

**Draft environmental authority - New Acland Coal Mine**

*This draft environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.*

**Permit<sup>1</sup> number: EPML00335713**

**Environmental authority takes effect: DRAFT**

Anniversary Day: **27 May**

**Environmental authority holder(s)**

<b>Name</b>	<b>Registered address</b>
New Acland Coal Pty Ltd	3/22 Magnolia Drive BROOKWATER QLD 4300

**Environmentally relevant activity and location details**

<b>Environmentally relevant activity(ies)</b>	<b>Location(s)</b>
Schedule 3 13: Mining Black Coal.	ML50170
Ancillary 8 – Chemical Storage 3: storing more than 500m <sup>3</sup> of chemicals of class C1 or C2 combustible liquids under AS 1940 or dangerous goods class 3 under subsection (1)(c).	ML50216 ML700002 ML50232
Ancillary 31 – Mineral Processing, 2: Processing, in a year, the following quantities of mineral products other than coke, (b) more than 100,000t.	
Ancillary 60 - Waste disposal, 1: operating a facility for disposing of, in a year, the following quantity of waste mentioned in subsection (1)(a) less than 50,000t.	
Ancillary 63 – Sewage Treatment, 1.operating sewage treatment works, other than no-release works, with a total daily peak design capacity of— (b) more than 100 but not more than 1,500EP— (ii) otherwise.	

<sup>1</sup> Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

## Additional information for applicants

### Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority is issued is a restatement of the ERA as defined by legislation at the time the approval is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an environmental authority as to the scale, intensity or manner of carrying out an ERA, then the conditions prevail to the extent of the inconsistency.

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

### Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.

Signature

Date

Juliana McCosker  
Department of Environment and Science  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**Enquiries:**  
Business Centre (Coal)  
Department of Environment and Science

PO Box 3028  
EMERALD QLD 4720  
Phone: (07) 4987 9320  
Email: CRMining@ehp.qld.gov.au

## Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the EP Act:

- general environmental duty (section 319);
- duty to notify environmental harm (section 320-320G);
- offence of causing serious or material environmental harm (sections 437-439);
- offence of causing environmental nuisance (section 440);
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG); and
- offence to place contaminant where environmental harm or nuisance may be caused (section 443).

Location:                    New Acland Coal Mine  
                                  Muldu Road, ACLAND QLD 4401

Schedules:                Agency interest A General  
                                  Agency interest B Air  
                                  Agency interest C Water  
                                  Agency interest D Groundwater  
                                  Agency interest E Waste  
                                  Agency interest F Noise  
                                  Agency interest G Sewage Treatment  
                                  Agency interest H Land and Rehabilitation  
                                  Agency interest I Biodiversity  
                                  Agency interest J Regulated Structures  
                                  Agency interest K Light  
                                  Agency interest L Community  
                                  Agency interest Figures

## Draft environmental authority EPML00335713 — New Acland Coal Mine

### Conditions of environmental authority

<b>Agency interest: General</b>	
<b>Condition number</b>	<b>Condition</b>
<b>A1</b>	This environmental authority authorises environmental harm referred to in the conditions. Where there is no condition or this environmental authority is silent on a matter, the lack of a condition or silence does not authorise environmental harm.
<b>A2</b>	In carrying out the mining activity authorised by this environmental authority, the holder of this environmental authority must comply with <b>Figure 1 (Revised Project Overview — Mine Area)</b> .
<b>A2a</b>	The environmental authority holder is approved to extract coal at a rate of up to 5.1 million tonnes per annum (Mtpa) of product coal in accordance with this environmental authority.
<b>A2b</b>	All plans, reports and programs referred to, or collected under, a condition of this environmental authority must be published on the environmental authority holder's website within one month of completion.
<b>A4</b>	<p><b>Maintenance of measures, plant and equipment</b></p> <p>The holder of this environmental authority must:</p> <ul style="list-style-type: none"> <li>a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority;</li> <li>b) maintain such measures, plant and equipment in a proper and efficient condition;</li> <li>c) operate such measures, plant and equipment in a proper and efficient manner; and</li> <li>d) ensure all instruments and devices used for the measurement or monitoring of any parameter under any condition of this environmental authority are properly calibrated.</li> </ul>
<b>A5</b>	<p><b>Monitoring</b></p> <p>Except where specified otherwise in another condition of this environmental authority, all monitoring data, records or reports required by this environmental authority must be kept for the life of the mine.</p>
<b>A6</b>	Upon request from the administering authority, copies of all monitoring data, records and reports will be made available and provided to the administering authority's nominated office within 10 business days or an alternative timeframe agreed between the administering authority and the holder.
<b>A7</b>	Any management or monitoring plans, systems or programs required to be developed and implemented by a condition of this environmental authority should be reviewed for effectiveness in minimising the likelihood of environmental harm on an annual basis, and amended promptly if required, unless a particular review date and amendment program is specified in the plan, system or program.
<b>A10</b>	<b>Risk management</b>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	The holder of this environmental authority must develop and implement a risk management system for mining activities which mirrors the content requirement of the Standards Australia Risk management —Guidelines (AS/NZS ISO 31000:2018), or the latest edition of a Standards Australia for risk management, to the extent relevant to environmental management, prior to the commencement of mining activities.
<b>A11</b>	<p><b>Third-party reporting</b></p> <p>The holder of this environmental authority must:</p> <ol style="list-style-type: none"> <li>within 1 year of the commencement of this environmental authority, obtain from an appropriately qualified person a report on compliance with the conditions of this environmental authority;</li> <li>obtain further such reports at regular intervals, not exceeding 3 yearly intervals, from the completion of the report referred to above; and</li> <li>provide each report to the administering authority within 90 days of its completion.</li> </ol>
<b>A12</b>	<p>Where a condition of this environmental authority requires compliance with a standard, policy or guideline and the standard is amended or changed subsequent to the issue of this environmental authority, the holder of this environmental authority must:</p> <ol style="list-style-type: none"> <li>comply with the amended or changed standard, policy or guideline within 2 years of the amendment or change being made, unless a different period is specified in the amended standard or relevant legislation, or where the amendment or change relates specifically to regulated structures referred to in <b>Agency interest: Regulated Structures</b>, the time specified in the relevant condition; and</li> <li>until compliance with the amended or changed standard, policy or guideline is achieved, continue to remain in compliance with the corresponding provision that was current immediately prior to the relevant amendment or change.</li> </ol>
<b>A15</b>	<p><b>Storage and handling of flammable and combustible liquids</b></p> <p>Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm (other than trivial harm) and maintained in accordance with Section 5.9 of AS1940 – Storage and Handling of Flammable and Combustible Liquids of 2004 (or more recent editions).</p>

Agency interest: Air	
Condition number	Condition
<b>Ba</b>	<p>The holder of this environmental authority must ensure that air emissions generated by the mining activities do not cause the criteria in <b>Table B1- Air Quality Limits and Monitoring requirements</b> to be exceeded at a sensitive place or commercial place.</p> <p>Note: the measurement of air emissions for a sensitive place or commercial place is either:</p> <ol style="list-style-type: none"> <li>at that place (if measured there); or</li> <li>at the monitoring location most representative (whether by reason of correlation or otherwise) of the sensitive or commercial place (where there is no measure at the sensitive or commercial place).</li> </ol>
<b>B1</b>	All air quality indicators listed in <b>Table B1</b> , must be monitored at the locations and at the frequency listed in <b>Table B1</b> in accordance with the following methodologies:

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>a) For dust deposition of 120 milligrams per square metre per day, averaged over 1 month, when monitored in accordance with the most recent version of Standards Australia AS/NZS 3580.10.1 Methods for sampling and analysis of ambient air – Determination of particulate matter – Deposited matter – Gravimetric method;</p> <p>b) For a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometres (PM<sub>10</sub>) suspended in the atmosphere of 50 micrograms per cubic metre over a 24-hour averaging time<sup>1</sup> and 25 micrograms per cubic metre over a 1 year averaging time, when monitored in accordance with the most recent version of either:</p> <ol style="list-style-type: none"> <li>(1) Standards Australia AS/NZS 3580.9.6 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM<sub>10</sub> high volume sampler with size-selective inlet – Gravimetric method; or</li> <li>(2) Standards Australia AS/NZS 3580.9.9 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM<sub>10</sub> low volume sampler – Gravimetric method; or</li> <li>(3) Standards Australia AS 3580.9.8 Methods for sampling and analysis of ambient air – Determination of suspended particulate matter – PM<sub>10</sub> continuous direct mass method using a tapered element oscillating microbalance analyser;</li> </ol> <p>c) For a concentration of particulate matter suspended in the atmosphere of 80 micrograms per cubic metre over a 24-hour averaging time and 90 micrograms per cubic metre over a 1 year averaging time, when monitored in accordance with the most recent version of AS/NZS 3580.9.3:2003 Methods for sampling and analysis of ambient air- Determination of suspended particulate matter – Total suspended particulate matter (TSP) – High volume sampler gravimetric method.</p> <p>d) For a concentration of particulate matter with an aerodynamic diameter of less than 2.5 micrometres (PM<sub>2.5</sub>) suspended in the atmosphere of 25 micrograms per cubic meter over a 24 hour averaging time and 8 micrograms per cubic metre over a 1 year averaging time, when monitored in accordance with:</p> <ol style="list-style-type: none"> <li>(1) the most recent version of Standards Australia AS/NZS 3580.9.12 Methods for sampling and analysis of ambient air, Determination of suspended particulate matter – PM<sub>2.5</sub> beta attenuation monitors; or</li> <li>(2) the most recent version of Standards Australia AS/NZS 3580.9.13 Methods of sampling and analysis of ambient air, Determination of suspended particulate matter – PM<sub>2.5</sub> continuous direct mass method using a tapered element oscillating microbalance monitor.</li> </ol> <p><sup>1</sup> These limits are based upon relevant air quality objectives contained in the Environmental Protection (Air) Policy 2019 and may be automatically amended to reflect any amendment or replacement of the relevant air quality objective in the Environmental Protection (Air) Policy 2019.</p>
<b>B2</b>	If monitoring indicates the potential for exceedance of the relevant limits in <b>Condition Ba</b> then the environmental authority holder must immediately implement dust abatement measures to avoid exceeding the relevant limits.
<b>B3</b>	<b>Air emissions management</b>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	An Air Emissions Management Plan must be developed by a suitably qualified and experienced person in relation to air emissions and implemented for all stages of mining. The Air Emissions Management Plan must be submitted to the administering authority for review and comment <b>within 3 months upon the grant of ML50232 and ML700002</b> , and at intervals <b>not exceeding two (2) years thereafter</b> .
<b>B4</b>	<p><b>Air emissions management</b></p> <p>The Air Emissions Management Plan must incorporate a program for continuous improvements for the management of dust resulting from mining operations with respect to, but not limited to:</p> <ol style="list-style-type: none"> <li>a) monitoring locations acting as and continuing to act as suitable representative sites for sensitive places (if there be no monitor at a particular sensitive receptor);</li> <li>b) The collection of air quality and meteorological data in accordance with <b>Table B1: Air quality Limits and monitoring requirements</b>;</li> <li>c) PM<sub>10</sub> trend monitoring<sup>1</sup> at 3 locations around the site, for a minimum period of 3 years;</li> <li>d) A trigger action response plan that requires the environmental authority holder to investigate, mitigate and manage TSP caused by mining activities at any sensitive place or commercial place when monitoring indicates exceedance of 80 micrograms per cubic metre over a 24-hour averaging time;</li> <li>e) A forecasting system that provides daily predictions of upcoming meteorological conditions in order to identify adverse meteorological conditions likely to produce elevated levels of dust including PM<sub>10</sub> at a sensitive place or commercial place due to the mining activities;</li> <li>f) A dust control strategy which activates a timely implementation of dust control management actions aimed to avoid or minimise elevated levels of dust including PM<sub>10</sub> at a sensitive place or commercial place due to mining activities;</li> <li>g) Annual review of the Air Emissions Management Plan including its adequacy and effectiveness in avoiding and minimising air emissions and dust at a sensitive place or commercial place;</li> <li>h) A protocol and register for the recording of requests and installation of first flush diverter systems as required by <b>Condition B8</b>; and</li> <li>i) A protocol for the transport of basalt material.</li> </ol> <p><sup>1</sup> Trend monitoring as required by <b>Condition B4(c)</b> can be undertaken using different instruments and methods from those specified in <b>Table B1: Air quality monitoring requirements</b>.</p>
<b>B5</b>	Within <b>twenty (20) business days</b> of receiving comments from the administering authority as required by <b>Condition B3</b> , the Air Emissions Management Plan must be updated by a suitably qualified and experienced person in relation to air emissions having regard to the comments, and submitted to the administering authority.
<b>B6</b>	The air quality monitoring requirements listed in <b>Table B1: Air quality monitoring limits and requirements</b> must be reviewed by a suitably qualified and experienced

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>person(s) in relation to air emissions and a report must be provided to the administering authority within <b>two (2) years upon the grant of ML50232 and ML700002</b>, and at intervals not exceeding <b>two (2) years</b> thereafter. The review must include:</p> <ol style="list-style-type: none"> <li>The effectiveness of the monitoring network including the appropriateness of the monitoring locations to act as suitable representative sites for sensitive places (if there is no monitor at a particular sensitive place);</li> <li>The frequency and cause of any exceedances of air quality objectives measured by the monitoring program over a period of at least <b>two (2) years</b>;</li> <li>Dust complaints;</li> <li>Future progression of the mining activities;</li> <li>Locations of sensitive places relative to the mining activities; and</li> <li>Mining operating modes.</li> </ol>
<b>B7</b>	<p>All continuously monitored parameters required by <b>Table B1: Air quality limits and monitoring requirements</b> and the forecasting system required by <b>Condition B4</b> must be made publicly available online and in real-time, presented:</p> <ol style="list-style-type: none"> <li>spatially; and</li> <li>real-time rolling one hour average across all sites that can be drilled into for each location to provide: <ul style="list-style-type: none"> <li>real-time short term (5-6min) monitoring data on rolling 3 hour basis;</li> <li>real-time rolling one hour average data on 24 hour basis;</li> <li>links to historical data on one hour basis; and</li> <li>links to historical 24 hour data.</li> </ul> </li> </ol>

Table B1: Air quality limits and monitoring requirements

Monitoring location*	Air quality indicator	Instrument	Frequency	Air quality limit	Nuisance limit	Monitoring method
1,2 (Acland)	PM <sub>2.5</sub>	BAM or TEOM	Continuous	25µg/m <sup>3</sup> (24 hr avg)  8µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.12:2013 AS/NZS 3580.9.13:2013
	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg)  25µg/m <sup>3</sup> (annual)		AS 3580.9.8- 2008

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Monitoring location*	Air quality indicator	Instrument	Frequency	Air quality limit	Nuisance limit	Monitoring method
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	TSP# <sup>^</sup>	Modified TEOM# <sup>^</sup>	Continuous	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	Modified TEOM
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> / day	120mg/m <sup>2</sup> / day	AS/NZS 3850.10.1:2003
	Wind speed and direction		Continuous			AS 3580:14-2011
	Temperature 2m and 10m Temperature gradient		Continuous			AS 3580:14-2014
	Precipitation		Continuous			AS 3580:14-2014
	Relative Humidity		Continuous			AS 3580:14-2014
	Solar Radiation		Continuous			AS 3580:14-2014
	Net Radiation		Continuous			AS 3580:14-2014
	Evaporation					Measured or calculated
7, 8 (or an alternative location to the north of the Stage 3 New Acland mine identified in the Air Emissions Management Plan developed pursuant to condition B3).	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.8-2008
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>3</sup> / day	120mg/m <sup>2</sup> / day	AS/NZS 3580.10.1:2003
16 (East)	PM <sub>2.5</sub>	TEOM or BAM	Continuous	25µg/m <sup>3</sup> (2 4 hr avg)		AS/ANZ 3580.9.12-2013

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Monitoring location*	Air quality indicator	Instrument	Frequency	Air quality limit	Nuisance limit	Monitoring method
				8µg/m <sup>3</sup> (annual)		AS/ANZ3580.9.13:2013
	PM10	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS 3580.9.8-2008
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	TSP# <sup>^</sup>	Modified TEOM# <sup>^</sup>	Continuous	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	Modified TEOM
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> / day	120mg/m <sup>2</sup> / day	AS/NZS 3850.10.1:2003
	Wind speed and direction		Continuous			AS 3580:14-2011
	Temperature 2m and 10m Temperature gradient		Continuous			AS 3580:14-2014
	Precipitation		Continuous			AS 3580:14-2014
	Relative Humidity		Continuous			AS 3580:14-2014
38, 39 (or an alternative location to the north-west of the Stage 3 New Acland mine identified in the Air Emissions Management Plan	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.8-2008
	PM <sub>2.5</sub>	BAM or TEOM	Continuous	25µg/m <sup>3</sup> (24 hr avg) 8µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.12-2013 AS/NZS 3580.9.13:2013
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Monitoring location*	Air quality indicator	Instrument	Frequency	Air quality limit	Nuisance limit	Monitoring method
Developed pursuant to Condition B3).	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> /day	120mg/m <sup>2</sup> /day	AS/NZS 3850.10.1:2003
	Wind speed and direction		Continuous			AS 3580:14-2011
	Temperature 2m and 10m Temperature gradient		Continuous			AS 3580:14-2014
	Precipitation		Continuous			AS 3580:14-2014
	Relative Humidity		Continuous			AS 3580:14-2014
15 (East)	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS 3580.9.8-2008
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> /day	120mg/m <sup>2</sup> /day	AS/NZS 3850.10.1:2003
35,36 (west of mine site) Lat – -27.3019286 Long – 151.6437771	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.8-2008
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> /day	120mg/m <sup>2</sup> /day	AS/NZS 3850.10.1:2003
37 (West)	PM <sub>10</sub>	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg) 25µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.8-2008

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Monitoring location*	Air quality indicator	Instrument	Frequency	Air quality limit	Nuisance limit	Monitoring method
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> / day	120mg/m <sup>2</sup> /day	AS/NZS 3850.10.1:2003
44 (Northwest)	PM10	TEOM	Continuous	50µg/m <sup>3</sup> (24 hr avg)  25µg/m <sup>3</sup> (annual)		AS/NZS 3580.9.8:2008
	TSP	Hi-Vol Sampler <sup>^</sup>	24hr, 1 day in 6	90µg/m <sup>3</sup> (annual)	80µg/m <sup>3</sup> (24 hr avg)	AS/NZS 3580.9.3:2003
	Insoluble solids	Dust gauge	Monthly	120mg/m <sup>2</sup> / day	120mg/m <sup>2</sup> /day	AS/NZS 3850.10.1:2003

\*See Figure # [Note: this will be a combination of Figures 5 – Location of sensitive receptors and Figure 6 - Air quality monitoring locations for the revised project (Stage 3) #] Data from the modified TEOM and Hi-Vol samplers to be used to calibrate the modified TEOM for monitoring TSP.

Calibration needs to be undertaken over at least a 6 month period from June to December. Once the modified TEOM has been calibrated it can be used to measure TSP instead of the Hi-Vol sampler.

<sup>^</sup> The modified TEOM can be used to measure TSP at other sites.

<b>B8</b>	The environmental authority holder must provide and install “first flush” diverter systems within <b>three (3) months</b> of a request for such a system being made from a residence within 5 km of the mine boundary.
<b>B9</b>	<b>Odour Nuisance</b> The release of noxious or offensive odour(s) or any other noxious or offensive airborne contaminant(s) resulting from the mining activity must not cause an environmental nuisance at any sensitive place or commercial place.
<b>B10</b>	When requested by the administering authority, odour monitoring must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious nor based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive place or commercial place, and the results must be notified within <b>fourteen (14) days</b> to the administering authority following completion of monitoring.
<b>B11</b>	If monitoring indicates condition <b>B9</b> is not being met then the environmental authority holder must:  a) address the complaint including the use of appropriate dispute resolution if required; and  b) immediately implement odour abatement measures so that emissions of odour from the activity do not result in further environmental nuisance.

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

<b>Agency interest: Water</b>	
<b>Condition number</b>	<b>Condition</b>
<b>C1</b>	Contaminants that will, or have the potential to, cause environmental harm must not be released directly or indirectly to any waters as a result of the authorised mining activities, except as permitted under the conditions of this environmental authority.
<b>C2</b>	Unless otherwise permitted under the conditions of this environmental authority, the release of mine affected water to waters must only occur from the release points specified in <b>Table C1: Mine affected water release points, sources and receiving waters</b> and depicted in <b>Figure 2: Mine affected water release points, sources and receiving waters monitoring locations</b> attached to this environmental authority.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table C1: Mine-affected water release points, sources and receiving waters

Release Point (RP)	Latitude (decimal degree,)	Longitude (decimal degree,)	Mine-affected water source and location	Monitoring Point	Receiving waters description
ED1	27° 15' 40.5603" S	151° 41' 48.32659" E	ED1	Overflow from ED1	Spring Creek
ED2	27° 16' 54.96167" S	151° 41' 36.83113" E	ED2	Overflow from ED2	Lagoon Creek
ED3	27° 18' 29.40913" S	151° 42' 50.52694" E	ED3	Overflow from ED3	Lagoon Creek
ED4	27° 17' 41.49436" S	151° 41' 33.60156" E	ED4	Overflow from ED4	Lagoon Creek
ED5	TBA	TBA	ED5	Overflow from ED5	Lagoon Creek
ED6	TBA	TBA	ED6	Overflow from ED6	Lagoon Creek
ED7	TBA	TBA	ED7	Overflow from ED7	Lagoon Creek

<b>C3</b>	The release of mine affected water to waters in accordance with Condition <b>C2</b> must not exceed the release limits stated in <b>Table C2: Mine-affected water release limits</b> when measured at the monitoring points specified in <b>Table C1: Mine-affected water release points, sources and receiving waters</b> for each quality characteristic.
-----------	---

Table C2: Mine-affected water release limits

Quality characteristic	Release limits	Monitoring frequency
Electrical conductivity (µS/cm)	Release limits specified in <b>Table C3</b> for variable flow criteria	Real time telemetry for EC and pH. Daily grab samples if telemetry not available
pH (pH Unit)	6.0 (minimum) 9.0 (maximum)	If telemetry is unavailable, the first sample must be taken within 2 hours of commencement of release
Total suspended solids (mg/L)	100	Daily during release (the first sample must be taken within 2 hours of commencement of release)

<b>C4</b>	The release of mine affected water to waters from the release points must be monitored as per <b>Table C3: Mine-affected water release during flow events</b> at the locations specified in <b>Table C1: Mine-affected water release points, sources and receiving waters</b> for each quality characteristic and at the frequency specified in <b>Table C2: Mine-affected water release limits</b> .
-----------	---

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>C5</b>	<p><b>Mine-affected water release events</b></p> <p>The holder must ensure a stream flow gauging station(s) is installed, operated and maintained to determine and record stream flows in Lagoon and Spring Creek upstream of the discharge sites.</p>
<b>C6</b>	<p>Notwithstanding any other condition of this environmental authority, the release of mine affected water to waters in accordance with <b>Condition C2</b> must only take place during periods of natural flow in accordance with the receiving water flow criteria for discharge specified in <b>Table C2: Mine-affected water release limits</b> for the release point(s) specified in <b>Table C1: Mine-affected water release points, sources and receiving waters</b>.</p>
<b>C7</b>	<p>The release of mine affected water to waters in accordance with <b>Condition C6</b> must not exceed the Maximum Release Rate (for all combined release point flows) for each receiving water flow criterion for discharge specified in <b>Table C3: Mine-affected water release during flow events</b> when measured at the monitoring points specified in <b>Table C1: Mine-affected water release points, sources and receiving waters</b>.</p>
<b>C8</b>	<p>The daily quantity of mine affected water released from each release point must be measured and recorded.</p>
<b>C9</b>	<p>Release to waters must be undertaken so not as to cause erosion of the bed and banks of the receiving waters or cause material build-up of sediment in such waters.</p>
<b>C10</b>	<p><b>Notification of release event</b></p> <p>The environmental authority holder must notify the administering authority as soon as practicable and <b>no later than 24 hours after commencing</b> to release mine affected water to the receiving environment. Notification must include the submission of written advice to the administering authority of the following information:</p> <ul style="list-style-type: none"> <li>a) release commencement date/time;</li> <li>b) details regarding the compliance of the release with the conditions of Agency Interest: Water of this environmental authority (that is, contaminant limits, natural flow, discharge volume);</li> <li>c) release point(s);</li> <li>d) release rate;</li> <li>e) release salinity; and</li> <li>f) receiving water(s) including the natural flow rate.</li> </ul> <p><b>NOTE:</b> Notification to the administering authority must be made via WaTERS.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table C3: Mine-affected water release during flow events

Receiving waters/ stream	Release Point (RP)	Gauging Station Latitude	Gauging Station Longitude	Receiving Water Flow Criteria for discharge (m3/s)	Maximum release rate (for all combined RP flows)	Electrical Conductivity Release Limits	
Lagoon Creek	ED2	27° 16' 54.96167" S	151° 41' 36.83113" E	Low Flow <46.3 L/sec for a period of 28 days after natural flow events that exceed 4 ML/d	<17.4 L/sec	700	
		ED3	27° 18' 29.40913" S				151° 42' 50.52694" E
	ED4		27° 17' 41.49436" S		151° 41' 33.60156" E	Medium Flow (low) > 46.3 L/sec	<17.4 L/sec
		ED5	TBA		TBA	< 8 L/sec	2,500
		ED6	TBA		TBA	< 5.8 L/sec	3,500
	ED7	TBA	TBA		Medium Flow (high) > 133 L/sec	< 48.6 L/sec	1500
						< 23 L/sec	2,500
						< 15 L/sec	3,500
		TBA	TBA		High Flow >405 L/sec	< 144.7 L/sec	1500
						< 92.6 L/sec	2,500
	< 69.4 L/sec	3,500					
	Spring Creek	ED1	27° 15' 40.5603" S		151° 41' 48.32659" E	Low Flow < 46.3 L/sec for a period of 28 days after natural flow events that exceed 46.3 L/sec	< 17.4 L/sec

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>C11</b>	<p>The environmental authority holder must notify the administering authority as soon as practicable and nominally no later than 24 hours after cessation of a release event of the cessation of a release notified under <b>Condition C10</b> and within 28 days provide the following information in writing:</p> <ol style="list-style-type: none"> <li>a) release cessation date/ and time;</li> <li>b) natural flow rate in receiving water;</li> <li>c) volume of water released;</li> <li>d) details regarding the compliance of the release with the conditions of Agency Interest; Water of this environmental authority (i.e. contaminant limits, natural flow, discharge volume);</li> <li>e) all in-situ water quality monitoring results; and</li> <li>f) any other matters pertinent to the water release event.</li> </ol> <p>NOTE: Successive or intermittent releases occurring within 24 hours of the cessation of any individual release can be considered part of a single release event and do not require individual notification for the purpose of compliance with <b>Conditions C10</b> and <b>C11</b>, provided the relevant details of the release are included within the notification provided in accordance with <b>Conditions C10</b> and <b>C11</b>.</p>
<b>C12</b>	<p>If the release limits defined in <b>Table C2: Mine-affected water release limits</b> are exceeded, the holder of the environmental authority must notify the administering authority within 24 hours of receiving the results.</p>
<b>C13</b>	<p>The environmental authority holder must, within 28 days of a release that is not compliant with the conditions of this environmental authority, provide a report to the administering authority detailing:</p> <ol style="list-style-type: none"> <li>a) the reason for the release;</li> <li>b) the location of the release;</li> <li>c) the total volume of the release and which (if any) part of this volume was non-compliant;</li> <li>d) the total duration of the release and which (if any) part of this period was non-compliant;</li> <li>e) all water quality monitoring results (including all laboratory analyses);</li> <li>f) identification of any environmental harm as a result of the non-compliance;</li> <li>g) all calculations; and</li> <li>h) any other matters pertinent to the water release event.</li> </ol>
<b>C14</b>	<p><b>Receiving Environment Monitoring and Contaminant Trigger Levels</b></p> <p>The quality of the receiving waters must be monitored at the locations specified in <b>Table C5: Receiving water upstream background sites and downstream monitoring points</b> for each quality characteristic and at the monitoring frequency stated in <b>Table C4: Receiving waters contaminant trigger levels</b>.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table C4: Receiving waters contaminant trigger levels

Quality Characteristic	Trigger Levels (µg/L)	Comment on Trigger Level	Mine Affected Water Monitoring Frequency
pH	6.5 — 9.0		Daily during the release
Electrical Conductivity (µS/cm)	510	Oakey Creek WQO	
Total Suspended solids (mg/L)	65	Turbidity may be required to assess ecosystems impacts and can provide instantaneous results.	
Aluminium	55	<i>For aquatic ecosystem protection, based on SMD guideline</i>	Commencement of release and thereafter weekly during release N
Arsenic	13	<i>For aquatic ecosystem protection, based on SMD guideline</i>	
Cadmium	0.2	<i>For aquatic ecosystem protection, based on SMD guideline</i>	
Chromium	1	<i>For aquatic ecosystem protection, based on SMD guideline</i>	
Copper	2	<i>For aquatic ecosystem protection, based on LOR for ICPMS</i>	
Iron	300	<i>For aquatic ecosystem protection, based on low reliability guideline</i>	
Lead	4	<i>For aquatic ecosystem protection, based on SMD guideline</i>	
Mercury	0.2	<i>For aquatic ecosystem protection, based on LOR for CV FIMS</i>	
Nickel	11	<i>For aquatic ecosystem protection, based on SMD guideline</i>	
Zinc	8	For aquatic ecosystem protection, based on SMD guideline	
Boron	370	For aquatic ecosystem protection, based on SMD guideline	
Cobalt	90	For aquatic ecosystem protection, based on low reliability guideline	
Manganese	1900	For aquatic ecosystem protection, based on SMD guideline	
Molybdenum	34	For aquatic ecosystem protection, based on low reliability guideline	
Selenium	10	For aquatic ecosystem protection, based on LOR for ICPMS	
Silver	1	For aquatic ecosystem protection, based on LOR for ICPMS	
Uranium	1	For aquatic ecosystem protection, based on LOR for ICPMS	

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Quality Characteristic	Trigger Levels (µg/L)	Comment on Trigger Level	Mine Affected Water Monitoring Frequency
Vanadium	10	For aquatic ecosystem protection, based on LOR for ICPMS	
Ammonia	900	For aquatic ecosystem protection, based on SMD guideline	
Nitrate	1100	For aquatic ecosystem protection, based on ambient Queensland Water Quality Guidelines (2006) for TN	
Petroleum hydrocarbons (C6-C9)	20		
Petroleum hydrocarbons (C10-C36)	100		
Fluoride (total)	2000	Protection of livestock and short term irrigation guideline	
Sulphate (mg/L)	250 (Protection of drinking water Environmental Value)	Drinking water environmental values from NHMRC 2006 guidelines OR ANZECC	Daily during release

**Table C4: Receiving Waters contaminant trigger levels notes:**

1. All metals and metalloids must be measured as total (unfiltered) and dissolved (filtered). Trigger levels for metal/metalloids apply if dissolved results exceed trigger.
2. The quality characteristics required to be monitored as per **Table C4: Receiving Waters contaminant trigger levels** can be reviewed once the results of 2 years monitoring data is available, or if sufficient data is available to adequately demonstrate negligible environmental risk, and it may be determined that a reduced monitoring frequency is appropriate or that certain quality characteristics can be removed from **Table C4: Receiving Waters contaminant trigger levels** by amendment.
3. SMD - slightly moderately disturbed level of protection, guideline refers ANZECC & ARMCANZ (2000).
4. LOR - typical reporting for method stated. ICPMS/CV FIMS - analytical method required to achieve LOR.
5. Draft environmental values and water quality guidelines: Queensland Murray Darling Basin, Department of Science, Information Technology and Innovation, Queensland

## Draft environmental authority EPML00335713 — New Acland Coal Mine

**Table C5: Receiving water upstream background sites and downstream monitoring points**

Monitoring Points	Receiving Waters Location Description	Latitude	Longitude
<b>Upstream Background Monitoring Points</b>			
LCU1	Lagoon Creek at a point upstream of mine	27° 18' 9.7728" S	151° 44' 23.136" E
SSCU1	Spring Creek at a point upstream of mine	27° 14' 18.7728" S	151° 41' 31.2864" E
<b>Downstream Monitoring Points</b>			
LCD1	Lagoon Creek downstream of mine	27° 18' 35.64" S	151° 43' 4.3536" E
LCD2	Lagoon Creek downstream of mine	27° 18' 37.36" S	151° 43' 1.8768" E
SCD1	Spring Creek at a point downstream of mine	27° 14' 47.364" S	151° 40' 36.2028" E
DS1	Located at the downstream boundary of ML50232* (*or any subsequent identifier for the ML required for the New Acland Coal Mine Stage 3 project)	27° 19' 26.68" S	151° 41' 7.02 E

<b>C15</b>	<p>If quality characteristics of the receiving water at the downstream monitoring points exceed any of the trigger levels specified in <b>Table C4: Receiving waters contaminant trigger levels</b> during a release of mine affected water the environmental authority holder must compare the downstream results to the upstream results in the receiving waters and:</p> <p>a) where the downstream result is the same or a lower value than the upstream value for the quality characteristic then no additional monitoring and reporting action is required; or</p> <p>b) where the downstream results exceed the upstream results complete an investigation into the potential for environmental harm and provide a written report to the administering authority within 90 days of receiving the results and in the next annual return, outlining:</p> <ol style="list-style-type: none"> <li>1. details of the investigations carried out; and</li> <li>2. actions taken to prevent environmental harm.</li> </ol> <p>NOTE: Where an exceedance of a trigger level has occurred and is being investigated, in accordance with (b) of this condition, no further reporting is required for subsequent trigger events for that quality characteristic.</p>
<b>C16</b>	All determinations of water quality and biological monitoring must be performed by an appropriately qualified person.
<b>C17</b>	<p><b>Annual water monitoring reporting</b></p> <p>The following information must be recorded in relation to all water monitoring required under the conditions of this environmental authority and submitted to the administering authority via WaTERS upon request in the specified format:</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<ul style="list-style-type: none"> <li>a) the date on which the sample was taken;</li> <li>b) the time at which the sample was taken;</li> <li>c) the monitoring point at which the sample was taken;</li> <li>d) the measured or estimated daily quantity of mine affected water released from all release points;</li> <li>e) the release flow rate at the time of sampling for each release point;</li> <li>f) the results of all monitoring and details of any exceedances of the conditions of this environmental authority;</li> <li>g) water quality monitoring data must be provided to the administering authority in the specified electronic format ; and</li> <li>h) water level monitoring data must be provided in the specified electronic format.</li> </ul>
<b>C18</b>	<p><b>Stormwater and water sediment controls</b></p> <p>An Erosion and Sediment Control Plan must be developed by an appropriately qualified person and implemented for all stages of the mining activities on the site to minimise erosion and the release of sediment to receiving waters and contamination of stormwater.</p>
<b>C19</b>	<p>Stormwater, other than mine affected water, is permitted to be released to waters from:</p> <ul style="list-style-type: none"> <li>a) Erosion and sediment control structures that are installed and operated in accordance with the Erosion and Sediment Control Plan required by <b>Condition C18</b>; and</li> <li>b) Water management infrastructure that is installed and operated, in accordance with a Water Management Plan that complies with <b>Condition C20</b> for the purpose of ensuring water does not become mine affected water.</li> </ul>
<b>C20</b>	<p><b>Water Management Plan</b></p> <p>A Water Management Plan must be developed by an appropriately qualified person and implemented for all stages of mining. The Water Management Plan must be submitted to the administering authority for review and comment within <b>3 months upon the grant of ML50232 and ML700002</b>.</p>
<b>C21</b>	<p>The Water Management Plan must identify methods to:</p> <ul style="list-style-type: none"> <li>a) identify the environmental values of the receiving waters including Lagoon and Spring Creek and water quality objectives and how they will be protected;</li> <li>b) incorporate a risk management approach to how changing levels of flood, drought and water quality risks should be addressed;</li> <li>c) manage stormwater discharge;</li> <li>d) develop and implement a system for emergency spills or discharges including procedures to minimise extent and duration of release, staff training, investigation and reporting procedures;</li> <li>e) manage the environmental impacts of any release of wastewater to the environment so that any impacts are minimised including restricting any discharge to waters to occasions where there is flow in receiving waters to provide considerable dilution;</li> <li>f) separate clean water from undisturbed areas and water from disturbed areas;</li> <li>g) manage site water quality and quantity during the (3) phases of mining: development, operation and decommissioning and include a site water balance including groundwater generated through mine dewatering;</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>h) safeguard against the potential for soil erosion and acid drainage; and</p> <p>i) provide details of operational monitoring and monitoring of hydrological processes including associated performance indicators.</p>
<b>C22</b>	Within twenty (20) business days of receiving comments from the administering authority as required by <b>Condition C20</b> , the Water Management Plan must be updated by a suitably qualified and experienced person having regard to the comments, and submitted to the administering authority..
<b>C23</b>	A copy of the Water Management Plan and any subsequent amendment of the Water Management Plan must be kept at the place to which this environmentally relevant activity relates and be available for examination by Emergency Services Personnel or an authorised person on request.
<b>C24</b>	If an exceedance in accordance with <b>Condition C15(b)</b> is identified, the holder of the environmental authority must notify the administering authority in writing within <b>24 hours of receiving the result</b> .

<b>Agency interest: Groundwater</b>	
<b>Condition number</b>	<b>Condition</b>
<b>D1</b>	<p><b>Contaminant release</b></p> <p>Contaminants must not be released, directly or indirectly, to groundwater.</p>
<b>D2</b>	All determinations of groundwater quality must be performed by an appropriately qualified person.
<b>D3</b>	<p>Groundwater quality must be monitored:</p> <ul style="list-style-type: none"> <li>a) on a 6-monthly basis; and</li> <li>b) for the parameters and in the units specified in <b>Table D2: Groundwater quality triggers and limits</b>; and</li> <li>c) at all monitoring bores (including compliance and interpretation bores) in <b>Table D1: Groundwater monitoring locations and frequency and Appendix X: (Groundwater Monitoring Bores)</b>.</li> </ul>
<b>D4</b>	<p>Groundwater levels must not exceed the groundwater level trigger thresholds specified in <b>Table D3: Groundwater level monitoring</b> and be monitored:</p> <ul style="list-style-type: none"> <li>a) on a monthly basis; and</li> <li>b) at all monitoring bores in <b>Table D3: Groundwater level monitoring</b>.</li> </ul>
<b>D5</b>	<p>Within two years of this environmental authority taking effect, the environmental authority holder must submit to the administering authority:</p> <ul style="list-style-type: none"> <li>a) all contaminant trigger levels listed as TBA in <b>Table D2: Groundwater quality triggers and limits</b>; and</li> <li>b) all levels listed as TBA in <b>Table D3: Groundwater level monitoring</b>.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table D1: Groundwater monitoring locations and frequency

Groundwater Monitoring Bore	Monitoring Bore Type	Aquifer  To be specified for each monitoring bore	Location (GDA94 — Zone 56)		Parameter <sup>1</sup> and Monitoring Frequency
			Easting (m)	Northing (m)	
2289P	Compliance	Coal measures (C)	371265	6983532	Groundwater levels: monthly Groundwater quality: Six monthly to include: Al, As, Ca, Se, Cl, Cu, F, Fe, Total N, K, Mg, Mn, Na, SO <sub>4</sub> , HCO <sub>3</sub> , TDS, EC, pH
2291P	Compliance	Coal measures (C)	374620	6980033	
18P	Compliance	Coal measures (C)	371028	6982641	
25P	Compliance	Coal measures (C)	374146	6982057	
26P	Compliance	Coal measures (C)	374266	6982977	
27P	Compliance	Coal measures (C)	373360	6983554	
28P	Compliance	Coal measures (C)	372328	6983977	
843	Compliance	Basalt (C)	370698	6981283	
848	Compliance	Coal measures (C)	370705	6981723	
81P	Compliance	Coal measures (C)	375003	6979638	
82P	Compliance	Coal measures (C)	373697	6978814	
83P	Compliance	Coal measures (C)	371854	6979679	
84P	Compliance	Basalt (C)	370355	6982187	
BMH1	Compliance	Basalt (C)	369658	6982204	
CSMH1	Compliance	Coal measures (C)	375404	6977336	
109P	Interpretation	Basalt	368263	6982378	
122PGC	Interpretation	Coal measures	370656	6977837	
114P	Interpretation	Coal measures	371806	6976037	

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Groundwater Monitoring Bore	Monitoring Bore Type	Aquifer  To be specified for each monitoring bore	Location (GDA94 — Zone 56)		Parameter <sup>1</sup> and Monitoring Frequency
			Easting (m)	Northing (m)	
116P	Interpretation	Coal measures	374220	6975132	
119PGC	Interpretation	Coal measures	371609	6973337	
120WB	Interpretation	Coal measures	367523	6976115	
121WB	Interpretation	Coal measures	368472	6978441	
1A	Interpretation	Basalt	366548	6982090	
1B	Interpretation	Coal measures	366548	6982090	
2A	Interpretation	Basalt	365884	6979300	
2B	Interpretation	Coal measures	365884	6979300	
3A	Interpretation	Basalt	369416	6973707	
3B	Interpretation	Coal measures	369416	6973707	
4A	Interpretation	Basalt	365800	6977025	
4B	Interpretation	Coal measures	365800	6977025	
4C	Interpretation	Marburg Sandstone	365800	6977025	
5A	Interpretation	Oakey Creek alluvium	373845	6972482	
5B	Interpretation	Coal measures	373845	6972482	
5C	Interpretation	Marburg Sandstone	373845	6972482	
6	Interpretation	Coal measures	375435	6975738	
7A	Interpretation	Basalt	367572	6982694	
7B	Interpretation	Coal measures	367572	6982694	
8	Interpretation	Mine Pit Backfill	372514	6982689	
2289_Lower	Compliance	Coal measures (C)	371266	6983554	
25P(R)	Compliance	Coal measures (C)	374036	6981883	

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Groundwater Monitoring Bore	Monitoring Bore Type	Aquifer  To be specified for each monitoring bore	Location (GDA94 — Zone 56)		Parameter <sup>1</sup> and Monitoring Frequency
			Easting (m)	Northing (m)	
26P(R)	Compliance	Coal measures (C)	374158	6982801	
10Pb	Compliance	Basalt (C)	370359	6980896	
4517WB	Compliance	Coal measures (C)	369728	6980680	
4518WB	Compliance	Coal measures (C)	369265	6979260	

<sup>1</sup> - Aluminium (Al), Arsenic (As), Calcium (Ca), Selenium (Se), Chloride (Cl), Copper (Cu), Fluorine (F), Iron (Fe), Total Nitrogen (Total N), Potassium (K), Magnesium (Mg), Manganese (Mn), Sodium (Na), Sulphate (SO<sub>4</sub>), Bicarbonate (HCO<sub>3</sub>), Total dissolved solids (TDS), Electrical conductivity (EC), Acidity/alkalinity (pH)

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

**Table D2: Groundwater quality triggers and limits**

“TBAs” in table D2 to be revised once adequate sampling has been undertaken by the holder which must be completed within 2 years of commencement of this environmental authority to add groundwater bores that measure groundwater quality and the triggers and limits relevant to each bore

Parameter	Units	Contaminant Limit <sup>5</sup>	Monitoring frequency
Al	mg/l	5.0	Half yearly
As	mg/l	.05	Half yearly
Ca	mg/l	1000	Half yearly
Se	mg/l	0.02	Half yearly
Cl	mg/l	TBA	Half yearly
Cu	mg/l	1.0 <sup>2</sup>	Half yearly
F	mg/l	TBA	Half yearly
Fe	mg/l	TBA	Half yearly
NO <sub>3</sub>	mg/l	400	Half yearly
NO <sub>2</sub>	mg/l	30	Half yearly
K	mg/l	TBA	Half yearly
Mg	mg/l	TBA	Half yearly
Mn	mg/l	TBA	Half yearly
Na	mg/l	TBA	Half yearly
SO <sub>4</sub>	mg/l	1000	Half yearly
HCO <sub>3</sub>	mg/l	TBA	Half yearly
TDS	mg/l	5000 <sup>2,3</sup>	Half yearly
EC	mg/l	7460 <sup>2,3,4</sup>	Half yearly
pH	unit	TBA	Half yearly

1 - Based on Stockwater limits defined in ANZECC (2000)

2 - Defined for beef cattle based on landholder bore survey results

3 - Existing bores 27P, 28P, 2289 and 118P background levels already exceed this limit prior to mine operation

4 - Based on EC to TDS conversion factor of 0.67 as per ANZECC (2000)

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

**Table D3: Groundwater level monitoring**

<b>Monitoring Point</b>	<b>Level trigger threshold</b>
2289P	TBA <sup>1</sup>
2291P	52.0 (±5m)
18P	130.0 (±5m)
25P	TBA <sup>1</sup>
26P	TBA <sup>1</sup>
27P	50.0 (±5m)
28P	50.0 (±5m)
843	TBA <sup>1</sup>
848	TBA <sup>1</sup>
81P	42.0 (±5m)
82P	48.0m (±5m)
83P	TBA <sup>1</sup>
84P	TBA <sup>1</sup>
BMH1	96.0 (±5m)
CSMH1	90.0 (±5m)
109P	TBA <sup>1</sup>
122PGC	TBA <sup>1</sup>
114P	TBA <sup>1</sup>
116P	TBA <sup>1</sup>
119PGC	TBA <sup>1</sup>
120WB	TBA <sup>1</sup>
121WB	TBA <sup>1</sup>
1A	TBA <sup>1</sup>
1B	TBA <sup>1</sup>
2A	TBA <sup>1</sup>
2B	TBA <sup>1</sup>
3A	TBA <sup>1</sup>
3B	TBA <sup>1</sup>
4A	TBA <sup>1</sup>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Monitoring Point	Level trigger threshold
4B	TBA <sup>1</sup>
4C	TBA <sup>1</sup>
5A	TBA <sup>1</sup>
5B	TBA <sup>1</sup>
5C	TBA <sup>1</sup>
6	TBA <sup>1</sup>
7A	TBA <sup>1</sup>
7B	TBA <sup>1</sup>
8	TBA <sup>1</sup>
2289_ Lower	59.7m (±5m)
25P(R)	97.8m (±5m)
26P(R)	90.0m (±5m)
10Pb	25.0m (±5m)
4517WB	43.5m (±5m)
4518WB	59.0m (±5m)

<b>D5</b>	<p><b>Exceedance investigation</b></p> <p>If the contaminant limits specified in <b>Table D2 - Groundwater quality triggers and limits</b>, or groundwater level requirements in <b>Table D3: Groundwater level monitoring</b> are exceeded at any monitoring bore:</p> <ol style="list-style-type: none"> <li>a) an investigation must be completed within <b>fourteen (14) days</b> of becoming aware of the exceedance; and</li> <li>b) a report on the investigation must be submitted to the administering authority via WaTERS within 14 days of completion of the investigation; and</li> <li>c) the report must include a determination of whether the exceedance is caused by: <ol style="list-style-type: none"> <li>i. the mining activities; or</li> <li>ii. natural variation; or</li> <li>iii. neighbouring land use resulting in groundwater impacts.</li> </ol> </li> </ol>
<b>D5A</b>	<p>If the investigation under <b>Condition D5</b> determines that the exceedance was caused by the mining activities including construction and rehabilitation, then a further investigation must be undertaken which must determine whether environmental harm has occurred or may occur, and the extent thereof.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>D5B</b>	<p>If the investigation undertaken under <b>Condition D5</b> determines that environmental harm has occurred, or may occur, the following action must be taken within twenty-eight (28) days after completing the investigation under <b>Condition D5</b>:</p> <ul style="list-style-type: none"> <li>a) implementation of immediate measures to reduce environmental harm including potential environmental harm; and</li> <li>b) development of long-term mitigation measures to address any existing groundwater contamination and prevent recurrence of groundwater contamination which is implemented in a reasonable time period; and</li> <li>c) document the steps taken under (a) and (b) and provide the documentation to the administering authority.</li> </ul>
<b>D6</b>	<p>Groundwater contaminant limits specified in <b>Table D2 - Groundwater quality triggers and limits</b> must not be exceeded at the same monitoring bore on three (3) consecutive occasions.</p>
<b>D7</b>	<p><b>Bore construction and maintenance and decommissioning</b></p> <p>The construction, maintenance and management of groundwater bores (including groundwater monitoring bores) must be undertaken in a manner that prevents or minimises impacts to the environment and ensures the integrity of the bores to obtain accurate monitoring.</p>
<b>D8</b>	<p><b>Groundwater management and monitoring program</b></p> <p>The approved Groundwater Management and Monitoring Program required by Imposed Condition 10, in Appendix 1, of the CG's report must be provided, to the administering authority, within 20 business days of it being approved.</p>
<b>D9</b>	<p>In addition to the requirements of Imposed Condition 10 in Appendix 1 of the CG's report, a plan must be developed and certified by an appropriately qualified person to meet the following objectives:</p> <ul style="list-style-type: none"> <li>a) identification of groundwater drawdown level thresholds for monitoring the impacts to Groundwater Dependant Ecosystems; and</li> <li>b) collection and analysis of data that identifies natural groundwater level trends for identification of water level impact to authorised water users from the mining operation as required by Schedule 3, recommended Condition 1 in Appendix 3 of the CG's report.</li> </ul> <p>The plan must be provided to the administering authority in conjunction with submission of the approved program in <b>Condition D8</b>.</p>
<b>D10</b>	<p><b>Monitoring Program Review</b></p> <p>The environmental authority holder must provide the approved report required by Imposed Condition 11, in Appendix 1, of the CG's report, to the administering authority, within <b>20 business days</b> of the report being approved.</p>
<b>D11</b>	<p>The plan required under <b>Condition D9</b> must be reviewed by an appropriately qualified person in accordance with the requirements of Imposed Condition 11 in Appendix 1 of the CG's report, and be provided to the administering authority in conjunction with the submission of the approved report in <b>Condition D10</b>.</p>
<b>D12</b>	<p><b>Groundwater model review</b></p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	The environmental authority holder must provide the approved report required by Imposed Condition 12, in Appendix 1, of the CG's report, to the administering authority, within <b>20 business days</b> of it being approved.
<b>D13</b>	<p><b>General requirements — Oakey Creek Alluvial aquifer</b></p> <p>As a component of the second and subsequent reviews of the New Acland Coal numerical groundwater model the environmental authority holder must provide an approved (under <i>Water Act 2000</i>) report outlining the impact on the Oakey Creek Alluvial aquifer, to the administering authority. The report should:</p> <ol style="list-style-type: none"> <li>a) Establish any identified impact associated with mining activities, if any, on the Oakey Creek Alluvial aquifer;</li> <li>b) Include an assessment of natural and potential pumping based water level variation caused by non-mining authorised users, in the Oakey Creek Alluvial aquifer;</li> <li>c) Outline any requirements for additional modelling or monitoring required;</li> <li>d) If the investigation under Condition <b>D13(a)</b> concludes that there is an identified impact on the Oakey Creek Alluvial aquifer as a result of mining activities, the environmental authority holder must determine the volumetric impact associated with the identified impact; and</li> <li>e) If the impact is determined to be the result of mining activities, the environmental authority may be required to construct additional monitoring bores. Additional monitoring bores are to be incorporated in the Groundwater Monitoring and Management Plan required by <b>Condition D8</b>.</li> </ol>
<b>D14</b>	<p><b>Main Range Volcanics aquifer</b></p> <p>The environmental authority holder must determine the long term impact of the take of water from the Main Range Volcanics aquifer and incorporate this into the second review of the New Acland Coal numerical groundwater model pursuant to <b>Conditions D8 — D12</b>.</p>
<b>D15</b>	<p>A groundwater monitoring network must be maintained. The network must:</p> <ol style="list-style-type: none"> <li>a) be installed and maintained by a person possessing appropriate qualifications and experience in the fields of hydrogeology and groundwater monitoring program design to be able to competently make recommendations about these matters;</li> <li>b) be constructed in accordance with methods prescribed in either the latest version of the documents titled 'Minimum Construction Requirements for Water Bores in Australia' or the 'Minimum standards for the construction and reconditioning of water bores that intersect the sediments of artesian basins in Queensland', whichever applies; and</li> <li>c) include a sufficient number of 'bores of compliance' that are located at an appropriate distance from potential sources of impact from mining activities and provides the following: <ol style="list-style-type: none"> <li>(i) representative groundwater samples from the uppermost aquifer; and</li> <li>(ii) background water quality in hydraulically up-gradient or background bore(s) that have not been affected by any mining activities to groundwater's; and</li> <li>(iii) the quality of groundwater downgradient of any potential source of contamination including groundwater passing the relevant bore(s) of compliance.</li> </ol> </li> </ol>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Agency interest: Waste Management	
Condition number	Condition
E1	Unless otherwise permitted by the conditions of this environmental authority or with prior approval from the administering authority and in accordance with a relevant standard operating procedure, waste must not be burnt.
E2	The holder of this environmental authority may burn vegetation cleared in the course of carrying out extraction activities provided the activity does not cause environmental harm at any sensitive place or commercial place.
E3	The holder of this environmental authority may dispose of inert waste (packing material) associated with blasting into open pits, buried in such a manner that it will not impede saturated aquifers.
E4	<p><b>Storage of tyres</b></p> <p>Tyres stored awaiting disposal or transport for take-back and, recycling, or waste-to-energy options - should be stockpiled in volumes less than 3m in height and 200m<sup>2</sup> in area and at least 10m from any other tyre storage area.</p>
E5	<p><b>Disposal of tyres</b></p> <p>Scrap tyres resulting from the mining activities can be disposed of into open pits provided tyres are placed as deeply in the spoil as reasonably possible and this practice does not cause an unacceptable fire risk or compromise mine safety.</p>
E6	Scrap tyres resulting from the mining activities disposed within the operational land must not impede saturated aquifers or compromise the stability of the consolidated landform.
E7	<p><b>Tailings disposal</b></p> <p>Tailings must be managed in accordance with procedures contained within a Tailings Management Plan, which must provide for the following:</p> <ol style="list-style-type: none"> <li>containment of tailings;</li> <li>the management of seepage and leachates both during operation and the foreseeable future;</li> <li>the control of fugitive emissions to air;</li> <li>maintaining records of the relative locations of any other waste stored within the tailings;</li> <li>rehabilitation strategy; and</li> <li>monitoring of rehabilitation, research and/or trials to verify the requirements and methods for decommissioning and final rehabilitation of tailings, including the prevention and management of acid mine drainage, erosion minimisation and establishment of vegetation cover.</li> </ol>
E8	<p><b>Green waste storage</b></p> <p>The waste management hierarchy must be considered in the management of green waste.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Agency interest: Noise	
Condition number	Condition
<b>F1</b>	<p><b>Noise limits</b></p> <p>The holder of this environmental authority must ensure that noise generated by the mining activities does not cause the criteria in <b>Table F1- Noise limits</b> to be exceeded at a noise sensitive place or commercial place</p> <p>Note: the measurement of noise for a noise sensitive place or commercial place is either:</p> <ul style="list-style-type: none"> <li>c) at that place (if measured there); or</li> <li>d) at the monitoring location to which the noise sensitive or commercial place is correlated (where there is no measure at the noise sensitive or commercial place).</li> </ul>
<b>F2</b>	If monitoring indicates the potential for exceedance of the relevant limits in <b>Table F1 — Noise Limits</b> then the environmental authority holder must immediately implement noise abatement measures to avoid exceeding the relevant limits.
<b>F3</b>	Notwithstanding any other condition of this environmental authority, noise from the activity must not cause an environmental nuisance, at any noise sensitive place.
<b>F4</b>	<p><b>Compliance Monitoring and reporting</b></p> <p>A Noise Monitoring Program must be developed by a suitably qualified and experienced person in relation to noise and implemented for all stages of mining to monitor compliance with <b>Table F1 - Noise limits</b> at the frequency and locations in <b>Table F2- Compliance noise monitoring locations and frequency</b>. The Noise Monitoring Program must be submitted to the administering authority for approval <b>within 3 months upon grant of ML50232 and/or ML700002</b>. The Noise Monitoring Program must be implemented <b>within 3 months</b> of the administering authority approving the program.</p>
<b>F4a</b>	When requested by the administering authority, noise monitoring and recording must be undertaken within a reasonable and practicable timeframe to investigate any complaint of environmental noise nuisance at any noise sensitive place. The holder of this environmental authority must undertake continuous monitoring of not less than <b>7 days</b> to capture weather-related variations and variety in different operational conditions on site in noise levels and provide the results to the administering authority within 14 days following completion of monitoring.

Table F1- Noise limits (includes construction activities)

Noise level dB(A) measured as	All days		
	7am — 6pm	6pm — 10pm	10pm — 7am

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

<b>Noise measured at a 'Noise sensitive place'</b>			
$L_{Aeq, adj, 15 min}^1$	42	35	35
$L_{Amax}$	-	-	50
$L_{Amax}$ rail spur <sup>2</sup>	-	-	56
$L_{Aeq(24hr)}$ rail spur <sup>2</sup>	-	-	50

- 1 . All noise other than that which is distinguishable as train noise
2. Only for noise distinguishable as train noise.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

F5	<p>Noise monitoring and recording required by conditions F4 and F4a must be conducted in accordance with the administering authority's Noise Measurement Manual and must include the following :</p> <ul style="list-style-type: none"> <li>a) <math>L_{A10, adj, 15 min}</math> - day, evening &amp; night; <math>L_{Aeq, adj, 15 min}</math> - day, evening &amp; night; and <math>L_{A90, adj, 15 min}</math> - day, evening &amp; night;</li> <li>b) background noise <math>L_{A90}</math>;</li> <li>c) the level and frequency of occurrence of impulsive or tonal noise and any adjustment and penalties to statistical levels – with a safety factor of 4dB applied;</li> <li>d) atmospheric conditions including temperature, relative humidity and wind speed and directions;</li> <li>e) effects due to any extraneous factors such as traffic noise and natural sources (e.g. insects, birds and wind);</li> <li>f) location, date and time of monitoring;</li> <li>g) if a complaint concerns low frequency noise, <math>L_{L1Neq 10 mins}</math> (internal), <math>L_{Aeq 10 mins}</math> (internal) and one third octave band measurements in <math>L_{L1Neq 10 mins}</math> (internal) for centre frequencies in the 10 – 200 Hz range;</li> <li>h) maximum (<math>L_{Amax}</math>) noise levels - night; and</li> <li>i) <math>1/3</math> octave band spectrums.</li> </ul>
F6	<p>The Noise Monitoring Program must also include a system of real time performance monitoring against the criteria in <b>Table F1 - Noise limits</b> at:</p> <ul style="list-style-type: none"> <li>a) location in Acland to be identified in the Noise Monitoring Program;</li> <li>b) location to the east of the New Acland mine to be identified in the Noise Monitoring Program;</li> <li>c) location to the north of the New Acland mine to be identified in the Noise Monitoring Program; and</li> <li>d) location to the west of the New Acland mine to be identified in the Noise Monitoring Program.</li> </ul> <p><b>NOTE:</b> The performance monitoring required under this condition is to be used for performance management rather than monitoring for compliance with <b>Table F1 - Noise limits</b>.</p>
F6a	<p>An annual noise monitoring program report must be provided to the administering authority that details:</p> <ul style="list-style-type: none"> <li>a) the correlation measurements between the real-time monitoring system and the noise sensitive receptors; and</li> <li>b) how the real-time monitoring system adjusted the real-time measurement data in accordance with the correlation assessment at each monitoring location; and</li> <li>c) details any exceedances of the noise limits in Table F1- Noise limits determined at any noise sensitive receptors attributable to mining activities.</li> </ul>
F7	<p>All real-time performance monitoring parameters required by <b>Condition F6</b> must be made publicly available for a period of one month, online and in real-time in a format that includes:</p> <ul style="list-style-type: none"> <li>a) the noise limits;</li> <li>b) <math>L_{Aeq, adj 15 min}</math> interval levels;</li> <li>c) <math>L_{Amax, 15 min}</math> interval levels; and</li> <li>d) exclusion times and a brief statement for the reason for the exclusion.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

F8	<p><b>Noise management</b></p> <p>A Noise and Vibration Management Plan must be developed by a suitably qualified and experienced person and be implemented for all stages of mining <b>within 3 months upon the grant of ML50232 and/or ML700002.</b></p>
F9	<p>The Noise and Vibration Management Plan must incorporate a program for continuous improvements for the management of noise emissions caused by mining operations and must include, but is not limited to:</p> <ul style="list-style-type: none"> <li>a) a detailed description of the noise management system;</li> <li>b) a description of the noise mitigation measures that would be implemented to ensure best practice noise management is being employed, is regularly benchmarked against contemporary industry standards and is regularly reviewed to ensure continual improvement;</li> <li>c) the Noise Monitoring Program described in <b>Conditions F4, F5, F6 and Table F2 - Compliance noise monitoring locations and frequency;</b></li> <li>d) a comprehensive noise management system that uses a combination of predictive meteorological forecasting and real-time noise monitoring data to guide the day to day planning of mining operations and the implementation of both proactive and reactive mitigation measures to ensure compliance with these conditions, improved understanding of noise data at the monitoring locations in <b>Table F2 - Compliance noise monitoring locations and frequency</b> and its correlation with the noise data collected from the locations specified in <b>Condition F6;</b></li> <li>e) a protocol for determining exceedances of the conditions that complies with the administering authority's Noise Measurement Manual;</li> <li>f) a protocol for recording and responding to complaints;</li> <li>g) the content of the monthly compliance report required under <b>Condition 3</b> of the imposed conditions of the Coordinator-General, including for the provision of data in that report, and a peer review of that content, including blast monitoring results and must include data analysed against the noise limits detailed in <b>Table F1 – Noise limits.</b></li> </ul>
F10	<p>The environmental authority holder must, at their own cost, appoint an independent acoustic consultant to review the monthly noise report format for a <b>twelve (12) month period</b> following the commencement of reporting. The monthly reports must be submitted to the administering authority. The monthly reports must be produced to present information from noise monitoring in a manner that is clear, open and unambiguous.</p>
F11	<p><b>Mitigation</b></p> <p>Upon receiving a written request from the owner of a noise sensitive place shown in <b>Figure 5 — Location of sensitive receptors</b> - the environmental authority holder must implement additional reasonable and feasible noise mitigation measures at the noise sensitive place in consultation with the owner.</p> <p>If within <b>3 months</b> of receiving this request, the environmental authority holder and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to a suitably qualified and experienced person in relation to noise appointed by the Chief Executive of the administering authority or the President for the time being of the</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>Institute of Engineers for resolution. The suitably qualified and experienced person's decision as to the mitigation measures to be implemented must be final.</p> <p>The environmental authority holder is responsible for payment of costs of the suitably qualified and experienced person in relation to noise.</p>
--	--

**Table F2 - Compliance noise monitoring locations and frequency**

Monitoring location*	Frequency
1 (Acland)	Monthly
34 (rail spur), 35 and 38 (or alternative noise sensitive places identified in the Noise Monitoring Program developed pursuant to condition F5)	Monthly
4, 8 and 10 (or alternative noise sensitive places identified in the Noise Monitoring Program developed pursuant to condition F5)	Monthly
11, 15, 16 (if occupied) and 19 (or alternative noise sensitive places identified in the Noise Monitoring Program developed pursuant to condition F5)	Monthly
Unattended monitoring, 7 days	Monthly for first 12 months

\*See Figure 5 - Location of sensitive receptors

<b>F12</b>	<p><b>Airblast overpressure nuisance</b></p> <p>The holder of this environmental authority must ensure that blasting does not cause the limits for peak particle velocity and air blast overpressure in <b>Table F3 — Blasting noise limits</b> to be exceeded at a noise sensitive place or commercial place.</p>
------------	--

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>F13</b>	<p>The holder of this environmental authority must develop and implement a blast monitoring program to monitor compliance with <b>Table F3 — Blasting noise limits</b> for:</p> <p>a) At least 90% of all blasts undertaken on this site in each year at the nearest noise sensitive place or commercial place to the centroid of the blast; and</p> <p>b) All blasts conducted during any time period specified by the administering authority at the nearest noise sensitive place or commercial place.</p> <p>Results of the blast monitoring program must be included in the monthly compliance monitoring report provided to the administering authority.</p>
------------	--

**Table F3: Blasting noise limits**

Blasting noise limits	Noise sensitive place or commercial place blasting noise limits	
	Monday to Friday 7am to 6pm Saturday 9am to 1 pm	Monday to Friday: before 7am and after 6pm Saturday: before 9am and after 1 pm Sunday and Public Holidays <sup>^</sup>
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time	No blasting
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time	No blasting

<sup>^</sup> Blasting not permitted on Sundays and public holidays

Agency interest: Sewage Treatment	
Condition number	Condition
<b>G1</b>	All effluent released from the treatment plant must be monitored at the frequency and for the parameters specified in <b>Table G1 — Sewage Effluent Quality Targets for Dust Suppression and Irrigation</b> .

**Table G1: Sewage Effluent Quality Targets for Dust Suppression and Irrigation**

Contaminant	Unit	Release limit	Limit type	Frequency
Faecal coliforms, based on the average of a minimum of five samples collected	Colony forming units/100ml	1000	Maximum	Quarterly
Nitrogen	mg/L	15	Maximum	Quarterly

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Phosphorus	mg/L	10	Maximum	Quarterly
pH	pH units	6.0 — 9.0.	Range	Quarterly

<b>G2</b>	Treated sewage effluent used for dust suppression or irrigation must not exceed sewage release limits defined in <b>Table G1 — Sewage Effluent Quality Targets for Dust Suppression and Irrigation</b> .
<b>G3</b>	Sewage effluent used for dust suppression or irrigation must not cause spray drift or overspray to any sensitive place.
<b>G4</b>	Subject to <b>Condition G5</b> , sewage effluent from sewage treatment facilities must be reused or evaporated and must not be directly released from the sewage treatment plant to any water way or drainage line.
<b>G5</b>	In periods of wet weather or following wet weather, when irrigation of effluent is not practicable and when effluent storage ponds are full, the release of effluent to waters is permitted in accordance with the release limits in <b>Table G1 - Sewage Effluent Quality Targets for Dust Suppression and Irrigation</b> and locations specified in <b>Table C1 - Mine-affected water release points, sources and receiving waters</b> .
<b>G6</b>	The holder of the environmental authority must ensure that irrigation of effluent is carried out in such a manner that prevents and or minimises environmental harm.
<b>G7</b>	The holder of this environmental authority is authorised to accept treated wastewater from the Wetalla Wastewater Reclamation Facility.
<b>G8</b>	Sewage effluent used for dust suppression or irrigation must not exceed sewage effluent release limits defined in <b>Table G1 - Sewage Effluent Quality Targets for Dust Suppression and Irrigation</b> .

Agency interest: Land and Rehabilitation	
Condition number	Condition
<b>H1</b>	<b>Buffer Zone</b> The holder of the environmental authority must not cause any disturbance within 50 metres of the high bank of Lagoon Creek (buffer zone) as shown on <b>Figure 3 - Lagoon Creek, buffer and levee</b> unless in accordance with Condition <b>H2</b> and <b>H3</b> .
<b>H2</b>	The holder of the environmental authority is authorised to construct and maintain a flood protection levee and access road for inspection purposes, with the top of the levee being no closer than 50 metres from the high bank of Lagoon Creek as shown on <b>Figure 3 - Lagoon Creek, buffer and levee</b>
<b>H3</b>	The holder of the environmental authority is authorised to access the 50 metre buffer zone as shown on <b>Figure 3 - Lagoon Creek, buffer and levee</b> , for the purposes of maintaining the integrity of the flood protection levee, riparian conservation and weed management purposes.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>H4</b>	The flood protection levee must be designed and inspected by a suitably qualified and experienced person. The final design level of the levee crest must be above the predicted 1,000 year ARI event flood level.
<b>H5</b>	Any section of the outside face of the levee must be treated with cover material and grass seeded (unless rock armoured) within three months of completion of the earthworks for that section of the outside face of the levee.
<b>H6</b>	The condition of the levee must at a minimum be assessed: a) by the environmental authority holder <b>within 1 week</b> of any storm of such intensity that greater than 25mm of rain falls in less than 3 hours; and b) by a suitably qualified and experienced person at least once per year between the months of May and October inclusive (i.e. during the 'dry' season and before the onset of the 'wet' season).
<b>H7</b>	Remedial works identified as necessary during assessments conducted under <b>Condition H6</b> must be commenced <b>within 30 days</b> unless delayed by inclement weather.
<b>H8</b>	Any actions and incidents on site that may impact upon the integrity of the levee bank must be notified to the administering authority in accordance with <b>Condition H4</b> .
<b>H9</b>	For Stage 3 New Acland Mine Project, land disturbed by mining must be rehabilitated in accordance with <b>Table H4: Rehabilitation Requirements Stage 3 New Acland Mine Project, Table H5: Rehabilitation Acceptance Criteria - Grazing Lands Stage 3 New Acland Mine Project and Table H6: Rehabilitation Acceptance Criteria - Treed Areas Stage 3 New Acland Mine Project.</b>
<b>H10</b>	<p><b>Final Land Use and Rehabilitation Plan</b></p> <p>Within twelve months <b>upon the grant of ML50232 and ML700002</b> the holder of this environmental authority must develop and implement a Final Land Use and Rehabilitation Plan to ensure that all areas disturbed by mining activities will be suitably rehabilitated in accordance with <b>Table H1 – Final Land Use and Rehabilitation Approval Schedule – ML50170 and ML50216, Table H2 - Landform design criteria for New Acland Coal Mine – ML50170 and ML50216, Table H3: Residual Void Design – ML50170 and ML50216, Table H4: Rehabilitation Requirements Stage 3 New Acland Mine Project, Table H5: Rehabilitation Acceptance Criteria — Grazing Lands Stage 3 New Acland Mine Project and Table H6: Rehabilitation Acceptance Criteria — Treed Areas Stage 3 New Acland Mine Project.</b></p> <p>The Plan must include, but is not limited to the following:</p> <ul style="list-style-type: none"> <li>a) disturbance type;</li> <li>b) disturbance area;</li> <li>c) pre and post mine land descriptions;</li> <li>d) pre and post mine land capability;</li> <li>e) analogue site(s) identification;</li> </ul>

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

	<ul style="list-style-type: none"> <li>f) a description of rehabilitation management techniques incorporating works and monitoring programs and timetables;</li> <li>g) indicators for success; and</li> <li>h) keeping of appropriate records or rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and the preparation of annual rehabilitation progress reports.</li> </ul>
<b>H11</b>	<p>Rehabilitation of disturbed areas must achieve the following:</p> <ul style="list-style-type: none"> <li>a) For mining areas other than Stage 3 disturbance areas, and in locations shown in Figure X1: <ul style="list-style-type: none"> <li>i. 553ha of Grazing Land Suitability Class 2;</li> <li>ii. 29ha of Grazing Land Suitability Class 3;</li> <li>iii. 824ha of Grazing Land Suitability Class 4; and</li> <li>iv. 63ha of Grazing Land Suitability Class 5.</li> </ul> </li> <li>b) For Stage 3 disturbance areas and in locations shown in <b>Figure X2</b>: <ul style="list-style-type: none"> <li>i. 541ha of Cropping Land Suitability Class 3; and</li> <li>ii. 471ha of Grazing Land Suitability Class 4.</li> </ul> </li> <li>c) For the 3 mined voids as part of stage 3, as per the requirements of <b>Table X1</b>.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

New Table Ha

Location / Mined Void Name	Area	Rehabilitation Outcome
Manning Vale West Pit	163ha	Depressed landform and grazing suitability Class 4
Manning Vale East Pit	154ha	Depressed landform and grazing suitability Class 4
Willeroo Pit	213ha	Depressed landform and grazing suitability Class 4

Table H1: Final Land Use and Rehabilitation Approval Schedule — ML 50170 and ML50216

	Disturbance Type						
	Residual Voids	Tailings Dams	Recontoured spoil area	Waste Rock Dumps	Infrastructure & ROM Areas	Roads and Tracks	Water Supply and Sediment Dams
<b>Tenure ID</b>	ML50216	ML50170	ML50170 ML50216	ML50216	ML50170	ML50170 ML50216	ML50216
<b>Projective Surface Area (ha)</b>	55	70	740	100	5	5	40
<b>Post mine land use</b>	Possible water storage	Grazing	Grazing	Grazing	Grazing	Grazing	Possible water storage
<b>Post mine land suitability classification</b>	5	5	3-4	4	4	4	5

Table H2: Landform design criteria for New Acland Coal Mine— ML 50170 and ML50216

Disturbance Type	Slope Range (%)	Projective Surface Area (ha)
Residual Voids (high wall)	0 - 214 % or 65°	55
Residual Voids (low wall)	0 - 100 % or 45°	
Tailings Dam Top	0 - 20 % or 11.5°*	60
Tailings Dam Wall	0 - 20 % or 11.5° *	10
Recontoured Spoil Area	0 - 20 % or 11.5° *	740

**Draft environmental authority EPML00335713 — New Acland Coal Mine**

<b>Disturbance Type</b>	<b>Slope Range (%)</b>	<b>Projective Surface Area (ha)</b>
Waste Rock Dumps	0 - 20 % or 11.5° *	100
Infrastructure and ROM areas	0 - 18% or 10°	5
Roads and Tracks	0 - 10 % or 5.7°	5

**NOTE:** \*= The slope depends on the vertical height and slope length. See Landform Acceptance Criteria.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table H3: Residual Void Design— ML 50170 and ML50216

Void Identification	Void wall - competent rock slope (%)	Void wall - incompetent rock slope (%)	Void maximum surface area (ha)
Central Pit/South Pit Void	65° or 214%	45° or 100%	55

Table H4: Rehabilitation Requirements Stage 3 New Acland Mine Project

Mine Domain	Rehabilitation Goal	Rehabilitation Objectives	Indicators	Completion Criteria
Solid Waste Rock Disposal	Safe	Site safe for humans and animals	Structurally safe and shallow slopes (geotechnically stable). No hazardous materials (geochemically benign).	Monitoring / observation demonstrates safe site
	Non-polluting	No environmental harm attributed to adverse chemical conditions within the waste rock dumps	Minimise erosion (to at least <10t/ha/yr) through selective placement of mine waste, adequate vegetation cover. Runoff and seepage does not cause environmental harm	Suitable for low intensity grazing. Runoff and discharge water (including seepage) meets specified limits.
	Stable	Minimise erosion	Wastes selectively placed above and below original ground level to agreed slopes. Adequate ground cover established to control erosion. Runoff control measures (contour banks, etc) effective in controlling erosion.	Suitable for low intensity grazing
	Self-sustaining	To return to agreed grazing land capability	Slope and other landform design criteria achieved. Establish adequate vegetation cover.	Refer <b>Table H5</b> and <b>Table H6</b>
Tailings Dams	Safe	Site safe for humans and animals	Structurally safe (geotechnically stable). Adequate capping. Accessibility to voids is permanently removed.	Monitoring / observation demonstrates safe site
	Non-polluting	Acid mine drainage will not cause environmental harm	Adequately capped. Minimise erosion through adequate vegetation cover to less than 10t/ha/yr. Runoff and seepage controlled by water management.	Monitoring meeting release limits. Suitable for low intensity grazing
	Stable	Minimise erosion	Stored in both pits below natural surface level and in dams above	Monitoring demonstrates

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Mine Domain	Rehabilitation Goal	Rehabilitation Objectives	Indicators	Completion Criteria
			natural surface. Establish adequate vegetation cover.	revegetation success. No structural erosion present. Suitable for low intensity grazing
	Self-sustaining	To return to agreed grazing land capability	Monitoring demonstrates successful revegetation.	Refer <b>Table H5</b> and <b>Table H6</b>
Mine Infrastructure Areas	Safe	Site safe for humans and animals	Hazardous materials removed.	Monitoring / observation demonstrates safe site
	Non-polluting	Undertake contaminated land assessment.	Remediate contamination so that runoff and seepage are of good quality.	Monitoring meeting release limits.
	Stable	Minimise erosion	Remove infrastructure or allow continued use of useful infrastructure. Establish adequate vegetation cover.	Slope will be a maximum of 17° (30%)
	Self-sustaining	To return to agreed grazing land capability	Return to previous use (grazing). Establish adequate groundcover.	Refer <b>Table H5</b> and <b>Table H6</b>
Linear Infrastructure areas	Safe	Site safe for humans and animals	Structurally safe (geotechnically stable).	Monitoring / observation demonstrates safe site
	Non-polluting	No environmental harm attributed to adverse chemical conditions within the rehabilitation areas.	Runoff and seepage controlled by water management (e.g. dams).	Monitoring meeting release limits.
	Stable	Minimise erosion	Remove infrastructure, rip reshape and revegetate or allow continued use of useful infrastructure.	Suitable for low intensity grazing
	Self-sustaining	To return to agreed grazing land capability	Remove infrastructure or allow continued use of useful infrastructure. Establish adequate vegetation cover.	Refer <b>Table H5</b> and <b>Table H6</b>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table H5: Rehabilitation Acceptance Criteria Stage 3 New Acland Mine Project — Grazing Lands

Table 15 Rehabilitation Acceptance Criteria – Grazing Land	
Indicator	Acceptance Criteria
<b>Ecological</b>	
Vegetation cover	≥70%
Grass species diversity	≥4 pasture species
Prohibited or Restrictive invasive plants (Qld)	Absent
<b>Geomorphological</b>	
Slope <sup>1</sup>	17° (maximum)
Active rill/gully erosion <sup>2</sup>	Rill/gully erosion will be managed to be consistent with surrounding in-situ landforms. Identification and repair of areas of concern (e.g. large scale rill/gully erosion)
Geotechnical stability	Stable surface, no subsidence
<b>Physical</b>	
Field texture	Sandy loam to light clay (rigid soils i.e. duplex soils) Clay loam to heavy clay (non-rigid soils i.e. Vertosols)
Bulk density (BD)	1.1 – 1.8 gm/cm <sup>3</sup>
Emerson dispersion test	Class 2, 3, 4, 5 or 6
Depth of effective root zone (ERZ)	250 – 1000 millimetres
<b>Chemical</b>	
pH <sub>Ca</sub>	pH <sub>w</sub> 6.5 – 9.5, pH <sub>Ca</sub> 6.0 – 8.0
Electrical Conductivity (EC <sub>se</sub> )	<b>EC<sub>1:5w</sub></b> 120 – 240 μS/cm for low salinity in sandy soils 90 – 300 μS /cm for low salinity in clay soils <b>EC<sub>se</sub></b> 950-1900 μS/cm for low – moderate salinity in all soils
Cation Exchange Capacity (CEC)	9 – 45 meq/100 gm
Exchangeable Sodium Percentage (ESP)	<10
Total metals –Cu, Zn	<i>Risk Based Ecological Levels</i> Zn – 190 mg/kg, Cu – 90 mg/kg <i>Typical Background Levels</i> Cu – 3-412 mg/kg, Zn – 5-92mg/kg,
Total Organic Carbon (TOC)	>1% for total organic carbon

1. This criterion has been developed to meet the standards set in the EA (*Schedule H Table H5*). Maximum slope will be 17° as authorised but consideration will be given to the lower slope angles.

2. Should active rill/gully erosion be identified, erosive soil loss will be estimated using RULSE.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table H6: Rehabilitation Acceptance Criteria Stage 3 New Acland Mine Project — Treed Areas

Land Suitability Class	Acceptance Criteria						
	Non-Polluting	Stability and Sustainable Land Use					
	Active Rill/Gully Erosion	Vegetation Cover	Native & Exotic Grass Species <sup>1</sup>	Slope <sup>2</sup>	Geotechnical Stability	Active Rill/Gully Erosion	Prohibited or Restrictive Invasive Plants (Q/d)
2-5	Absence (<10t/ha/yr)	≥50%	<i>Eucalyptus sp.</i> ≥2; <i>Acacia sp.</i> ≥2; Other tree/shrub sp. ≥2; Grass= ≥ 3	Maximum 17°	Stable	Rill/gully erosion will be managed to be consistent with surrounding in-situ landforms. Identification and repair of areas of concern (e.g. large scale rill/gully)	Absence

1. The majority of the rehabilitated land will be returned to grazing with exotic pastures established. Where pockets of trees/shrubs have been established the diversity criteria will apply taking into account the limited diversity of some remnant communities near the Mine.
2. This criterion has been developed to meet the standards set in the EA (*Schedule H Table H6*). Maximum slope will be 17° as authorised but consideration will be given to the lower slope angles

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>H12</b>	Rehabilitation must commence progressively as land becomes available for rehabilitation.
<b>H13</b>	<p><b>Closure and post closure</b></p> <p>The environmental authority holder must submit a Mine Closure Plan to the administering authority at least <b>five years prior</b> to the surrender of this environmental authority.</p>
<b>H14</b>	<p>When the deposition of tailings ceases, the holder of this Environmental Authority must install a final cover system to the Tailings Storage Facility, which effectively minimises:</p> <p>a) infiltration of water into the Tailings Storage Facility; and</p> <p>b) the likelihood of any erosion occurring to either the final cover system, dumped spoil material or deposited tailings.</p>
<b>H15</b>	The final cover system must include an inert layer to reduce infiltration and an upper/final layer of earthen material that is capable of sustaining plant growth.
<b>H16</b>	<p><b>Sustainable final land use outcomes</b></p> <p>Areas that are to be progressively rehabilitated must comply with, but not be limited to, the following outcomes:</p> <p>a) All areas disturbed by mining activities must be rehabilitated to the landform design criteria defined in the Final Land Use and Rehabilitation Plan required by <b>Conditions H10 to H13</b>; and</p> <p>b) The final landforms must be stable with erosion rates comparable to a suitable analogue site.</p>
<b>H17</b>	<p><b>Grazing pasture outcome for ML50170 and ML50216</b></p> <p>Areas which are to be progressively rehabilitated to grazing pasture must comply with the following outcomes;</p> <p>a) generate a self-sustaining vegetation with projective cover, species composition and species distribution comparable with that of analogue sites to be determined by the study detailed in <b>Condition H10</b> e.g. planting local native grass and shrub species where possible. These vegetation species must be listed in the Final Land Use and Rehabilitation Plan;</p> <p>b) all areas disturbed by mining activities must be rehabilitated to the landform design criteria defined in <b>Table H2 Landform design criteria for New Acland Coal Mine– ML50170 and ML50216</b>;</p> <p>c) a measure of productivity (e.g. sustainable dry matter production, stock live weight gain) are comparable to the selected analogue sites detailed in <b>Condition H18</b>.</p>
<b>H18</b>	Complete an investigation into rehabilitation of disturbed areas and submit a report to the administering authority proposing acceptance criteria to meet the outcomes in the Final Land Use and Rehabilitation Plan within <b>twelve months</b> of the issue of the Environmental Authority.
<b>H19</b>	<p><b>Residual void outcome</b></p> <p>Residual voids must comply with the following outcomes:</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>a) residual voids must not cause any serious environmental harm to land, surface waters or any recognised ground water aquifer, other than the environmental harm constituted by the existence of the residual void itself, and subject to any other condition within this Environmental Authority; and</p> <p>b) residual voids must comply with <b>Table H3 - Residual Void Design– ML50170 and ML50216.</b></p>
<b>H20</b>	Complete an investigation into residual voids and submit the findings in the Mine Closure Plan outlined by <b>Condition H13</b> to the administering authority proposing acceptance criteria to meet the outcomes in <b>Condition H19</b> and landform design criteria in <b>Table H3 — Residual Void Design– ML50170 and ML50216.</b>
<b>H21</b>	All areas within the mining lease will be managed to reduce the spread of declared plants including both disturbed and undisturbed areas.
<b>H22</b>	<p><b>Topsoil</b></p> <p>a) Topsoil must be stripped and stockpiled in accordance with the approved Topsoil Management Plan; and</p> <p>b) Topsoil must not be disposed of in a pit or otherwise sterilised from reuse.</p>
<b>H23</b>	<p><b>Contaminated land</b></p> <p>Before applying for surrender of a mining lease, the holder must (if applicable) provide to the administering authority a site investigation report under the Act, in relation to any part of the mining lease which has been used for notifiable activities or which the holder is aware is likely to be contaminated land, and also carry out any further work that is required as a result of that report to ensure that the land is suitable for its final land use.</p>
<b>H24</b>	Before applying for progressive rehabilitation certification for an area, the holder must (if applicable) provide to the administering authority a site investigation report under the Act, in relation to any part of the area the subject of the application which has been used for notifiable activities or which the holder is aware is likely to be contaminated land, and also carry out any further work that is required as a result of that report to ensure that the land is suitable for its final land use in accordance with <b>Condition H10.</b>
<b>H25</b>	Minimise the potential for contamination of land by hazardous contaminants.
<b>H26</b>	<p><b>Impacted land</b></p> <p>The holder of the environmental authority must provide the approved report required by <b>Imposed Condition 9</b>, of Appendix 1, of the CG's report, to the administering authority, within <b>20 business days</b> of it being approved.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Agency interest: Biodiversity	
Condition number	Condition
I1	The holder of the environmental authority must ensure that staff induction and environmental awareness programs include reference to <i>Anomalopus mackayi</i> (Five-clawed Worm-skink, Long-legged Worm-skink) and <i>Tympanocryptis pinguicollis</i> (Grassland Earless Dragon, South-eastern Lined Earless Dragon) to ensure that any individuals that might be present in the project area are identified and reported to the mine site environmental officer for recovery and release into suitable habitat.
I2	<p>The holder of this Environmental Authority must develop and implement a Conservation Management Plan for the riparian area of Lagoon Creek and existing stands of regional ecosystems RE11.8.5 and RE11.8.3 located on Bottle Tree Hill and submit the Plan to the Administering Authority and the Department of Resources within twelve months of the date this environmental authority takes effect. The Plan must for the two proposed conservation areas (Lagoon Creek and Bottle Tree Hill):</p> <ol style="list-style-type: none"> <li>ensure the combined surface area to be protected and enhanced is no less than the surface area of the regional ecosystems proposed to be cleared by mining activities on Mining Leases 50170 and 50216;</li> <li>develop appropriate conservation/rehabilitation objectives;</li> <li>outline suitable conservation/rehabilitation techniques (including those areas where local native plant species/communities are to be re-established and/or enhanced);</li> <li>develop an action plan/rehabilitation schedule for the planned conservation/rehabilitation activities;</li> <li>propose specific conservation/rehabilitation acceptance criteria (including those areas where local native plant species/communities are re-established and/or enhanced);</li> <li>detail a suitable monitoring program to quantify conservation/rehabilitation success (including those areas where local native plant species/communities are re-established and/or enhanced); and</li> <li>propose appropriate remedial actions for conservation/rehabilitation areas not achieving the required conservation/rehabilitation objectives.</li> </ol>
I3	<p><b>Biodiversity offsets</b></p> <p>Significant residual impacts to prescribed matters of state environmental significance must not exceed the maximum authorised residual impact area listed for that matter in <b>Table I1 - Maximum authorised impacts on matters of state environmental significance</b> and shown in <b>Figure 4 — Impact on vegetation and habitat</b>.</p> <p><b>Note:</b> Deemed conditions in Sections 18, 22, 24 and 25 of the <i>Environmental Offsets Act 2014</i> are taken to be conditions of this authority.</p>
I4	The holder of the environmental authority must provide an environmental offset for the following maximum significant residual impacts on matters of state environmental significance in accordance with the requirements of the <i>Environmental Offsets Act 2014</i> (including deemed conditions), the <i>Environmental Offsets Regulation 2014</i> and the <i>Queensland Environmental Offsets Policy</i> .

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Table 11 — Maximum authorised impacts on matters of state environmental significance (MSES)

<u>Applicable MSES</u>	<u>Status</u>	<u>Maximum area of residual impact (ha)</u>	<u>Environmental offset required</u>
<b><u>Threatened REs listed under the <i>Vegetation Management Act 1999</i></u></b>			
11.3.1#	Endangered	<u>2.58</u>	Yes
11.9.5#	Endangered	<u>24.53</u>	<u>Yes</u>
11.3.2	Of concern	<u>4.63</u>	Yes
11.3.17	Of concern	<u>5.11</u>	Yes
11.8.11#	Of concern	<u>34.65</u>	Yes
11.9.10	Of concern	<u>14.36</u>	Yes
<u>11.9.7</u>	<u>Of concern</u>	<u>3.24</u>	<u>Yes</u>
11.9.13	Of concern	<u>3.62</u>	Yes
<u>Watercourse vegetation</u> (11.8.11)	<u>Of concern</u>	<u>6.38</u>	<u>Yes</u>
<b><u>Threatened Fauna Species listed under the <i>Nature Conservation Act 1992</i></u></b>			
Koala <i>Phascolarctos cinereus</i>	<u>Vulnerable</u>	<u>30.96 of remnant vegetation and an additional 18.40 of NJKHTs*<sup>^</sup></u>	Yes
<b><u>Threatened Flora Species listed under the <i>Nature Conservation Act 1992</i></u></b>			
Belson's Panic# <i>Homopholis belsoni</i>	Endangered	70.8	Yes
<u>Austral Cornflower#</u> ( <u><i>Rhaponticum austral</i></u> )	<u>Vulnerable</u>	<u>0.7</u>	<u>Yes</u>

# These prescribed environmental values duplicate MNES values and, in the event of an Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) decision on the project, offsets for these matters may be conditioned for by the Commonwealth. Further, any offsets conditioned by the Commonwealth are likely to address offsetting for these matters as required by this environmental authority.

\* NJKHTs = Non-Juvenile Koala Habitat Trees.

<sup>^</sup> Based on the average tree density of 250 trees per hectare for koala habitat in SEQ used in the Queensland Environmental Offsets Policy (v1.8).

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>I5</b>	Residual impacts are not authorised on any Matters of State Environmental Significance not identified in <b>Table I1 — Maximum authorised impacts on matters of state environmental significance</b>
<b>I6</b>	<p><b>Environmental Offset Strategy (EOS)</b></p> <p>The environmental authority holder must provide the approved environmental offset strategy required by Imposed Condition 13 of the CG's report, to the administering authority within 20 business days of its being approved.</p>
<b>I7</b>	<p><b>Pre-clearance fauna and flora surveys</b></p> <p>Prior to commencement of any project construction activities, the environmental authority holder must conduct pre-clearance ecological surveys of areas to be impacted, consistent with:</p> <ul style="list-style-type: none"> <li>a) Queensland state government survey guidelines;</li> <li>b) Requirements of the <i>Nature Conservation Act 1992</i>; and</li> <li>c) Australian government threatened species guidelines.</li> </ul>
<b>I8</b>	<p>The surveys must be sufficient to identify the extent to which the following will be unavoidably impacted by the project:</p> <ul style="list-style-type: none"> <li>a) Protected wildlife listed under the <i>Nature Conservation Act 1992</i>;</li> <li>b) Matters of state environmental significance (MSES) as defined by the State Planning Policy; and</li> <li>c) MNES as listed under the EPBC Act</li> </ul>
<b>I9</b>	The surveys must include areas of potential foraging, roosting or nesting habitat for the painted honeyeater ( <i>Grantiella picta</i> ). If the painted honeyeater is found during pre-clearance surveys, then any significant impacts on its habitat may require additional offsets in accordance with the EOS for the project.
<b>I10</b>	If protected plants are found during pre-clearance surveys, then impacts may require a permit under the <i>Nature Conservation Act 1992</i> and offsets under the <i>Environmental Offsets Act 2014</i> .
<b>I11</b>	Should additional MSES species and communities be located that were not previously identified during field surveys, the development of management plans and/or additional offsets may be required to address any significant residual impacts for matters of state environmental significance in accordance with the EOS for the project.
<b>I12</b>	Notification of the discovery of additional protected plants or MSES species and communities will be impacted is to be provided to the administering authority within five business days of the discovery. The proponent is required to propose how the species is to be managed and to seek advice from the administering authority on the undertaking.
<b>I13</b>	Survey results must be included in an updated EOS for the project.
<b>I14</b>	Surveys must include area of potential habitat for the vulnerable pale imperial hairstreak butterfly — <i>Jalmenus eubulus</i> . If the pale imperial hairstreak is found during pre-clearance surveys, then any significant impacts on its habitat may require additional offsets in accordance with the EOS for the project.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>I15</b>	<p><b>Lagoon Creek Conservation Zone Management Plan (CZMP)</b></p> <p>The holder of the environmental authority holder must provide the Lagoon Creek Conservation Zone Management Plan, which is in accordance with <b>Imposed Condition 15</b> of the CG's report, to the administering authority, within 20 business days of it being approved.</p>
<b>I16</b>	<p><b>Koala Species Management Plan (KSMP)</b></p> <p>The holder of the environmental authority holder must provide the approved Koala species management plan, which is in accordance with <b>Imposed Condition 16</b> of the CG's report, to the administering authority, within 20 business days of it being approved.</p>

<b>Agency interest: Regulated Structures</b>	
<b>Condition number</b>	<b>Condition</b>
<b>J1</b>	<p><b>Regulated Dams and Levees</b></p> <p>The consequence category of any structure must be assessed by a suitably qualified and experienced person in accordance with the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933) at the following times:</p> <ul style="list-style-type: none"> <li>a) Prior to the design and construction of the structure, if it is not an existing structure; or</li> <li>b) Prior to any change in its purpose or the nature of its stored contents.</li> </ul>
<b>J2</b>	A consequence assessment report and certification must be prepared for each structure assessed and the report may include a consequence for more than one structure.
<b>J3</b>	Certification must be provided by the suitably qualified and experienced person who undertook the assessment, in the form set out in the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).
<b>J4</b>	<p><b>Design and construction of a regulated structure</b></p> <p><b>Conditions J5 to J9</b> inclusive do not apply to existing structures which were operational prior to this environmental authority taking effect.</p>
<b>J5</b>	All regulated structures must be designed by and constructed under the supervision of a suitable qualified and experienced person in accordance with the requirements of the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).
<b>J6</b>	<p>Construction of a regulated structure is prohibited unless:</p> <ul style="list-style-type: none"> <li>a) the holder has submitted a consequence category assessment report and certification to the administering authority ; and</li> <li>b) certification for the design, design plan and the associated operating procedures have been certified by a suitably qualified and experienced person in compliance with the relevant condition of this authority.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>J7</b>	Certification must be provided by the suitable qualified and experienced person who oversees the preparation of the design plan set out in the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933), and must be recorded in the Register of Regulated Structures.
<b>J8</b>	<p>Regulated structures must:</p> <ul style="list-style-type: none"> <li>a) be designed and constructed in compliance with the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i>(ESR/2016/1933);</li> <li>b) be designed and constructed with due consideration given to ensuring that the design integrity would not be compromised on account of: <ul style="list-style-type: none"> <li>i. floodwaters from entering a regulated structure from any watercourse or drainage line; and</li> <li>ii. wall failure due to erosion by floodwaters arising from any watercourse or drainage line;</li> </ul> </li> <li>c) have the floor and sides of the structure designed and constructed to prevent or minimise the passage of the wetting front and any entrained contaminants through either the floor or sides of the structure during the operational life of the structure and for any period of decommissioning and rehabilitation of the structure .</li> </ul>
<b>J9</b>	<p>Certification by the suitable qualified and experienced person who supervises the construction must be submitted to the administering authority on the completion of construction of the regulated structure and state that:</p> <ul style="list-style-type: none"> <li>a) The 'as constructed' drawings and specifications meet the original intent of the design plan for that regulated structure; and</li> <li>b) Construction of the regulated structure is in accordance with the design plan.</li> </ul>
<b>J10</b>	<p><b>Operation of a regulated structure</b></p> <p>Operation of a regulated structure, except for an existing structure, is prohibited unless the holder has submitted to the administering authority in respect of regulated structures, all of the following:</p> <ul style="list-style-type: none"> <li>a) One paper copy and one electronic copy of the design plan and certification of the 'design plan' in accordance with <b>Condition J6</b>;</li> <li>b) A set of 'as constructed' drawings and specifications;</li> <li>c) Certification of those 'as constructed drawings and specifications' in accordance with <b>Condition J9</b>,</li> <li>d) Where the regulated structure is to be managed as part of an integrated containment system for the purpose of sharing the DSA volume across the system, a copy of the certified system design plan;</li> <li>e) The requirements of this authority relating to the construction of the regulated structure have been met; and</li> <li>f) The holder has entered the details required under this authority into a Register of Regulated Structures; and</li> <li>g) There is a current operational plan for the regulated structure.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>J11</b>	<p>For existing structures that are regulated structures:</p> <p>a) Where the existing structure that is a regulated structure is to be managed as part of an integrated containment system for the purposes of sharing DSA volume across the system, the holder must submit to the administering authority within <b>12 months</b> of construction of the structure, a copy of the certified system design plan; and</p> <p>b) There must be a current operational plan for the existing structures.</p>
<b>J12</b>	<p>Each regulated structure must be maintained and operated for the duration of its operational life until decommissioned and rehabilitated in a manner that is consistent with the current operational plan and if applicable the current design plan and associated certified 'as constructed' drawings.</p>
<b>J13</b>	<p><b>Mandatory reporting level</b></p> <p><b>Conditions J14 to J17</b> inclusive apply to Regulated Dams which have not been certified as low consequence category for 'failure to contain — overtopping'.</p>
<b>J14</b>	<p>The Mandatory Reporting Level (the MRL) must be marked on a regulated dam in such a way that during routine inspections of the dam it is clearly observable.</p>
<b>J15</b>	<p>The holder must, as soon as practical and <b>within forty-eight (48) hours</b> of becoming aware, notify the administering authority when the level of the contents of a regulated dam reaches the MRL.</p>
<b>J16</b>	<p>The holder must, immediately on becoming aware that the MRL has been reached, act to prevent the occurrence on any unauthorised discharges from the regulated dam.</p>
<b>J17</b>	<p>The holder must record any changes to the MRL in the Register of Regulated Structures.</p>
<b>J18</b>	<p><b>Design storage allowance</b></p> <p>The holder must assess the performance of each regulated dam or linked containment system over the preceding November to May period based on actual observations of the available storage in each regulated dam or linked containment system taken <b>prior to 1 July of each year</b>.</p>
<b>J19</b>	<p><b>By 1 November of each year</b>, storage capacity must be available in each regulated dam (or network of linked containment systems with a shared DSA volume) to meet the Design Storage Allowance (DSA) volume of the dam (or network of linked containment systems).</p>
<b>J20</b>	<p>The holder must, as soon as possible and <b>within forty-eight (48) hours</b> of becoming aware that the regulated dam (or network of linked containment system) will not have the available storage to meet the DSA volume on 1 November of any year, notify the administering authority.</p>
<b>J21</b>	<p>The holder must, immediately on becoming aware that a regulated dam (or network of linked containment systems) will not have the available storage to meet the DSA volume on 1 November of any year, act to prevent the occurrence of any unauthorised discharge from the regulated dam or linked containment systems.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>J22</b>	<p><b>Annual inspection report</b></p> <p>Each regulated structure must be inspected each calendar year by a suitably qualified and experienced person.</p>
<b>J23</b>	<p>At each inspection the condition and adequacy of all components of the regulated structure must be assessed and a suitably qualified and experienced person must prepare an annual inspection report containing details of the assessment and include a recommendations section, with any recommended actions to ensure the integrity of the regulated structure or a positive statement that no recommendations are required.</p>
<b>J24</b>	<p>The suitably qualified and experienced person who prepared the annual inspection report must certify the report in accordance with the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).</p>
<b>J25</b>	<p>The holder must within 20 business days of receipt of the annual inspection report provide to the administering authority:</p> <ol style="list-style-type: none"> <li>1. the recommendations section of the annual inspection report; and</li> <li>2. if applicable, any actions being taken in response to those recommendations; and</li> <li>3. if, following receipt of the recommendations and (if applicable) recommended actions, the administering authority requests a full copy of the annual inspection report from the holder, provide this to the administering authority within 10 business days of receipt of the request.</li> </ol>
<b>J26</b>	<p><b>Transfer arrangements</b></p> <p>The holder must provide a copy of any reports, documentation and certifications prepared under this authority, including but not limited to the Register of Regulated Structures, consequence assessment, design plan and other supporting documentation, to a new holder on transfer of this authority.</p>
<b>J27</b>	<p><b>Decommissioning and rehabilitation</b></p> <p>Regulated structures must not be abandoned but be either:</p> <ol style="list-style-type: none"> <li>a) Decommissioned and rehabilitated to achieve compliance with <b>Condition J28</b>; or</li> <li>b) Be left in-situ for a beneficial use(s) provided that: <ol style="list-style-type: none"> <li>1. it no longer contains contaminants that will migrate into the environment; and</li> <li>2. it contains water of a quality that is demonstrated to be suitable for the intended beneficial use(s); and</li> <li>3. the administering authority, the holder of the environmental authority and the landholder agree in writing that <ol style="list-style-type: none"> <li>i. the dam will be used by the landholder following cessation of environmentally relevant activity(ies); and</li> <li>ii. the landholder is responsible for the dam, on and from an agreed date</li> </ol> </li> </ol> </li> </ol>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>J28</b>	<p>Unless specified by another condition of this environmental authority, before surrendering this environmental authority all regulated structures must be rehabilitated to achieve a safe, stable, non-polluting landform and must be rehabilitated to meet the final acceptance criteria:</p> <p>a) For land that is not being cultivated by the landholder:</p> <ul style="list-style-type: none"> <li>i. groundcover, that is not a declared pest species is established and self-sustaining</li> <li>ii. vegetation of similar species richness and species diversity to pre-selected analogue sites is established and self-sustaining, and</li> <li>iii. the maintenance requirements for rehabilitated land is no greater than that required for the land prior to its disturbance caused by carrying out the mining activities</li> </ul> <p>b) For land that is to be cultivated by the landowner, cover crop is revegetated, unless the landholder will be preparing the site for cropping <b>within 3 months</b> of mining activities being completed.</p>
<b>J29</b>	<p><b>Register of Regulated Structures</b></p> <p>A Register of Regulated Structures must be established and maintained by the holder for each regulated structure.</p>
<b>J30</b>	<p>The holder must provisionally enter the required information in the Register of Regulated Structures when a design plan for a regulated structure is submitted to the administering authority.</p>
<b>J31</b>	<p>The holder must make a final entry of the required information in the Register of Regulated Structures once compliance with <b>Conditions J8</b> and <b>J9</b> has been achieved.</p>
<b>J32</b>	<p>The holder must ensure that the information contained in the Register of Regulated Structures is current and complete on any given day.</p>
<b>J33</b>	<p>All entries in the Register of Regulated Structures must be approved by the chief executive officer for the holder of this authority, or their delegate, as being accurate and correct.</p>
<b>J34</b>	<p>The holder must, at the same time as providing the annual return, supply to the administering authority a copy of the records contained in the Register of Regulated Structures, in the electronic format required by the administering authority.</p>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

Agency interest: Light	
Condition number	Condition
<b>K1</b>	Subject to <b>Condition K2</b> , the emission of light resulting from the mining activity must not cause an environmental nuisance at any sensitive place.
<b>K2</b>	<p>When requested by the administering authority, an assessment of the light nuisance* must be undertaken within a reasonable and practicable timeframe nominated by the administering authority to investigate any complaint (which is neither frivolous nor vexatious based on mistaken belief in the opinion of the authorised officer) of environmental nuisance at any sensitive place, and the results must be notified within 14 days of the administering authority following completion of the assessment.</p> <p>(* Assessment to be conducted according to and with reference to the limits specified in AS/NZS 4282:2019 Control of the Obtrusive Effects of Outdoor lighting).</p>
<b>K3</b>	<p>If the assessment indicates Condition <b>K2</b> is not being met then the environmental authority holder must:</p> <ol style="list-style-type: none"> <li>a) address the complaint including the use of appropriate dispute resolution if required; or</li> <li>b) immediately implement light abatement measures so the emissions of light from the activity do not result in further environmental nuisance.</li> </ol>

Agency interest: Community	
Condition number	Condition
<b>L1</b>	<p><b>Complaints</b></p> <p>The holder of this environmental authority must record all environmental complaints received about the mining activities including:</p> <ol style="list-style-type: none"> <li>a) name, address and contact number for of the complainant;</li> <li>b) time and date of complaint;</li> <li>c) reasons for the complaint;</li> <li>d) investigations undertaken;</li> <li>e) conclusions formed;</li> <li>f) actions taken to resolve the complaint;</li> <li>g) any abatement measures implemented;</li> <li>h) person responsible for resolving the complaint; and</li> <li>i) records of any referrals to an independent counselling service.</li> </ol> <p>The information as outlined in <b>Condition L1 (a) to (i)</b> with the consent of the complainant must be sent to the administering authority (and the complainant) within 28 days of the action taken to resolve the complaint.</p>
<b>L2</b>	The holder of this environmental authority must, when requested by the administering authority, undertake relevant specified monitoring within a reasonable timeframe

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	nominated or agreed to by the administering authority to investigate any complaint of environmental harm. The results of the investigation (including an analysis and interpretation of the monitoring results) and abatement measures, where implemented, must be provided to the administering authority <b>within 10 business days</b> of completion of the investigation, or no later than 10 business days after the end of the timeframe nominated by the administering authority to undertake the investigation.
<b>L3</b>	<p><b>Notification of emergencies, incidents and exceptions</b></p> <p>The holder of this environmental authority must notify the administering authority by written notification <b>within 24 hours</b> after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with, the conditions of this environmental authority.</p>
<b>L4</b>	<p><b>Within 10 business days</b> following the initial notification of an emergency or incident, or receipt of monitoring results, whichever is the later, further written advice must be provided to the administering authority, including the following:</p> <ul style="list-style-type: none"> <li>a) results and interpretation of any samples taken and analysed;</li> <li>b) outcomes of actions taken at the time to prevent or minimise unlawful environmental harm; and</li> <li>c) proposed actions to prevent a recurrence of the emergency or incident.</li> </ul>
<b>L5</b>	At the completion of mining, the environmental authority holder must apply to the relevant authority to restore or provide alternative road access to Acland Township, in particular to the war memorial.
<b>L6</b>	The environmental authority holder must provide an independent counselling service accessible to all local landowners located within 5km of the mining lease boundary to deal with concerns, stress and emotional distress associated with mining activities.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

### Definitions

<b>acid rock drainage</b>	any contaminated discharge emanating from a mining activity formed through a series of chemical and biological reactions, when geological strata is disturbed and exposed to oxygen and moisture.
<b>acceptance criteria</b>	<p>means the measures by which actions implemented are deemed to be complete. The acceptance criteria indicate the success of the decommissioning and rehabilitation outcomes or remediation of areas which have been significantly been disturbed by the mining activities. Acceptance criteria may include information regarding:</p> <ul style="list-style-type: none"> <li>- stability of final land forms in terms of settlement, erosion, weathering, pondage and drainage;</li> <li>- control of geochemical and contaminant transport processes;</li> <li>- quality of runoff waters and potential impact on receiving environment;</li> <li>- vegetation establishment, survival and succession;</li> <li>- vegetation productivity, sustained growth and structure development;</li> <li>- fauna colonisation and habitat development;</li> <li>- ecosystem processes such as soil development and nutrient cycling, and the recolonisation of specific fauna groups such as collembola, mites and termites which are involved in these processes;</li> <li>- microbiological studies including recolonisation by mycorrhizal fungi, microbial biomass and respiration;</li> <li>- effects of various establishment treatments such as deep ripping, topsoil handling, seeding and fertiliser application on vegetation growth and development;</li> <li>- resilience of vegetation to disease, insect attack, drought and fire;</li> <li>- vegetation water use and effects on ground water levels and catchment yields.</li> </ul>
<b>administering authority</b>	means the Environmental Protection Agency or its successor.
<b>affected person</b>	someone whose drinking water can potentially be impacted as a result of discharges from a dam or their life can be put at risk due to dwellings or workplaces being in the path of a dam break flood.
<b>airblast overpressure</b>	energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels linear (dBL).
<b>air emission</b>	means a substance released into the air.
<b>air environment</b>	means the part of the environment of an area or place characterised by the air emissions that may be experienced there.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>ambient (or total) noise</b>	at a place, means the level of noise at the place from all sources (near and far), measured as the Leq for an appropriate time interval
<b>appropriately qualified person</b>	a person who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis on performance relating to the subject matter using the relevant protocols, standards, methods or literature.
<b>annual inspection report</b>	<p>an assessment prepared by a suitably qualified and experienced person containing details of the assessment against the most recent consequence assessment report and design plan (or system design plan):</p> <ul style="list-style-type: none"> <li>• against recommendations contained in previous annual inspections reports;</li> <li>• against recognised dam safety deficiency indicators;</li> <li>• for changes in circumstances potentially leading to a change in consequence category;</li> <li>• for conformance with the conditions of this authority;</li> <li>• for conformance with the 'as constructed' drawings;</li> <li>• for the adequacy of the available storage in each regulated dam, based on an actual observation or observations taken after 31 May each year but prior to 1 November of that year, of accumulated sediment, state of the containment barrier and the level of liquids in the dam (or network of linked containment systems);</li> <li>• for evidence of conformance with the current operational plan.</li> </ul>
<b>Annual Exceedance Probability or AEP</b>	the probability that at least one event in excess of a particular magnitude will occur in any given year
<b>appropriately qualified person</b>	means a person or body possessing appropriate experience and qualifications to perform these tasks.
<b>assessed or assessment by a suitably qualified and experienced person in relation to a consequence assessment of a structure</b>	<p>a statutory declaration has been made by that person and, when taken together with any attached or appended documents referenced in that declaration, all of the following aspects are addressed and are sufficient to allow an independent audit of the assessment:</p> <ul style="list-style-type: none"> <li>• exactly what has been assessed and the precise nature of that determination;</li> <li>• the relevant legislative, regulatory and technical criteria on which the assessment has been based;</li> <li>• the relevant data and facts on which the assessment has been based, the source of that material, and the efforts made to obtain all relevant data and facts; and</li> <li>• the reasoning on which the assessment has been based using the relevant data and facts, and the relevant criteria.</li> </ul>
<b>associated works in relation to a structure</b>	operations of any kind and all things constructed, erected or installed for that structure; and

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	any land used for those operations.
<b>authority</b>	an environmental authority or a development approval.
<b>background</b> , with reference to the water schedule	the average of samples taken prior to the commencement of mining from the same waterway that the current sample has been taken.
<b>background noise level</b>	means noise, measured in the absence of the noise under investigation, as either: <ul style="list-style-type: none"> <li>• L A90,T being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or</li> <li>• L LA<sub>bg</sub>,T being the arithmetic average of the minimum readings during a representative time period of not less than 15 minutes, using Fast response.</li> </ul>
<b>blasting</b>	the use of explosive materials to fracture: <ul style="list-style-type: none"> <li>• rock, coal and other minerals for later recovery; or</li> <li>• structural components or other items to facilitate removal from a site or for reuse.</li> </ul>
<b>Certification</b>	assessment and approval must be undertaken by a suitably qualified and experienced person in relation to any assessment or documentation required by the <i>Manual (Manual for Assessing Consequence Categories and Hydraulic Performance of Structures (ESR/2016/1933))</i> . including design plans, 'as constructed' drawings and specifications, construction, operation or an annual report regarding regulated structures, undertaken in accordance with the Board of Professional Engineers of Queensland Policy Certification by RPEQs (ID: 1.4 (3A)).
<b>Certifying, certify or certified</b>	a corresponding meaning as certification
<b>chemical</b>	<ul style="list-style-type: none"> <li>• an agricultural chemical product or veterinary chemical product within the meaning of the <i>Agricultural and Veterinary Chemicals Code Act 1994</i> (Commonwealth); or</li> <li>• a dangerous good under the Australian Code for the Transport of Dangerous Goods by Road and Rail approved by the Australian Transport Council; or</li> <li>• a lead hazardous substance within the meaning of the Workplace Health and Safety Regulation 1997;</li> <li>• a drug or poison in the Standard for the Uniform Scheduling of Medicines and Poisons prepared by the Australian Health Ministers Advisory Council and published by the Commonwealth; or</li> <li>• any substance used as, or intended for use as: <ul style="list-style-type: none"> <li>– a pesticide, insecticide, fungicide, herbicide, rodenticide, nematocide, miticide, fumigant or related product; or</li> <li>– a surface active agent, including, for example, soap or related detergent; or</li> </ul> </li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<ul style="list-style-type: none"> <li>– a paint solvent, pigment, dye, printing ink, industrial polish, adhesive, sealant, food additive, bleach, sanitiser, disinfectant, or biocide; or</li> <li>– a fertiliser for agricultural, horticultural or garden use; or</li> <li>– a substance used for, or intended for use for mineral processing or treatment of metal, pulp and paper, textile, timber, water or wastewater; or</li> <li>– manufacture of plastic or synthetic rubber.</li> </ul>
<b>Compliance Bore</b>	Refers to a groundwater monitoring bore which is the subject of compliance requirements for both groundwater quality and level.
<b>commercial place</b>	a workplace used as an office or for business or commercial purposes, which is not part of the mining activity and does not include employee accommodation or public roads.
<b>Consequence</b> in relation to a structure as defined	the potential for environmental harm resulting from the collapse or failure of the structure to perform its primary purpose of containing, diverting or controlling flowable substances.
<b>Consequence category</b>	a category, either low, significant or high, into which a structure is assessed as a result of the application of tables and other criteria in the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).
<b>construction or constructed</b> in relation to a dam	includes building a new structure and modifying or lifting an existing structure, but does not include investigations and testing necessary for the purpose of preparing a design plan.
<b>dam</b>	a land-based structure or a void that contains, diverts or controls flowable substances, and includes any substances that are thereby contained, diverted or controlled by that land-based structure or void and associated works.
<b>dam crest volume</b>	the volume of material (liquids and/or solids) that could be within the walls of a dam at any time when the upper level of that material is at the crest level of that dam. That is, the instantaneous maximum volume within the walls, without regard to flows entering or leaving (for example, via spillway).
<b>dB (Linear) Peak</b>	is the maximum reading in decibels (dB) obtained using the "P" time — weighting characteristic as specified in AS 1259.1 — 1990 with all frequency — weighted networks inoperative
<b>declared plant</b>	means a plant that has been declared under the <i>Rural Lands Protection Act 1985</i>
<b>design plan</b>	a document setting out how all identified consequence scenarios are addressed in the planned design and operation of a regulated structure.
<b>design storage allowance or DSA</b>	an available volume, estimated in accordance with the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933) published by the administering authority, must be provided in a dam as at 1 November each year in order to

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	prevent a discharge from that dam to an <b>annual exceedance probability (AEP)</b> specified in that Manual.
<b>designer</b> for the purposes of a regulated structure	the certifier of the design plan for the regulated structure.
<b>development approval</b>	a development approval under the <i>Integrated Planning Act 1997</i> or the <i>Sustainable Planning Act 2009</i> in relation to a matter that involves an environmentally relevant activity under the <i>Environmental Protection Act 1994</i> .
<b>disturbance of land</b>	<p>includes:</p> <ul style="list-style-type: none"> <li>• compacting, removing, covering, exposing or stockpiling of earth;</li> <li>• removal or destruction of vegetation or topsoil or both to an extent where the land has been made susceptible to erosion;</li> <li>• carrying out mining within a watercourse, waterway, wetland or lake;</li> <li>• the submersion of areas by tailings or hazardous contaminant storage and dam/structure walls;</li> <li>• temporary infrastructure, including any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc.) which is to be removed after the mining activity has ceased; or</li> <li>• releasing of contaminants into the soil, or underlying geological strata.</li> </ul> <p>However, the following areas are not included when calculating areas of disturbance:</p> <ul style="list-style-type: none"> <li>• areas off lease (e.g. roads or tracks which provide access to the mining lease);</li> <li>• areas previously disturbed which have achieved the rehabilitation outcomes;</li> <li>• by agreement with the administering authority, areas previously disturbed which have not achieved the rehabilitation objective(s) due to circumstances beyond the control of the mine operator (such as climatic conditions);</li> <li>• areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dam/structures, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be left by agreement with the landowner;</li> <li>• disturbance that pre-existed the grant of the tenure.</li> </ul>
<b>EC</b>	electrical conductivity.
<b>effluent</b>	treated waste water released from sewage treatment plants.
<b>emergency action plan</b>	documentation forming part of the operational plan held by the holder or a nominated responsible officer, that identifies emergency conditions that sets out procedures and actions that will be followed and taken by

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	the structure owner and operating personnel in the event of an emergency. The actions are to minimise the risk and consequences of failure, and ensure timely warning to downstream communities and the implementation of protection measures. The plan must require structure owners to annually update contact.
<b>environmental authority holder</b>	means the holder of this environmental authority
<b>environmental nuisance</b>	is unreasonable interference or likely interference with an environmental value caused by: <ul style="list-style-type: none"> <li>a) noise, dust, odour, light; or</li> <li>b) an unhealthy, offensive or unsightly condition because of contamination; or</li> <li>c) another way prescribed by regulation.</li> </ul>
<b>existing structure</b>	a structure that was in existence prior to the adoption of this schedule of conditions under the authority.
<b>Extreme Storm Storage</b>	a storm storage allowance determined in accordance with the criteria in the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933) published by the administering authority
<b>first flush diverter system</b>	First flush diverter systems are to prevent bird droppings and dust entering rainwater tank and first rains.
<b>flowable substance</b>	matter or a mixture of materials which can flow under any conditions potentially affecting that substance. Constituents of a flowable substance can include water, other liquids fluids or solids, or a mixture that includes water and any other liquids fluids or solids either in solution or suspension.
<b>foreseeable future</b>	is the period used for assessing the total risk of an event occurring. Permanent structures and ecological sustainability should be expected to still exist at the end of a 150 year foreseeable future with an acceptable risk of failure before that time.
<b>hazard category</b>	a category, either low significant or high, into which a dam is assessed as a result of the application of tables and other criteria in <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).
<b>holder</b>	<ul style="list-style-type: none"> <li>• where this document is an environmental authority, any person who is the holder of, or is acting under, that environmental authority; or</li> <li>• where this document is a development approval, any person who is the registered operator for that development approval.</li> </ul>
<b>hydraulic performance</b>	the capacity of a regulated structure to contain or safely pass flowable substances based on the design criteria specified for the relevant consequence category in the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933).

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>Interpretation bore</b>	Refers to a groundwater monitoring bore that represents natural background quality and levels which is used for comparative and interpretative purposes against compliance bores. An interpretation bore should not be impacted by mining activities.
<b>infrastructure</b>	water storage dams, levees, roads and tracks, buildings and other structures built for the purpose of the mining activity.
<b>land</b> in the land schedule of this document	land excluding waters and the atmosphere, that is, the term has a different meaning from the term as defined in the <i>Environmental Protection Act 1994</i> . For the purposes of the <i>Acts Interpretation Act 1954</i> , it is expressly noted that the term land in this environmental authority relates to physical land and not to interests in land.
<b>land capability</b>	as defined in the DME 1995 Technical Guidelines for the Environmental Management of Exploration and Mining in Queensland
<b>land suitability</b>	as defined in the DME 1995 Technical Guidelines for the Environmental Management of Exploration and Mining in Queensland.
<b>land use</b>	the selected post mining use of the land, which is planned to occur after the cessation of mining operations.
<b>L<sub>Aeq,adj</sub> 15 min intervals</b>	A-weighted equivalent continuous sound level over 15 minute intervals
<b>L<sub>Ar</sub>, 1 hour</b>	means the specific noise level measured as the A-weighted equivalent continuous noise level (L <sub>Aeq</sub> ) plus any adjustment for the character of the noise (tonal and/or impulsive) determined over a reference time period of one hour
<b>L<sub>A10,adj</sub>, 15 min</b>	A-weighted, sound level just exceeded for 10% of the 15 minute period
<b>leachate</b>	a liquid that has passed through or emerged from, or is likely to have passed through or emerged from, a material stored, processed or disposed of at the operational land which contains soluble, suspended or miscible contaminants likely to have been derived from the said material.
<b>levee</b>	an embankment that only provides for the containment and diversion of stormwater or flood flows from a contributing catchment, or containment and diversion of flowable materials resulting from releases from other works, during the progress of those stormwater or flood flows or those releases; and does not store any significant volume of <b>water</b> or <b>flowable substances</b> at any other times.
<b>licensed place</b>	the mining activities carried out at the mining tenements detailed in this environmental authority.
<b>low consequence dam</b>	any dam that is not a high or significant consequence category as assessed using the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures (ESR/2016/1933)</i>
<b>m</b>	metres
<b>mandatory reporting level or MRL</b>	a warning and reporting level determined in accordance with the criteria in the <i>Manual for Assessing Consequence Categories and Hydraulic</i>

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**


---

	<i>Performance of Structures</i> (ESR/2016/1933) published by the administering authority.
<b>manual</b>	the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933) published by the administering authority.
<b>maximum</b>	means that the measured value of the quality characteristic or contaminant must not be greater than the release limit stated
<b>Maximum Instantaneous Charge (MIC)</b>	is the maximum amount of explosive on any one specific delay detonator in any one blast hole.
<b>LA max</b>	means the maximum A-weighted sound pressure level measured over a time period of not less than 15 minutes, using Fast response
<b>measures</b>	includes any measures to prevent or minimise environmental impacts of the mining activity such as bunds, silt fences, diversion drains, capping, and containment systems.
<b>median</b>	means the middle value, where half the data are smaller, and half the data are larger. If the number of samples is even, the median is the arithmetic average of the two middle values
<b>mg/kg</b>	means milligrams per kilogram
<b>mg/L</b>	means milligrams per litre

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>mine-affected water</b>	<p>the following types of water:</p> <ol style="list-style-type: none"> <li>i. pit water, tailings dam water, processing plant water;</li> <li>ii. water contaminated by a mining activity which would have been an environmentally relevant activity under Schedule 2 of the Environmental Protection Regulation 2019 if it had not formed part of the mining activity;</li> <li>iii. rainfall runoff which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated, excluding rainfall runoff discharging through release points associated with erosion and sediment control structures that have been installed in accordance with the standards and requirements of an Erosion and Sediment Control Plan to manage such runoff, provided that this water has not been mixed with pit water, tailings dam water, processing plant water or workshop water;</li> <li>iv. groundwater which has been in contact with any areas disturbed by mining activities which have not yet been rehabilitated;</li> <li>v. groundwater from the mines dewatering activities;</li> <li>vi. a mix of mine affected water (under any of paragraphs i-v, above) and other water.</li> </ol> <p>does not include surface water runoff which, to the extent that it has been in contact with areas disturbed by mining activities that have not yet been completely rehabilitated, has only been in contact with:</p> <ul style="list-style-type: none"> <li>• land that has been rehabilitated to a stable landform and either capped or revegetated in accordance with the acceptance criteria set out in the environmental authority but only still awaiting maintenance and monitoring of the rehabilitation over a specified period of time to demonstrate rehabilitation success; or</li> <li>• land that has partially been rehabilitated and monitoring demonstrates the relevant part of the landform with which the water has been in contact does not cause environmental harm to waters or groundwater, for example: <ul style="list-style-type: none"> <li>– areas that are been capped and have monitoring data demonstrating hazardous material adequately contained with the site;</li> <li>– evidence provided through monitoring that the relevant surface water would have met the water quality parameters for mine affected water release limits in this environmental authority, if those parameters had been applicable to the surface water runoff; or</li> <li>– both.</li> </ul> </li> </ul>
<b>minimum</b>	means that the measured value of the quality characteristic or contaminant must not be less than the release limit stated
<b>modification or modifying</b>	see definition of construction
<b>NATA</b>	National Association of Testing Authorities, Australia.

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>natural flow</b>	the flow of water through waters caused by nature.
<b>ng/L</b>	means nanograms per litre
<b>noise sensitive place</b>	<p>means:</p> <ul style="list-style-type: none"> <li>• a legal dwelling, caravan park, residential marina or other residential premises; or</li> <li>• a motel, hotel or hostel; or</li> <li>• a kindergarten, school, university or other educational institution; or</li> <li>• a medical centre or hospital; or</li> <li>• a protected area; or</li> <li>• a public park or gardens; and</li> <li>• includes the curtilage of any such place.</li> </ul> <p>but does not include</p> <p>(a) places that are within the boundaries of the mining lease; or</p> <p>(b) places that are owned or leased by the holder of the environmental authority or its related companies; or</p> <p>(c) places for which an agreement has been entered into between the holder of the environmental authority and the owner of the place for the provision of alternative measures to mitigate the impact of mining activities for the Stage 3 New Acland Mine Project at the place, where those measures are reasonably expected to result in noise levels experienced at the place that are consistent with the relevant limits in Table F1 - Noise Limits.</p>
<b>non polluting</b>	having no adverse impacts upon the receiving environment.
<b>noxious</b>	means harmful or injurious to health or physical well being, other than trivial harm
<b>offensive</b>	means causing unreasonable offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive, other than trivial harm.
<b>operational plan</b>	<p>includes:</p> <ul style="list-style-type: none"> <li>• normal operating procedures and rules (including clear documentation and definition of process inputs in the DSA allowance);</li> <li>• contingency and emergency action plans including operating procedures designed to avoid and/or minimise environmental impacts including threats to human life resulting from any overtopping or loss of structural integrity of the regulated structure.</li> </ul>
<b>peak particle velocity (ppv)</b>	a measure of ground vibration magnitude which is the maximum rate of change of ground displacement with time, usually measured in millimetres/second (mm/s).

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>protected area</b>	means: <ul style="list-style-type: none"> <li>• a protected area under the <i>Nature Conservation Act 1992</i>; or</li> <li>• a marine park under the <i>Marine Parks Act 2004</i>; or</li> <li>• a World Heritage Area.</li> </ul>
<b>progressive rehabilitation</b>	means rehabilitation (defined below) undertaken progressively OR a staged approach to rehabilitation as mining operations are ongoing
<b>range</b>	means that the measured value of the quality characteristic or contaminant must not be greater than the higher release limit stated nor lower than the lower release limit stated
<b>receiving environment</b> in relation to an activity that causes or may cause environmental harm	the part of the environment to which the harm is, or may be, caused. The receiving environment includes (but is not limited to): <ul style="list-style-type: none"> <li>• a watercourse;</li> <li>• groundwater; and</li> <li>• an area of land.</li> </ul>
<b>receiving waters</b>	the waters into which this environmental authority authorises releases of mine affected water.
<b>Register of Regulated Structure</b>	includes: <ul style="list-style-type: none"> <li>• Date of entry in the register;</li> <li>• Name of the structure, its purpose and intended/actual contents;</li> <li>• The consequence category of the structure as assessed using the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933);</li> <li>• Dates, names, and reference for the design plan plus dates, names, and reference numbers of all document(s) lodged as part of a design plan for the structure;</li> <li>• Name and qualifications of the suitably qualified and experienced person who certified the design plan and as constructed drawings;</li> <li>• For regulated dams only, - <ol style="list-style-type: none"> <li>a) The dimensions (metres) and surface area (hectares) of the dam measured at the footprint of the dam;</li> <li>b) Coordinates (latitude and longitude in GDA94) within five metres at any point from the outside of the dam including its storage area</li> <li>c) Dam crest volume (megalitres);</li> <li>d) Spillway crest level (metres AHD).</li> <li>e) Maximum operating level (metres AHD);</li> <li>f) Storage rating table of stored volume versus level (metres AHD);</li> </ol> </li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	<p>g) Design storage allowance (megalitres) and associated level of the dam (metres AHD);</p> <p>h) Mandatory reporting level (metres AHD);</p> <ul style="list-style-type: none"> <li>• The design plan title and reference relevant to the dam;</li> <li>• The date construction was certified as compliant with the design plan;</li> <li>• The name and details of the suitably qualified and experienced person who certified that the constructed dam was compliant with the design plan;</li> <li>• Details of the composition and construction of any liner;</li> <li>• For regulated dams only the system for the detection of any leakage through the floor and sides of the dam;</li> <li>• Dates when the regulated dam underwent an annual inspection for structural and operational adequacy, and to ascertain the available storage volume for 1 November of any year;</li> <li>• Dates when recommendations and actions arising from the annual inspection were provided to the administering authority;</li> <li>• Dam water quality as obtained from any monitoring required under this authority as at 1 November of each year.</li> </ul>
<b>rehabilitation</b>	the process of reshaping and revegetating land to restore it to a stable landform
<b>release event</b>	a surface water discharge from mine affected water storages or contaminated areas on the licensed place.
<b>RL</b>	reduced level, relative to mean sea level as distinct from depths to water.
<b>representative</b>	a sample set which covers the variance in monitoring or other data either due to natural changes or operational phases of the mining activities.
<b>regulated dam</b>	any dam in the significant or high consequence category as assessed using the <i>Manual for Assessing Consequence Categories and Hydraulic Performance of Structures</i> (ESR/2016/1933) published by the administering authority.
<b>regulated structure</b>	includes land-based containment structures, levees, bunds and voids, but not a tank or container designed and constructed to an Australian Standard that deals with strength and structural integrity.
<b>residual drilling material</b>	waste drilling materials including muds and cuttings or cement returns from well holes and which have been left behind after the drilling fluids are pumped out.
<b>residual void</b>	means an open pit resulting from the removal of ore and/or waste rock, which will remain following the cessation of all mining activities and completion of rehabilitation processes

## Draft environmental authority EPML00335713 — New Acland Coal Mine

<b>saline drainage</b>	the movement of waters, contaminated with salts, as a result of the mining activity.
<b>self sustaining</b>	means an area of land which has been rehabilitated and has maintained the required acceptance criteria without human intervention for a period nominated by the administering authority.
<b>sensitive place</b>	<ul style="list-style-type: none"> <li>• a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or</li> <li>• a motel, hotel or hostel; or</li> <li>• an educational institution; or</li> <li>• a medical centre or hospital; or</li> <li>• a protected area under the <i>Nature Conservation Act 1992</i>, the <i>Marine Parks Act 2004</i> or a World Heritage Area; or</li> <li>• a public park or gardens.</li> </ul>
<b>Structure</b>	dam or levee.
<b>Spillway</b>	a weir, channel, conduit, tunnel, gate or other structure designed to permit discharges from the dam, normally under flood conditions or in anticipation of flood conditions.
<b>spillway crest</b>	means the highest point (elevation) of the spillway, above which water will flow along the spillway and discharge from the dam if the flow rate is sufficient
<b>stable</b>	means land form dimensions are or will be stable within tolerable limits now and in the foreseeable future. Stability includes consideration of geotechnical stability, settlement and consolidation allowances, bearing capacity (traffic ability), erosion resistance and geochemical stability with respect to seepage and contaminant generation
<b>Stage 3 New Acland mine project</b>	means the Stage 3 New Acland mine project that was approved in the CG's report.
<b>suitably qualified and experienced person in relation to air emissions</b>	A person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the <i>Professional Engineers Act 2002</i> , and has demonstrated competency and relevant experience in relation to air emissions.
<b>suitably qualified and experienced person in relation to noise</b>	A person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the <i>Professional Engineers Act 2002</i> , and has demonstrated competency and relevant experience as an acoustician.
<b>suitably qualified and experienced person in relation to regulated structures</b>	<p>a person who is a Registered Professional Engineer of Queensland (RPEQ) under the provisions of the <i>Professional Engineers Act 2002</i>, and has demonstrated competency and relevant experience:</p> <ul style="list-style-type: none"> <li>• for regulated dams, an RPEQ who is a civil engineer with the required qualifications in dam safety and dam design.</li> <li>• for regulated levees, an RPEQ who is a civil engineer with the required qualifications in the design of flood protection embankments.</li> </ul>

## Draft environmental authority EPML00335713 — New Acland Coal Mine

	Note: It is permissible that a suitably qualified and experienced person obtain subsidiary certification from an RPEQ who has demonstrated competence and relevant experience in either geomechanics, hydraulic design or engineering hydrology.
<b>system design plan</b>	a plan that manages an integrated containment system that shares the required DSA and/or ESS volume across the integrated containment system.
<b>the Act</b>	the <i>Environmental Protection Act 1994</i> .
<b>tolerable limits</b>	means that a range of values could be accepted to achieve an overall environmental management objective (eg a range of settlement of a tailing capping could still meet the objective of draining the cap quickly, preventing pondage and limiting infiltration and percolation)
<b>uS/cm</b>	microsiemens per centimetre.
<b>ug/L</b>	means micrograms per litre.
<b>void</b>	any constructed, open excavation in the ground.
<b>watercourse</b>	<p>has the meaning in Schedule 4 of the <i>Environmental Protection Act 1994</i> and means a river, creek or stream in which water flows permanently or intermittently—</p> <ul style="list-style-type: none"> <li>• in a natural channel, whether artificially improved or not; or</li> <li>• in an artificial channel that has changed the course of the watercourse.</li> </ul> <p>watercourse includes the bed and banks and any other element of a river, creek or stream confining or containing water.</p>
<b>Waters</b>	includes all or any part of a river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water in natural or artificial watercourses, bed and banks of a watercourse, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater.
<b>Water quality</b>	the chemical, physical and biological condition of water.
<b>Water year</b>	the 12-month period from 1 July to 30 June.
<b>Wet season</b>	the time of year, covering one or more months, when most of the average annual rainfall in a region occurs. For the purposes of DSA determination this time of year is deemed to extend from 1 November in one year to 31 May in the following year inclusive.

---

**Draft environmental authority EPML00335713 — New Acland Coal Mine**

---

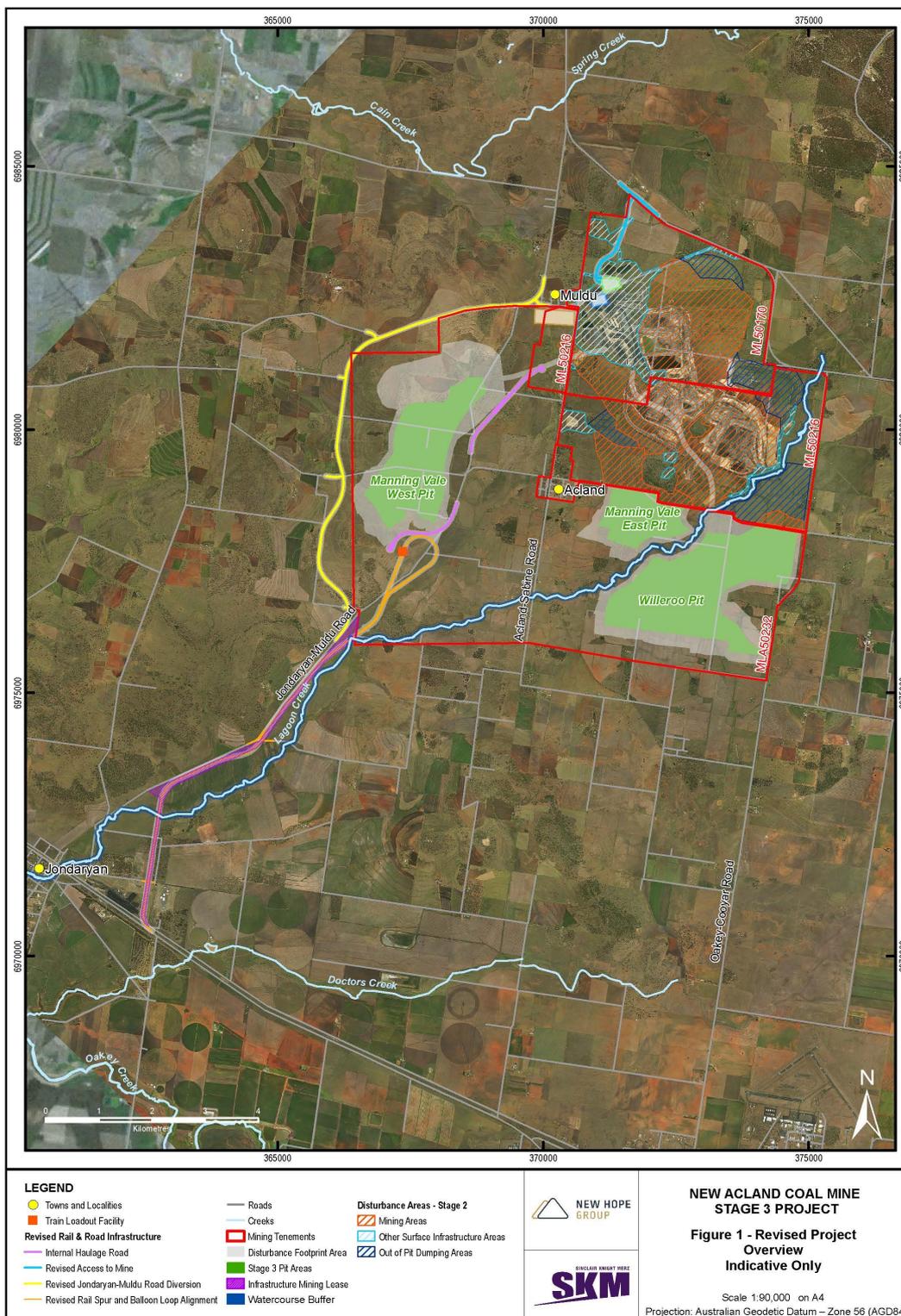
**Agency Interest — Figures:**

The maximum area authorised to be disturbed on ML50232 is 1,575ha generally as shown on Figure 1 (and in which context the word 'indicative' on Figure 1 is to be understood) which comprises:

- a. pits, slope batters and out of pit dumps – 1,422ha;
- b. the train loadout facility, the material handling facility, the Balloon Loop and the Haul road – 44ha;
- c. surface infrastructure (being bores, roads for light vehicles, levees, culverts, hardstand areas, tracks, water storage dams, buildings and any other structures built for the purpose of mining activity) – 109ha.

Draft environmental authority EPML00335713 — New Acland Coal Mine

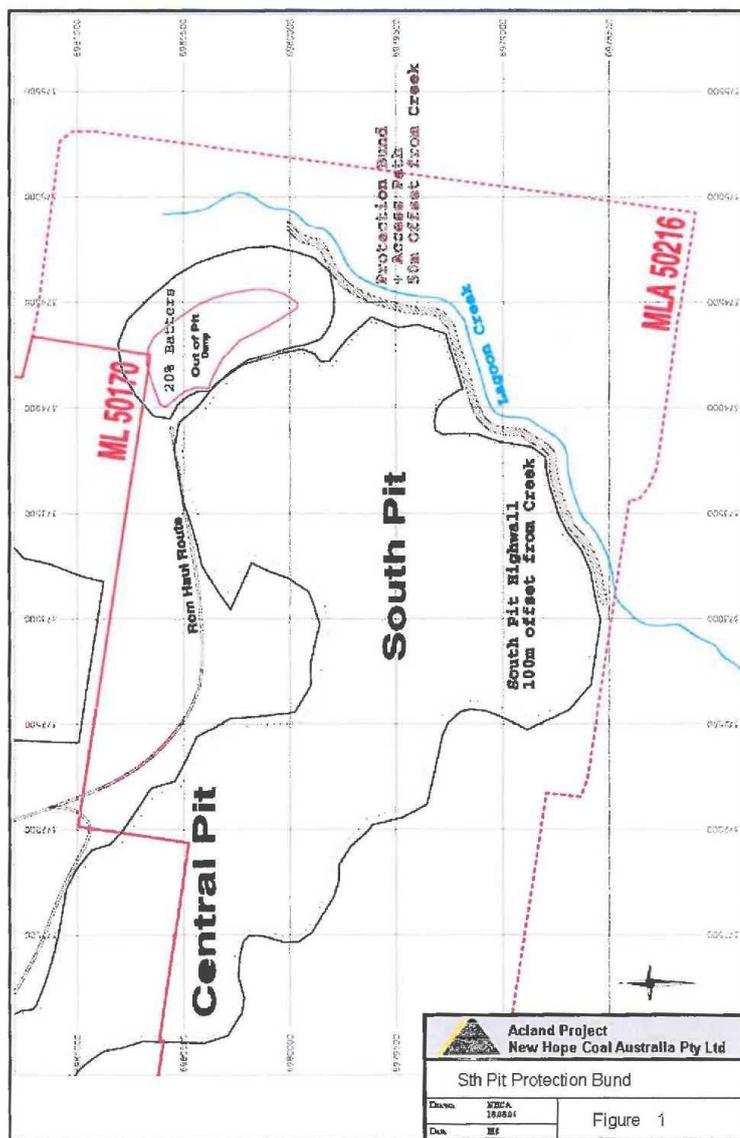
Figure 1: Revised Project Overview — Mine Area





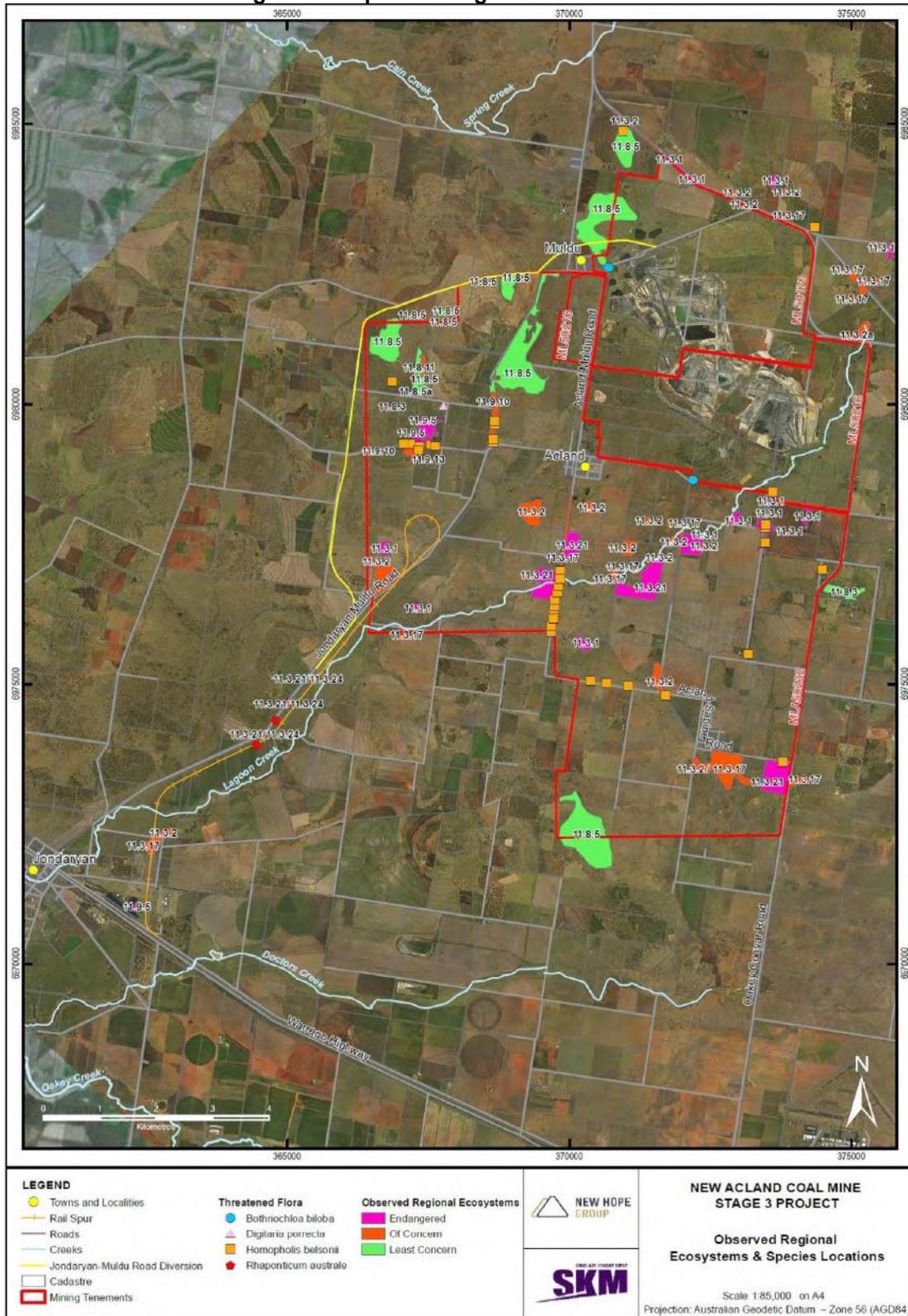
Draft environmental authority EPML00335713 — New Acland Coal Mine

Figure 3: Lagoon Creek, buffer and levee



Draft environmental authority EPML00335713 — New Acland Coal Mine

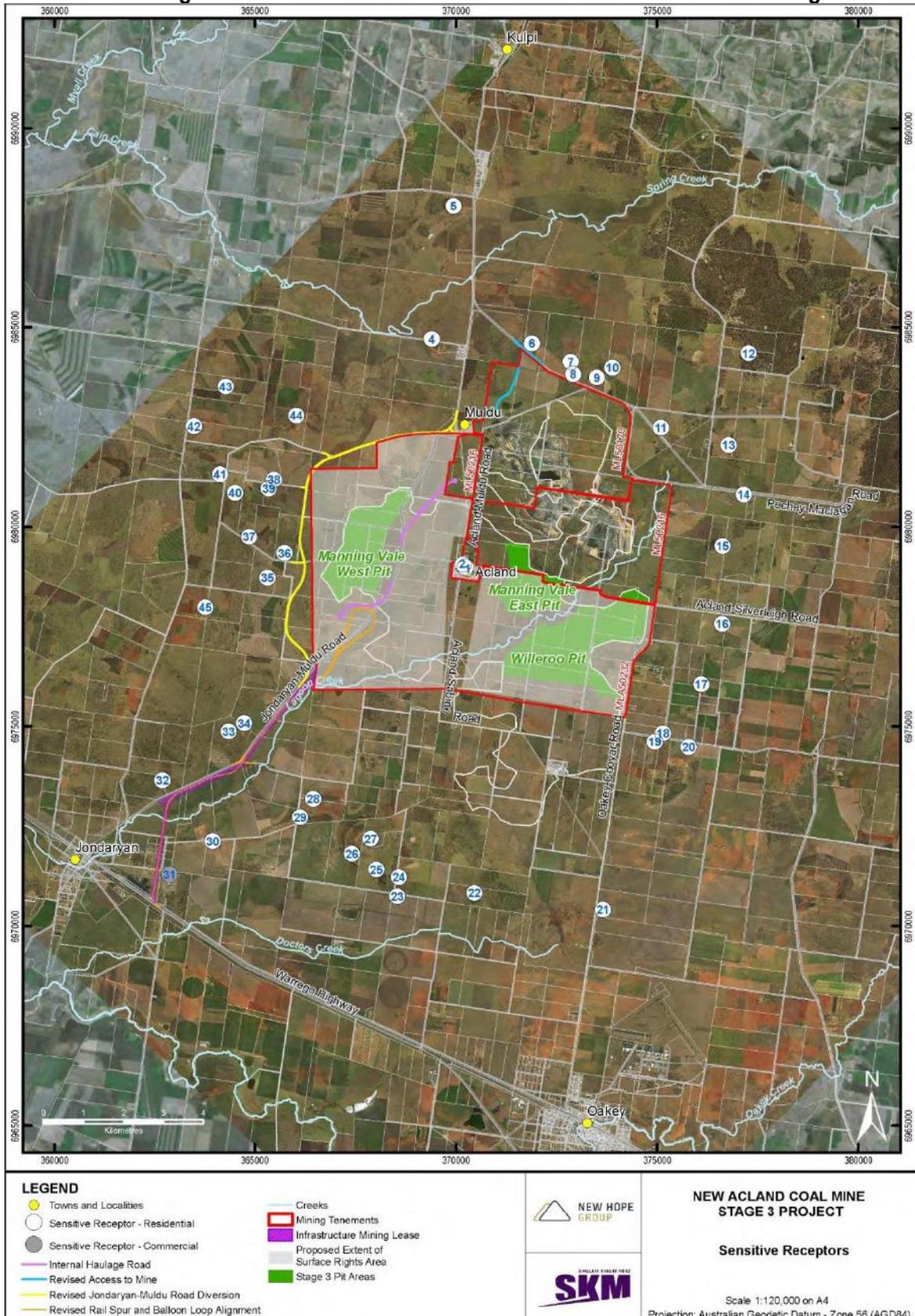
Figure 4 - Impact on vegetation and habitat



Draft environmental authority EPML00335713 — New Acland Coal Mine

Figure 5 — Location of noise sensitive receptors

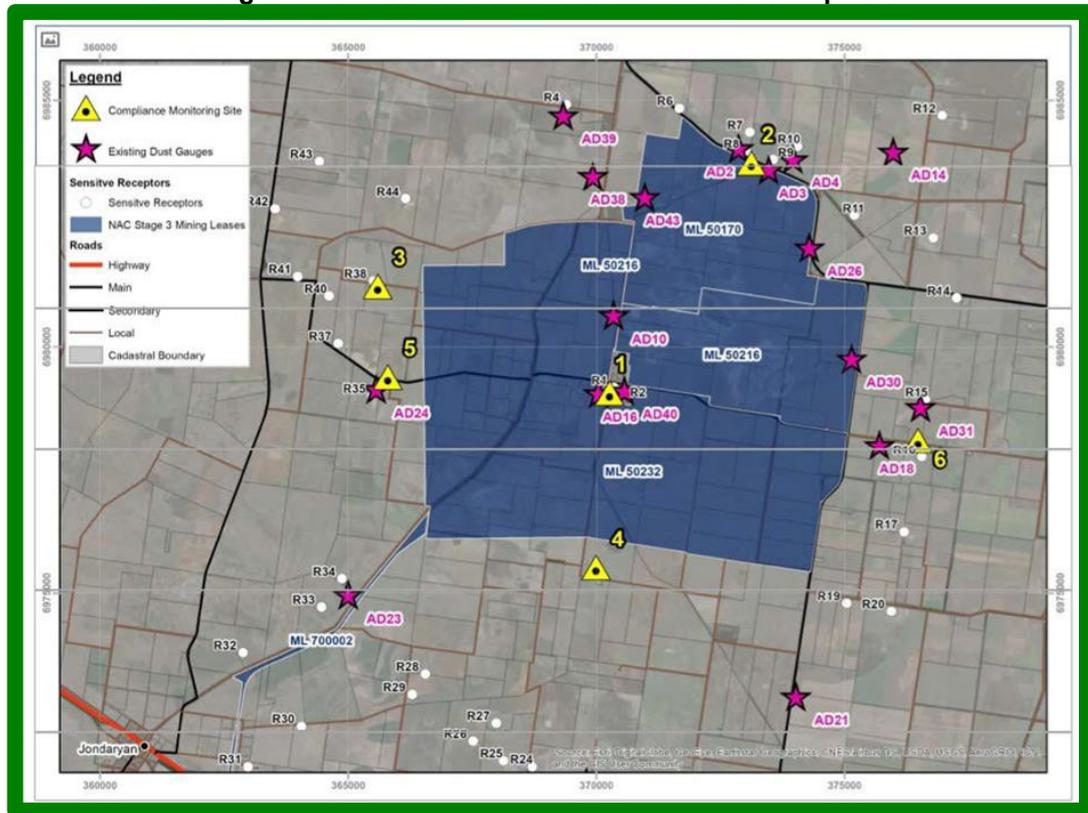
Note- Figure to be amended to include the locations of noise monitoring



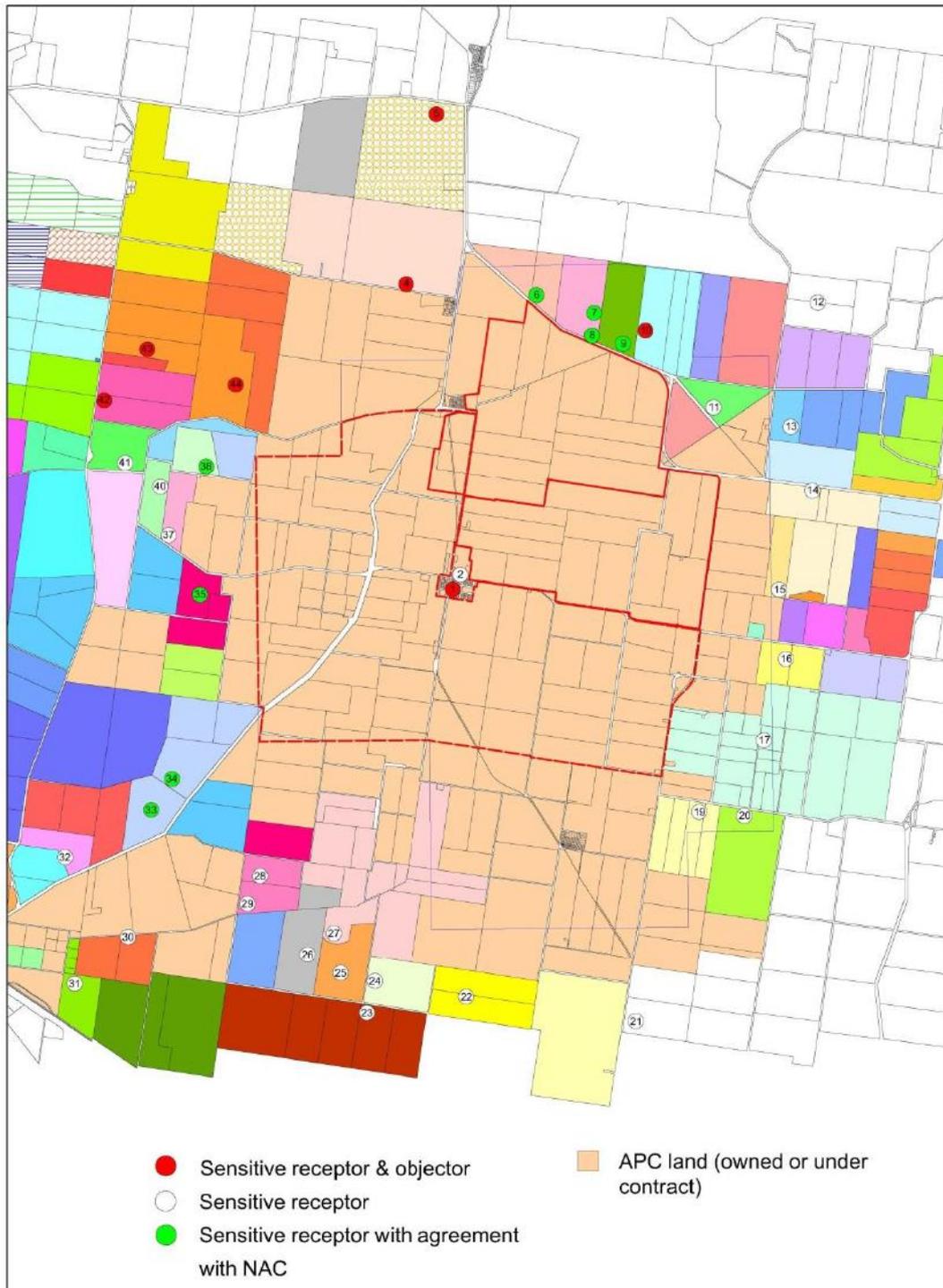
Draft environmental authority EPML00335713 — New Acland Coal Mine

Figure 6 — Air quality monitoring locations for the revised project (Stage 3)

Note- Figure to be amended to show all sensitive receptors.

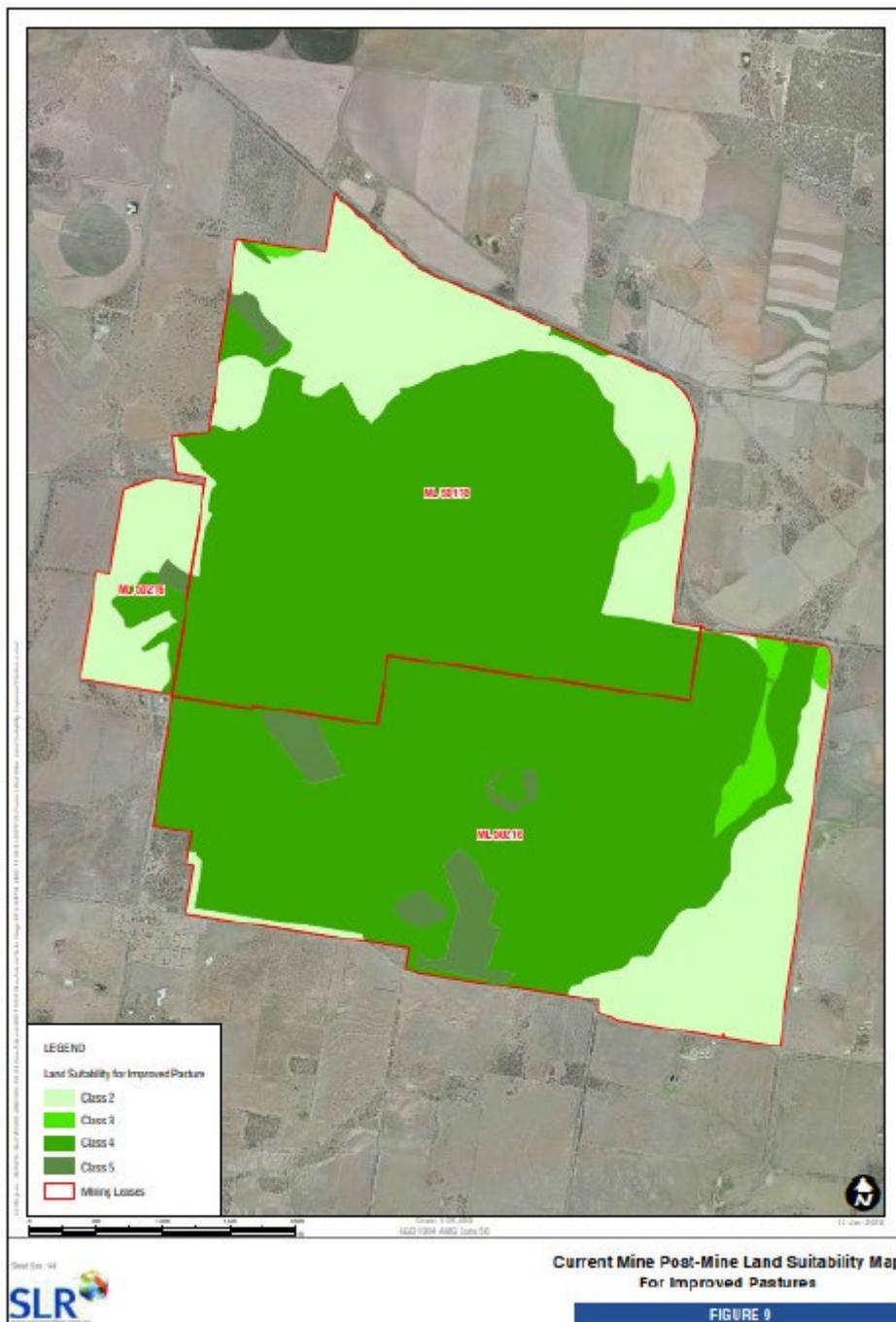


Draft environmental authority EPML00335713 — New Acland Coal Mine



Draft environmental authority EPML00335713 — New Acland Coal Mine

New Figure X1 – Current Mine Post Mine Land Suitability Map For Improved Pastures.



Draft environmental authority EPML00335713 — New Acland Coal Mine

New Figure X2 – NAC Stage 3 Post Mine Land Suitability Map

