

Notice of decision - Permit¹ transfer or amendment

This notice is issued by the Department of Environment and Resource Management to advise of a statutory decision made under environmental or conservation legislation for an application to transfer or amend a permit.

Adani Mining Pty Ltd
GPO Box 2569
Brisbane Queensland 4001

Our reference: 333466

Dear Jignesh Derasari

Re: Decision made in relation to your application under legislation administered by the Department of Environment and Resource Management (the department).

The department has assessed your application received on 27 April 2011 and wishes to advise you of the following decision:

Permit Applied For	Permit Number	Decision
Environmental Authority (Exploration or Mineral Development) Non Code Compliant Level 1 Mining Project under <i>Environmental Protection Act 1994</i>	MIN200857709	Granted

Where the application has been granted, the permit has been re-issued and is attached. Where the application has been refused a Statement of Reasons is attached. Please note that for each approval, this Notice of Decision and the relevant attachments constitute the new permit documentation. Please retain this approval documentation for your records.

Included with this Notice is advice on review and appeal processes available to you. Should you wish to seek a review or appeal, the department advises that you seek independent advice before taking such action.

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation administered by the Department of Environment and Resource Management

If you require more information, please contact Rebecca Blades, the Project Manager, on the telephone number listed below.

Yours sincerely

Christopher Loveday
Delegate of the Administering Authority
Department of Environment and Resource Management
11 August 2011

sch4p4(6) Personal information

Enquiries:

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Management
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Attachment

Environmental Authority (exploration and mineral development) for Non Code Compliant Level 1 Mining Project
Permit Number: MIN200857709

EHP RTI DL Release

**Environmental Authority (exploration and mineral development) for Non Code
Compliant Level 1 Mining Project****Permit number: MIN200857709 – Adani Exploration Program*****Environmental Protection Act 1994*****Takes Effect From: 11 August 2011****Details**

Permit Holder(s)	Name	Address
Principal Holder	Adani Mining Pty Ltd	Level 30, AMP Place 10 Eagle Street Brisbane Qld 4000

Activity(s)	Location(s)
Exploration - Coal	EPC1690

The anniversary date of the environmental authority is 6 February.

The environmental authority is subject to the attached conditions of approval.

sch4p4(6) Personal information

Christopher Loveday
Delegate
Environmental Protection Act 1994
11 August 2011

CONDITIONS OF ENVIRONMENTAL AUTHORITY

Department Interest: General

- A1** Provide a financial assurance in the amount and form required by the administering authority prior to the commencement of activities proposed under this environmental authority.
- A2** The financial assurance is to remain in force until the administering authority is satisfied that no claim on the assurance is likely.
Note: Where progressive rehabilitation is completed and acceptable to the administering authority, progressive reductions to the amount of financial assurance will be applicable where rehabilitation has been completed in accordance with the acceptance criteria defined within this environmental authority.
- A3** The conditions of this environmental authority are in force until a surrender of the authority is accepted pursuant to the *Environmental Protection Act 1994*. The conditions apply unless an amendment is approved pursuant to the *Environmental Protection Act 1994*.
- A4** The environmental authority holder must develop and implement during the continuation of this authority, a program to ensure that all employees and contractors on site are aware of and comply with the relevant requirements of this authority.
- A5** If there is any inconsistency between a standard environmental condition referred to in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* and an additional condition in this environmental authority, the additional condition prevails to the extent of any inconsistency.
- A6** Words and phrases used throughout this environmental authority are defined in the Definitions section of this authority. Where a definition for a term used in this environmental authority is sought and the term is not defined within this environmental authority, the definitions in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* and the definitions in the *Environmental Protection Act 1994*, its regulations and policies must be used.
- Activity**
- A7** Contaminants must not be released to the receiving environment unless they are in accordance with the contaminant limits authorised by this environmental authority.
- A8** This environmental authority does not authorised environmental harm unless a condition contained within the authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.
- A9** Mining activities undertaken must be consistent with the "*Adani Mining Pty Ltd Environmental Management Plan Exploration Permit for Coal (EPC) 1690*".

Maintenance of Measures, Plant and Equipment

- A10** The environmental authority holder must:
 - a) install all measured, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and
 - b) maintain such measures, plant and equipment in a proper condition; and
 - c) operate such measures, plant and equipment in a proper manner.

Monitoring, Reporting and Emergency Response Procedures

- A11** The environmental authority holder must comply with each of the 'Monitoring, Reporting and Emergency Response Procedures' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- A12** All reasonable actions are to be taken to minimise environmental harm, or potential environmental harm, resulting from any emergency, incident or circumstances not in accordance with the conditions of this environmental authority.

- A13** The holder must notify the administering authority by written notification as soon as practicable but within 24 hours 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.
- A14** The notification in condition A13 must include, but not be limited to, the following:
- The environmental authority number and name of the holder;
 - The name and telephone number of the designated contact person;
 - The location of the emergency or incident;
 - The date and time of the emergency or incident;
 - The time the holder of the environmental authority became aware of the emergency or incident;
 - Where known:
 - the estimated quantity and type of substances involved in the emergency or incident;
 - the actual or potential cause of the emergency or incident;
 - a description of the nature and effects of the emergency or incident including environmental risks, and any risks to public health or livestock;
 - Any sampling conducted or proposed, relevant to the emergency or incident;
 - Immediate actions taken to prevent or mitigate any further environmental harm caused by the emergency or incident; and
 - What notification of stakeholders who may be affected by the emergency or incident has occurred or is being undertaken.
- A15** As soon as practicable, but not more than 6 weeks following the initial notification of an emergency, incident or information about circumstances which result or may result in environmental harm, environmental monitoring must be performed and written advice must be provided of the results of any such monitoring performed to the administering authority.
- A16** The holder must notify, in writing, the occupiers or registered owners of affected land and any other potentially impacted stakeholder as soon as reasonably practicable after becoming aware of any emergency or incident that has the potential to impact on environmental values or breaches any condition of this environmental authority concerning releases of contaminants to the environment.
- A17** The notification in condition A16 must include the following:
- The location of the emergency or incident;
 - The date and time of the emergency or incident;
 - The estimated quantity and type of any substances involved in the emergency or incident;
 - The potential impacts to environmental values caused by the emergency or incident; and
 - Where there is potential impact on livestock or human health, precautionary measures that should be taken.
- A18** Record, compile and keep for a minimum of five (5) years all monitoring results required by this environmental authority and make available for inspection all or any of these records upon request by the administering authority.
- A19** Where monitoring is a requirement of this environmental authority, ensure that a competent person(s) conduct all monitoring.
- Environmentally Relevant Activities**
- A20** This environmental authority authorises the holder to undertake the Schedule 6, Environmentally Relevant Activities identified in *Table 1: Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008*.

Table 1: Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008

Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008	Activity
1	drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance

- A21** This environmental authority authorises the holder to undertake the Schedule 2, Level 1 Environmentally Relevant Activities identified in *Table 2: Level 1 Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008*.

Table 2: Level 1 Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008

Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008	Activity
8.1(a)	Chemical Storage consisting of storing 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10m ³ .
63.2(b)	Sewage treatment consisting of operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 100 to 1500 equivalent persons.

**Department Interest: Air
Air Quality**

- B1** The environmental authority holder must comply with each of the 'Air Quality' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- Dust nuisance**
- B2** Subject to conditions B3 and B4 the release of dust or particulate matter or both resulting from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
- B3** When requested by the administering authority, dust and particulate 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 or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.

- B4** If the environmental authority holder can provide evidence through monitoring that the following limits are not being exceeded then the holder is not in breach of B1:
- a) dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with AS 3580.10.1 *Methods for sampling and analysis of ambient air - Determination of particulates - Deposited matter - Gravimetric method* of 1991 (or more recent editions), or
 - b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, at a sensitive or commercial place downwind of the operational land, when monitored in accordance with
 - i. particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method, when monitored in accordance with AS 3580.9.6 *Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM (sub) 10 high volume sampler with size-selective inlet - Gravimetric method* of 1990 (or more recent editions), and
 - ii. any alternative method of sampling PM10, which may be permitted by the *Air Quality Sampling Manual* as published from time to time by the administering authority.
- B5** If monitoring indicates exceedence of the relevant limits in condition B4, then the environmental authority holder must:
- a) address the complaint including the use of appropriate dispute resolution if required, and
 - b) immediately implement dust abatement measures so that emissions of dust from the activity do not result in further environmental nuisance.
- Odour nuisance**
- B6** 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 nuisance sensitive or commercial place.

- B7** 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 or commercial place and the results must be notified within 14 days to the administering authority following completion of monitoring.
- B8** If the administering authority determines the odour released to constitute an environmental nuisance the environmental authority holder must:
- address the complaint including the use of appropriate dispute resolution if required, and
 - immediately implement odour abatement measures so that emissions of odour from the activity do not result in further environmental nuisance.

**Department Interest: Water
Erosion and Sediment Control**

- C1** The environmental authority holder must comply with each of the 'Erosion and Sediment Control' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

- C2** Contaminants must not be released from the site to any waters or the bed and banks of any waters.

**Department Interest: Noise
Noise Emissions**

- D1** The environmental authority holder must comply with each of the 'Noise Emissions' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- D2** Subject to conditions D3 and D4 noise from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
- D3** When requested by the administering authority, noise 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 or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.
- D4** If the environmental authority holder can provide evidence through monitoring that the limits defined in *Table 3: Noise limits*, are not being exceeded then the holder is not in breach of condition D1. Monitoring must include:
- $L_{A, \max \text{ adj, T}}$
 - relevant background sound level
 - the level and frequency of occurrence of impulsive or tonal noise
 - atmospheric conditions including wind speed and direction
 - location, date and time of recording.
- D5** If monitoring indicates exceedence of the limits in *Table 3: Noise limits*, then the environmental authority holder must:
- address the complaint including the use of appropriate dispute resolution if required
 - immediately implement noise abatement measures so that emissions of noise from the activity do not result in further environmental nuisance.
- D6** The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's *Noise Measurement Manual*.

Table 3: Noise limits

Noise level dB(A)	Monday to Sunday (including public holidays)		
	7am - 6pm	6pm - 10pm	10pm - 7am
	Noise measured at a 'sensitive or commercial place'		
L _{A10} , adj, 10 mins	Background + 5	Background + 5	Background + 3
L _{A1} , adj, 10 mins	Background + 10	Background + 10	Background + 5

NOTE: Where "Background" means background sound pressure level measured in accordance with the latest edition of the administering authority's Noise Measurement Manual. Table 17 does not purport to set operating hours for the mining activities.

**Department Interest: Waste
Waste Management**

- E1** The environmental authority holder must comply with each of the 'Waste Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 21, which is replaced by condition **E2** of this environmental authority.
- E2** General waste must not be disposed of within EPC1690.
- E3** Regulated Waste must not be disposed of within Exploration Permit Coal 1690.
- Storage of tyres**
- E4** Scrap tyres stored awaiting disposal or transport for take-back and recycling, or waste-to-energy options must be stored in stable stacks and at least 10 metres from any other scrap tyre storage area, or combustible or flammable material, including vegetation.
- E5** All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10 metre radius of the scrap tyre storage area.
- Storage of waste**
- E6** A designated area or storage containers must be set aside for the laydown and segregation of wastes.
- E7** An effective fire break must be provided and maintained around all waste laydown areas.
- E8** All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10m radius of all waste laydown areas.
- E9** Waste must not be burned or allowed to be burned on the mineral development licence unless by approval of the administering authority.
- E10** Waste batteries must be stored:
- in a bunded and roofed area, or
 - palletised and plastic wrapped.
- E11** Regulated waste may be temporarily stored on Exploration Permit Coal 1690 before being directed to a facility that can lawfully accept such waste.

- E12** All regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

**Department Interest: Land
Land Disturbance**

- F1** The environmental authority holder must comply with each of the 'Land Disturbance' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 2, which is replaced by condition **F2 to F5** of this environmental authority.
- F2** The operational area within the drill site must not exceed 1000m³, except for sites mentioned in conditions F3, F4 and F5.
- F3** The operational area within no more than 8 drill sites within Category B Environmentally Sensitive Areas may exceed 1000m³ but must not exceed 2000m³.
- F4** The operational area within no more than 11 drill sites within 500m of any Category B Environmentally Sensitive Area may exceed 1000m³ but must not exceed 2000m³.
- F5** The operational area within no more than 40% of drill sites located within areas not identified as: a Category B Environmentally Sensitive Area; within 500m of any Category B Environmentally Sensitive Area; or a Category C Environmentally Sensitive Area may exceed 1000m³ but must not exceed 2000m³.

Topsoil and Overburden Management

- F6** The environmental authority holder must comply with each of the 'Topsoil and Overburden Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Hazardous Contaminants

- E7** The environmental authority holder must comply with each of the 'Hazardous Contaminants' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F8** All flammable and combustible liquids must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current edition of AS 1940 – *Storage and Handling of Flammable and Combustible Liquids*.
- F9** Spillage of all flammable and combustible liquids must be controlled in a manner that prevents environmental harm.
- F10** All chemicals must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current version of the relevant Australian Standard.
- F11** Spillage of all chemicals must be controlled in a manner that prevents environmental harm.
- F12** All explosives, corrosive substances, toxic substances, gases and dangerous goods must be stored and handled in accordance with the relevant Australian Standard.
- F13** All chemicals and flammable or combustible liquids stored on site that have the potential to cause environmental harm must be stored in or serviced by an effective containment system that is impervious to the materials stored and managed to prevent the release of liquids to waters or land. Where no relevant Australian Standard is available, the following must be applied:

- a) storage tanks must be bunded so that the capacity and construction of the bund is sufficient to contain at least 110% of a single storage tank or 100% of the largest storage tank plus 10% of the second largest storage tank in multiple storage areas, and
- b) drum storages must be bunded so that the capacity and construction of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.

Spill Kit

- F14** An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes, chemicals and flammable and combustible liquids associated with the activity must be kept at the site.
- F15** Anyone operating with wastes, chemicals or flammable and combustible liquids under this approval must be trained in the use of the spill kit.

Nature Conservation

- F16** The environmental authority holder must comply with each of the 'Nature Conservation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 13, which is replaced by conditions of this environmental authority.
- F17** The environmental authority holder must not undertake mining activities within any Category A Environmentally Sensitive Area (Attachment 1).
- F18** The environmental authority holder must not undertake any mining activities within 1 kilometre of any Category A Environmentally Sensitive Area.
- F19** The environmental authority holder must not undertake any mining activities within the gilgai wetlands, that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge), as identified in Attachment 2.
- F20** The environmental authority holder must not undertake any mining activities within 500m of the gilgai wetlands that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge), as identified in Attachment 2.
- F21** The environmental authority holder must not undertake any mining activities within the regional ecosystems 11.3.10/11.4.6/11.4.8, 11.3.10/11.4.6 that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).
- F22** The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within Category B Environmentally Sensitive Areas.
- F23** The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within 500m of any Category B Environmentally Sensitive Area.
- F24** The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within Category B Environmentally Sensitive Areas.
- F25** The environmental authority holder is authorized to undertake no more than 20 drill holes within Category B Environmentally Sensitive Areas.

- F26** The environmental authority holder is authorized to undertake no more than 26 drill holes within 500m of any Category B Environmentally Sensitive Area.
- F27** The environmental authority holder is authorized to undertake no more than 4 drill holes within Category C Environmentally Sensitive Areas.
- F28** Spacing of gridlines with Category B Environmentally Sensitive Areas may only be undertaken at minimal intervals of 700m.
- F29** Spacing of gridlines with 500m of any Category B Environmentally Sensitive Area may only be undertaken at minimal intervals of 700m.
- F30** Spacing of gridlines within Category C Environmentally Sensitive Areas may only be undertaken at minimal intervals of 1400m.
- F31** The construction sumps within Category B Environmentally Sensitive Areas must not exceed 16m² each.
- F32** Topsoil stripping in Category B Environmentally Sensitive Areas is limited to the sump area of 16m²
- F33** The construction sumps within 500m of any Category B Environmentally Sensitive Area must not exceed 16m² each.
- F34** Topsoil stripping within 500m of any Category B Environmentally Sensitive Area is limited to the sump area of 16m²
- F35** The construction sumps within Category C Environmentally Sensitive Areas must not exceed 16m² each.
- F36** Topsoil stripping in the Category C Environmentally Sensitive Area is limited to the sump area of 16m²
- F37** The environmental authority holder is not authorised to undertake 2D seismic survey tracks in any Category B Environmentally Sensitive Area.
- F38** The environmental authority holder is not authorised to undertake 2D seismic survey tracks within 500m of any Category B Environmentally Sensitive Area.
- F39** The environmental authority holder is not authorised to undertake 2D seismic survey tracks within any Category C Environmentally Sensitive Area.
- F40** The environmental authority holder is not authorised to undertake 3D seismic survey tracks.
- F41** Habitat trees must be protected.
- F42** Trees or shrubs with nests of birds of prey (raptors) whether active or not, or visibly active non-raptor bird nests must be protected.
- F43** No clearing of mature trees is authorised except with approval of the administering authority.
- F44** Debris from clearing or felling of trees must not accumulate within two (2) metres of any retained tree.
- F45** Burning of vegetation is not permitted.

Other Level 2 Environmentally Relevant Activities

- F46** The environmental authority holder must comply with each of the 'Other Level 2 Environmentally Relevant Activities' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Roads and Tracks

- F47** The environmental authority holder must comply with each of the 'Roads and Tracks' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F48** Any new tracks within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge) must be constructed after written approval is provided by the background landholder. The written approval must be made available to the administering authority upon request.
- F49** The holder of this environmental authority must consult with the administering agency responsible for the Bygana West Nature Refuge under the *Nature Conservation Act 1992* prior to constructing any new tracks within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).
- F50** All new tracks must be recorded with a Global Positioning System (GPS) and records kept of their location and made available to the administering authority upon request.
- F51** Any existing access and fence line tracks must be used.
- F52** Any new tracks are to be constructed by linking naturally cleared or disturbed areas.
- F53** Major Arterial Roads are not to be constructed greater than 8m in width, as identified in Appendix 3, Appendix 4 and Appendix 5.
- F54** Minor Arterial Tracks are not to be constructed greater than that 4.5m in width, as identified in Appendix 3, Appendix 4 and Appendix 5.
- F55** Minor Arterial Roads, Minor Tracks or tracks are to be constructed, operated, maintained and rehabilitated in a manner that ensures erosion and scalding is minimised within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).
- F56** Track construction involving blade clearing of established ground cover vegetation and/or clearing of mature trees is to be prevented or minimised.
- F57** Spacing of tracks must not be less than 700m.
- F58** The environmental authority holder must minimise disturbance in Category B Environmentally Sensitive Areas and avoid clearing of trees when constructing tracks.
- F59** The environmental authority holder must minimise disturbance within 500m of any Category B Environmentally Sensitive Area and avoid clearing of trees when constructing tracks.
- F60** The environmental authority holder must minimise disturbance within the Category C Environmentally Sensitive Area and avoid clearing of trees when constructing tracks.
- F61** No clearing or disturbance for access to boreholes is authorised within Category B Environmentally Sensitive Areas.
- F62** No clearing or disturbance for access to boreholes is authorised within 500m of any Category B Environmentally Sensitive Area.
- F63** No clearing or disturbance for access to boreholes is authorised within the Category C Environmentally Sensitive Area.

Campsites

F64 The environmental authority holder must comply with each of the 'Campsites' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

F65 Camps must not be established within Category B Environmentally Sensitive Areas.

F66 Camps must not be established within 500m of any Category B Environmentally Sensitive Area.

F67 Camps must not be established within any Category C Environmentally Sensitive Area.

Service, Maintenance and Storage Areas

F68 The environmental authority holder must comply with each of the 'Service, Maintenance and Storage Areas' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except Condition 23 and Condition 24 which are placed by conditions F7 to F14 of this environmental authority.

Drilling, Excavating and Sampling

F69 The environmental authority holder must comply with each of the 'Drilling, Excavating and Sampling' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Exploration drill holes

F70 The environmental authority holder must comply with each of the 'Exploration drill holes' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Gridlines and Geophysical Surveys

F71 The environmental authority holder must comply with each of the 'Gridlines and Geophysical Surveys' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Rehabilitation

F72 The environmental authority holder must comply with each of the 'Rehabilitation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

F73 Rehabilitation of areas disturbed by mining activities within any Category B Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.

F74 Rehabilitation of areas disturbed by mining activities within 500 metres of any Category B Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.

F75 Rehabilitation of areas disturbed by mining activities within the Category C Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.

F76 The environmental authority holder must revegetate disturbed areas within Category B Environmentally Sensitive Areas with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas both in and within 500 metres the Category B Environmentally Sensitive Area.

- F77** The environmental authority holder must revegetate disturbed areas within 500 metres of any Category B Environmentally Sensitive Area with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas both in and within 500 metres of any Category B Environmentally Sensitive Area.
- F78** The environmental authority holder must revegetate disturbed areas within the Category C Environmentally Sensitive Area with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas within the Category C Environmentally Sensitive Area.
- F79** All land subject to mining activities must be rehabilitated to a non polluting, safe, stable and self sustaining landform and in accordance with *Table 4: Rehabilitation schedule*.

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Table 4: Rehabilitation schedule

	<i>Disturbance type</i>				
	<i>Infrastructure and camp(s)</i>	<i>Road(s) and track(s)</i>	<i>Areas within Category B Environmentally Sensitive Areas</i>	<i>Areas within 500 metres of any Category B Environmentally Sensitive Area</i>	<i>Areas within the Category C Environmentally Sensitive Area</i>
Tenure ID	EPC1690	EPC1690	EPC1690	EPC1690	EPC1690
<i>Post mine land use</i>	Light intensity grazing	Light intensity grazing	Light intensity grazing with Native Vegetation	Light intensity grazing with Native Vegetation	Native vegetation
<i>Post mine land description</i>	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land – Nature Refuge (Bygana West Nature Refuge)
<i>Post mine land capability classification</i>	VI	VI	VI	VI	VI
<i>Projective cover range (%)</i>	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹
<i>Species mix</i>	Buffel and other pasture mixtures	Buffel and other pasture mixtures	Appropriate native vegetation	Appropriate native vegetation	Native vegetation

Note¹. Weediness includes weeds that are declared plants as defined under the *Land Protection (Pest and Stock Route Management) Act 2002*.

Note: The holder of this environmental authority is required to comply with all obligations under the *Land Protection (Pest and Stock Route Management) Act 2002* or subsequent legislation.

Rehabilitation reporting

- F80** An annual report must be prepared each year and submitted with each annual return. The report must include details of exploration activities undertaken and details of progressive rehabilitation works completed to demonstrate compliance with the conditions of this environmental authority.

Department Interest: Sewage Treatment

- G1** The daily operation of the sewage treatment plant and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
- G2** Pipelines and fittings associated with the sewage treatment plant must be clearly identified. Lockable valves or removable handles must be fitted to all release pipelines situated in public access areas.
- G3** Treated effluent from the sewage treatment plant must only be discharged from the authorised discharge points, as specified in *Table 5: Effluent discharge locations* to the areas shown in *Table 6: Absorption trenches*.

Table 5: Effluent discharge locations

Authorised Discharge Points	Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	To be provided as per condition G13.	To be provided as per condition G13.	To be provided as per condition G13.
Effluent Discharge Point 2	To be provided as per condition G13.	To be provided as per condition G13.	To be provided as per condition G13.

Table 6: Absorption trenches

Authorised Discharge Point	Effluent Irrigation Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	Absorption Trench 1	To be provided as per condition G13.	To be provided as per condition G13.
Effluent Discharge Point 2	Absorption Trench 2	To be provided as per condition G13.	To be provided as per condition G13.

- G4** Treated effluent must not be used for dust suppression.
- G5** Treated effluent must not be released from the site to any waters or the bed and banks of any waters.
- G6** Water or storm water contaminated by sewage treatment activities must not be released to any waters or the bed and banks of any waters.
- G7** Treated effluent must not be released to land other than the designated absorption trenches, identified in *Table 6: Absorption trenches*.

Land Disposal

- G8** The release of treated effluent to the designated absorption trenches must be carried out in a manner such that:
- a) vegetation is not damaged;
 - b) soil erosion and soil structure damage is avoided;
 - c) there is no surface ponding of effluent;
 - d) percolation of effluent beyond the plant root zone is minimised;
 - e) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and
 - f) the quality of groundwater is not adversely affected.
- G9** Notices must be prominently displayed on absorption trenches, warning the public that the area is irrigated with effluent and not to use or drink the effluent. These notices must be maintained in a visible and legible condition.
- G10** When conditions prevent the release of treated effluent to the designated absorption trenches (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off site to another treatment plant or sewer). A record must be kept of any removal or discharge off site, including destination, transporter, dates and volumes.
- G11** A record of the removal of treated effluent from site must be kept detailing the following information:
- a) date of pickup of treated effluent;
 - b) volume of treated effluent removed from the site;
 - c) destination of the treated effluent; and
 - d) the transporter.
- G12** If the responsibility of the treated effluent is given or transferred to another person:
- a) the responsibility of such effluent must only be given or transferred in accordance with a written agreement (the third party agreement);
 - b) include in the third party agreement a commitment from the person utilising the effluent to use effluent in such a way as to prevent environmental harm or public health incidences and specifically make the persons aware of the General Environmental Duty (GED) under section 319 of the *Environmental Protection Act 1994*, environmental sustainability of any effluent disposal and protection of environmental values of waters; and
 - c) upon being notified or otherwise becoming aware that the person's use of effluent is causing or threatens to cause environmental harm or is posing a human health risk, and if the person does not rectify the situation upon written request, the giving and transferring responsibility for such effluent must cease.

Provision of Information

- G13** The location of effluent absorption trenches and effluent discharge locations as per *Table 5: Effluent discharge locations* and *Table 6: Absorption trenches* must be finalised and submitted to the administering authority no later than 28 days prior to construction.

END OF CONDITIONS

DEFINITIONS

“Artesian bore” includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft well, gallery, spear or excavation, that taps an aquifer and the water flows, or has flowed, naturally to the surface.

“Authority” means environmental authority (mining activities) under the *Environmental Protection Act 1994*.

“Borehole” means either an artesian bore or a subartesian bore.

“Campsite” The area encompassing any dwelling, amenities (e.g. toilet block, power generator), sewage or general waste disposal facility and includes the office area and vehicle parking areas associated with a temporary or permanent mining camp.

“Costeaning” The digging of a trench or pit across the seam or ore body for exposing, sampling and mapping of the ore body.

“Density of cover” In reference to trees and/or shrubs, it means the number of trees or shrubs in a specified area (e.g. 50 trees per square kilometre). With reference to understorey plant species (e.g. grasses and forbs), it means the percentage of surface area covered by a particular species.

“Disturbed” Any area that has had its natural state altered by the action or interference of carrying out an activity associated with the exploration project.

“Endangered regional ecosystem” means a regional ecosystem identified as endangered in the database maintained by the administering authority called ‘Regional ecosystem description database’ containing regional ecosystem numbers and descriptions.

“Environmental authority” means a licence or approval issued by the administering authority under the *Environmental Protection Act 1994*.

“Environmental authority holder” means the holder of this environmental authority.

“Environmentally Sensitive Areas” refers to locations, however large or small, that have environmental values that contribute to maintaining biological diversity and integrity, have intrinsic or attributed scientific, historical or cultural heritage value, or are important in providing amenity, harmony or sense of community. Refer to Appendix A of Code of Environmental Compliance for Exploration and Mineral Development Projects.

“Financial assurance” means a security deposit, either cash or a bank guarantee, that is held by the administering authority to cover the potential:

- (a) costs to rehabilitate areas disturbed by mining activities; and
- (b) costs to restore property improvements disturbed by mining activities; and
- (c) failure of the tenure holder to pay rents and royalties.

“General waste” Schedule 9 of the *Environmental Protection Regulation 1998* defines general waste as “means waste other than regulated waste”. Waste rock, overburden and the contents of tailings dams are not included in the definition of general waste for the purposes of these conditions.

“Native vegetation” Vegetation that occurs naturally in a certain area.

“Progressive rehabilitation” means rehabilitation (defined below) undertaken progressively or a staged approach to rehabilitation as mining operations are ongoing.

“Rehabilitation processes” The measures and actions taken to achieve rehabilitation outcomes, including any or all of the following:

- removing all unwanted infrastructure;
- backfilling mine excavations (e.g. pits) and capping drill holes;
- reshaping the land surface to a stable landform similar to that of surrounding
- undisturbed areas;

- spreading of topsoil;
- spreading seed or planting seedlings to promote revegetation;
- benching ridge cuts and removing any overhanging material.

“Significantly disturbed land” Land is significantly disturbed if –

- (a) it is contaminated land; or
- (b) it has been disturbed and human intervention is needed to rehabilitate it.

Significantly disturbed land includes:

- areas where soil has been compacted, removed, covered, exposed or stockpiled;
- areas where vegetation has been removed or destroyed to an extent where the land has been made susceptible to erosion; (vegetation & topsoil)
- areas where land use suitability or capability has been diminished;
- areas within a watercourse, waterway, wetland or lake where mining project activities occur;
- areas submerged by tailings or hazardous contaminant storage and dam walls in all cases;
- areas under temporary infrastructure. Temporary infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be removed after mining has ceased; or
- areas where land has been contaminated.

However, the following areas are not included:

- areas off lease (e.g. roads or tracks which provide access to the mining lease);
- areas previously significantly disturbed which have achieved the rehabilitation outcomes;
- by agreement with the EPA, areas previously significantly disturbed which have not achieved the rehabilitation objectives due to circumstances beyond the control of the mine operator (such as climatic conditions);
- areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be left by agreement with the landowner. The agreement to leave permanent infrastructure must be
- recorded in the Landowner Agreement and lodged with the EPA;
- disturbances that pre-existed the grant of the tenure unless those areas are disturbed during the term of the tenure.

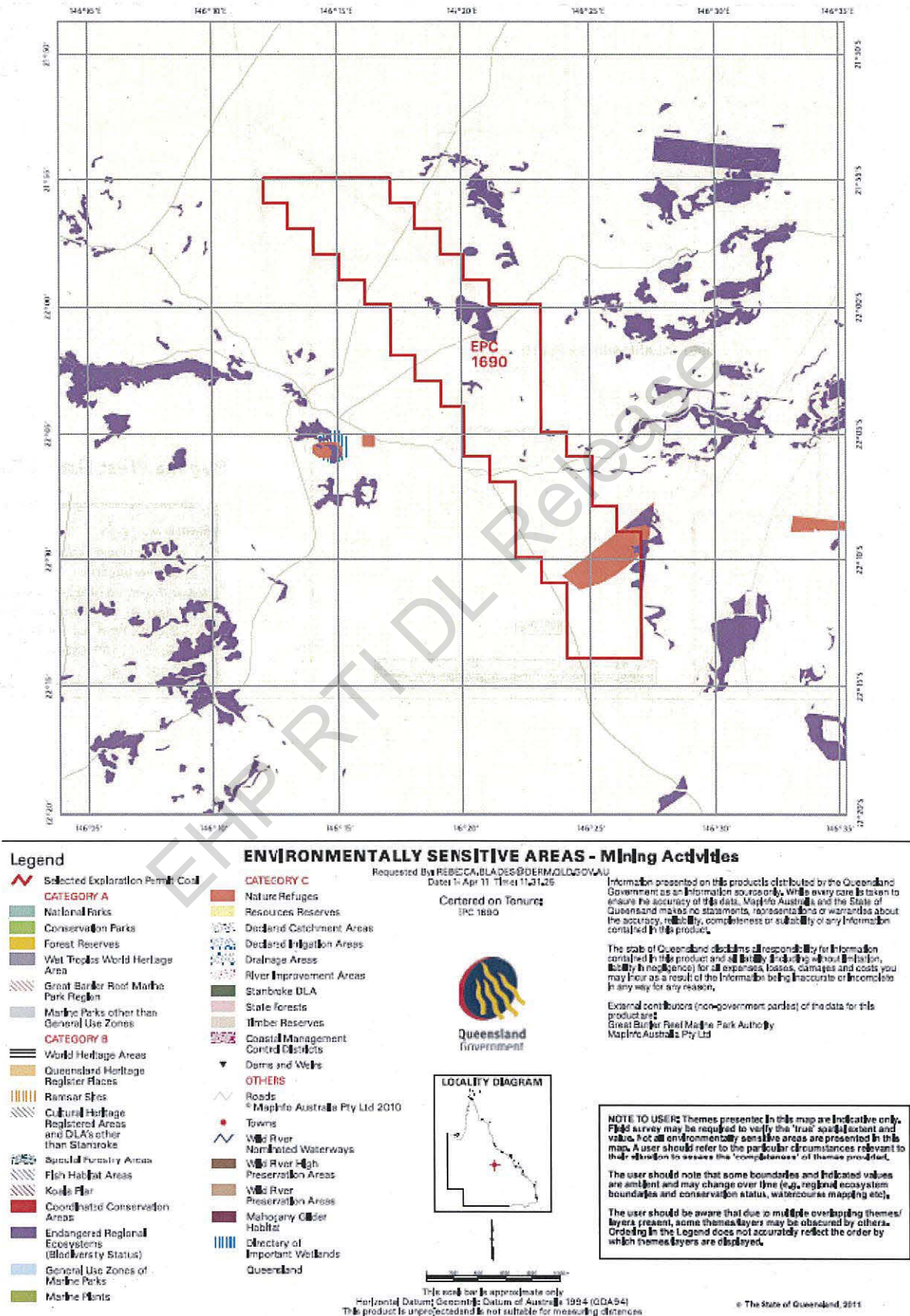
“Standard environmental conditions” For an environmental authority, means the standard environmental conditions approved for the authority under section 549 of the *Environmental Protection Act 1994*.

“Subartesian bore” includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft, well, gallery or excavation, that taps an aquifer and the water does not flow and never has flowed naturally to the surface.

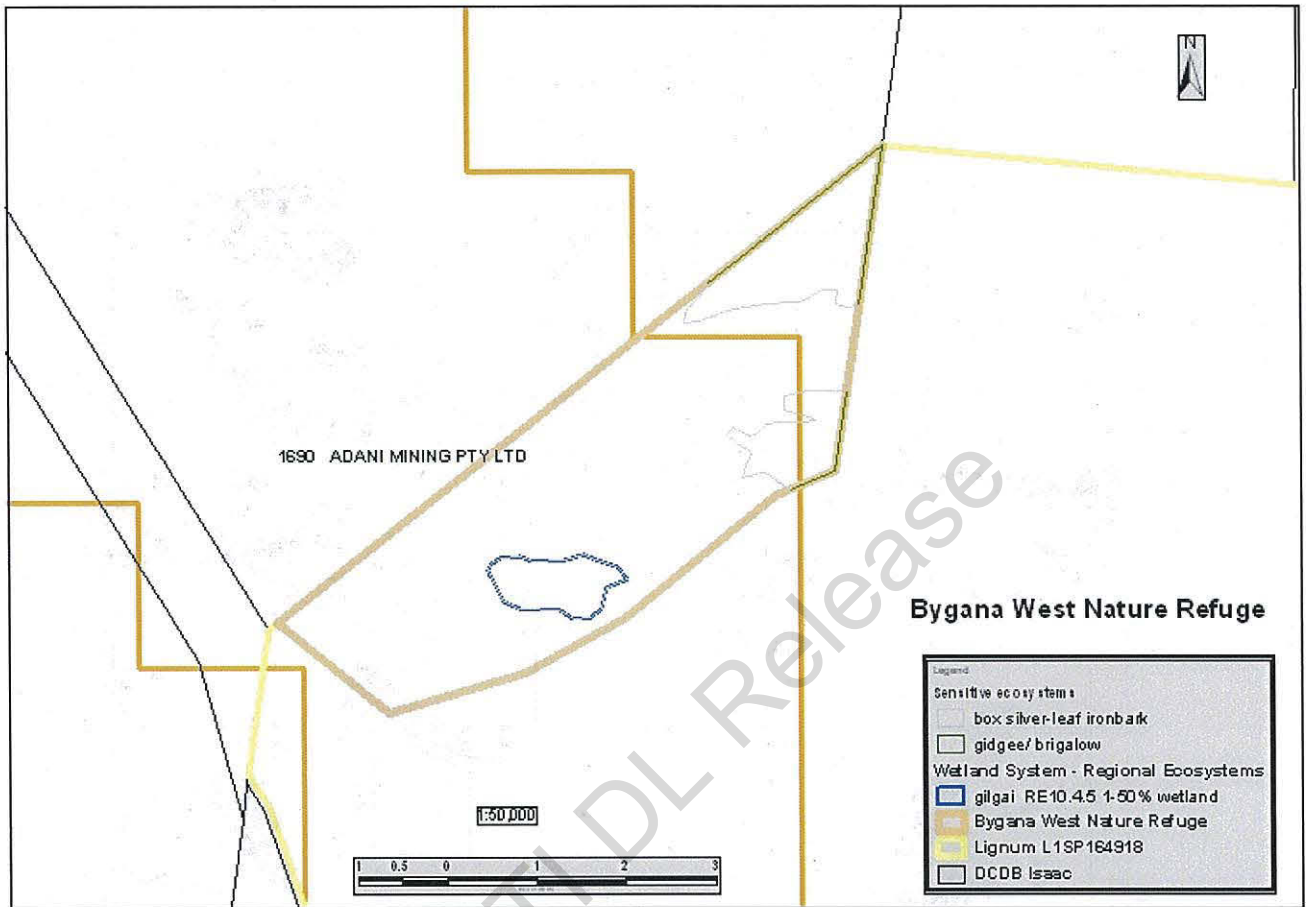
“Watercourse” means a river, creek or stream in which water flows permanently or intermittently in a visibly defined channel (natural, artificial or artificially improved) with:

- (a) continuous bed and banks;
- (b) an extended period of flow for some months after rain ceases, and
- (c) an adequacy of flow that sustains basic ecological processes and maintains biodiversity

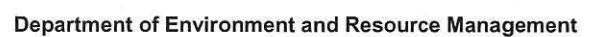
Attachment 1 – Environmentally Sensitive Areas



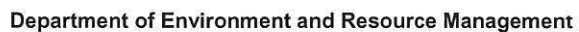
Attachment 2 – Gilgai Wetlands



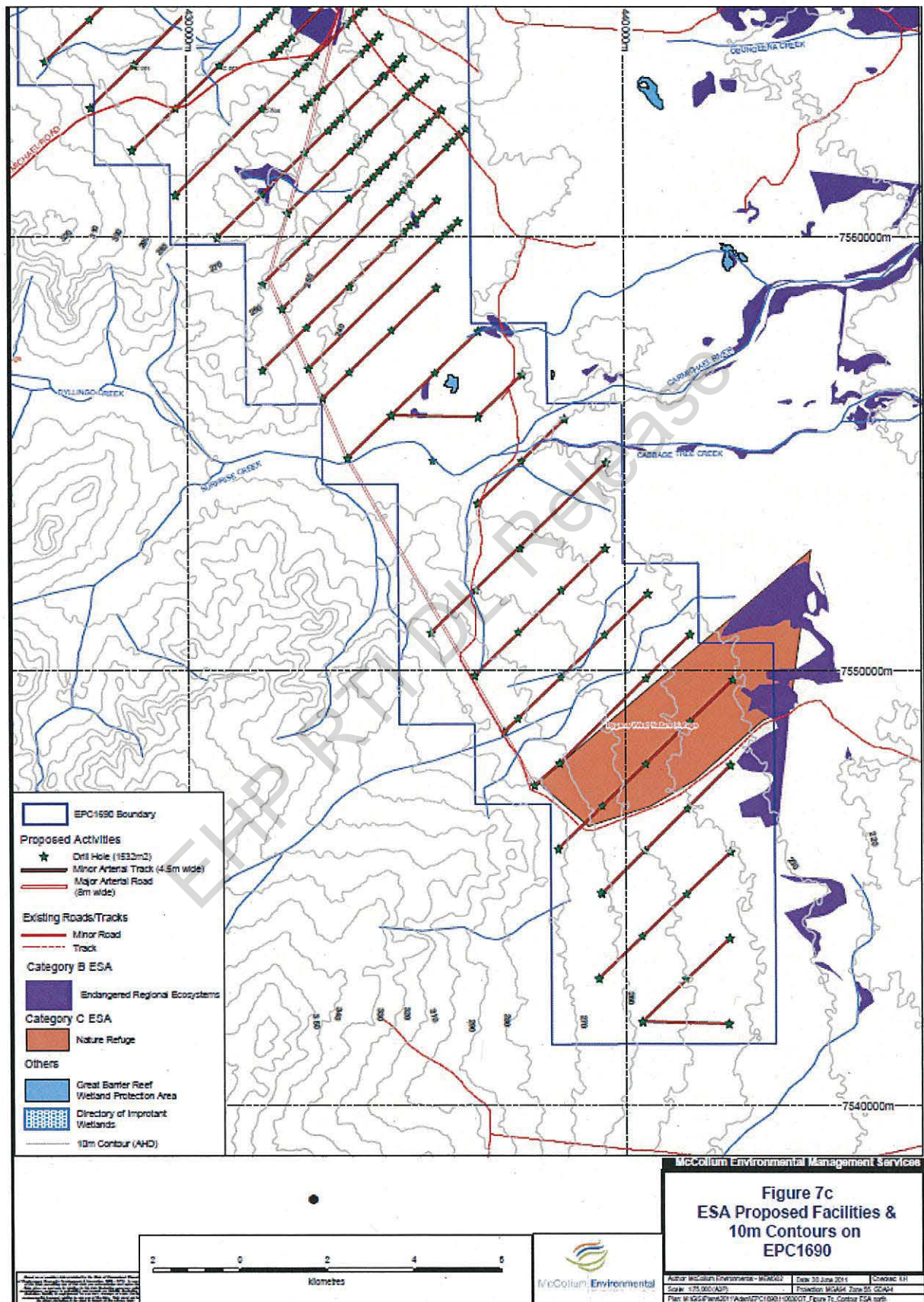
Page 21 of 24



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Attachment 5 - Minor Arterial Tracks and Major Arterial Roads



END OF ENVIRONMENTAL AUTHORITY

EHP RTI DL Release

☐ For Regional Information & Filing☒ Regional Action RequiredDEEDI Office:
BRISBANE

Admin. Office: MACKAY

Project No: 333466

Client No: Permit No: MIC200857709

Application No:



Permit and Licence Management APPLICATION VALIDATION CHECKLIST Environmental Authority Non-Code Compliant

Application Type:

☒ New☒ Level 1☒ Amendment☒ Level 2

Company / Business / Individual Name: Adani Mining PLC

Date Received: 27/4/11 Application Date: 27/4/11 Assessing Officer: Hazel Zaratta

TYPE & NUMBER OF TENURE

☐ Mineral Exploration☒ Coal Exploration☐ Mineral Development☐ Mining Lease

Tenure No/s: 1690

Application will be considered invalid if there is ☒ against any item under the relevant application type

NEW APPLICATION

☒ or ☒

Amendment Appn Form (if applicable)

☒ # *

Application for New EA (s154 form)

☐

EM Plan Attached (Level 1 only)

☒ #

Registered Business Address

☒ # *

DME Public Enquiry Report

☐ #

Forms Signed and Dated

☒ # *

DME Map

☐ #

DME Application Form & Report

☐ #

***NOTE:** Applications for new Non-Code Compliant L1 EA's must include annual Licence fee as per the applicable category in ERA21, in addition to the \$515 application fee.

New ML added as an amendment must have the amendment fee of \$257.50 (no annual fee required).

Fees Paid \$ 257.50 Rec # 3989615 Date 27/4/2011

Annual Fee \$ Rec # Date
(if new application)

Other Agency Interests

(Applies to applications for new EPM/EPC/MDL)

if ☒, list the features identified

Ecomaps

☒ Indigenous Heritage ☐

Other: ECSU, ERE'S, NR

CAC Review Date: 10/5/2011

ACD Date: 12/5/2011

Extended Date:

Record of Consultation:

Client:

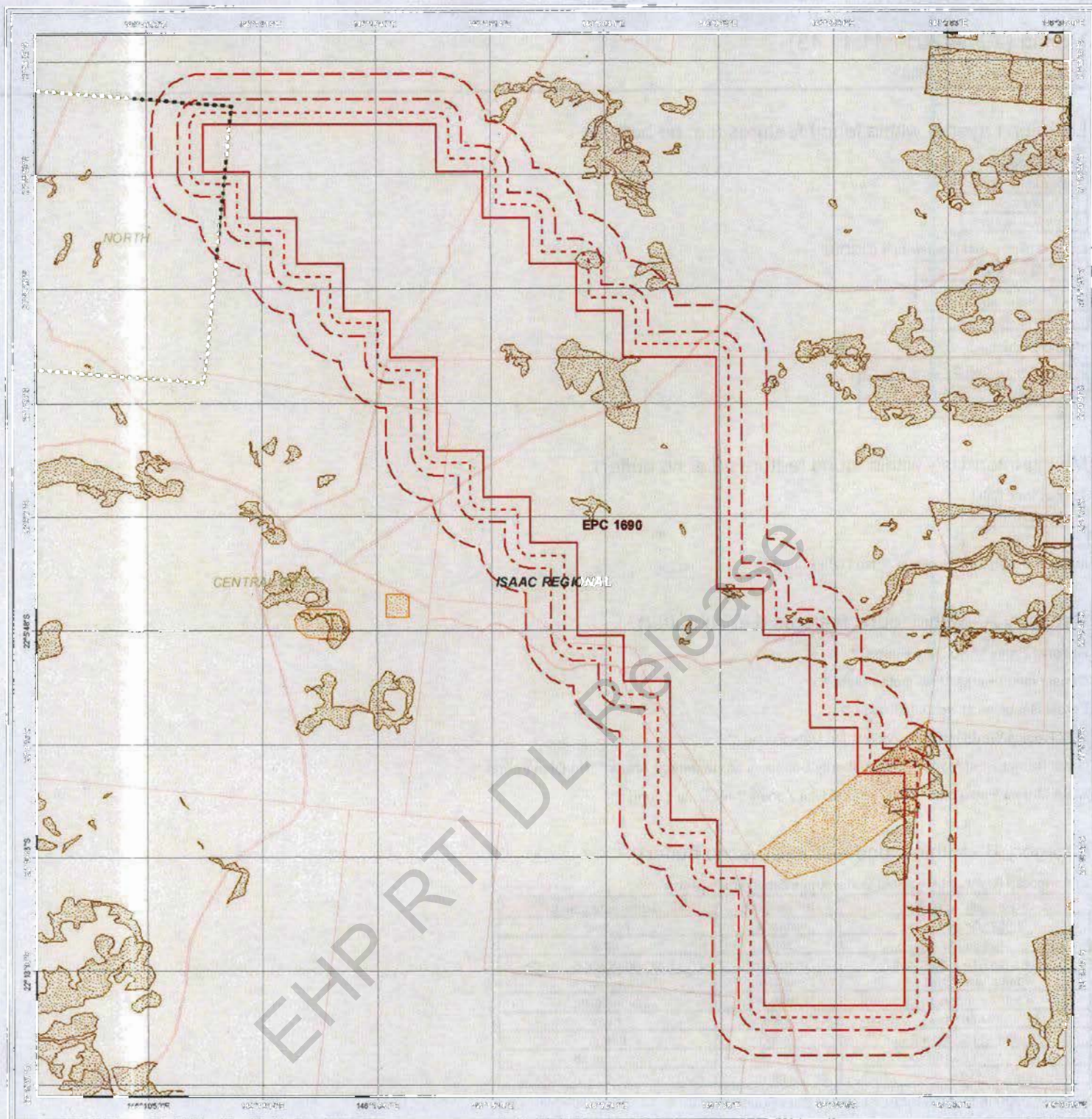
CROW :

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	PaLM CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	PaLM CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	PaLM CSU Staff:			

Date	Person Contacted:		Phone No:	
	Information Requested:			
	Response:			
	PaLM CSU Staff:			



MINING LAYERS

Reference to 2014/15/16 Mining Plan

Highlighted features found
1990-2000

Legend

Area of Interest

- Selected area
- 500 metre buffer
- 1000 metre buffer
- 2000 metre buffer

Environmentally Sensitive Areas for Mining

- Category A
- Category B
- Category C
- Category D Points

Water River Areas

- Declared High Preservation Areas
- Proposed High Preservation Areas
- Proposed High Preservation Areas
- Proposed Low Preservation Areas
- Proposed Low Preservation Areas
- Proposed Low Preservation Areas

LOCAL GOVERNMENT AREAS

- DERM Regions
- Councils
- Freeways, Motorways and Highways
- Secondary or Local Connector Roads, Streets
- One Roads and Tolls
- Railway Lines
- Towns

This data has been prepared with care and diligence and is based on the best available information at the time of publication. The data is not intended to be used for any purpose other than that for which it was prepared. The data is not intended to be used for any purpose other than that for which it was prepared. The data is not intended to be used for any purpose other than that for which it was prepared.

* Layers shown for each of Category A, B and C on the map are shown together in one symbol. These layers are individually identifiable in the accompanying report on the subject, sublayers.

This data is not intended to be used for any purpose other than that for which it was prepared. The data is not intended to be used for any purpose other than that for which it was prepared. The data is not intended to be used for any purpose other than that for which it was prepared.

Prepared by:
Environmental Protection Agency
Department of Environment and Heritage
© State of Queensland 2014



ECO
EPA

0 10 20 30 40 50 km
1:50,000
This is a map of the Isaac Regional Council area. It shows the boundaries of the council and the locations of the mining layers. The map is based on the best available information at the time of publication.

Location Layers - within found features (i.e. no buffer)

DERM Regions

DERM Region
NORTH
CENTRAL WEST

Local Government Boundaries (DODB)

LGA Name
CHARTERS TOWERS REGIONAL
ISAAC REGIONAL

Mining Districts

Mining District Name
CHARTERS TOWERS
EMERALD

Mining Interests - within found features (i.e. no buffer)

Trigger for ECSU

Grid Number
7549

Indigenous Cultural Heritage ** No Data Found **

Category A - within found features (i.e. no buffer)

National Parks ** No Data Found **

Conservation Parks ** No Data Found **

Forest Reserves ** No Data Found **

Wet Tropics World Heritage Area ** No Data Found **

Great Barrier Reef Marine Park Authority Boundary Management Areas ** No Data Found **

State Marine Parks other than General Use Zones ** No Data Found **

Category B - within found features (i.e. no buffer)

Endangered Remnant Regional Ecosystems Biodiversity Status

Regional Ecosystem	RE Percent	Biodiversity Status
10.4.540.4.3400.5.5a	8000/10	VC1ENC
10.3.034.0.3.25	50/50	NONE
11.4.1011.1.5011.2.3011.3.1	2015/405	NOLOGICIE
10.4.310.4.3a0.3.6a	8000/10	VC1ENC
11.3.541.3.1011.3.311.3.3	9000/2000	OCINGIEG
11.4.611.3.10	8000	ENC
11.4.611.3.1001.3.8	5430/5	ENCIE
11.4.511.4.6011.3.3211.3.1011.3.8	7500/255	ENCINGIE
11.4.5	100	E

Koala Plan 2006 to 2016 for ECSU ** No Data Found **

Queensland Heritage Register Boundaries ** No Data Found **

Fish Habitat Areas (QLD Fisheries Act 1994) ** No Data Found **

Marine Plants ** No Data Found **

Forest Special Management Areas (SMA) ** No Data Found **

Cultural Heritage Registered Areas ** No Data Found **

Designated Landscape Areas other than Stanbrooke ** No Data Found **

General Use Zones of Marine Parks ** No Data Found **

World Heritage Areas (QLD) ** No Data Found **

Ramsar Sites (QLD) ** No Data Found **

Coordinated Conservation Areas ** No Data Found **

Category C - within found features (i.e. no buffer)

Nature Refuges

Lot Number	Plan Number	Refuge name	NRM Regional Body
1	SP164918	Bygonia West Nature Refuge	Burdekin

Palmer River Historic Mining Sites ** No Data Found **

Dams, Weirs, Barrages - QLD 100k (NRM) ** No Data Found **

Erosion Prone Area Plans ** No Data Found **

State Forests and Timber Reserves ** No Data Found **

Stannbrook Designated Landscape Area ** No Data Found **

River Improvement Trust Areas ** No Data Found **

Declared Irrigation Areas (Boundaries) ** No Data Found **

Declared Catchments of Dams of QLD (NRM) ** No Data Found **

Resources Reserves ** No Data Found **

Coastal Management Control Districts ** No Data Found **

Wet Tropical Coast Coastal Management District ** No Data Found **

SE0 RCIIP Coastal Management District ** No Data Found **

Curtis Coast Coastal Management District ** No Data Found **

Cardwell Hinchinbrook Coastal Management District ** No Data Found **

Wild Rivers Layers - within found features (i.e. no buffer)

Wild River Nominated Waterways Proposed ** No Data Found **

Wild River Nominated Waterways - Declared ** No Data Found **

Wild River Preservation Area Boundaries Proposed ** No Data Found **

Wild River Preservation Area Boundaries - Declared ** No Data Found **

Category A - 500m Buffer

National Parks ** No Data Found **

Conservation Parks ** No Data Found **

Forest Reserves ** No Data Found **

Wet Tropics World Heritage Area ** No Data Found **

Great Barrier Reef Marine Park Authority Boundary Management Areas ** No Data Found **

State Marine Parks other than General Use Zones ** No Data Found **

Category B - 500m Buffer

Endangered Remnant Regional Ecosystems Biodiversity Status

Regional Ecosystem	RE Percent	Biodiversity Status
10/2/10/2 - 5/1/5/5	80/10/10	OO/ENC
10/2/10/2/5	50/50	ENC
11/2/10/1/3/1/1/3/1/3/1	70/10/10/5	NO/OC/OC
10/2/10/2/5/1/5/1/5/1	80/10/10	OO/ENC
11/2/10/1/3/1/1/3/1/3/1	80/20/20/10	OO/ENC/OC
11/2/10/1/3/1	50/20	ENC
11/2/10/1/3/1/1/3/1	60/20/5	ENC/OC
10/2/10/2/5/1/5/1/5/1	70/20/10	OC
11/2/10/1/3/1/1/3/1/3/1/1/3/1	70/10/5/10/5	EE/OC/NO/OC
N.A.B.	100	EE

Koala Plan 2006 to 2016 for EGSU ** No Data Found **

Queensland Heritage Register Boundaries ** No Data Found **

Fish Habitat Areas (QLD Fisheries Act 1984) ** No Data Found **

Marine Plants ** No Data Found **

Forest Special Management Areas (SMA) ** No Data Found **

Cultural Heritage Registered Areas ** No Data Found **

Designated Landscape Areas other than Stannbrook ** No Data Found **

General Use Zones of Marine Parks ** No Data Found **

World Heritage Areas (QLD) ** No Data Found **

Ramsar Sites (QLD) ** No Data Found **

Coordinated Conservation Areas ** No Data Found **

Features Found: SPC: 1690

Category C - 500m Buffer

Nature Refuges

Lot Number	Plan Number	Refuge name	NRM Regional Body
1	SP104912	Bygonia West Nature Refuge	Burdock

Palmer River Historic Mining Sites ** No Data Found **

Dams, Weirs, Barrages - QLD 100k (NRM) ** No Data Found **

Erosion Prone Area Plans ** No Data Found **

State Forests and Timber Reserves ** No Data Found **

Stanbrooke Designated Landscape Area ** No Data Found **

River Improvement Trust Areas ** No Data Found **

Declared Irrigation Areas (boundaries) ** No Data Found **

Declared Catchments of Dams of QLD (NRM) ** No Data Found **

Resources Reserves ** No Data Found **

Coastal Management Control Districts ** No Data Found **

Wet Tropical Coast Coastal Management District ** No Data Found **

SEQ RCMP Coastal Management District ** No Data Found **

Curtis Coast Coastal Management District ** No Data Found **

Cardwell-Hinckinbrook Coastal Management District ** No Data Found **

Wild Rivers Layers - 500m Buffer

Wild River Nominated Waterways Proposed ** No Data Found **

Wild River Nominated Waterways - Declared ** No Data Found **

Wild River Preservation Area Boundaries Proposed ** No Data Found **

Wild River Preservation Area Boundaries - Declared ** No Data Found **

Category A - 1000m Buffer

National Parks ** No Data Found **

Conservation Parks ** No Data Found **

Forest Reserves ** No Data Found **

Wet Tropics World Heritage Area ** No Data Found **

Great Barrier Reef Marine Park Authority Boundary Management Areas ** No Data Found **

State Marine Parks other than General Use Zones ** No Data Found **

Category B - 1000m Buffer

Endangered Remnant Regional Ecosystems Biodiversity Status

Regional Ecosystem	RE Percents	Biodiversity Status
184.54/43.34/0.5.5a	80/10/0	CR/ENC
103.52/10.2.2c	50/50	None
113.10/11.3.5/11.3.3.1	70/10/10/0	NG/CR/CR/CR
104.5/10.3.3/10.3.0.5	80/10/10	CR/ENC
113.5/11.3.10/11.3.4/11.3.3	50/20/20/10	CR/NG/CR/CR
114.60/1.3.1b	10/0/0	CR/CR
114.6/1.3.10/1.3.1.2.2	65/0/0/5	CR/NG/CR
114.5/11.4.5/11.3.3/11.3.0/11.3.6	15/0/0/5/5	CR/CR/CR/CR
104.5/10.3.3/10.3.0.5	10/20/0/0	CR/CR
11.4.6	10/0	CR

Koala Plan 2006 to 2016 for ECSU ** No Data Found **

Queensland Heritage Register Boundaries ** No Data Found **

Fish Habitat Areas (QLD Fisheries Act 1994) ** No Data Found **

Marine Plants ** No Data Found **

Forest Special Management Areas (SMA) ** No Data Found **

Cultural Heritage Registered Areas ** No Data Found **

Designated Landscape Areas other than Stanbrooke ** No Data Found **

Features Found: EHP 1000

General Use Zones of Marine Parks ** No Data Found **

World Heritage Areas (OLD) ** No Data Found **

Biosphere Sites (OLD) ** No Data Found **

Coastal (as) Conservation Areas ** No Data Found **

Category C - 1000m Buffer

Nature Refuges

Ref Number	Plan Number	Refuge name	NRM Regional Body
1	SP21/240	Ingogo West Nature Refuge	Butchula

Palmer River Historic Mining Sites ** No Data Found **

Dams, Weirs, Barrages - OLD 1000 (NRM) ** No Data Found **

Eastern Alpine Area Plans ** No Data Found **

State Forests and Timber Reserves ** No Data Found **

Stannards Pastoral Landscape Area ** No Data Found **

River Improvement Trust Areas ** No Data Found **

Declared Irrigation Areas (boundaries) ** No Data Found **

Declared catchments of Dams of OLD (NRM) ** No Data Found **

Resource Reserves ** No Data Found **

Coastal Management Control Districts ** No Data Found **

West Torrell Coast Coastal Management District ** No Data Found **

SEO RCMF Coastal Management District ** No Data Found **

Gulls Coast Coastal Management District ** No Data Found **

Hardwell Harbour of Coastal Management District ** No Data Found **

Wild Rivers Layers - 1000m Buffer

Wild River Nominated Waterways Proposed ** No Data Found **

Wild River Nominated Waterways - Declared ** No Data Found **

Wild River Preservation Area Boundaries Proposed ** No Data Found **

Wild River Preservation Area Boundaries - Declared ** No Data Found **

Category A - 2000m Buffer

National Parks ** No Data Found **

Conservation Parks ** No Data Found **

Forest Reserves ** No Data Found **

Wet Tropics World Heritage Area ** No Data Found **

Great Barrier Reef Marine Park Authority Boundary Management Areas ** No Data Found **

State Marine Parks and Other General Use Zones ** No Data Found **

Category B - 2000m Buffer

Endangered Remnant Regional Ecosystems Biodiversity Status

Regional Ecosystem	RE Percent	Biodiversity Status
1005102/2810600	00/0/00	00/END
1005102/2810600	00/0/00	00/END
1105101/1301122/1100	20/0/00	00/00/00
1005102/2810600	00/0/00	00/END
1105101/1301122/1100	00/0/00	00/END/00
1105101/1301122/1100	00/0/00	END
1105101/1301122/1100	00/0/00	END
1105101/1301122/1100	00/0/00	END/00/00
1005102/2810600	00/0/00	00/END
1105101/1301122/1100	00/0/00	00/END
1105101/1301122/1100	00/0/00	END

Koola Plan 2010 to 2016 for EGAU ** No Data Found **

Queenland Heritage Register Boundaries ** No Data Found **

Fish Habitat Areas (QLD Fisheries Act 1994) ** No Data Found **

Marine Plants ** No Data Found **

Forest Special Management Areas (SMA) ** No Data Found **

Cultural Heritage Registered Areas ** No Data Found **

Designated Landscape Areas other than Stanbrooke ** No Data Found **

General Use Zones of Marine Parks ** No Data Found **

World Heritage Areas (QLD) ** No Data Found **

Ramsar Sites (QLD) ** No Data Found **

Coordinated Conservation Areas ** No Data Found **

Category C - 2000m Buffer

Nature Refuges

Lot Number	Plan Number	Refuge name	NRM Regional Body
1	SP164918	Dyanna West Nature Refuge	Bundaberg

Palmer River Historic Mining Sites ** No Data Found **

Dams, Weirs, Barrages - QLD 100k (NRM) ** No Data Found **

Erosion Prone Area Plans ** No Data Found **

State Forests and Timber Reserves ** No Data Found **

Stanbrooke Designated Landscape Area ** No Data Found **

River Improvement Trust Areas ** No Data Found **

Declared Irrigation Areas (boundaries) ** No Data Found **

Declared Catchments of Dams of QLD (NRM) ** No Data Found **

Resources Reserves ** No Data Found **

Coastal Management Control Districts ** No Data Found **

Wet Tropical Coast Coastal Management District ** No Data Found **

SEQ RCMP Coastal Management District ** No Data Found **

Curtis Coast Coastal Management District ** No Data Found **

Cardwell Hinchinbrook Coastal Management District ** No Data Found **

Wild Rivers Layers - 2000m Buffer

Wild River Nominated Waterways Proposed ** No Data Found **

Wild River Nominated Waterways - Declared ** No Data Found **

Wild River Preservation Area Boundaries Proposed ** No Data Found **

Wild River Preservation Area Boundaries - Declared ** No Data Found **

Notice

Assessment level and EIS decision for application to amend an Environmental Authority (Mining Activities) Non Code Compliant Level 1 Mining Project

This statutory notice is issued by the administering authority pursuant to sections 246, 248 and 249 of the Environmental Protection Act 1994 to advise you of assessment level and EIS decisions regarding your application to amend an environmental authority (mining activities).

Adani Mining Pty Ltd
C/- Hamish Manzi
GPO Box 2569
BRISBANE QLD 4001

The Mining Registrar
Department of Natural Resources and Mines
PO Box 245
EMERALD QLD 4720

Our Reference: 333466

Dear Sir

Re: Application for amendment of Environmental Authority (MIN102643011) Non Code Compliant Level 1 Mining Project, (EPC 1690)

The Department of Environment and Heritage Protection (EHP) has assessed the application received on (10 May 2012) to amend environmental authority **MIN102643011** and advises that the assessment level decision for the amendment application is significant increase in environmental harm is likely.

EHP has also decided that an Environmental Impact Statement (EIS) is not required for the proposed amendment. The EIS decision was made by DERM in accordance with section 246 of the *Environmental Protection Act 1994*.

Your application has been forwarded for assessment to the Emerald office.

If you require further information please contact Rebecca Blades, the Project Manager, on (07) 4987 9307.

Yours sincerely

sch4p4(6) Personal information

Derek Robson
Delegate
Department of Environment and Heritage
Protection
18 June 2012

Enquiries:
Department of Environment and Heritage
Protection
PO Box 19
EMERALD QLD 4720

Ph. (07) 4987 9307
Fax. (07) 4982 2568

Notice

Environmental Protection Act 1994

Notice of amendment or replacement of environmental management plan (exploration permit or mineral development licence)

This notice is issued under s. 190 of the Environmental Protection Act 1994. This "Environmental management plan (exploration permit or mineral development licence) amendment notice (EM Plan (EP or MDL) amendment notice)" is to be used for notifying the administering authority of an amendment to, or replacement of, a submitted EM Plan (EP or MDL). Once completed, the EM Plan (EP or MDL) amendment notice should be forwarded to the administering authority to which the original EM Plan (EP or MDL) was submitted.

Date: 6 November 2012
Your name: Melinda Bergmann, Environment Manager (Mines)
Your contact details: 3037 5510, melinda.bergmann@adani.com

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Tristan Roberts (Insert contact officer's name)

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

Application by (proponent name/company name): Adani Mining Pty Ltd, ABN 27 145 455 205
Dated: Original amendment of Environmental Authority application - 12 July 2012 Resubmission of Environmental Management Plan based on feedback from the department - 31 August 2012 Resubmission of Environmental Management Plan based on feedback from the department -25 September 2012 Resubmission of updated Environmental Management Plan - 6 November 2012
For the proposed (description of project): Amendment of Environmental Authority conditions to allow for increase in camp capacity and regular changes within the drilling program and activities and supporting details in the Environmental Management Plan
Related to tenure application number: Application to amend an environmental authority (mining activity) for a level 1 mining project - Environmental Authority Number MIN102643011, Tenement Number EPC1690

Notice

**Notice of amendment or replacement of environmental management plan
(exploration permit or mineral development licence)**

Please find enclosed:

- ☐ An amended Environmental Management Plan (exploration permit or mineral development licence)
- ☒ A replacement Environmental Management Plan (exploration permit or mineral development licence)

(Select as relevant)

for the above mentioned application.

I advise that the endorsed amendment/replacement relates to the original/current EM Plan (EP or MDL), titled:

TITLE & DATE ON ORIGINAL OR CURRENT EM PLAN (EP or MDL)

Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 16690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

SIGNATURE	DATE
	6 November 2012

YOUR NAME
Craig Dowling
YOUR POSITION
Director, Approvals and Corporate Affairs
COMPANY NAME
Adani Mining Pty Ltd

Notice

Environmental Protection Act 1994

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Date: 21 December 2012
Your name: Melinda Bergmann, Environment Manager (Mines)
Your contact details: 3037 55104 (6) Personal information melinda.bergmann@adani.com

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Adam Gilmour
(Insert contact officer's name)

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

Application by (proponent name/company name): Adani Mining Pty Ltd, ABN 27 145 455 205
Dated: Original amendment of Environmental Authority application - 12 July 2012 Resubmission of Environmental Management Plan based on feedback from the department - 31 August 2012 Resubmission of Environmental Management Plan based on feedback from the department - 25 September 2012 Resubmission of updated Environmental Management Plan - 6 November, 17 & 21 December 2012
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- ☐ An amended Environmental Management Plan (exploration permit or mineral development licence)
- ☒ A replacement Environmental Management Plan (exploration permit or mineral development licence)

(Select as relevant)

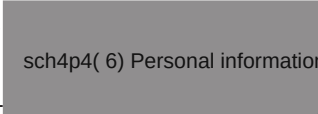
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I advise that the endorsed amendment/replacement relates to the original/current EM Plan (EP or MDL), titled:

TITLE & DATE ON ORIGINAL OR CURRENT EM PLAN (EP or MDL)

Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 1690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

SIGNATURE	 sch4p4(6) Personal information	DATE	21 December 2012
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YOUR NAME	Craig Dowling
YOUR POSITION	Director, Approvals and Corporate Affairs
COMPANY NAME	Adani Mining Pty Ltd

Notice

Environmental Protection Act 1994

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Date: 25 September 2012

Your name: Melinda Bergmann, Environment Manager (Mines)

Your contact details: 3037 5510, melinda.bergmann@adani.com

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Tristan Roberts

(Insert contact officer's name)

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

Application by (proponent name/company name): Adani Mining Pty Ltd, ABN 27 145 455 205

Dated: Original amendment of Environmental Authority application - 12 July 2012

Resubmission of Environmental Management Plan based on feedback from the department - 31 August 2012

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For the proposed (description of project): Amendment of Environmental Authority conditions to allow for increase in camp capacity and regular changes within the drilling program and activities and supporting details in the Environmental Management Plan

Related to tenure application number: Application to amend an environmental authority (mining activity) for a level 1 mining project - Environmental Authority Number MIN102643011, Tenement Number EPC1690

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- ☐ An amended Environmental Management Plan (exploration permit or mineral development licence)
- ☒ A replacement Environmental Management Plan (exploration permit or mineral development licence)

(Select as relevant)

for the above mentioned application.

I advise that the endorsed amendment/replacement relates to the original/current EM Plan (EP or MDL), titled:

TITLE & DATE ON ORIGINAL OR CURRENT EM PLAN (EP or MDL)

Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 16690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

<p>SIGNATURE</p> <p>sch4p4(6) Personal information</p>	<p>DATE</p> <p>25 September 2012</p>
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<p>YOUR NAME</p> <p>Hamish Manzi</p>
<p>YOUR POSITION</p> <p>General Manager, Environment and Sustainability</p>
<p>COMPANY NAME</p> <p>Adani Mining Pty Ltd</p>

Notice

Environmental Protection Act 1994

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Date: 23 January 2013
Your name: Melinda Bergmann, Environment Manager (Mines)
Your contact details: (07) 30375510

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Adam Gilmour (Insert contact officer's name)
--

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

Application by (proponent name/company name): Adani Mining Pty Ltd, ABN 27 145 455 205
Dated: Original amendment of Environmental Authority application - 12 July 2012 Resubmission of Environmental Management Plan based on feedback from the department - 31 August 2012 Resubmission of Environmental Management Plan based on feedback from the department - 25 September 2012 Resubmission of updated Environmental Management Plan - 6 November, 17 & 21 December 2012 Resubmission of updated Environmental Management Plan - 23 January 2013 based on feedback from the department
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Notice of amendment or replacement of environmental management plan (exploration permit or mineral development licence)

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Please find enclosed:

- ☐ An amended Environmental Management Plan (exploration permit or mineral development licence)
- ☒ A replacement Environmental Management Plan (exploration permit or mineral development licence)

(Select as relevant)

for the above mentioned application.

I advise that the endorsed amendment/replacement relates to the original/current EM Plan (EP or MDL), titled:

TITLE & DATE ON ORIGINAL OR CURRENT EM PLAN (EP or MDL)

Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 1690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

<p>SIGNATURE</p> <p>sch4p4(6) Personal information</p>	<p>DATE</p> <p>23 January 2013</p>
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<p>YOUR NAME</p> <p>Craig Dowling</p>
<p>YOUR POSITION</p> <p>Director, Approvals and Corporate Affairs</p>
<p>COMPANY NAME</p> <p>Adani Mining Pty Ltd</p>

Notice**Environmental Protection Act 1994****Assessment level decision**

This notice is issued by the administering authority¹, pursuant to section 229 of the Environmental Protection Act 1994 to advise whether a proposed amendment to an environmental authority is a major or minor amendment.

To: Adani Mining Pty Ltd
Level 30, AMP Place
10 Eagle Street
BRISBANE QLD 4000

Email: hamish.manzi@adani.com

Your reference: EPPR00745013

Our reference: 333466

Assessment level decision for an application to amend an environmental authority

1. **Application details** The application to amend the environmental authority (reference EPPR00745013) was received by the administering authority on 24-Sep-2013.
Land description: EPC1690.
2. **Decision**
The assessment level decision for this application is that the proposed amendment to the environmental authority is a major amendment.
3. **Grounds for the decision**
 - The application proposes an addition to the surface area for the relevant activity of more than 10% of the existing area
4. **Review and appeal rights**
You may apply to the administering authority for a review of this decision within 10 business days after receiving this notice. You may also appeal against this decision to the Land Court. Information about your review and appeal rights is attached to this notice. This information is guidance only and you may have other legal rights and obligations.

¹ The Department of Environment and Heritage Protection is the administering authority under the *Environmental Protection Act 1994*.

sch4p4(6) Personal information

Signature

Melissa Wells
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

9/10/13

Date

Enquiries:

Adam Gilmour
ES - Reg Serv - Central West -Mining -
Emerald Office
PO Box 3028
99 Hospital Road
EMERALD QLD 4720
Phone: (07) 4987 9342
Fax: (07) 4987 9399
Email: adam.gilmour@ehp.qld.gov.au

EHP RTI DL Release

Notice

Environmental Protection Act 1994

Notice of amendment or replacement of environmental management plan (exploration permit or mineral development licence)

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Date: 15 February 2013

Your name: Melinda Bergmann, Environment Manager (Mines)

Your contact details: (07) 30375510

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Adam Gilmour

(Insert contact officer's name)

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

Application by (proponent name/company name): Adani Mining Pty Ltd, ABN 27 145 455 205

Dated: Original amendment of Environmental Authority application - 12 July 2012

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(Select as relevant)

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Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 1690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

SIGNATURE

sch4p4(6) Personal information

DATE

15 February 2013

YOUR NAME

Hamish Manzi

YOUR POSITION

General Manager, Environment and Sustainability

COMPANY NAME

Adani Mining Pty Ltd

Notice

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Date: 25 February 2013

Your name: Melinda Bergmann, Environment Manager (Mines)

Your contact details: (07) 30375510

The Chief Executive
Department of Environment and Heritage Protection
GPO Box 2454
Brisbane QLD 4001

Attention: Adam Gilmour

(Insert contact officer's name)

Re: Application for environmental authority ☒ exploration; or, ☐ mineral development

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Resubmission of updated Environmental Management Plan - 6 November, 17 & 21 December 2012

Resubmission of updated Environmental Management Plan - 23 January, 15 & 25 February 2013 based on feedback from the department

For the proposed (description of project): Amendment of Environmental Authority conditions to allow for increase in camp capacity and regular changes within the drilling program and activities and supporting details in the Environmental Management Plan

Notice

**Notice of amendment or replacement of environmental management plan
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(Select as relevant)

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Adani Mining Pty Ltd - Environmental Management Plan; Exploration Permit for Coal (EPC) 1690

The amendment/replacement is in accordance with the EM Plan (EP or MDL) requirements outlined in section 189 of the *Environmental Protection Act 1994*.

SIGNATURE

sch4p4(6) Personal information

DATE

25 February 2013

YOUR NAME

Hamish Manzi

YOUR POSITION

General Manager, Environment and Sustainability

COMPANY NAME

Adani Mining Pty Ltd

Notice

Environmental Protection Act 1994

Decision – transfer application

This statutory notice is issued by the administering authority pursuant to Section 264 of the Environmental Protection Act 1994 to advise you of a decision or action.

Tenures Support Unit
Mineral and Coal Team
Department of Employment, Economic Development
and Innovation
PO Box 1475
COORPAROO QLD 4151

Our Reference: 333466

Dear H.V. Mishra

Re: Transfer of environmental authority (mining activities) No. MIC200857709

The administering authority has assessed the application received on 04-AUG-2010 to transfer environmental authority (mining activities) No. MIC200857709 from Linc Energy Ltd to Adani Mining Pty Ltd and wishes to advise you that the application has been granted.

The relevant mining tenement approved for transfer is EPC1690. Please discharge the financial assurance held for environmental authority MIC200857709 to the transferor(s) when lodgement of the financial assurance, to the amount of \$0.00 or equal to the current amount held, has been received from the transferee(s).

This Notice of Decision and the attached amended environmental authority constitute the permit documentation. For code compliant level 2 projects no environmental authority is attached because the standard environmental conditions in the relevant Code of Environmental Compliance are the conditions of the environmental authority.

Please note that the transferee(s) must, within 10 business days, give each owner of the land to which the environmental authority relates written notice that the authority has been transferred to the transferee. If the environmental authority holder becomes aware of any inconsistency between the amended environmental authority and the plan of operations, the plan must be amended within 28 days, in a way so that it is no longer inconsistent with the authority.

If you require more information please contact Steve Bertram, the Project Manager, on 1300 130 372.

Yours sincerely

Tony Schmid
Delegate
Department of Environment and
Resource Management
04-AUG-2010

Enquiries:
Permit and Licence Management
GPO Box 2454
BRISBANE QLD 4001
Ph. **1300 130 372**
Fax. (07) 3896 3342

☒ For Regional Information & Filing

☐ Regional Action Required

DERM District Office: *mackay*

Crow No: *47617*

Project No: *333466*

Client No: *649121*



PaLM Customer Service Unit
APPLICATION VALIDATION CHECKLIST
Mining Environmental Authority – Annual Return

Company / Business / Individual Name: *Adani Mining Pty Ltd*

Received Date: *17/11/10*

Assessing Officer: *sch4p4(6) Personal information*

EA Number: *mic200857709*

Tenure(s): *EPC1690*

Application will be considered invalid if there is ☒ against any item

NEW APPLICATION

☒ or ☒

Correct Form Used & Attached ☒

Registered Business Address ☒

Forms Signed and Dated ☒

Entered by PALM ☒

Payment Method

EFT ☐ Cash ☐ Credit ☐ Cheque ☐ Cheque No

Receipt No: Receipt Date: / / Amount paid: \$.....

Drawer As Above ☐

Signed and Attached to Ecotrack YES ☐ NO ☐

Fee Waiver application Lodged – YES ☐

ECSU Comments:

.....
.....
.....

Notice

Environmental Protection Act 1994 Section 290

Notice of correction of an environmental authority (mining activities)

This notice is issued by the administering authority pursuant to section 290 of the Environmental Protection Act 1994 to advise you that it is proposed to amend an environmental authority (mining activities) to correct a clerical or formal error.

Adani Mining Pty Ltd
Level 30, AMP Place
10 Eagle Street
BRISBANE QLD 4000

Your reference : MIN200857709

Our reference : EMD2917

Attention: Mr Hamish Manzi

Dear Mr Manzi,

Environmental Authority (exploration), number MIN200857709, held by Adani Mining Pty Ltd for Exploration Permit Coal (EPC 1690).

You are hereby advised that the above mentioned environmental authority(exploration), is to be amended in the following manner:

Conversion of Environmental Authority (EA) from MIN200857709 to MIN102643011. The Department of Environment and Resource Management (the department) is required to convert the EA MIN200857709 to MIN102643011 to detail the correct permit number for reporting purposes. Please note that the Environmental Authority conditions will not change with this conversion.

If you consider that the above amendment may adversely affect the interests of the holders, you are advised to contact Tanya Madigan, Environmental Support Officer, of the department on 07 4987 9347, within 5 business days of receipt of this notice.

The amended environmental authority shall be forwarded to you within 10 business days.

Notice of correction of an environmental authority (mining activities)

Signature

3 February 2012

Date

Christopher Loveday
Manager, Environmental Services - Mining
Delegate of Administering Authority
Environmental Protection Act 1994

Enquiries:
Department of Environment and Resource
Management
Central West Region - Emerald
PO Box 19
Emerald Qld 4720

Ph. **07 4987 9320**
Fax. **07 4987 9399**

EHP RTI DL Release

Environmental Protection Act 1994 Section 290

Notice of Decision – Environmental Authority

This notice is issued by the Department of Environment and Resource Management to advise of a statutory decision made under section 290 of the Environmental Protection Act 1994.

Adani Mining Pty Ltd
Level 30, AMP Place
10 Eagle Street
BRISBANE QLD 4000

CC Ken Hudspith
Mining Registrar
The Department of Employment
Economic Development & Innovation
PO Box 245
EMERALD QLD 4720

Our Reference: EPC1690

Dear Mr Hamish Manzi

Decision regarding correction of Non Code Compliant Level 1 Environmental Authority (Mining Lease) (EA) MIN102643011 (previously MIN200857709)

The Department of Environment and Resource Management (the department) has administratively amended the Non Code Compliant Level 1 Environmental Authority (Mining Lease) MIN200857709 under s290 of the *Environmental Protection Act 1994* as outlined in the "Notice of Correction of an Environmental Authority" sent to Adani Mining Pty Ltd 3 February 2012 and wishes to advise you of the decision as specified below:

Principal Holder	Mining Tenement	Environmental Authority number	Decision
Adani Mining Pty Ltd	EPC1690	MIN102643011	Granted

If you require more information please contact Tanya Madigan, Environmental Services Officer, of the department on (07) 4987 9347.

Notice of Decision – Environmental Authority

Christopher Loveday
Delegate of administering authority
Environmental Protection Act 1994
9 February 2012

Enquiries:
Department of Environment and Resource
Management
Central West Region
PO Box 19
Emerald Qld 4720
Telephone: 07 4987 9320
Facsimile: 07 4987 9399

EHP RTI DL Release

**Environmental Authority (exploration and mineral development) for Non Code
Compliant Level 1 Mining Project**

Permit number: MIN102643011 – Adani Exploration Program

Environmental Protection Act 1994

Takes Effect From: 11 August 2011

Details

Permit Holder(s)	Name	Address
Principal Holder	Adani Mining Pty Ltd	Level 30, AMP Place 10 Eagle Street Brisbane Qld 4000

Activity(s)	Location(s)
Exploration - Coal	EPC1690

The anniversary date of the environmental authority is 6 February.

The environmental authority is subject to the attached conditions of approval.

Christopher Loveday
Delegate
Environmental Protection Act 1994
9 February 2012

CONDITIONS OF ENVIRONMENTAL AUTHORITY

Department Interest: General

- A1** Provide a financial assurance in the amount and form required by the administering authority prior to the commencement of activities proposed under this environmental authority.
- A2** The financial assurance is to remain in force until the administering authority is satisfied that no claim on the assurance is likely.
Note: Where progressive rehabilitation is completed and acceptable to the administering authority, progressive reductions to the amount of financial assurance will be applicable where rehabilitation has been completed in accordance with the acceptance criteria defined within this environmental authority.
- A3** The conditions of this environmental authority are in force until a surrender of the authority is accepted pursuant to the *Environmental Protection Act 1994*. The conditions apply unless an amendment is approved pursuant to the *Environmental Protection Act 1994*.
- A4** The environmental authority holder must develop and implement during the continuation of this authority, a program to ensure that all employees and contractors on site are aware of and comply with the relevant requirements of this authority.
- A5** If there is any inconsistency between a standard environmental condition referred to in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* and an additional condition in this environmental authority, the additional condition prevails to the extent of any inconsistency.
- A6** Words and phrases used throughout this environmental authority are defined in the Definitions section of this authority. Where a definition for a term used in this environmental authority is sought and the term is not defined within this environmental authority, the definitions in the *Code of Environmental Compliance for Exploration and Mineral Development Projects* and the definitions in the *Environmental Protection Act 1994*, its regulations and policies must be used.

Activity

- A7** Contaminants must not be released to the receiving environment unless they are in accordance with the contaminant limits authorised by this environmental authority.
- A8** This environmental authority does not authorised environmental harm unless a condition contained within the authority explicitly authorises that harm. Where there is no condition or the authority is silent on a matter, the lack of a condition or silence shall not be construed as authorising harm.
- A9** Mining activities undertaken must be consistent with the “*Adani Mining Pty Ltd Environmental Management Plan Exploration Permit for Coal (EPC) 1690*”.

Maintenance of Measures, Plant and Equipment

- A10** The environmental authority holder must:
- install all measured, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and
 - maintain such measures, plant and equipment in a proper condition; and
 - operate such measures, plant and equipment in a proper manner.

Monitoring, Reporting and Emergency Response Procedures

- A11** The environmental authority holder must comply with each of the ‘Monitoring, Reporting and Emergency Response Procedures’ Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- A12** All reasonable actions are to be taken to minimise environmental harm, or potential environmental harm, resulting from any emergency, incident or circumstances not in accordance with the conditions of this environmental authority.

- A13** The holder must notify the administering authority by written notification as soon as practicable but within 24 hours 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.
- A14** The notification in condition A13 must include, but not be limited to, the following:
- a) The environmental authority number and name of the holder;
 - b) The name and telephone number of the designated contact person;
 - c) The location of the emergency or incident;
 - d) The date and time of the emergency or incident;
 - e) The time the holder of the environmental authority became aware of the emergency or incident;
 - f) Where known:
 - i. the estimated quantity and type of substances involved in the emergency or incident;
 - ii. the actual or potential cause of the emergency or incident;
 - iii. a description of the nature and effects of the emergency or incident including environmental risks, and any risks to public health or livestock;
 - g) Any sampling conducted or proposed, relevant to the emergency or incident;
 - h) Immediate actions taken to prevent or mitigate any further environmental harm caused by the emergency or incident; and
 - i) What notification of stakeholders who may be affected by the emergency or incident has occurred or is being undertaken.
- A15** As soon as practicable, but not more than 6 weeks following the initial notification of an emergency, incident or information about circumstances which result or may result in environmental harm, environmental monitoring must be performed and written advice must be provided of the results of any such monitoring performed to the administering authority.
- A16** The holder must notify, in writing, the occupiers or registered owners of affected land and any other potentially impacted stakeholder as soon as reasonably practicable after becoming aware of any emergency or incident that has the potential to impact on environmental values or breaches any condition of this environmental authority concerning releases of contaminants to the environment.
- A17** The notification in condition A16 must include the following:
- a) The location of the emergency or incident;
 - b) The date and time of the emergency or incident;
 - c) The estimated quantity and type of any substances involved in the emergency or incident;
 - d) The potential impacts to environmental values caused by the emergency or incident; and
 - e) Where there is potential impact on livestock or human health, precautionary measures that should be taken.
- A18** Record, compile and keep for a minimum of five (5) years all monitoring results required by this environmental authority and make available for inspection all or any of these records upon request by the administering authority.
- A19** Where monitoring is a requirement of this environmental authority, ensure that a competent person(s) conduct all monitoring.
- Environmentally Relevant Activities**
- A20** This environmental authority authorises the holder to undertake the Schedule 6, Environmentally Relevant Activities identified in *Table 1: Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008*.

Table 1: Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008

Environmentally Relevant Activity – Schedule 6 of the Environmental Protection Regulation 2008	Activity
1	drilling, costeaning, pitting or carrying out geological surveys causing significant disturbance

A21 This environmental authority authorises the holder to undertake the Schedule 2, Level 1 Environmentally Relevant Activities identified in *Table 2: Level 1 Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008*.

Table 2: Level 1 Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008

Environmentally Relevant Activity – Schedule 2 of the Environmental Protection Regulation 2008	Activity
8.1(a)	Chemical Storage consisting of storing 50t or more of chemicals of dangerous goods class 1 or class 2, division 2.3 in containers of at least 10m ³ .
63.2(b)	Sewage treatment consisting of operating sewage treatment works, other than no-release works, with a total daily peak design capacity of 100 to 1500 equivalent persons.

**Department Interest: Air
Air Quality**

B1 The environmental authority holder must comply with each of the 'Air Quality' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Dust nuisance

B2 Subject to conditions B3 and B4 the release of dust or particulate matter or both resulting from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.

B3 When requested by the administering authority, dust and particulate 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 or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.

- B4** If the environmental authority holder can provide evidence through monitoring that the following limits are not being exceeded then the holder is not in breach of B1:
- a) dust deposition of 120 milligrams per square metre per day, averaged over one month, when monitored in accordance with AS 3580.10.1 *Methods for sampling and analysis of ambient air - Determination of particulates - Deposited matter - Gravimetric method* of 1991 (or more recent editions), or
 - b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (μm) (PM10) suspended in the atmosphere of 50 micrograms per cubic metre over a 24 hour averaging time, at a sensitive or commercial place downwind of the operational land, when monitored in accordance with
 - i. particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet - Gravimetric method, when monitored in accordance with AS 3580.9.6 *Methods for sampling and analysis of ambient air - Determination of suspended particulate matter - PM (sub) 10 high volume sampler with size-selective inlet - Gravimetric method* of 1990 (or more recent editions), and
 - ii. any alternative method of sampling PM10, which may be permitted by the *Air Quality Sampling Manual* as published from time to time by the administering authority.
- B5** If monitoring indicates exceedence of the relevant limits in condition B4, then the environmental authority holder must:
- a) address the complaint including the use of appropriate dispute resolution if required, and
 - b) immediately implement dust abatement measures so that emissions of dust from the activity do not result in further environmental nuisance.
- Odour nuisance**
- B6** 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 nuisance sensitive or commercial place.

- B7** 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 or commercial place and the results must be notified within 14 days to the administering authority following completion of monitoring.
- B8** If the administering authority determines the odour released to constitute an environmental nuisance 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.

**Department Interest: Water
Erosion and Sediment Control**

- C1** The environmental authority holder must comply with each of the 'Erosion and Sediment Control' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

- C2** Contaminants must not be released from the site to any waters or the bed and banks of any waters.

**Department Interest: Noise
Noise Emissions**

- D1** The environmental authority holder must comply with each of the 'Noise Emissions' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- D2** Subject to conditions D3 and D4 noise from the mining activity must not cause an environmental nuisance, at any sensitive or commercial place.
- D3** When requested by the administering authority, noise 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 or commercial place, and the results must be notified within 14 days to the administering authority following completion of monitoring.
- D4** If the environmental authority holder can provide evidence through monitoring that the limits defined in *Table 3: Noise limits*, are not being exceeded then the holder is not in breach of condition D1. Monitoring must include:
- a) $L_{A, max adj, T}$
 - b) relevant background sound level
 - c) the level and frequency of occurrence of impulsive or tonal noise
 - d) atmospheric conditions including wind speed and direction
 - e) location, date and time of recording.
- D5** If monitoring indicates exceedence of the limits in *Table 3: Noise limits*, then the environmental authority holder must:
- a) address the complaint including the use of appropriate dispute resolution if required
 - b) immediately implement noise abatement measures so that emissions of noise from the activity do not result in further environmental nuisance.
- D6** The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's *Noise Measurement Manual*.

Table 3: Noise limits

Noise level dB(A)	Monday to Sunday (including public holidays)		
	7am - 6pm	6pm - 10pm	10pm - 7am
	Noise measured at a 'sensitive or commercial place'		
L _{A10} , adj, 10 mins	Background + 5	Background + 5	Background + 3
L _{A1} , adj, 10 mins	Background + 10	Background + 10	Background + 5

NOTE: Where "Background" means background sound pressure level measured in accordance with the latest edition of the administering authority's Noise Measurement Manual. Table 17 does not purport to set operating hours for the mining activities.

**Department Interest: Waste
Waste Management**

- E1** The environmental authority holder must comply with each of the 'Waste Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 21, which is replaced by condition **E2** of this environmental authority.
- E2** General waste must not be disposed of within EPC1690.
- E3** Regulated Waste must not be disposed of within Exploration Permit Coal 1690.
- Storage of tyres**
- E4** Scrap tyres stored awaiting disposal or transport for take-back and recycling, or waste-to-energy options must be stored in stable stacks and at least 10 metres from any other scrap tyre storage area, or combustible or flammable material, including vegetation.
- E5** All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10 metre radius of the scrap tyre storage area.
- Storage of waste**
- E6** A designated area or storage containers must be set aside for the laydown and segregation of wastes.
- E7** An effective fire break must be provided and maintained around all waste laydown areas.
- E8** All reasonable and practicable fire prevention measures must be implemented, including removal of grass and other materials within a 10m radius of all waste laydown areas.
- E9** Waste must not be burned or allowed to be burned on the mineral development licence unless by approval of the administering authority.
- E10** Waste batteries must be stored:
- in a bunded and roofed area, or
 - palletised and plastic wrapped.
- E11** Regulated waste may be temporarily stored on Exploration Permit Coal 1690 before being directed to a facility that can lawfully accept such waste.

- E12** All regulated waste removed from the site must be removed by a person who holds a current approval to transport such waste under the provisions of the *Environmental Protection Act 1994*.

**Department Interest: Land
Land Disturbance**

- F1** The environmental authority holder must comply with each of the 'Land Disturbance' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 2, which is replaced by condition **F2 to F5** of this environmental authority.
- F2** The operational area within the drill site must not exceed 1000m³, except for sites mentioned in conditions F3, F4 and F5.
- F3** The operational area within no more than 8 drill sites within Category B Environmentally Sensitive Areas may exceed 1000m³ but must not exceed 2000m³.
- F4** The operational area within no more than 11 drill sites within 500m of any Category B Environmentally Sensitive Area may exceed 1000m³ but must not exceed 2000m³.
- F5** The operational area within no more than 40% of drill sites located within areas not identified as: a Category B Environmentally Sensitive Area; within 500m of any Category B Environmentally Sensitive Area; or a Category C Environmentally Sensitive Area may exceed 1000m³ but must not exceed 2000m³.

Topsoil and Overburden Management

- F6** The environmental authority holder must comply with each of the 'Topsoil and Overburden Management' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Hazardous Contaminants

- E7** The environmental authority holder must comply with each of the 'Hazardous Contaminants' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F8** All flammable and combustible liquids must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current edition of AS 1940 – *Storage and Handling of Flammable and Combustible Liquids*.
- F9** Spillage of all flammable and combustible liquids must be controlled in a manner that prevents environmental harm.
- F10** All chemicals must be contained within an on-site containment system and controlled in a manner that prevents environmental harm and maintained in accordance with the current version of the relevant Australian Standard.
- F11** Spillage of all chemicals must be controlled in a manner that prevents environmental harm.
- F12** All explosives, corrosive substances, toxic substances, gases and dangerous goods must be stored and handled in accordance with the relevant Australian Standard.
- F13** All chemicals and flammable or combustible liquids stored on site that have the potential to cause environmental harm must be stored in or serviced by an effective containment system that is impervious to the materials stored and managed to prevent the release of liquids to waters or land. Where no relevant Australian Standard is available, the following must be applied:

- a) storage tanks must be bunded so that the capacity and construction of the bund is sufficient to contain at least 110% of a single storage tank or 100% of the largest storage tank plus 10% of the second largest storage tank in multiple storage areas, and
- b) drum storages must be bunded so that the capacity and construction of the bund is sufficient to contain at least 25% of the maximum design storage volume within the bund.

Spill Kit

F14 An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes, chemicals and flammable and combustible liquids associated with the activity must be kept at the site.

F15 Anyone operating with wastes, chemicals or flammable and combustible liquids under this approval must be trained in the use of the spill kit.

Nature Conservation

F16 The environmental authority holder must comply with each of the 'Nature Conservation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except condition 13, which is replaced by conditions of this environmental authority.

F17 The environmental authority holder must not undertake mining activities within any Category A Environmentally Sensitive Area (Attachment 1).

F18 The environmental authority holder must not undertake any mining activities within 1 kilometre of any Category A Environmentally Sensitive Area.

F19 The environmental authority holder must not undertake any mining activities within the gilgai wetlands, that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge), as identified in Attachment 2.

F20 The environmental authority holder must not undertake any mining activities within 500m of the gilgai wetlands that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge), as identified in Attachment 2.

F21 The environmental authority holder must not undertake any mining activities within the regional ecosystems 11.3.10/11.4.6/11.4.8, 11.3.10/11.4.6 that forms part of the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).

F22 The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within Category B Environmentally Sensitive Areas.

F23 The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within 500m of any Category B Environmentally Sensitive Area.

F24 The environmental authority holder is authorised to undertake the construction of rotary, core and LOX exploration drill holes within Category B Environmentally Sensitive Areas.

F25 The environmental authority holder is authorized to undertake no more than 20 drill holes within Category B Environmentally Sensitive Areas.

- F26** The environmental authority holder is authorized to undertake no more than 26 drill holes within 500m of any Category B Environmentally Sensitive Area.
- F27** The environmental authority holder is authorized to undertake no more than 4 drill holes within Category C Environmentally Sensitive Areas.
- F28** Spacing of gridlines with Category B Environmentally Sensitive Areas may only be undertaken at minimal intervals of 700m.
- F29** Spacing of gridlines with 500m of any Category B Environmentally Sensitive Area may only be undertaken at minimal intervals of 700m.
- F30** Spacing of gridlines within Category C Environmentally Sensitive Areas may only be undertaken at minimal intervals of 1400m.
- F31** The construction sumps within Category B Environmentally Sensitive Areas must not exceed 16m² each.
- F32** Topsoil stripping in Category B Environmentally Sensitive Areas is limited to the sump area of 16m²
- F33** The construction sumps within 500m of any Category B Environmentally Sensitive Area must not exceed 16m² each.
- F34** Topsoil stripping within 500m of any Category B Environmentally Sensitive Area is limited to the sump area of 16m²
- F35** The construction sumps within Category C Environmentally Sensitive Areas must not exceed 16m² each.
- F36** Topsoil stripping in the Category C Environmentally Sensitive Area is limited to the sump area of 16m²
- F37** The environmental authority holder is not authorised to undertake 2D seismic survey tracks in any Category B Environmentally Sensitive Area.
- F38** The environmental authority holder is not authorised to undertake 2D seismic survey tracks within 500m of any Category B Environmentally Sensitive Area.
- F39** The environmental authority holder is not authorised to undertake 2D seismic survey tracks within any Category C Environmentally Sensitive Area.
- F40** The environmental authority holder is not authorised to undertake 3D seismic survey tracks.
- F41** Habitat trees must be protected.
- F42** Trees or shrubs with nests of birds of prey (raptors) whether active or not, or visibly active non-raptor bird nests must be protected.
- F43** No clearing of mature trees is authorised except with approval of the administering authority.
- F44** Debris from clearing or felling of trees must not accumulate within two (2) metres of any retained tree.
- F45** Burning of vegetation is not permitted.

Other Level 2 Environmentally Relevant Activities

- F46** The environmental authority holder must comply with each of the 'Other Level 2 Environmentally Relevant Activities' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Roads and Tracks

- F47** The environmental authority holder must comply with each of the 'Roads and Tracks' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F48** Any new tracks within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge) must be constructed after written approval is provided by the background landholder. The written approval must be made available to the administering authority upon request.
- F49** The holder of this environmental authority must consult with the administering agency responsible for the Bygana West Nature Refuge under the *Nature Conservation Act 1992* prior to constructing any new tracks within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).
- F50** All new tracks must be recorded with a Global Positioning System (GPS) and records kept of their location and made available to the administering authority upon request.
- F51** Any existing access and fence line tracks must be used.
- F52** Any new tracks are to be constructed by linking naturally cleared or disturbed areas.
- F53** Major Arterial Roads are not to be constructed greater than 8m in width, as identified in Appendix 3, Appendix 4 and Appendix 5.
- F54** Minor Arterial Tracks are not to be constructed greater than that 4.5m in width, as identified in Appendix 3, Appendix 4 and Appendix 5.
- F55** Minor Arterial Roads, Minor Tracks or tracks are to be constructed, operated, maintained and rehabilitated in a manner that ensures erosion and scalding is minimised within the Category C Environmentally Sensitive Area (Bygana West Nature Refuge).
- F56** Track construction involving blade clearing of established ground cover vegetation and/or clearing of mature trees is to be prevented or minimised.
- F57** Spacing of tracks must not be less than 700m.
- F58** The environmental authority holder must minimise disturbance in Category B Environmentally Sensitive Areas and avoid clearing of trees when constructing tracks.
- F59** The environmental authority holder must minimise disturbance within 500m of any Category B Environmentally Sensitive Area and avoid clearing of trees when constructing tracks.
- F60** The environmental authority holder must minimise disturbance within the Category C Environmentally Sensitive Area and avoid clearing of trees when constructing tracks.
- F61** No clearing or disturbance for access to boreholes is authorised within Category B Environmentally Sensitive Areas.
- F62** No clearing or disturbance for access to boreholes is authorised within 500m of any Category B Environmentally Sensitive Area.
- F63** No clearing or disturbance for access to boreholes is authorised within the Category C Environmentally Sensitive Area.

Campsites

- F64** The environmental authority holder must comply with each of the 'Campsites' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F65** Camps must not be established within Category B Environmentally Sensitive Areas.
- F66** Camps must not be established within 500m of any Category B Environmentally Sensitive Area.
- F67** Camps must not be established within any Category C Environmentally Sensitive Area.

Service, Maintenance and Storage Areas

- F68** The environmental authority holder must comply with each of the 'Service, Maintenance and Storage Areas' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*, except Condition 23 and Condition 24 which are placed by conditions F7 to F14 of this environmental authority.

Drilling, Excavating and Sampling

- F69** The environmental authority holder must comply with each of the 'Drilling, Excavating and Sampling' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Exploration drill holes

- F70** The environmental authority holder must comply with each of the 'Exploration drill holes' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Gridlines and Geophysical Surveys

- F71** The environmental authority holder must comply with each of the 'Gridlines and Geophysical Surveys' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.

Rehabilitation

- F72** The environmental authority holder must comply with each of the 'Rehabilitation' Standard Environmental Conditions contained in the *Code of Environmental Compliance for Exploration and Mineral Development Projects*.
- F73** Rehabilitation of areas disturbed by mining activities within any Category B Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.
- F74** Rehabilitation of areas disturbed by mining activities within 500 metres of any Category B Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.
- F75** Rehabilitation of areas disturbed by mining activities within the Category C Environmentally Sensitive Area must be completed as soon as practicable, but no longer than 3 months after completion of the disturbance activity.
- F76** The environmental authority holder must revegetate disturbed areas within Category B Environmentally Sensitive Areas with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas both in and within 500 metres the Category B Environmentally Sensitive Area.

- F77** The environmental authority holder must revegetate disturbed areas within 500 metres of any Category B Environmentally Sensitive Area with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas both in and within 500 metres of any Category B Environmentally Sensitive Area.
- F78** The environmental authority holder must revegetate disturbed areas within the Category C Environmentally Sensitive Area with native plant species endemic to the area that will promote the same vegetation type and density of cover to that of the surrounding undisturbed areas within the Category C Environmentally Sensitive Area.
- F79** All land subject to mining activities must be rehabilitated to a non polluting, safe, stable and self sustaining landform and in accordance with *Table 4: Rehabilitation schedule*.

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Table 4: Rehabilitation schedule

	<i>Disturbance type</i>				
	<i>Infrastructure and camp(s)</i>	<i>Road(s) and track(s)</i>	<i>Areas within Category B Environmentally Sensitive Areas</i>	<i>Areas within 500 metres of any Category B Environmentally Sensitive Area</i>	<i>Areas within the Category C Environmentally Sensitive Area</i>
Tenure ID	EPC1690	EPC1690	EPC1690	EPC1690	EPC1690
<i>Post mine land use</i>	Light intensity grazing	Light intensity grazing	Light intensity grazing with Native Vegetation	Light intensity grazing with Native Vegetation	Native vegetation
<i>Post mine land description</i>	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land	Flat revegetated land – Nature Refuge (Bygana West Nature Refuge)
<i>Post mine land capability classification</i>	VI	VI	VI	VI	VI
<i>Projective cover range (%)</i>	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹	30-50 Weediness is no greater than 5% higher than adjacent background landholders groundcover ¹
<i>Species mix</i>	Buffel and other pasture mixtures	Buffel and other pasture mixtures	Appropriate native vegetation	Appropriate native vegetation	Native vegetation

Note¹. Weediness includes weeds that are declared plants as defined under the *Land Protection (Pest and Stock Route Management) Act 2002*.

Note: The holder of this environmental authority is required to comply with all obligations under the *Land Protection (Pest and Stock Route Management) Act 2002* or subsequent legislation.

Rehabilitation reporting

- F80** An annual report must be prepared each year and submitted with each annual return. The report must include details of exploration activities undertaken and details of progressive rehabilitation works completed to demonstrate compliance with the conditions of this environmental authority.

Department Interest: Sewage Treatment

- G1** The daily operation of the sewage treatment plant and pollution control equipment must be carried out by a person(s) with appropriate experience and/or qualifications to ensure the effective operation of that treatment system and control equipment.
- G2** Pipelines and fittings associated with the sewage treatment plant must be clearly identified. Lockable valves or removable handles must be fitted to all release pipelines situated in public access areas.
- G3** Treated effluent from the sewage treatment plant must only be discharged from the authorised discharge points, as specified in *Table 5: Effluent discharge locations* to the areas shown in *Table 6: Absorption trenches*.

Table 5: Effluent discharge locations

Authorised Discharge Points	Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	To be provided as per condition G13.	To be provided as per condition G13.	To be provided as per condition G13.
Effluent Discharge Point 2	To be provided as per condition G13.	To be provided as per condition G13.	To be provided as per condition G13.

Table 6: Absorption trenches

Authorised Discharge Point	Effluent Irrigation Location	Latitude (GDA94)	Longitude (GDA94)
Effluent Discharge Point 1	Absorption Trench 1	To be provided as per condition G13.	To be provided as per condition G13.
Effluent Discharge Point 2	Absorption Trench 2	To be provided as per condition G13.	To be provided as per condition G13.

- G4** Treated effluent must not be used for dust suppression.
- G5** Treated effluent must not be released from the site to any waters or the bed and banks of any waters.
- G6** Water or storm water contaminated by sewage treatment activities must not be released to any waters or the bed and banks of any waters.
- G7** Treated effluent must not be released to land other than the designated absorption trenches, identified in *Table 6: Absorption trenches*.

Land Disposal

- G8** The release of treated effluent to the designated absorption trenches must be carried out in a manner such that:
- a) vegetation is not damaged;
 - b) soil erosion and soil structure damage is avoided;
 - c) there is no surface ponding of effluent;
 - d) percolation of effluent beyond the plant root zone is minimised;
 - e) the capacity of the land to assimilate nitrogen, phosphorus, salts, organic matter as measured by oxygen demand and water is not exceeded; and
 - f) the quality of groundwater is not adversely affected.
- G9** Notices must be prominently displayed on absorption trenches, warning the public that the area is irrigated with effluent and not to use or drink the effluent. These notices must be maintained in a visible and legible condition.
- G10** When conditions prevent the release of treated effluent to the designated absorption trenches (such as during or following rain events), the contaminants must be directed to a wet weather storage or alternative measures must be taken to store/lawfully dispose of effluent (such as wet weather storage or tanking off site to another treatment plant or sewer). A record must be kept of any removal or discharge off site, including destination, transporter, dates and volumes.
- G11** A record of the removal of treated effluent from site must be kept detailing the following information:
- a) date of pickup of treated effluent;
 - b) volume of treated effluent removed from the site;
 - c) destination of the treated effluent; and
 - d) the transporter.
- G12** If the responsibility of the treated effluent is given or transferred to another person:
- a) the responsibility of such effluent must only be given or transferred in accordance with a written agreement (the third party agreement);
 - b) include in the third party agreement a commitment from the person utilising the effluent to use effluent in such a way as to prevent environmental harm or public health incidences and specifically make the persons aware of the General Environmental Duty (GED) under section 319 of the *Environmental Protection Act 1994*, environmental sustainability of any effluent disposal and protection of environmental values of waters; and
 - c) upon being notified or otherwise becoming aware that the person's use of effluent is causing or threatens to cause environmental harm or is posing a human health risk, and if the person does not rectify the situation upon written request, the giving and transferring responsibility for such effluent must cease.

Provision of Information

- G13** The location of effluent absorption trenches and effluent discharge locations as per *Table 5: Effluent discharge locations* and *Table 6: Absorption trenches* must be finalised and submitted to the administering authority no later than 28 days prior to construction.

END OF CONDITIONS

DEFINITIONS

“Artesian bore” includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft well, gallery, spear or excavation, that taps an aquifer and the water flows, or has flowed, naturally to the surface.

“Authority” means environmental authority (mining activities) under the *Environmental Protection Act 1994*.

“Borehole” means either an artesian bore or a subartesian bore.

“Campsite” The area encompassing any dwelling, amenities (e.g. toilet block, power generator), sewage or general waste disposal facility and includes the office area and vehicle parking areas associated with a temporary or permanent mining camp.

“Costeaning” The digging of a trench or pit across the seam or ore body for exposing, sampling and mapping of the ore body.

“Density of cover” In reference to trees and/or shrubs, it means the number of trees or shrubs in a specified area (e.g. 50 trees per square kilometre). With reference to understorey plant species (e.g. grasses and forbs), it means the percentage of surface area covered by a particular species.

“Disturbed” Any area that has had its natural state altered by the action or interference of carrying out an activity associated with the exploration project.

“Endangered regional ecosystem” means a regional ecosystem identified as endangered in the database maintained by the administering authority called ‘Regional ecosystem description database’ containing regional ecosystem numbers and descriptions.

“Environmental authority” means a licence or approval issued by the administering authority under the *Environmental Protection Act 1994*.

“Environmental authority holder” means the holder of this environmental authority.

“Environmentally Sensitive Areas” refers to locations, however large or small, that have environmental values that contribute to maintaining biological diversity and integrity, have intrinsic or attributed scientific, historical or cultural heritage value, or are important in providing amenity, harmony or sense of community. Refer to Appendix A of Code of Environmental Compliance for Exploration and Mineral Development Projects.

“Financial assurance” means a security deposit, either cash or a bank guarantee, that is held by the administering authority to cover the potential:

- (a) costs to rehabilitate areas disturbed by mining activities; and
- (b) costs to restore property improvements disturbed by mining activities; and
- (c) failure of the tenure holder to pay rents and royalties.

“General waste” Schedule 9 of the *Environmental Protection Regulation 1998* defines general waste as “means waste other than regulated waste”. Waste rock, overburden and the contents of tailings dams are not included in the definition of general waste for the purposes of these conditions.

“Native vegetation” Vegetation that occurs naturally in a certain area.

“Progressive rehabilitation” means rehabilitation (defined below) undertaken progressively or a staged approach to rehabilitation as mining operations are ongoing.

“Rehabilitation processes” The measures and actions taken to achieve rehabilitation outcomes, including any or all of the following:

- removing all unwanted infrastructure;
- backfilling mine excavations (e.g. pits) and capping drill holes;
- reshaping the land surface to a stable landform similar to that of surrounding
- undisturbed areas;

- spreading of topsoil;
- spreading seed or planting seedlings to promote revegetation;
- benching ridge cuts and removing any overhanging material.

“Significantly disturbed land” Land is significantly disturbed if –

(a) it is contaminated land; or

(b) it has been disturbed and human intervention is needed to rehabilitate it.

Significantly disturbed land includes:

- areas where soil has been compacted, removed, covered, exposed or stockpiled;
- areas where vegetation has been removed or destroyed to an extent where the land has been made susceptible to erosion; (vegetation & topsoil)
- areas where land use suitability or capability has been diminished;
- areas within a watercourse, waterway, wetland or lake where mining project activities occur;
- areas submerged by tailings or hazardous contaminant storage and dam walls in all cases;
- areas under temporary infrastructure. Temporary infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be removed after mining has ceased; or
- areas where land has been contaminated.

However, the following areas are not included:

- areas off lease (e.g. roads or tracks which provide access to the mining lease);
- areas previously significantly disturbed which have achieved the rehabilitation outcomes;
- by agreement with the EPA, areas previously significantly disturbed which have not achieved the rehabilitation objectives due to circumstances beyond the control of the mine operator (such as climatic conditions);
- areas under permanent infrastructure. Permanent infrastructure includes any infrastructure (roads, tracks, bridges, culverts, dams, bores, buildings, fixed machinery, hardstand areas, airstrips, helipads etc) which is to be left by agreement with the landowner. The agreement to leave permanent infrastructure must be
- recorded in the Landowner Agreement and lodged with the EPA;
- disturbances that pre-existed the grant of the tenure unless those areas are disturbed during the term of the tenure.

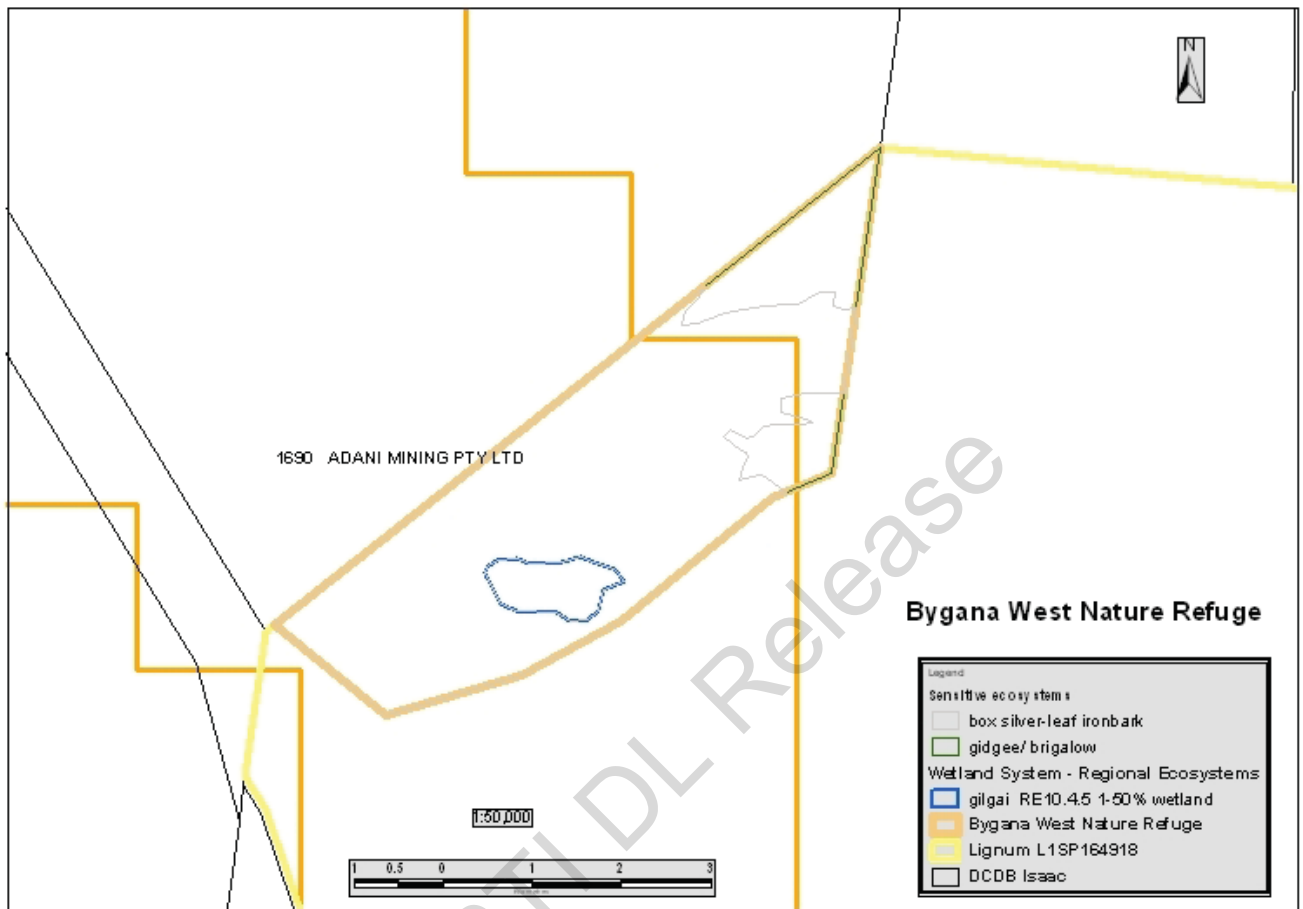
“Standard environmental conditions” For an environmental authority, means the standard environmental conditions approved for the authority under section 549 of the *Environmental Protection Act 1994*.

“Subartesian bore” includes a shaft, well, gallery, spear or excavation, and any works constructed in connection with the shaft, well, gallery or excavation, that taps an aquifer and the water does not flow and never has flowed naturally to the surface.

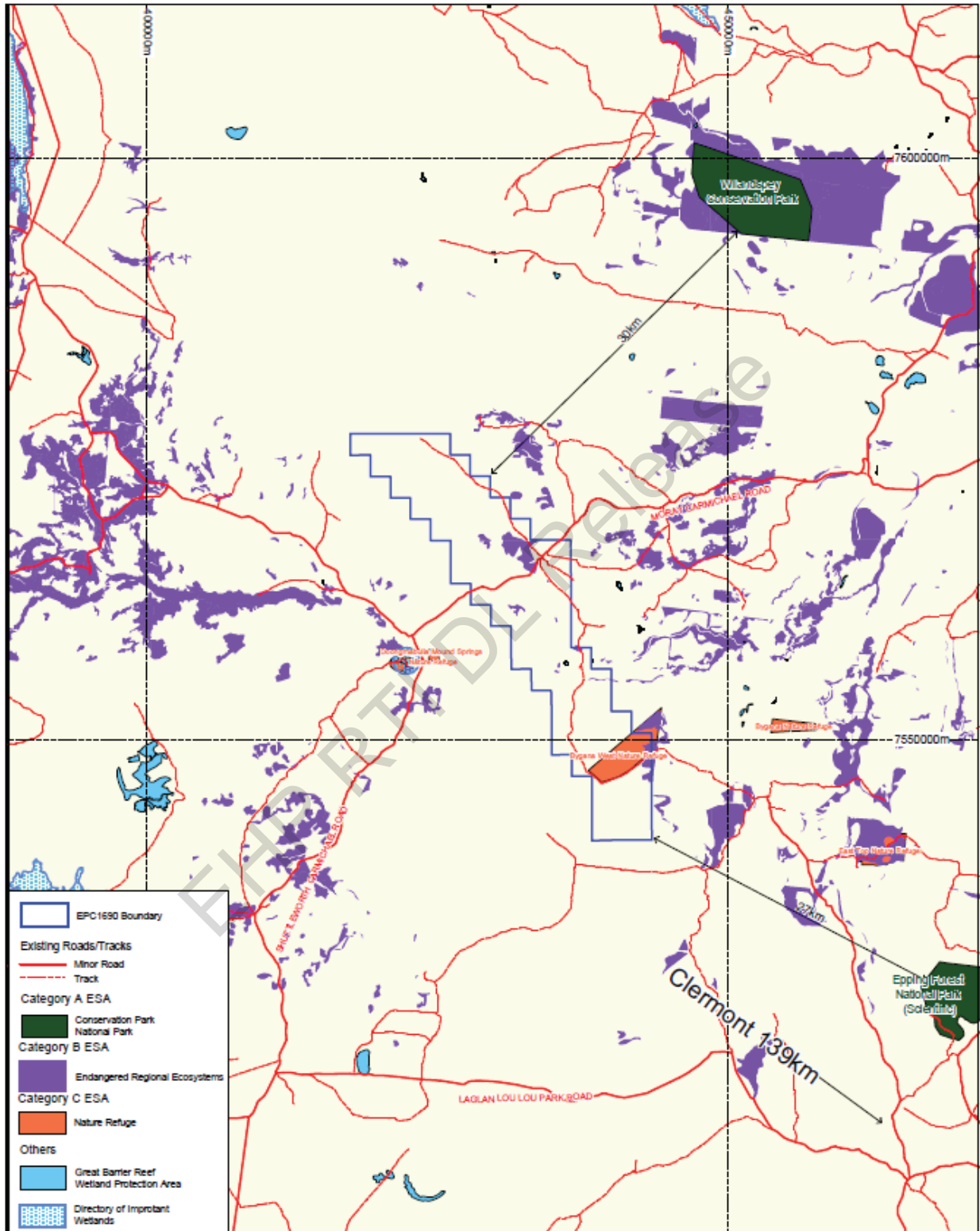
“Watercourse” means a river, creek or stream in which water flows permanently or intermittently in a visibly defined channel (natural, artificial or artificially improved) with:

- (a) continuous bed and banks;
- (b) an extended period of flow for some months after rain ceases, and
- (c) an adequacy of flow that sustains basic ecological processes and maintains biodiversity

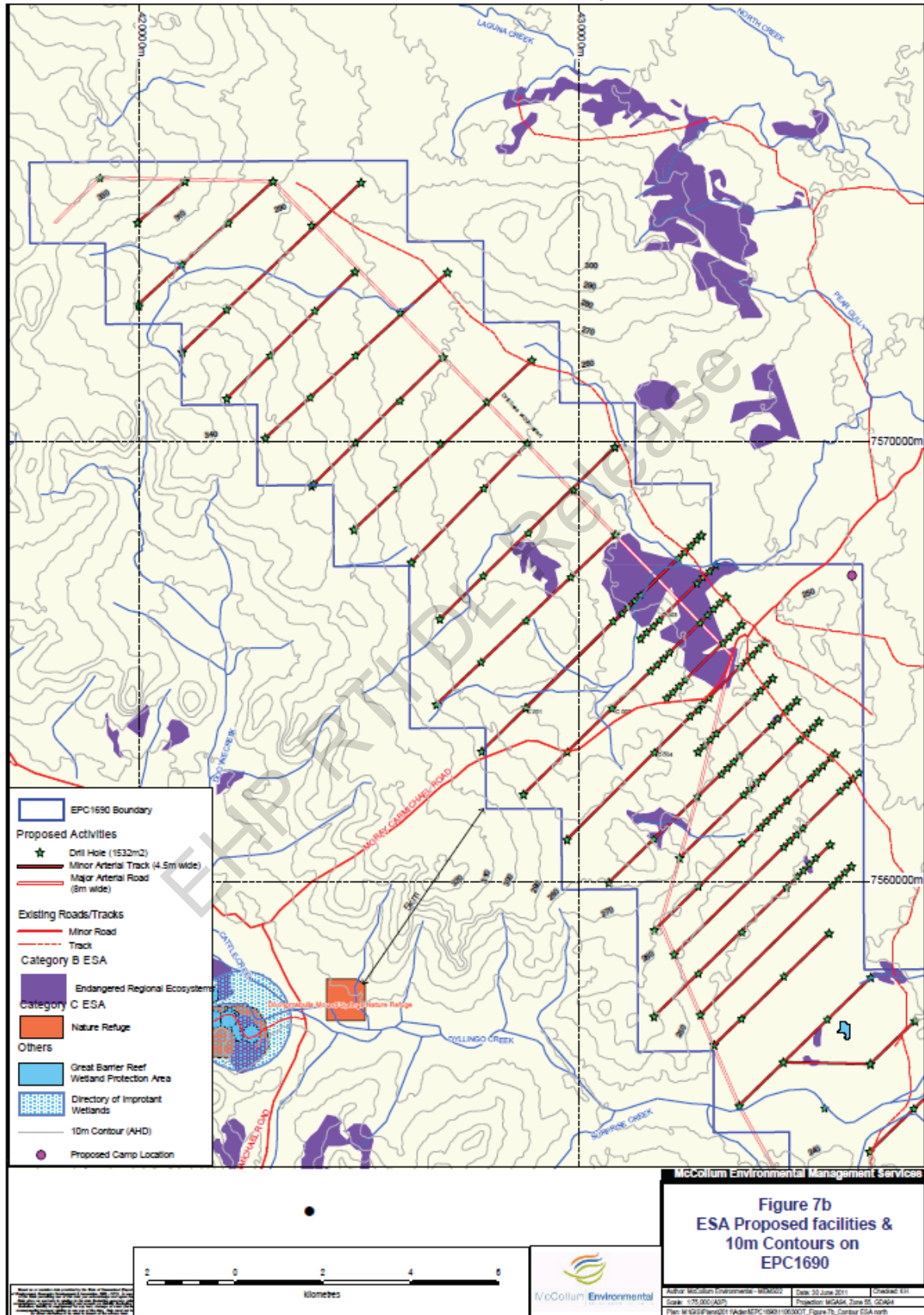
Attachment 2 – Gilgai Wetlands



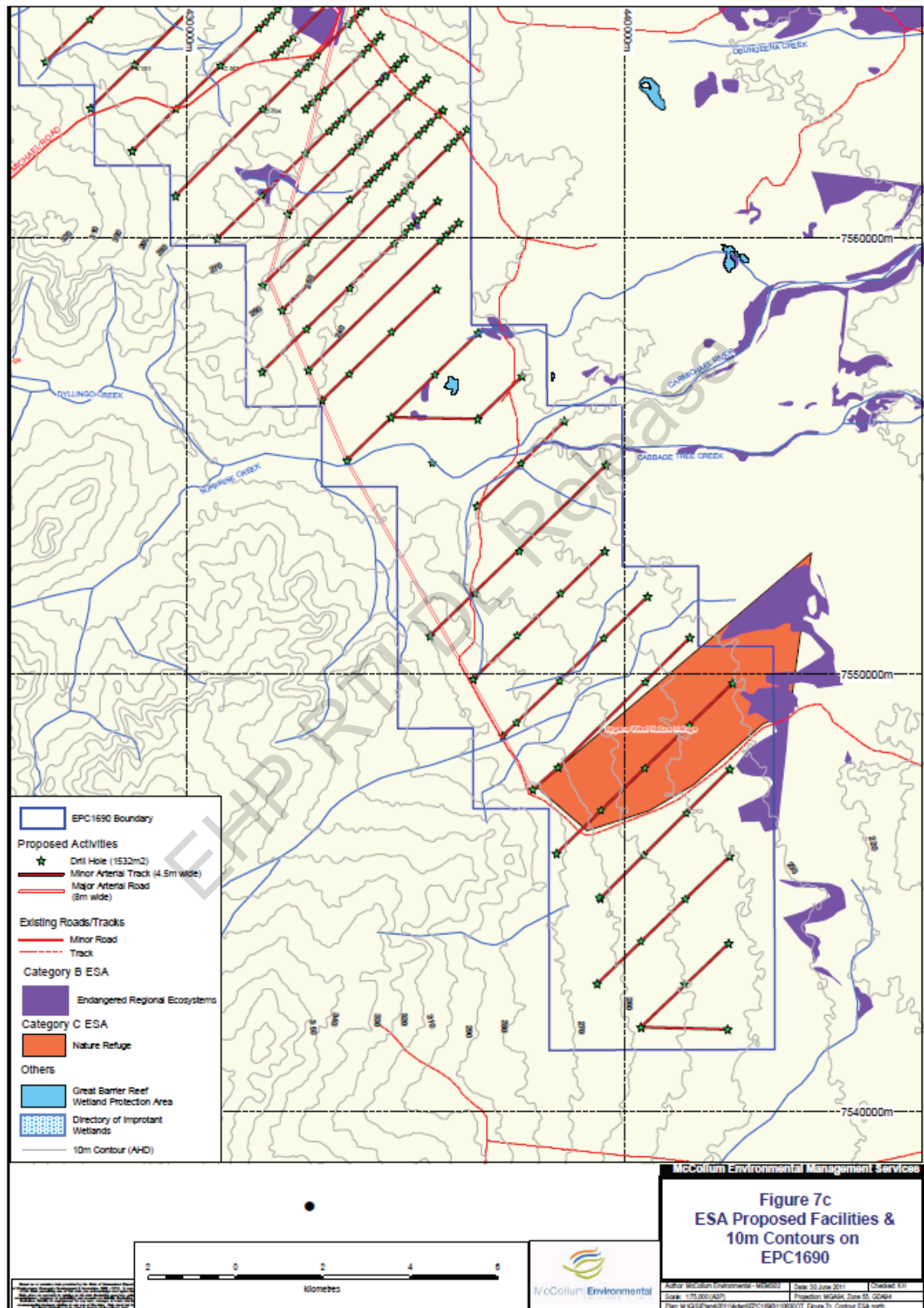
Attachment 3 – Roads and Tracks



Attachment 4 – Minor Arterial Tracks and Major Arterial Roads



Attachment 5 - Minor Arterial Tracks and Major Arterial Roads



END OF ENVIRONMENTAL AUTHORITY

EHP RTI DL Release