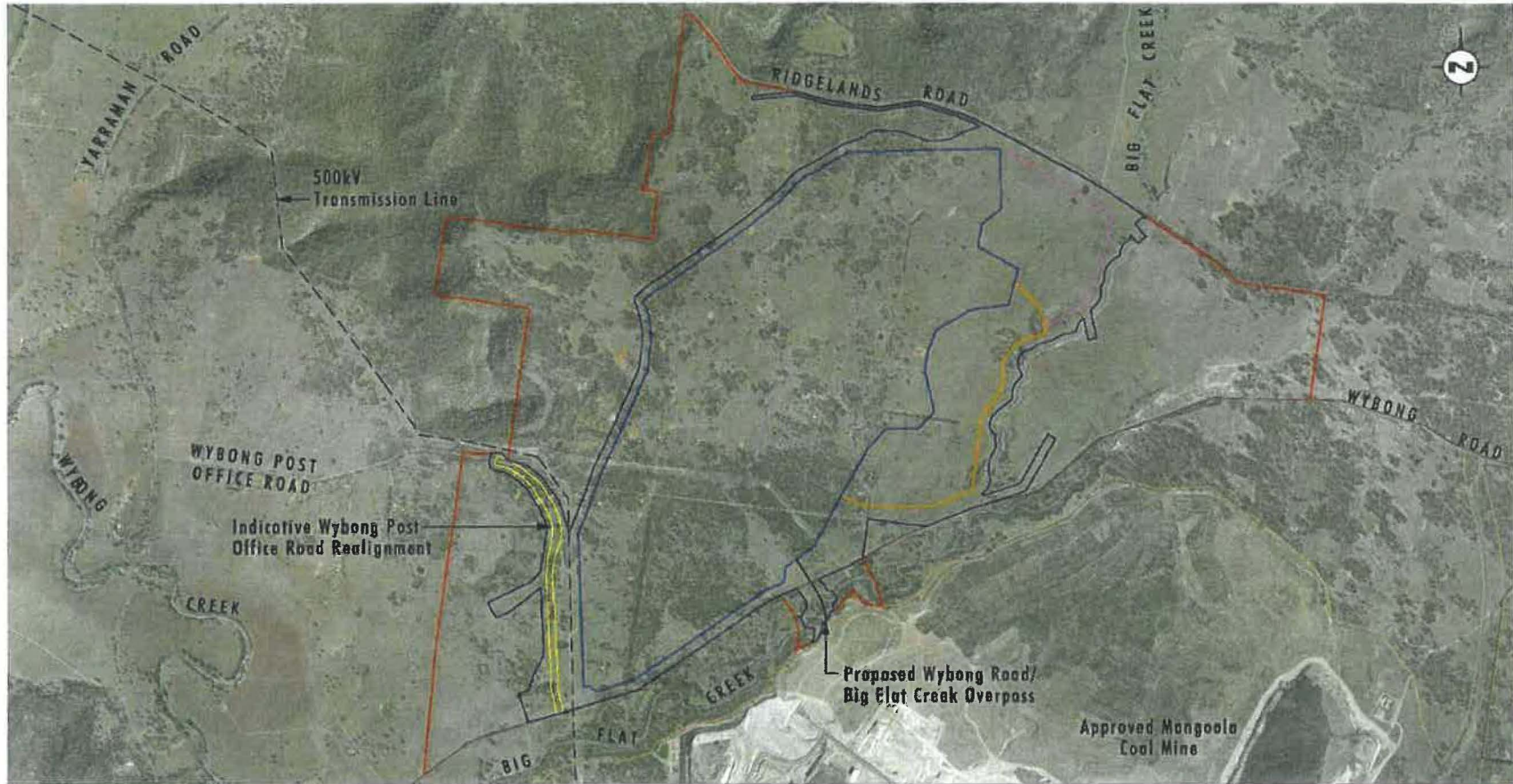


Image Source: Glencore (April 2018)
Data Source: Glencore (2018)

Legend

- MCCO Additional Project Area
- Approved Project Area
- Approved Mangoola Coal Mine Disturbance Area
- Development Footprint
- MCCO Proposed Additional Mining Area
- MCCO Proposed Emplacement Area
- MCCO Proposed Topsoil Stockpile Area
- Indicative Wybong Post Office Road Realignment

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Mangoola Coal Continued Operations Project
Development Footprint

Annexure 2

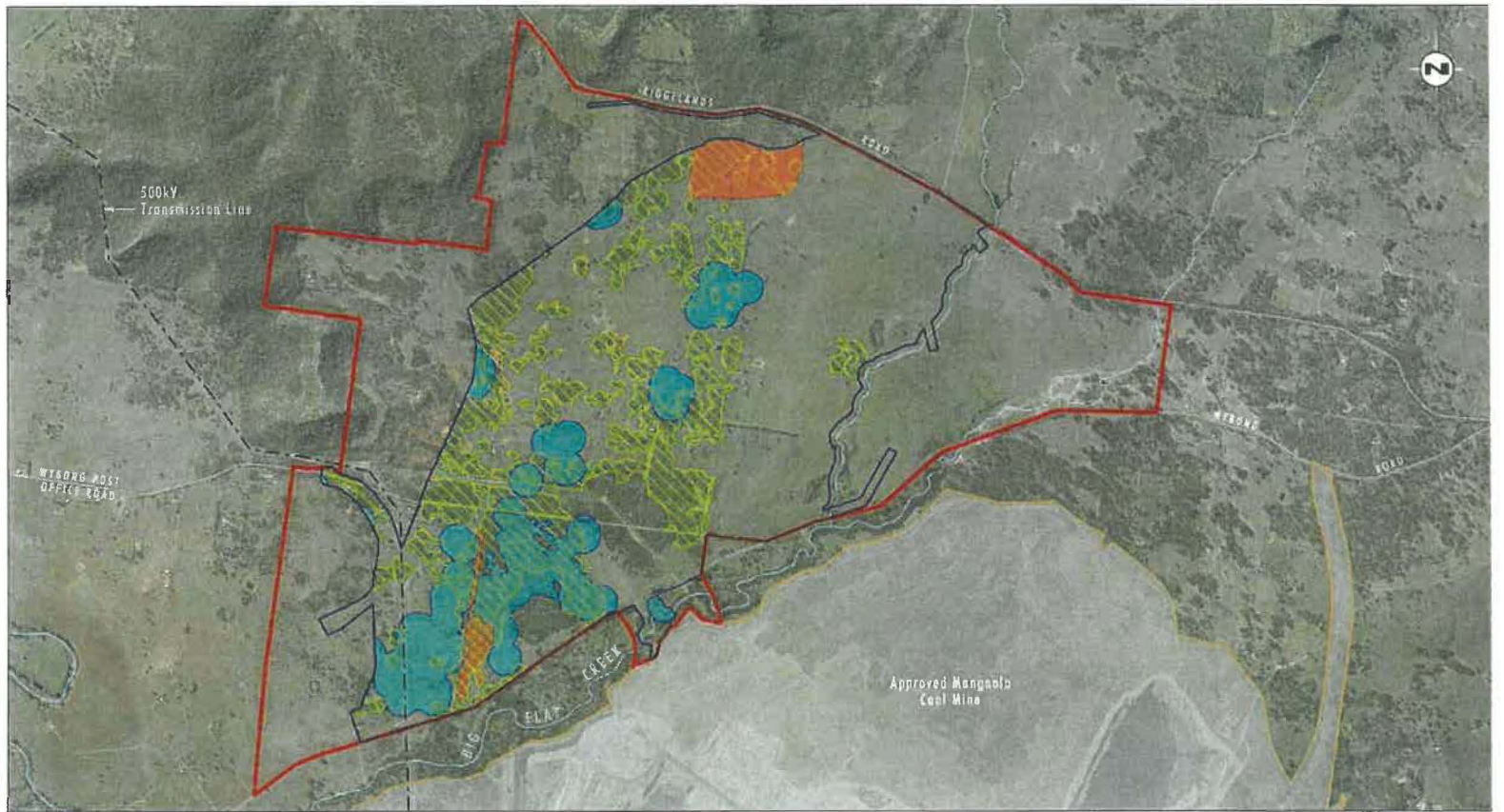


Image Source: Glencore (April 2018) Data Source: Glencore (2019)

Legend

- Approved Mongoola Coal Mine Disturbance Area
- MCCO Additional Project Area
- MCCO Additional Disturbance Area
- White Box - Yellow Box - Blakely's Red Gum Grassy Woodland and Derived Native Grassland CEEC
- Leek Orchid (*Prasophyllum* sp. Wybong) Habitat
- Potential Regent Manypeaker/Swift Parrot Habitat
- Potential Gray-headed Flying-fox Habitat

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FIGURE 1
Areas of Impact for Biodiversity Matters
of National Environmental Significance



Annexure 3



Image Source: Glencore (April 2018)
 Data Source: Glencore (2018)
 Note: Offset boundaries are based on LPI cadastre

- Legend**
- MCCO Project Area
 - Approved Mangoola Coal Mine Disturbance Area
 - Development Footprint
 - MCCO Additional Project Area
 - Existing Offsets
 - Proposed Mangoola Offset Sites
 - Prasophyllum sp. Wybong Habitual Offset

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FIGURE 2
 Biodiversity Offsets for
Prasophyllum sp. Wybong