

# Permit

*Environmental Protection Act 1994*

## Environmental authority EPPR00340513

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

**Environmental authority number: EPPR00340513**

**Environmental authority takes effect on the date 31 October 2025**

**Anniversary date is 25 Septemeber**

### Environmental authority holder(s)

| Name(s)                              | Registered address             |
|--------------------------------------|--------------------------------|
| CORBET QUARRIES AND CONCRETE PTY LTD | 3 Corbet Rd<br>GYMPIE QLD 4570 |

### Environmentally relevant activity and location details

| Environmentally relevant activity/activities                                                                                                                               | Location(s)                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t | Lot 30 on DUB5359<br>Lot 32 on DUB5359<br>Lot 33 on DUB5359 |
| ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t                          | Lot 30 on DUB5359<br>Lot 32 on DUB5359<br>Lot 33 on DUB5359 |
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t | Lot 18 on WV408                                             |
| ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t                          | Lot 18 on WV408                                             |
| ERA 06 - Asphalt manufacturing 1: Manufacturing more than 1000t of asphalt in a year                                                                                       | Lot 62 on DL25                                              |

| Environmentally relevant activity/activities                                                                                                                                   | Location(s)                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t     | Lot 62 on DL25             |
| ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t                              | Lot 62 on DL25             |
| ERA 16 - Extraction and Screening 1: Dredging, in a year, the following quantity of material (b) more than 10,000t but not more than 100,000t                                  | Adjacent to Lot 1 on DL272 |
| ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t | 2/RP154619                 |

### Additional information for applicants

#### Environmentally relevant activities

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

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

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

#### Mobile and temporary activities

If you operate a mobile and temporary environmentally relevant activity (ERA), other than regulated waste transport, you are required to maintain a work diary. You must:

- use the approved form for a work diary (ESR/2015/1696);
- keep the work diary records for 2 years after the last entry;
- inform the administering authority within 7 days of the work diary being lost or stolen;
- record the information required in the work diary for each location within 1 day of leaving the location.

#### Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or

- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website [www.qld.gov.au](http://www.qld.gov.au), using the search term 'duty to notify'.

#### Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

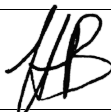
- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise - on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

The anniversary day of this environmental authority is the same day each year as the effective date. The payment of the annual fee will be due each year on this day. An annual return will be due each year on 01 April.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

Helena Braye  
**Department of the Environment, Tourism,  
Science and Innovation**  
Delegate of the administering authority  
*Environmental Protection Act 1994*

**31 October 2025**

Date

**Enquiries:**  
Energy and Extractive Resources  
GPO Box 2454, BRISBANE QLD 4001  
Phone: (07) 3330 5715  
Email: [EnergyandExtractive@detsi.qld.gov.au](mailto:EnergyandExtractive@detsi.qld.gov.au)

### **Obligations under the *Environmental Protection Act 1994***

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

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

### **Other permits required**

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access State controlled roads), the Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development (to clear vegetation), and the Department of Primary Industries (to clear marine plants or to obtain a quarry material allocation).

### **Obligations under the *Mining and Quarrying Safety and Health Act 1999***

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at [www.nrmmrdd.qld.gov.au](http://www.nrmmrdd.qld.gov.au), or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

### **Development Approval**

This permit is not a development approval under the *Planning Act 2016*. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of the Environment, Tourism, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

**Conditions of environmental authority**

**Part 1: Extraction and Screening – Lot 30 on Plan DUB5359, Lot 32 on Plan DUB5359, and Lot 33 on Plan DUB5359 (formerly EPPR01743113)**

| Environmentally relevant activity(ies)                                                                                                                                     | Location(s)                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t | Warrego Highway, Amby<br>Lot 33 Plan DUB5359<br>Lot 30 Plan DUB5359 |
| ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t                          | Lot 32 Plan DUB5359                                                 |

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of environmental authority.

| Agency interest: Special conditions                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number                                                                                                                                                                            | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <i>Note: Special conditions S1, S2, and S3 only apply if extraction activities are to be undertaken within Remnant Endangered or Of Concern Grassland Regional Ecosystems (Appendix 1).</i> |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| S1                                                                                                                                                                                          | The holder of this environmental authority must legally secure and maintain a biodiversity offset in accordance with the <i>Queensland Biodiversity Offset Policy</i> prior to adverse impacts to the state significant biodiversity values as identified in Appendix 1.                                                                                                                                                                          |
| S2                                                                                                                                                                                          | The holder of this environmental authority must no later than four months prior to commencing extraction activities within the areas identified in Appendix 1 provide the administering authority evidence that the offset has been legally secured.                                                                                                                                                                                              |
| S3                                                                                                                                                                                          | The holder of this environmental authority must no later than four months prior to commencing extraction activities within the areas identified in Appendix 1 develop an offset area management plan that identifies the actions required to ensure an offset area is managed to meet the objectives of the offset area. This plan must be submitted to the administering authority prior to commencing activities in the areas identified above. |
| Agency interest: General                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Condition number                                                                                                                                                                            | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| G1                                                                                                                                                                                          | Measures, plant and equipment must be installed, maintained and operated to ensure compliance with the conditions of this environmental authority.                                                                                                                                                                                                                                                                                                |
| G2                                                                                                                                                                                          | From commencement of an ERA to which this environmental authority relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the                                                                              |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p>likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.</p> <p>The SBMP must address the following matters:</p> <ul style="list-style-type: none"> <li>(a) environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals;</li> <li>(b) identification of environmental issues and potential impacts;</li> <li>(c) control measures for routine operations to minimise likelihood of environmental harm;</li> <li>(d) contingency plans and emergency procedures for non-routine situations;</li> <li>(e) organisational structure and responsibility;</li> <li>(f) effective communication;</li> <li>(g) monitoring of contaminant releases;</li> <li>(h) conducting environmental impact assessments;</li> <li>(i) staff training;</li> <li>(j) record keeping; and</li> <li>(k) periodic review of environmental performance and continual improvement.</li> </ul> |
| G3 | The site based management plan must not be implemented or amended in a way that contravenes any condition of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| G4 | Telephone the Pollution Hotline (1300 130 372) as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| G5 | <p>A written notice detailing the following information must be provided within 14 days of any advice provided in accordance with Condition G4:</p> <ul style="list-style-type: none"> <li>(a) the name of the operator, including their environmental authority / registration number;</li> <li>(b) the name and telephone number of a designated contact person;</li> <li>(c) quantity and substance released;</li> <li>(d) vehicle and registration details;</li> <li>(e) person's involved (driver and any others);</li> <li>(f) the location and time of the release;</li> <li>(g) the suspected cause of the release;</li> <li>(h) a description of the effects of the release;</li> <li>(i) the results of any sampling performed in relation to the release;</li> <li>(j) actions taken to mitigate any environmental harm caused by the release; and</li> <li>(k) proposed actions to prevent a recurrence of the release.</li> </ul>                                                                                                                        |
| G6 | A competent person(s) must conduct any monitoring required by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| G7 | All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this environmental authority must be calibrated, and appropriately operated and maintained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

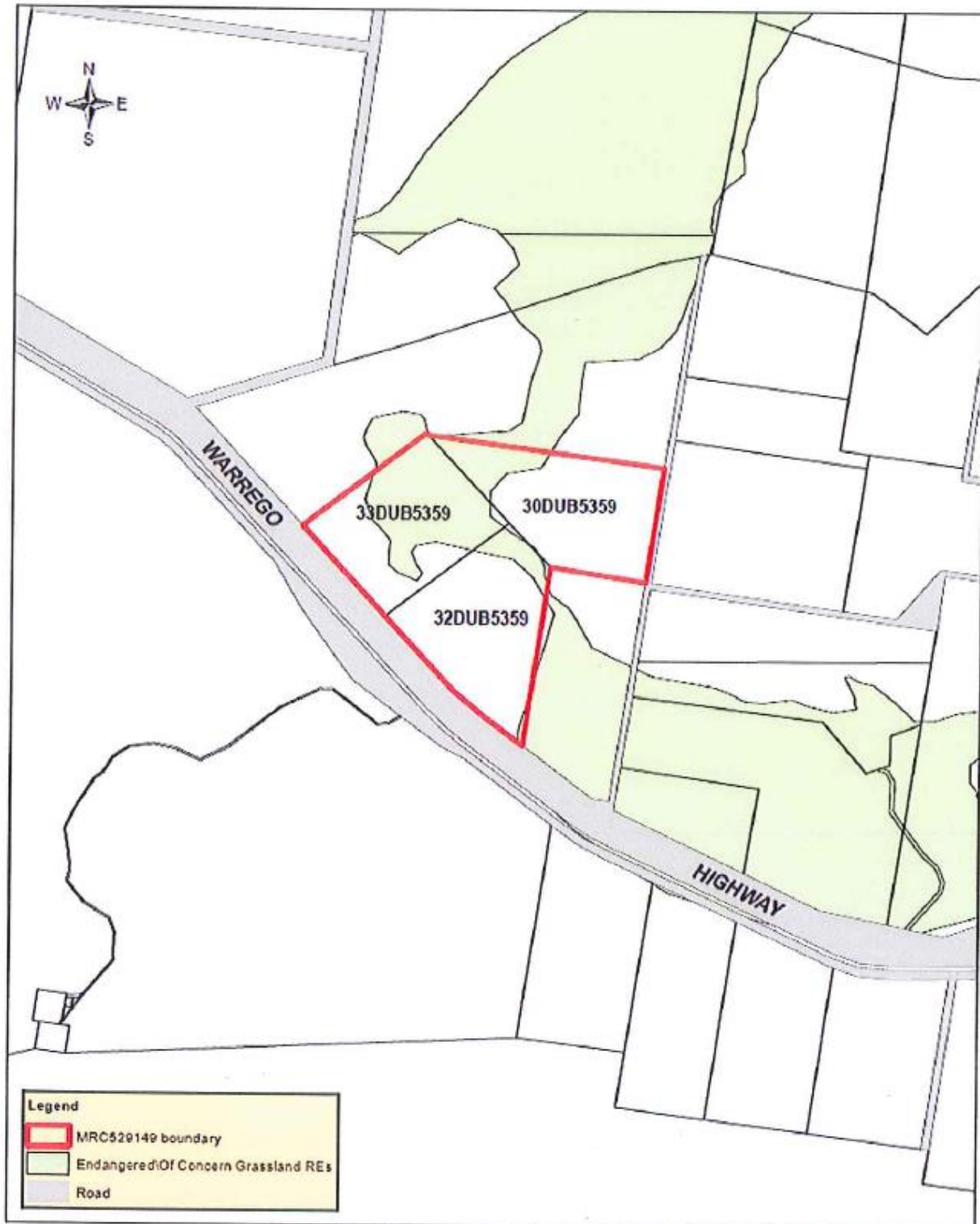
| Agency interest: Air      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number          | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A1                        | The release of dust and/or particulate matter resulting from the ERA must not cause an environmental harm or nuisance at any sensitive receptor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| A2                        | When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, in accordance with Australian Standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Agency interest: Land     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Condition number          | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| L1                        | <p>The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that:</p> <ul style="list-style-type: none"> <li>a) suitable native species of vegetation are planted and established;</li> <li>b) potential for erosion of the site is minimised;</li> <li>c) the quality of stormwater, other water and seepage released from the silo is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium, and total manganese are not likely to cause environmental harm;</li> <li>d) the likelihood of environmental nuisance being caused by release of dust is minimised;</li> <li>e) the water quality of any residual water body meets relevant criteria for subsequent use and does not have potential to cause environmental harm;</li> <li>f) the final landform is stable and not subject to slumping; and</li> <li>g) any actual and potential acid sulfate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.</li> </ul> |
| L2                        | Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| L3                        | The land must be rehabilitated as soon as practicable after ceasing operations (temporarily or permanently).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| L4                        | All practical and reasonable measures must be taken to minimise the release of contaminants to land.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| L5                        | Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Agency interest: Acoustic |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Condition number          | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| N1                                            | Noise from the ERA must not cause an environmental nuisance at any sensitive receptor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|--|--------------------------------|------------------------|--------------------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------|
| N2                                            | <p>If the holder of this environmental authority can provide evidence through monitoring that the limits defined in <i>Table 1 - Noise Limits</i>, are not being exceeded then the holder is not in breach of Condition N1.</p> <p style="text-align: center;"><b>Table 1 - Noise limits</b></p> <table><tr><th rowspan="2">Noise level dB(A)<br/>measured as</th><th colspan="3">Monday to Sunday including public holidays</th></tr><tr><th>7am – 6pm</th><th>6pm – 10pm</th><th>10pm – 7am</th></tr><tr><td></td><td colspan="3">Noise measured at a 'Noise sensitive place'</td></tr><tr><td>LAeq, 1 hour</td><td>45</td><td>40</td><td>33</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Noise level dB(A)<br>measured as                                                                                 | Monday to Sunday including public holidays       |  |  | 7am – 6pm                      | 6pm – 10pm             | 10pm – 7am                                       |                          | Noise measured at a 'Noise sensitive place'                                                                                                     |                                                                                                                  |             | LAeq, 1 hour                                  | 45                                                                                                        | 40                                                                                                        | 33          |
| Noise level dB(A)<br>measured as              | Monday to Sunday including public holidays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
|                                               | 7am – 6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6pm – 10pm                                                                                                       | 10pm – 7am                                       |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
|                                               | Noise measured at a 'Noise sensitive place'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| LAeq, 1 hour                                  | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 40                                                                                                               | 33                                               |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| N3                                            | <p>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <ul style="list-style-type: none"><li>a) LAeq, adj, 1 hour;</li><li>b) the level and frequency of occurrence of impulsive or tonal noise;</li><li>c) atmospheric conditions including wind speed and direction;</li><li>d) effects due to extraneous factors such as traffic noise; and</li><li>e) location, date and time recording.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| N4                                            | Prior to any blasting activities occurring on-site a Blast Management Plan must be prepared in accordance with Australian Standard 2187 and submitted to the administering authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| N5                                            | <p>Blasting shall not exceed limits for peak particle velocity and air blast overpressure in <i>Table 2 - Blasting Limits</i>.</p> <p style="text-align: center;"><b>Table 2 - Blasting Limits</b></p> <table><tr><th rowspan="2">Blasting noise limits</th><th colspan="3">Sensitive place limits</th></tr><tr><th>Monday to Friday<br/>9am to 3pm</th><th>Saturday 9am to<br/>1pm</th><th>Sunday, Public<br/>Holiday and all<br/>other times</th></tr><tr><td>Airblast<br/>overpressure</td><td>115 dB (Linear) Peak<br/>for nine out of ten<br/>consecutive blasts<br/>initiated and not<br/>greater than 120<br/>dB(Linear) Peak at<br/>any<br/>time</td><td>115 dB (Linear)<br/>Peak for nine out of<br/>ten consecutive<br/>blasts initiated and<br/>not greater than 120<br/>dB</td><td>No blasting</td></tr><tr><td>Ground vibration<br/>peak particle<br/>velocity</td><td>5mm/second peak<br/>particle velocity for<br/>nine out of ten<br/>consecutive blasts<br/>and not greater than</td><td>5mm/second peak<br/>particle velocity for<br/>nine out of ten<br/>consecutive blasts<br/>and not greater than</td><td>No blasting</td></tr></table> | Blasting noise limits                                                                                            | Sensitive place limits                           |  |  | Monday to Friday<br>9am to 3pm | Saturday 9am to<br>1pm | Sunday, Public<br>Holiday and all<br>other times | Airblast<br>overpressure | 115 dB (Linear) Peak<br>for nine out of ten<br>consecutive blasts<br>initiated and not<br>greater than 120<br>dB(Linear) Peak at<br>any<br>time | 115 dB (Linear)<br>Peak for nine out of<br>ten consecutive<br>blasts initiated and<br>not greater than 120<br>dB | No blasting | Ground vibration<br>peak particle<br>velocity | 5mm/second peak<br>particle velocity for<br>nine out of ten<br>consecutive blasts<br>and not greater than | 5mm/second peak<br>particle velocity for<br>nine out of ten<br>consecutive blasts<br>and not greater than | No blasting |
| Blasting noise limits                         | Sensitive place limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                  |                                                  |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
|                                               | Monday to Friday<br>9am to 3pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Saturday 9am to<br>1pm                                                                                           | Sunday, Public<br>Holiday and all<br>other times |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| Airblast<br>overpressure                      | 115 dB (Linear) Peak<br>for nine out of ten<br>consecutive blasts<br>initiated and not<br>greater than 120<br>dB(Linear) Peak at<br>any<br>time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 115 dB (Linear)<br>Peak for nine out of<br>ten consecutive<br>blasts initiated and<br>not greater than 120<br>dB | No blasting                                      |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |
| Ground vibration<br>peak particle<br>velocity | 5mm/second peak<br>particle velocity for<br>nine out of ten<br>consecutive blasts<br>and not greater than                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5mm/second peak<br>particle velocity for<br>nine out of ten<br>consecutive blasts<br>and not greater than        | No blasting                                      |  |  |                                |                        |                                                  |                          |                                                                                                                                                 |                                                                                                                  |             |                                               |                                                                                                           |                                                                                                           |             |

|                         |                                                                                                                                                                                                                                                                                                                          |                                                 |                                                 |                                                 |  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|--|
|                         | <table><tr><td></td><td>10 mm/second peak particle velocity at any time</td><td>10 mm/second peak particle velocity at any time</td><td></td></tr></table>                                                                                                                                                               |                                                 | 10 mm/second peak particle velocity at any time | 10 mm/second peak particle velocity at any time |  |
|                         | 10 mm/second peak particle velocity at any time                                                                                                                                                                                                                                                                          | 10 mm/second peak particle velocity at any time |                                                 |                                                 |  |
| N6                      | When requested by the administering authority airblast overpressure and / or ground vibration monitoring must be undertaken in accordance with the latest edition of the administering authority's, 'Noise and vibration from blasting guideline'.                                                                       |                                                 |                                                 |                                                 |  |
| Agency interest: Waste  |                                                                                                                                                                                                                                                                                                                          |                                                 |                                                 |                                                 |  |
| Condition number        | Condition                                                                                                                                                                                                                                                                                                                |                                                 |                                                 |                                                 |  |
| W1                      | All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.                                                                                                                                                                                   |                                                 |                                                 |                                                 |  |
| Agency interest: Water  |                                                                                                                                                                                                                                                                                                                          |                                                 |                                                 |                                                 |  |
| Condition number        | Condition                                                                                                                                                                                                                                                                                                                |                                                 |                                                 |                                                 |  |
| WA1                     | Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.                                                                                                                                                             |                                                 |                                                 |                                                 |  |
| WA2                     | Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.                                                                                                                                                                            |                                                 |                                                 |                                                 |  |
| WA3                     | Suitable banks and/or diversion drains must be installed and maintained to exclude uncontaminated stormwater runoff from entering any ponds or active operation areas.                                                                                                                                                   |                                                 |                                                 |                                                 |  |
| WA4                     | Extraction activity must not occur within 50 metres of any watercourse, wetland or spring.                                                                                                                                                                                                                               |                                                 |                                                 |                                                 |  |
| Agency interest: Social |                                                                                                                                                                                                                                                                                                                          |                                                 |                                                 |                                                 |  |
| Condition number        | Condition                                                                                                                                                                                                                                                                                                                |                                                 |                                                 |                                                 |  |
| S1                      | <p>The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request:</p> <p>(a) time, date, name and contact details of the complainant;</p> <p>(b) reasons for the complaint;</p> <p>(c) any investigations undertaken;</p> |                                                 |                                                 |                                                 |  |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p>(d) conclusions formed; and</p> <p>(e) any actions taken.</p>                                                                                                                                                                                                                                                                                                                                                     |
| S2 | <p>Where it is determined by an authorised person that the ERA is causing an environmental nuisance a sensitive receptor, the holder of the environmental authority must:</p> <p>(a) address the complaint, including the use of appropriate dispute resolution if required; and</p> <p>(b) immediately implement adequate abatement measures so that the ERA does not result in further environmental nuisance.</p> |

Appendix 1: Remnant Endangered or Of Concern Grassland Regional Ecosystems



**QBOP Assessment for  
MRC529149 GLB Quarrying and Logistics  
Warrego Highway, Amby**

Produced by Compliance Coordination & GIS Analysis, Brisbane  
EDM - Southern Region, DEHP, Brisbane

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**Part 2: Extraction and Screening – Lot 18 on Plan WV408 (formerly EPPR00665313)**

| Environmentally relevant activity(ies)                                                                                                                                                                                                                                                                                                     | Location(s)     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <p>ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t</p> <p>ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t</p> | Lot 18 on WV408 |

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of environmental authority.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| G1                       | In carrying out an ERA to which this environmental authority relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| G2                       | <p>The operator of an ERA to which this environmental authority relates must:</p> <ul style="list-style-type: none"> <li>(a) install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and</li> <li>(b) maintain such measures, plant and equipment in a proper and efficient condition; and</li> <li>(c) operate such measures, plant and equipment in a proper and efficient manner.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G3                       | <p>From commencement of an ERA to which this environmental authority relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.</p> <p>The SBMP must address the following matters:</p> <ul style="list-style-type: none"> <li>(a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals.</li> <li>(b) Identification of environmental issues and potential impacts.</li> <li>(c) Control measures for routine operations to minimise likelihood of environmental harm.</li> <li>(d) Contingency plans and emergency procedures for non-routine situations.</li> <li>(e) Organisational structure and responsibility.</li> <li>(f) Effective communication.</li> <li>(g) Monitoring of contaminant releases.</li> <li>(h) Conducting environmental impact assessments.</li> </ul> |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|     | <ul style="list-style-type: none"> <li>(i) Staff training.</li> <li>(j) Record keeping.</li> <li>(k) Periodic review of environmental performance and continual improvement.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| G4  | The site based management plan must not be implemented or amended in a way that contravenes any condition of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G5  | Telephone the administering authority's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G6  | <p>A written notice detailing the following information must be provided to the administering authority within 14 days of any advice provided in accordance with condition G5:</p> <ul style="list-style-type: none"> <li>(a) the name of the operator, including their environmental authority / registration number;</li> <li>(b) the name and telephone number of a designated contact person;</li> <li>(c) quantity and substance released;</li> <li>(d) vehicle and registration details;</li> <li>(e) person's involved (driver and any others);</li> <li>(f) the location and time of the release;</li> <li>(g) the suspected cause of the release;</li> <li>(h) a description of the effects of the release;</li> <li>(i) the results of any sampling performed in relation to the release;</li> <li>(j) actions taken to mitigate any environmental harm caused by the release; and</li> <li>(k) proposed actions to prevent a recurrence of the release.</li> </ul> |
| G7  | An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site and in each vehicle used if the activity is a mobile ERA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G8  | Anyone operating under this environmental authority must be trained in the use of the spill kit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| G9  | Record, compile and keep all monitoring results required by this environmental authority and present this information to the administering authority when requested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| G10 | All records required by this environmental authority must be kept for 5 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| G11 | A competent person(s) must conduct any monitoring required by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G12 | All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this environmental authority must be calibrated, and appropriately operated and maintained.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

| G13                          | Environmental Relevant Activities under this environmental authority are restricted to Lease B of Lot 18 on Crown Plan WV408 (indicated by Drawing 1A of the Material Change of Use Development Application for Warriars Quarry).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Agency interest: Air</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Condition number             | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A1                           | The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| A2                           | <p>Dust is not considered to be a nuisance under condition A1 if monitoring shows that dust and / or particulate matter does NOT exceed the following limits at the boundary of any affected dust sensitive place.</p> <p>(a) Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions); OR</p> <p>(b) a concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (pm) (PM 10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the site, when monitored in accordance with:</p> <ul style="list-style-type: none"> <li>▪ Australian Standard AS 3580.9.6 of 2003 (or more recent editions) 'Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet -Gravimetric method'; or</li> <li>▪ any alternative method of monitoring PM10 which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.</li> </ul> |
| A3                           | <p>When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include:</p> <p>(a) for a complaint alleging dust nuisance, dust deposition; and</p> <p>(b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (pm) (PM10) suspended in the atmosphere over a 24hr averaging time.</p>                                                                                                                                                                                                                                                                                                                                                                            |
| A4                           | <p>If an authorised person's reasonable opinion is that monitoring results indicate environmental nuisance is being caused by dust or other particulate matter from the ERA, the holder must:</p> <p>(a) address the complaint including the use of appropriate dispute resolution if required; or</p> <p>(b) immediately implement effective dust abatement measures.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Agency interest: Land</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Condition number             | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| L1                               | <p>The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that:</p> <ul style="list-style-type: none"> <li>(a) suitable native species of vegetation are planted and established;</li> <li>(b) potential for erosion of the site is minimised;</li> <li>(c) the quality of stormwater, other water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium, and total manganese are not likely to cause environmental harm;</li> <li>(d) the likelihood of environmental nuisance being caused by release of dust is minimised;</li> <li>(e) the water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm;</li> <li>(f) the final landform is stable and not subject to slumping; and</li> <li>(g) any actual and potential acid sulfate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.</li> </ul> |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| L2                               | Contaminants must not be released to land.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| L3                               | <p>Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.</p> <p>NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Agency interest: Acoustic</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Condition number                 | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| N1                               | Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| N2                               | <p>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <ul style="list-style-type: none"> <li>(a) airblast overpressure (dB (Lin) Peak);</li> <li>(b) LA 10, adj, 10 mins</li> <li>(c) LA 1, adj, 10 mins</li> <li>(d) the level and frequency of occurrence of impulsive or tonal noise;</li> <li>(e) atmospheric conditions including wind speed and direction;</li> <li>(f) effects due to extraneous factors such as traffic noise; and</li> <li>(g) location, date and time of recording.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| N3                               | Noise is NOT considered to be a nuisance under condition N2 if monitoring shows that noise does NOT exceed the following levels in the time periods specified in <i>Table - Noise Limits</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

|                                  | <table><tr><th colspan="7">Table - Noise limits</th></tr><tr><th rowspan="3">Noise level dB(A)<br/>measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday and Public Holidays</th></tr><tr><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th><th>9am–6pm</th><th>6pm–10pm</th><th>10pm–9am</th></tr><tr><th colspan="6">Noise measured at a 'Noise sensitive place'</th></tr><tr><td>LA10, adj, 10 mins</td><td>45</td><td>40</td><td>30</td><td>45</td><td>40</td><td>30</td></tr><tr><td>LA1, adj, 10 mins</td><td>50</td><td>45</td><td>35</td><td>50</td><td>45</td><td>35</td></tr></table>                                                                                                                                                                                     | Table - Noise limits        |                                                  |                             |                               |                                                                                                                                              |                      |  | Noise level dB(A)<br>measured as | Monday to Saturday |  |  | Sunday and Public Holidays |  |  | 7am–6pm | 6pm–10pm | 10pm–7am | 9am–6pm | 6pm–10pm | 10pm–9am | Noise measured at a 'Noise sensitive place' |  |  |  |  |  | LA10, adj, 10 mins | 45 | 40 | 30 | 45 | 40 | 30 | LA1, adj, 10 mins | 50 | 45 | 35 | 50 | 45 | 35 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------------------------------------|-----------------------------|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|--|----------------------------------|--------------------|--|--|----------------------------|--|--|---------|----------|----------|---------|----------|----------|---------------------------------------------|--|--|--|--|--|--------------------|----|----|----|----|----|----|-------------------|----|----|----|----|----|----|
| Table - Noise limits             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| Noise level dB(A)<br>measured as | Monday to Saturday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |                                                  | Sunday and Public Holidays  |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
|                                  | 7am–6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6pm–10pm                    | 10pm–7am                                         | 9am–6pm                     | 6pm–10pm                      | 10pm–9am                                                                                                                                     |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
|                                  | Noise measured at a 'Noise sensitive place'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| LA10, adj, 10 mins               | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 40                          | 30                                               | 45                          | 40                            | 30                                                                                                                                           |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| LA1, adj, 10 mins                | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 45                          | 35                                               | 50                          | 45                            | 35                                                                                                                                           |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N4                               | The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N5                               | <p>Blasting must not be carried out other than during the times specified in <i>Table - Vibration limits at a nuisance sensitive place</i>.</p> <p style="text-align: center;"><b>Table - Vibration limits at a nuisance sensitive place</b></p> <table><tr><th>Location</th><th>Monday to Friday 9am – 3pm<br/>Saturday 9am – 1pm</th><th>Sundays and public holidays</th></tr><tr><td>Sensitive or commercial place</td><td>5mm/s peak particle velocity for nine (9) out of ten (10) consecutive blasts and not greater than 10 mm/s peak particle velocity at any time</td><td>No blasting to occur</td></tr></table>                                                                                                                                                                                   | Location                    | Monday to Friday 9am – 3pm<br>Saturday 9am – 1pm | Sundays and public holidays | Sensitive or commercial place | 5mm/s peak particle velocity for nine (9) out of ten (10) consecutive blasts and not greater than 10 mm/s peak particle velocity at any time | No blasting to occur |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| Location                         | Monday to Friday 9am – 3pm<br>Saturday 9am – 1pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sundays and public holidays |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| Sensitive or commercial place    | 5mm/s peak particle velocity for nine (9) out of ten (10) consecutive blasts and not greater than 10 mm/s peak particle velocity at any time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No blasting to occur        |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N6                               | Vibration emitted from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N7                               | Vibration emitted from activities must not exceed the levels specified in <i>Table - Vibration limits at a nuisance sensitive place</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N8                               | <p>When requested by the administering authority, vibration monitoring and recording must be undertaken to investigate any complaint of vibration nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <ul style="list-style-type: none"><li>(a) peak particle velocity (mm/s);</li><li>(b) location of the blast/s within the site (including which bench level);</li><li>(c) atmospheric conditions including temperature, relative humidity and wind speed and direction;</li><li>(d) the level and frequency of occurrence of impulsive or tonal noise;</li><li>(e) atmospheric conditions including wind speed and direction;</li><li>(f) effects due to extraneous factors; and</li><li>(g) location, date and time of recording.</li></ul> |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |
| N9                               | For vibration monitoring the ground-borne vibration transducer (or array) must be attached to a mass of at least thirty (30) kg to ensure good coupling with the ground where the blast site and the measurement site cannot be shown to be on the same underlying strata. The mass must be buried so that its uppermost surface is at the same level as the ground surface.                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                  |                             |                               |                                                                                                                                              |                      |  |                                  |                    |  |  |                            |  |  |         |          |          |         |          |          |                                             |  |  |  |  |  |                    |    |    |    |    |    |    |                   |    |    |    |    |    |    |

| N10                            | The ground-borne vibration transducer (or array) must be placed at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure and between that building or structure and the site of the blasting.                                                                                                                                                       |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N11                            | All blasting must be carried out in a proper manner by a competent person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impacts of airblast overpressure and ground borne vibrations at any noise sensitive place and people living in or using the surrounding area.                                                                                          |
| N12                            | The storage of all equipment used for blasting activities and all blasting activities carried out on site must comply with the Australian Standard AS2187 "Explosives - Storage and Use", Part 2 "Use of explosives".                                                                                                                                                                                                                        |
| <b>Agency interest: Social</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Condition number               | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| S1                             | <p>The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request:</p> <ul style="list-style-type: none"> <li>(a) time, date, name and contact details of the complainant;</li> <li>(b) reasons for the complaint;</li> <li>(c) any investigations undertaken;</li> <li>(d) conclusions formed; and</li> <li>(e) any actions taken.</li> </ul> |
| <b>Agency interest: Waste</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Condition number               | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| W1                             | Waste must not be released to the environment, stored, transferred or disposed contrary to any condition of this environmental authority.                                                                                                                                                                                                                                                                                                    |
| <b>Agency interest: Water</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Condition number               | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| WA1                            | Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment. The operator of the Environmental Relevant Activity must construct a sedimentation basin that has the capacity to capture the first 20mm of any rainfall event over the disturbed area that flows into the sediment basin.                                                                     |
| WA2                            | Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.                                                                                                                                                                                                                                                                                                |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| WA3 | Contaminants must not be released from the site to any waters or the bed and banks of any waters, unless authorised by another condition of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                               |
| WA4 | Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters.                                                                                                                                                                                                                                                                                                                                                                                            |
| WA5 | <p>All ponds used for the storage or treatment of contaminants, sewage or wastes at or on the authorised place must be constructed, installed and maintained:</p> <ul style="list-style-type: none"><li>(a) so as to minimise the likelihood of any release of effluent through the bed or banks of the pond to any waters (including ground water);</li><li>(b) so that a freeboard of not less than 0.5 metres is maintained at all times, except in emergencies; and</li><li>(c) so as to ensure the stability of the ponds' construction.</li></ul> |
| WA6 | Suitable banks and/or diversion drains must be installed and maintained to exclude uncontaminated stormwater runoff from entering any ponds or other structures used for the storage or treatment of contaminants or wastes.                                                                                                                                                                                                                                                                                                                            |

**Part 3: Conditions for all activities carried out at Lot 62 Plan DL25 (Warrego Highway, Amby) (Formerly EPPR00340513)**

| Environmentally relevant activity                                                                                                                                                                                                                                                                                                                                                                                                      | Location         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| <p>ERA 06 - Asphalt manufacturing 1: Manufacturing more than 1000t of asphalt in a year</p> <p>ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t</p> <p>ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t</p> | Lot 62 Plan DL25 |

The environmentally relevant activity(ies) conducted at the location described above for this part must be conducted in accordance with the following conditions.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                 |
| G1                       | All reasonable and practicable measures must be taken to minimise the likelihood of environmental harm being caused.                                                                                                                                                                                                                                                                                      |
| G2                       | Any breach of a condition of this environmental authority must be reported to the administering authority within 24 hours of becoming aware of the breach and record full details of the breach and any subsequent actions.                                                                                                                                                                               |
| G3                       | Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.                                                                                                                                                                                                                                                                                |
| G4                       | All information and records that are required by the conditions of this environmental authority must be kept for a period of at least five (5) years. Environmental monitoring results must be kept until surrender of this environmental authority. All information and records required by the conditions of this environmental authority must be provided to the administering authority upon request. |
| G5                       | All analysis and tests required under this environmental authority must be carried out by a laboratory that has NATA certification for such analysis and tests.                                                                                                                                                                                                                                           |
| G6                       | An appropriately qualified person must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                        |
| G7                       | When required by the administering authority, monitoring must be undertaken in the manner prescribed by the administering authority, to investigate a complaint that is not considered by the administering authority to be frivolous or vexatious, of environmental nuisance arising from the activity. The monitoring must be provided to the administering authority upon request.                     |

| G8                                                          | If you become aware of any adverse impact on an environmental value you must notify the administering authority in writing of the full details of the adverse impact within 24 hours of becoming aware of the impact.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------|--------------------------------|------------------|------------------------------|----------------------------------------------------|---------------------------------------|---|----------------------|---|---------------------------------------|----------------------------------------------------|-------|---|--------------------------------------|---|
| G9                                                          | The activities must be undertaken in accordance with written procedures that:<br><br>(a) identify potential risks to the environment from the activity during routine operations, closure and an emergency;<br><br>(b) establish and maintain control measures that minimise the potential for environmental harm;<br><br>(c) ensure plant, equipment and measures are maintained in a proper and effective condition;<br><br>(d) ensure plant, equipment and measures are operated in a proper and effective manner;<br><br>(e) ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i> ; and<br><br>(f) ensure that reviews of environmental performance are undertaken at least annually.                                                                           |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| The following condition applies only to ERA 6 activities    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| APG1                                                        | An Emergency/Contingency Plan must be developed and implemented to manage any environmental impacts of an uncontrolled release of contaminants to the environment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| Agency interest: Air                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| Condition number                                            | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| A1                                                          | Odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not be released to any sensitive place or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| The following two conditions apply only to ERA 6 activities |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                    |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| APA1                                                        | <div>The only contaminants to be released to air are the contaminant stream from the drum dryer stack in accordance with <i>Table – Air release limits</i> and the associated requirements.</div> <div>Table – Air release limits</div> <table><tr><th>Release point</th><th>Contaminant</th><th>Emission limits of this plant*</th></tr><tr><td rowspan="6">Drum dryer stack</td><td>Total Suspended Particulates</td><td>400 mg/Nm<sup>3</sup> (dry) at 15% O<sub>2</sub></td></tr><tr><td>Particulate Matter &lt;10 microns (PM10)</td><td>-</td></tr><tr><td>Carbon Monoxide (CO)</td><td>-</td></tr><tr><td>Oxides of Nitrogen (NO<sub>x</sub>)</td><td>150 mg/Nm<sup>3</sup> (dry) at 15% O<sub>2</sub></td></tr><tr><td>Odour</td><td>-</td></tr><tr><td>Hydrogen Sulphide (H<sub>2</sub>S)</td><td>-</td></tr></table> | Release point                                      | Contaminant | Emission limits of this plant* | Drum dryer stack | Total Suspended Particulates | 400 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub> | Particulate Matter <10 microns (PM10) | - | Carbon Monoxide (CO) | - | Oxides of Nitrogen (NO <sub>x</sub> ) | 150 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub> | Odour | - | Hydrogen Sulphide (H <sub>2</sub> S) | - |
| Release point                                               | Contaminant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Emission limits of this plant*                     |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
| Drum dryer stack                                            | Total Suspended Particulates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 400 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub> |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|                                                             | Particulate Matter <10 microns (PM10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                  |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|                                                             | Carbon Monoxide (CO)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                  |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|                                                             | Oxides of Nitrogen (NO <sub>x</sub> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 150 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub> |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|                                                             | Odour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -                                                  |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |
|                                                             | Hydrogen Sulphide (H <sub>2</sub> S)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | -                                                  |             |                                |                  |                              |                                                    |                                       |   |                      |   |                                       |                                                    |       |   |                                      |   |

|                                        | <table><tr><td>Volatile Organic Compounds (VOC)</td><td>150 mg/Nm<sup>3</sup> (dry) expressed as n-propane equivalent at 15% O<sub>2</sub></td></tr><tr><td>Polycyclic Aromatic Hydrocarbons (BaP)</td><td>-</td></tr><tr><td>Total Heavy Metals**</td><td>1 mg/Nm<sup>3</sup> (dry) at 15% O<sub>2</sub></td></tr></table> <p>- All concentration emission limits are expressed at 15% oxygen reference level.</p> <p>** - The total heavy metals limit is for the total of antimony, arsenic, cadmium, lead, mercury, chromium, cobalt, manganese, nickel, selenium, tin, vanadium and beryllium.</p>                                            | Volatile Organic Compounds (VOC) | 150 mg/Nm <sup>3</sup> (dry) expressed as n-propane equivalent at 15% O <sub>2</sub> | Polycyclic Aromatic Hydrocarbons (BaP) | - | Total Heavy Metals** | 1 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub> |          |                                      |  |  |                          |    |    |    |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------------------------------------------|----------------------------------------|---|----------------------|--------------------------------------------------|----------|--------------------------------------|--|--|--------------------------|----|----|----|
| Volatile Organic Compounds (VOC)       | 150 mg/Nm <sup>3</sup> (dry) expressed as n-propane equivalent at 15% O <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Polycyclic Aromatic Hydrocarbons (BaP) | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Total Heavy Metals**                   | 1 mg/Nm <sup>3</sup> (dry) at 15% O <sub>2</sub>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| APG2                                   | Air monitoring required by this environmental authority must be carried out in accordance with the administering authority's Air Quality Sampling Manual, relevant Australian Standards, or equivalent interstate or international standards.                                                                                                                                                                                                                                                                                                                                                                                                      |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Agency interest: Land                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Condition number                       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| L1                                     | There must be no release nor likelihood of release of any contaminants to land.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Agency interest: Acoustic              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| Condition number                       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| N1                                     | Noise from the activities must not cause an environmental nuisance at any sensitive place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| N2                                     | <p>If the holder of this environmental authority can provide evidence through monitoring that the limits defined in <i>Table – Noise Limits</i>, are not being exceeded, then the holder is not in breach of Condition N1.</p> <p style="text-align: center;"><b>Table - Noise limits</b></p> <table><tr><th rowspan="3">Noise level dB(A)<br/>measured as</th><th colspan="3">Monday to Sunday including public holidays</th></tr><tr><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th></tr><tr><th colspan="3">Noise measured at a 'sensitive place</th></tr><tr><td>L<sub>Aeq, adj, T</sub></td><td>45</td><td>40</td><td>33</td></tr></table> | Noise level dB(A)<br>measured as | Monday to Sunday including public holidays                                           |                                        |   | 7am–6pm              | 6pm–10pm                                         | 10pm–7am | Noise measured at a 'sensitive place |  |  | L <sub>Aeq, adj, T</sub> | 45 | 40 | 33 |
| Noise level dB(A)<br>measured as       | Monday to Sunday including public holidays                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
|                                        | 7am–6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  | 6pm–10pm                                                                             | 10pm–7am                               |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
|                                        | Noise measured at a 'sensitive place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| L <sub>Aeq, adj, T</sub>               | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 40                               | 33                                                                                   |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |
| N3                                     | <p>When required by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <p>(a) L<sub>Aeq, adj, T</sub>;</p> <p>(b) Background noise (Background) as L<sub>A 90, adj, T</sub>;</p> <p>(c) Max<sub>LpA, T</sub>;</p>                                                                                                                                                                                                                                                               |                                  |                                                                                      |                                        |   |                      |                                                  |          |                                      |  |  |                          |    |    |    |

|                                                              | <p>(d) The level and frequency of occurrence of any impulsive or tonal noise;</p> <p>(e) Atmospheric conditions including wind speed and direction;</p> <p>(f) Effects due to extraneous factors such as traffic noise; and</p> <p>(g) Location, date and time of recording</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|--|--|-----------------------------|---------------------|---------------------------------------------|-----------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| The following six conditions apply only to ERA 16 activities |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| BL1                                                          | <p>Ensure that blasting does not exceed limits for peak particle velocity and air blast overpressure in <i>Table – Blasting limits</i>.</p> <p style="text-align: center;"><b>Table – Blasting limits</b></p> <table><tr><th rowspan="2">Blasting noise limits</th><th colspan="3">Sensitive place limits</th></tr><tr><th>Monday to Friday 9am to 3pm</th><th>Saturday 9am to 1pm</th><th>Sunday, Public Holidays and all other times</th></tr><tr><td>Airblast overpressure</td><td>115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB(Linear) Peak at any time</td><td>115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time</td><td>No blasting</td></tr><tr><td>Ground vibration peak particle velocity</td><td>5mm/second peak particle velocity for nine out of ten consecutive blasts and not greater than 10 mm/second peak particle velocity at any time</td><td>5mm/second peak particle velocity for four out of five consecutive blasts and not greater than 10 mm/second peak particle velocity at any time</td><td>No blasting</td></tr></table> | Blasting noise limits                                                                                                                          | Sensitive place limits                      |  |  | Monday to Friday 9am to 3pm | Saturday 9am to 1pm | Sunday, Public Holidays and all other times | Airblast overpressure | 115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB(Linear) Peak at any time | 115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time | No blasting | Ground vibration peak particle velocity | 5mm/second peak particle velocity for nine out of ten consecutive blasts and not greater than 10 mm/second peak particle velocity at any time | 5mm/second peak particle velocity for four out of five consecutive blasts and not greater than 10 mm/second peak particle velocity at any time | No blasting |
| Blasting noise limits                                        | Sensitive place limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
|                                                              | Monday to Friday 9am to 3pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Saturday 9am to 1pm                                                                                                                            | Sunday, Public Holidays and all other times |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| Airblast overpressure                                        | 115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB(Linear) Peak at any time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 115 dB (Linear) Peak for nine out of ten consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time                    | No blasting                                 |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| Ground vibration peak particle velocity                      | 5mm/second peak particle velocity for nine out of ten consecutive blasts and not greater than 10 mm/second peak particle velocity at any time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5mm/second peak particle velocity for four out of five consecutive blasts and not greater than 10 mm/second peak particle velocity at any time | No blasting                                 |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| BL3                                                          | If blast monitoring detects non-compliance with <i>Table – Blasting limits</i> , steps must be taken to ensure compliance is achieved by subsequent blasts.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| BL4                                                          | <p>Airblast overpressure monitoring must include the following descriptors, characteristics and conditions:</p> <p>(a) peak particle velocity (mm/s);</p> <p>(b) location of the blast/s within the site (including which bench level);</p> <p>(c) atmospheric conditions including temperature, relative humidity and wind speed and direction;</p> <p>(d) the level and frequency of occurrence of impulsive or tonal noise;</p> <p>(e) atmospheric conditions including wind speed and direction;</p> <p>(f) effects due to extraneous factors; and</p> <p>(g) location, date and time of recording.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| BL5                                                          | The method of measure and reporting of airblast overpressure levels must comply with Australian Standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |
| BL6                                                          | The method of measure and reporting of vibration levels must comply with the latest edition of the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                |                                             |  |  |                             |                     |                                             |                       |                                                                                                                            |                                                                                                                             |             |                                         |                                                                                                                                               |                                                                                                                                                |             |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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|                               | administering authority's "Noise and vibration from blasting guideline".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| WS1                           | All waste generated in carrying out the activities must be reused, recycled or removed to a facility that can lawfully accept the waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Agency interest: Water</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| WA1                           | Contaminants must not be directly or indirectly released from the licensed place to any waters or the beds and banks of any waters, except as permitted under this environmental authority, or to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| WA2                           | <p>The holder of this environmental authority must:</p> <ul style="list-style-type: none"> <li>(a) Develop and implement a stormwater management plan which provides for the following functions: <ul style="list-style-type: none"> <li>(i) Avoidance or minimisation of contaminated stormwater; and</li> <li>(ii) Reuse, treatment and disposal of contaminated stormwater; and</li> </ul> </li> <li>(b) The Stormwater Management Plans must provide detail on the works to be implemented and the timetable proposed to address the following issues: <ul style="list-style-type: none"> <li>(i) Site plans showing grades, location of control measures, discharge points including settling basins, their design/size, etc; and</li> <li>(ii) Revegetation of exposed or disturbed areas; and</li> <li>(iii) Installation of sediment control measures such as settling basins; and</li> <li>(iv) Diversion of runoff along the north western boundary of the quarry by provision of a bund; and</li> <li>(v) Diversion of runoff from exposed or disturbed areas.</li> </ul> </li> </ul> |
| WA3                           | A copy of the Stormwater Management Plan must be kept at the licensed place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

**Part 4: Conditions activities carried out adjacent to Lot 1 Plan DL272**

| Environmentally relevant activity                                                                                                             | Location                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| ERA 16 - Extraction and Screening 1: Dredging, in a year, the following quantity of material (b) more than 10,000t but not more than 100,000t | Adjacent to Lot 1 Plan DL272 |

The environmentally relevant activity conducted at the location as described above must be conducted in accordance with the following conditions.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| G1                       | In carrying out an ERA to which this environmental authority relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| G2                       | The operator of an ERA to which this environmental authority relates must: <ul style="list-style-type: none"> <li>(a) Install all measures, plant and equipment necessary to ensure compliance with the conditions of this environmental authority; and</li> <li>(b) maintain such measures, plant and equipment in a proper and efficient condition; and</li> <li>(c) operate such measures plant and equipment in a proper and efficient manner.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| G3                       | <p>From commencement of an ERA to which this environmental authority relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused, The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out.</p> <p>The SBMP must address the following matters:</p> <ul style="list-style-type: none"> <li>(a) Environmental commitments a commitment by senior management to achieve specified and relevant environmental goals.</li> <li>(b) Identification of environmental issues and potential impacts.</li> <li>(c) Control measures for routine operations to minimise likelihood of environmental harm.</li> <li>(d) Contingency plans and emergency procedures for non-routine situations.</li> <li>(e) Organisational structure and responsibility.</li> <li>(f) Effective communication.</li> <li>(g) Monitoring of contaminant releases.</li> <li>(h) Conducting environmental impact assessments.</li> <li>(i) Staff training.</li> <li>(j) Record keeping.</li> <li>(k) Periodic review of environmental performance and continual improvement.</li> </ul> |

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G4                          | The site based management plan must not be implemented or amended in a way that contravenes any condition of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| G5                          | Record, compile and keep all monitoring results required by this environmental authority and present this information to the administering authority when requested.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| G6                          | All records required by this environmental authority must be kept for 5 years.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| G7                          | Telephone the administering authority's Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G8                          | <p>A written notice detailing the following information must be provided to the administering authority within 14 days of any advice provided in accordance with condition G7:</p> <ul style="list-style-type: none"> <li>(a) the name of the operator, including their environmental authority registration number;</li> <li>(b) the name and telephone number of a designated contact person;</li> <li>(c) quantity and substance released;</li> <li>(d) vehicle and registration details;</li> <li>(e) person/s involved (driver and any others);</li> <li>(f) the location and time of the release;</li> <li>(g) the suspected cause of the release;</li> <li>(h) a description of the effects of the release;</li> <li>(i) the results of any sampling performed in relation to the release, actions taken to mitigate any environmental harm caused by the release; and</li> <li>(j) proposed actions to prevent a recurrence of the release.</li> </ul> |
| G9                          | A competent person(s) must conduct any monitoring required by this environmental authority.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| G10                         | An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site, and in each vehicle used if the activity is a mobile ERA.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G11                         | Anyone operating under this environmental authority must be trained in the use of the spill kit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Agency interest: Air</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Condition number</b>     | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| A1                          | The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| A2                          | Dust and particulate matter must not exceed a dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions), when measured at any nuisance sensitive or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A3                               | When requested by the administering authority, monitoring must be undertaken to investigate any complaint of environmental nuisance caused by a release to the atmosphere from a release point at the site, and the results thereof notified to the administering authority within 14 days following completion of monitoring.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| A4                               | The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| A5                               | When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: <ul style="list-style-type: none"> <li>(a) for a complaint alleging dust nuisance, dust deposition; and</li> <li>(b) for a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.</li> </ul> |
| <b>Agency interest: Land</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Condition number</b>          | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| L1                               | Contaminants must not be released to land.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| L2                               | Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm.<br><br>NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Agency interest: Acoustic</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Condition number</b>          | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| N1                               | Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| N2                               | <p>All noise from activities must not exceed the levels specified in <i>Table - Noise limits at any nuisance sensitive or commercial place</i>.</p> <p style="text-align: center;"><b>Table – Noise limits at any nuisance sensitive or commercial place</b></p> <table><tr><th rowspan="2">Noise level dB(A)<br/>measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday and Public Holidays</th></tr><tr><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th></tr><tr><td></td><td colspan="6">Noise measured at the sensitive place*</td></tr><tr><td>LA10, adj, 10 mins</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td></tr><tr><td>LA1, adj, 10 mins</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr><tr><td></td><td colspan="6">Noise measured at the commercial place</td></tr><tr><td>LA10, adj, 10 mins</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr><tr><td>LA1, adj, 10 mins</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td></tr></table> | Noise level dB(A)<br>measured as | Monday to Saturday |                            |          | Sunday and Public Holidays |  |  | 7am–6pm | 6pm–10pm | 10pm–7am | 7am–6pm | 6pm–10pm | 10pm–7am |  | Noise measured at the sensitive place* |  |  |  |  |  | LA10, adj, 10 mins | Bkg + 5 | Bkg + 5 | Bkg + 0 | Bkg + 5 | Bkg + 5 | Bkg + 0 | LA1, adj, 10 mins | Bkg + 10 | Bkg + 10 | Bkg + 5 | Bkg + 10 | Bkg + 10 | Bkg + 5 |  | Noise measured at the commercial place |  |  |  |  |  | LA10, adj, 10 mins | Bkg + 10 | Bkg + 10 | Bkg + 5 | Bkg + 10 | Bkg + 10 | Bkg + 5 | LA1, adj, 10 mins | Bkg + 15 | Bkg + 15 | Bkg + 10 | Bkg + 15 | Bkg + 15 | Bkg + 10 |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------------------|----------------------------|----------|----------------------------|--|--|---------|----------|----------|---------|----------|----------|--|----------------------------------------|--|--|--|--|--|--------------------|---------|---------|---------|---------|---------|---------|-------------------|----------|----------|---------|----------|----------|---------|--|----------------------------------------|--|--|--|--|--|--------------------|----------|----------|---------|----------|----------|---------|-------------------|----------|----------|----------|----------|----------|----------|
| Noise level dB(A)<br>measured as | Monday to Saturday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                  |                    | Sunday and Public Holidays |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
|                                  | 7am–6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 6pm–10pm                         | 10pm–7am           | 7am–6pm                    | 6pm–10pm | 10pm–7am                   |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
|                                  | Noise measured at the sensitive place*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| LA10, adj, 10 mins               | Bkg + 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Bkg + 5                          | Bkg + 0            | Bkg + 5                    | Bkg + 5  | Bkg + 0                    |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| LA1, adj, 10 mins                | Bkg + 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bkg + 10                         | Bkg + 5            | Bkg + 10                   | Bkg + 10 | Bkg + 5                    |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
|                                  | Noise measured at the commercial place                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| LA10, adj, 10 mins               | Bkg + 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bkg + 10                         | Bkg + 5            | Bkg + 10                   | Bkg + 10 | Bkg + 5                    |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| LA1, adj, 10 mins                | Bkg + 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Bkg + 15                         | Bkg + 10           | Bkg + 15                   | Bkg + 15 | Bkg + 10                   |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| N3                               | <p>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:</p> <p>(a) LA 10, adj, 10 mins;</p> <p>(b) LA 1, adj, 10 mins;</p> <p>(c) the level and frequency of occurrence of impulsive or tonal noise;</p> <p>(d) atmospheric conditions including wind speed and direction;</p> <p>(e) effects due to extraneous factors such as traffic noise; and</p> <p>(f) location, date and time of recording.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| N4                               | <p>The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| Agency interest: Social          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| Condition number                 | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |
| S1                               | <p>The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request:</p> <p>(a) time, date, name and contact details of the complainant;</p> <p>(b) reasons for the complaint;</p> <p>(c) any investigations undertaken;</p> <p>(d) conclusions formed; and</p> <p>(e) any actions taken.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                  |                    |                            |          |                            |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                    |         |         |         |         |         |         |                   |          |          |         |          |          |         |  |                                        |  |  |  |  |  |                    |          |          |         |          |          |         |                   |          |          |          |          |          |          |

| Agency interest: Water |                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number       | Condition                                                                                                                                                    |
| W1                     | Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.                |
| W2                     | Contaminants must not be released from the site to any waters or the bed and banks of any waters                                                             |
| W3                     | Contaminants other than settled/treated stormwater runoff waters must not be released from the site to surface waters or the bed or banks of surface waters. |

## Definitions

Key terms and/or phrases in this part of the environmental authority are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of the Environment, Tourism, Science and Innovation or its successor or predecessors.

**Airblast overpressure** means energy transmitted from the blast site within the atmosphere in the form of pressure waves, the maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels linear (dB).

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the nominated subject matter and can give authoritative assessment, advice and analysis to performance relative to the subject matter using the relevant protocols, standards, methods or literature.

**Authorised place** means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

**Background** means noise, measured in the absence of the noise under investigation, as  $L_{A90,T}$  being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Blasting** is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a site or for reuse.

**Commercial place** means a place used as an office or for business or commercial purposes.

**Dwelling** means any of the following structures or vehicles that is principally used as a residence

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina,

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Dredging** includes extraction of mud, sand, coral, ballast, shingle, gravel, clay, earth and other material from the bed of Queensland tidal and non-tidal waters. Dredging does not include the banks of a waterway.

**Dwelling** means any of the following structures or vehicles that is principally used as a residence:

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina,

**$L_{Aeq, adj, T}$**  means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the activity is causing a steady state noise, and no shorter than one hour when the approved activity is causing an intermittent noise.

**$L_{Aeq, adj, 1 \text{ hour}}$**  means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a representative 1 hour period, using Fast response.

**L<sub>A10, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

**L<sub>A1, adj, 10 mins</sub>** means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

**L<sub>A, max T</sub>** means the average maximum A-weighted sound pressure level adjusted for noise character and measured over any 10 minute period, using Fast response.

**Land** in the land conditions of this document means land excluding waters and the atmosphere.

**MaxLpA,T** means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

**Measures** has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

**mg/L** means milligrams per litre.

**NATA** means National Association of Testing Authorities.

**Noxious** means harmful or injurious to health or physical well-being.

**Nuisance sensitive place** includes:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the sense; disgusting, nauseous or repulsive.

**Peak particle velocity (ppv)** means a measure of ground vibration magnitude, which is the maximum rate of change of ground displacement with time, usually measured in millimetres/second (mms-1).

**Prescribed contaminants** means contaminants listed within Schedule 9 of the *Environmental Protection Regulation 2008*.

**Protected area** means:

- a protected area under the *Nature Conservation Act 1992*; or
- a marine park under the *Marine Parks Act 2004*; or
- a World Heritage Area.

**Quarry material** means material on State coastal land, other than a mineral within the meaning of any Act relating to mining. Material includes for example stone, gravel, sand, rock, clay, mud, silt and soil, unless it is removed from a culvert, stormwater drain or other drainage infrastructure as waste material.

**Release of a contaminant into the environment** means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed

- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarden, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the *Environmental Protection (Noise) Policy 2008*.

**Site** means land or tidal waters on or in which it is proposed to carry out the development approved under this environmental authority.

**Substantial low frequency noise** means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55dB(Z).

**24 hour storm event with an average recurrence interval of 1 in 5 years** means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 5 years. For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 5 years, identifies a rainfall intensity of 7.09mm/hour. The rainfall depth for this event is therefore 24 hour x 7.09mm/hour = 170.16mm.

**Vibration** is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

**Watercourse** means a river, creek or stream in which water flows permanently or intermittently:

- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

**Works or operation** means the development approved under this environmental authority.

**You** means the holder of the environmental authority.

**Part 5: Extraction– Lot 2/RP154619 (formerly EA0001750)**

| Environmentally relevant activity(ies)                                                                                                                                     | Location(s)    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t | Lot 2/RP154619 |

The environmentally relevant activities conducted at the location as described above must be conducted in accordance with the following site specific conditions of environmental authority.

| Agency interest: General |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Condition number         | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| G1                       | <p><b>Activities</b> under this environmental authority must be conducted in accordance with the following limitations:</p> <ol style="list-style-type: none"> <li>1. Extraction within Lot 2 RP154619 must only occur within the area bounded by the GPS set out points 1-18 in <i>Appendix 1</i>;</li> <li>2. The amount of material extracted per year must not exceed 360,000 tonnes per annum;</li> <li>3. The depth of extraction within Lot 2 RP154619 must not exceed standing <b>groundwater</b> level.</li> </ol> |
| G2                       | All reasonable and practicable <b>measures</b> must be taken to prevent or minimise environmental harm caused by the <b>activities</b> .                                                                                                                                                                                                                                                                                                                                                                                    |
| G3                       | Any breach of a condition of this environmental authority must be reported to the <b>administering authority</b> as soon as practicable within 24 hours of becoming aware of the breach. <b>Records</b> must be kept including full details of the breach and any subsequent actions taken.                                                                                                                                                                                                                                 |
| G4                       | Other than as permitted by this environmental authority, the <b>release of a contaminant into the environment</b> must not occur.                                                                                                                                                                                                                                                                                                                                                                                           |
| G5                       | Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the <b>administering authority, or nominated delegate</b> upon request, within the required timeframe and in the specified format.                            |
| G6                       | An <b>appropriately qualified person(s)</b> must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.                                                                                                                                                                                                                                                                                                |
| G7                       | All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities ( <b>NATA</b> ) certification, or an equivalent certification, for such analyses. The only exception to this condition is the in situ monitoring of turbidity, pH, electrical conductivity and dissolved oxygen.                                                                                                                                                          |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G8                            | When required by the <b>administering authority</b> , monitoring must be undertaken in the manner prescribed by the <b>administering authority</b> , to investigate a complaint of <b>environmental nuisance</b> arising from the <b>activity</b> . The monitoring results must be provided within 10 business days to the <b>administering authority</b> upon its request.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| G9                            | The <b>activity</b> must be undertaken in accordance with written procedures that: <ol style="list-style-type: none"> <li>1. identify potential risks to the environment from the <b>activity</b> during routine operations, closure and an emergency</li> <li>2. establish and maintain control <b>measures</b> that minimise the potential for environmental harm</li> <li>3. ensure plant, equipment and <b>measures</b> are maintained in a proper and effective condition</li> <li>4. ensure plant, equipment and <b>measures</b> are operated in a proper and effective manner</li> <li>5. ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i></li> <li>6. ensure that reviews of environmental performance are undertaken at least annually.</li> </ol> |
| G10                           | Chemicals and fuels in containers of greater than 15 litres must be stored within a <b>secondary containment system</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Agency interest: Waste</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| W1                            | All waste generated in carrying out the <b>activity</b> must be reused, recycled or removed to a facility that can lawfully accept the waste.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Agency interest: Air</b>   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| A1                            | Other than as permitted within this environmental authority, odours or airborne contaminants must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| A2                            | Dust and particulate matter emissions must not exceed the following concentrations at any <b>sensitive place</b> or <b>commercial place</b> : <ol style="list-style-type: none"> <li>a) dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 (or more recent editions), or</li> <li>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, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the <b>administering authority</b>.</li> </ol>                                                                          |
| <b>Agency interest: Land</b>  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Condition number</b>       | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| L1                              | Other than as permitted within this environmental authority, contaminants must not be released to <b>land</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
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| L2                              | <p><b>Land</b> that has been disturbed for <b>activities</b> conducted under this environmental authority must be rehabilitated in a manner such that:</p> <ol style="list-style-type: none"><li>1. suitable native species of vegetation for the location are established and sustained for earthen surfaces;</li><li>2. potential for erosion is minimised;</li><li>3. The quality of water released from the site, including seepage, does not cause environmental harm;</li><li>4. potential for <b>environmental nuisance</b> caused by dust is minimised;</li><li>5. the water quality of any residual water body does not have potential to cause environmental harm;</li><li>6. the final landform is stable and protects public safety.</li></ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| L3                              | Rehabilitation of <b>disturbed areas</b> required under condition L2, must take place progressively as works are staged and new extraction areas are commenced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| Agency interest: Acoustic       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| Condition number                | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| N1                              | Other than as permitted within this environmental authority, noise generated by the <b>activity</b> must not cause <b>environmental nuisance</b> to any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| N2                              | <p>Noise from the <b>activity</b> must not exceed the levels identified in <i>Table – Noise limits</i> when measured in accordance with the associated monitoring requirements.</p> <p><b>Table – Noise limits</b></p> <table><tr><th></th><th colspan="3">Monday to Saturday</th><th colspan="3">Sunday and Public Holidays</th></tr><tr><th></th><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th><th>7am–6pm</th><th>6pm–10pm</th><th>10pm–7am</th></tr><tr><th></th><th colspan="6">Noise measured at the sensitive place*</th></tr><tr><td><b>L<sub>Aeq</sub></b>, adj, T</td><td>42</td><td>35</td><td>30</td><td>35</td><td>35</td><td>30</td></tr><tr><td><b>Max L<sub>pA</sub></b> T</td><td>N/A</td><td>N/A</td><td>47</td><td>N/A</td><td>N/A</td><td>47</td></tr></table> <p><b>* A residential dwelling at the location is not considered to be a sensitive place, so long as a contractual arrangement exists between you and the owner of the dwelling</b></p> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>1. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual.</li><li>2. Any monitoring must be in accordance with the most recent version of the <b>administering authority’s Noise Measurement Manual</b>.</li><li>3. Any monitoring of noise emissions from the <b>activity</b> must be undertaken when the <b>activity</b> is in operation.</li></ol> |          | Monday to Saturday |                            |          | Sunday and Public Holidays |  |  |  | 7am–6pm | 6pm–10pm | 10pm–7am | 7am–6pm | 6pm–10pm | 10pm–7am |  | Noise measured at the sensitive place* |  |  |  |  |  | <b>L<sub>Aeq</sub></b> , adj, T | 42 | 35 | 30 | 35 | 35 | 30 | <b>Max L<sub>pA</sub></b> T | N/A | N/A | 47 | N/A | N/A | 47 |
|                                 | Monday to Saturday                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                    | Sunday and Public Holidays |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
|                                 | 7am–6pm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6pm–10pm | 10pm–7am           | 7am–6pm                    | 6pm–10pm | 10pm–7am                   |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
|                                 | Noise measured at the sensitive place*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |                    |                            |          |                            |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| <b>L<sub>Aeq</sub></b> , adj, T | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 35       | 30                 | 35                         | 35       | 30                         |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |
| <b>Max L<sub>pA</sub></b> T     | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | N/A      | 47                 | N/A                        | N/A      | 47                         |  |  |  |         |          |          |         |          |          |  |                                        |  |  |  |  |  |                                 |    |    |    |    |    |    |                             |     |     |    |     |     |    |

| N3                                             | <p>When required by the <b>administering authority</b>, noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table - Noise Limits</i>, and the results notified within 14 days to the <b>administering authority</b>. Monitoring must include:</p> <ol style="list-style-type: none"> <li>1. <b>L<sub>Aeq, adj, T</sub></b></li> <li>2. <b>Background noise (Background)</b> as <b>L<sub>A 90, adj, T</sub></b></li> <li>3. <b>Max<sub>LpA,T</sub></b></li> <li>4. the level and frequency of occurrence of any impulsive or tonal noise</li> <li>5. atmospheric conditions including wind speed and direction</li> <li>6. effects due to extraneous factors such as traffic noise</li> <li>7. recording of location, date and time of measurements.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| N4                                             | Generation of <b>substantial low frequency noise</b> is not permitted.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| N5                                             | <p><b>Blasting</b> activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table – Blasting noise limits</i> when measured at any <b>sensitive place</b> or <b>commercial place</b> in accordance with the associated monitoring requirements.</p> <p><b>Table - Blasting noise limits</b></p> <table border="1"> <thead> <tr> <th>Blasting criteria</th><th>Blasting limits</th></tr> </thead> <tbody> <tr> <td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr> <tr> <td>Ground <b>vibration</b> peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr> </tbody> </table> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"> <li>1. Monitoring must be performed in accordance with the most recent edition of the <b>administering authority's</b> <i>Noise and Vibration from Blasting guideline</i> and <i>Noise Measurement Manual</i> and any relevant <i>Australian Standard</i>.</li> <li>2. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li> </ol> | Blasting criteria | Blasting limits | Airblast overpressure | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time. | Ground <b>vibration</b> peak particle velocity | 5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time. |
| Blasting criteria                              | Blasting limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| Airblast overpressure                          | 115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| Ground <b>vibration</b> peak particle velocity | 5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| N6                                             | <b>Blasting</b> must be carried out in accordance with the current edition of the <b>administering authority's</b> <i>Noise and vibration from blasting guideline</i> and with <i>Australian Standard 2187</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| N7                                             | <p>Unless prior approval is obtained from the <b>administering authority</b>:</p> <ol style="list-style-type: none"> <li>1. <b>blasting</b> is only permitted during the hours of 9 am to 3 pm Monday to Friday, and from 9 am to 1 pm on Saturdays.</li> <li>2. <b>blasting</b> is not permitted at any time on Sundays or public holidays.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| N8                                             | When required by the <b>administering authority</b> , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table – Blasting noise limits</i> at any <b>sensitive place</b> or <b>commercial place</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| <b>Agency interest: Water</b>                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |
| <b>Condition number</b>                        | <b>Condition</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                 |                       |                                                                                                                          |                                                |                                                                                                                                   |

| WA1                                                                                     | Other than as permitted within this environmental authority, contaminants must not be released to any <b>waters</b> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                 |                                   |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
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| WA2                                                                                     | <p>The only contaminants to be released to <b>waters</b> are settled treated stormwater in accordance with <i>Table - Surface water release limits</i> and the associated monitoring requirements.</p> <p><b>Table - Surface water release limits</b></p> <table><tr><th>Release Point(s)<br/>Description</th><th>Quality characteristic<br/>(units)</th><th>Limit</th><th>Limit Type</th><th>Minimum<br/>Monitoring<br/>Frequency</th></tr><tr><td rowspan="4">Spillway from<br/>sediment basin<br/>'Quarry Sump QS1'<br/>identified in <i>Appendix B</i></td><td>pH</td><td>6.5-8.5</td><td>Range</td><td rowspan="4">Quarterly</td></tr><tr><td>Dissolved oxygen (%)</td><td>85-110</td><td>Range</td></tr><tr><td>Suspended solids (mg/L)</td><td>50</td><td>Maximum</td></tr><tr><td>Turbidity (NTU)</td><td>60</td><td>Maximum</td></tr></table> <p><b>Associated monitoring requirements</b></p> <ol style="list-style-type: none"><li>Monitoring must be in accordance with the methods prescribed in the current edition of the administering <i>Monitoring and Sampling Manual</i>.</li><li>Water and sediment samples must be representative of the general condition of the water body or sediments.</li><li>All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic.</li><li>Monitoring must be undertaken during a release and at the frequency stated.</li><li>All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.</li></ol> | Release Point(s)<br>Description | Quality characteristic<br>(units) | Limit                              | Limit Type | Minimum<br>Monitoring<br>Frequency | Spillway from<br>sediment basin<br>'Quarry Sump QS1'<br>identified in <i>Appendix B</i> | pH | 6.5-8.5 | Range | Quarterly | Dissolved oxygen (%) | 85-110 | Range | Suspended solids (mg/L) | 50 | Maximum | Turbidity (NTU) | 60 | Maximum |
| Release Point(s)<br>Description                                                         | Quality characteristic<br>(units)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Limit                           | Limit Type                        | Minimum<br>Monitoring<br>Frequency |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
| Spillway from<br>sediment basin<br>'Quarry Sump QS1'<br>identified in <i>Appendix B</i> | pH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6.5-8.5                         | Range                             | Quarterly                          |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
|                                                                                         | Dissolved oxygen (%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 85-110                          | Range                             |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
|                                                                                         | Suspended solids (mg/L)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50                              | Maximum                           |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
|                                                                                         | Turbidity (NTU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 60                              | Maximum                           |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
| WA3                                                                                     | The release to <b>waters</b> permitted under WA2 must not contain any other properties at a concentration capable of causing environmental harm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                 |                                   |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
| WA4                                                                                     | The release to <b>waters</b> permitted under WA2 must not produce any slick or other visible evidence of oil or grease, scum, litter or other visually objectionable matter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                 |                                   |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |
| WA5                                                                                     | <b>Stormwater that is not contaminated by the activity</b> must be diverted away from areas where it may become contaminated by the <b>activity</b> . Stormwater that is contaminated by the <b>activity</b> must be directed to a treatment system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                   |                                    |            |                                    |                                                                                         |    |         |       |           |                      |        |       |                         |    |         |                 |    |         |

## Definitions

Key terms and/or phrases in this environmental authority are defined in this section. Where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

**Activity** means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

**Administering authority** means the Department of the Environment, Tourism, Science and Innovation or its successor or predecessors.

**Airblast overpressure** is the energy transmitted from the blast site within the atmosphere in the form of pressure waves. As these waves pass a given position, the pressure of the air rises very rapidly then falls more slowly then returns to the ambient value after a number of oscillations. The pressure wave consists of both audible (noise) and inaudible (concussion) energy. The maximum excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using the linear frequency-weighting.

**Appropriately qualified person(s)** means a person or persons who has professional qualifications, training, skills or experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirements using the relevant protocols, standards, methods or literature.

**Background** means noise, measured in the absence of the noise under investigation, as  $L_{A\ 90, \text{adj}, T}$  being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

**Blasting** is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a site or for reuse.

**Commercial place** means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

**Disturbed areas** includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the activity; and/or
3. upon which stockpiles of soil or other materials are located.

**Environmental nuisance** as defined in Chapter 1 of the *Environmental Protection Act 1994*.

**Environmental value –**

- a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
- another quality of the environment identified and declared to be an environmental value under an environmental protection policy or regulation.

**Groundwater** means water that occurs naturally in, or is introduced artificially into, an aquifer.

**Land** means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes **tidal land**).

$L_{Aeq, \text{adj}, T}$  means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the **activity** is causing a steady state noise, and no shorter than one hour when the approved **activity** is causing an intermittent noise.

**Max $_{LpA, T}$**  means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response.

**Measures** has the broadest interpretation and includes:

- Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
- Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

**NATA** means National Association of Testing Authorities.

**Nominated delegate** means another government agency that provides services to the **administering authority**.

**Noxious** means harmful or injurious to health or physical well-being.

**Offensive** means causing offence or displeasure; is unreasonably disagreeable to the senses; disgusting, nauseous or repulsive.

**Prescribed water contaminants** means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

**Records** include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

**Release of a contaminant into the environment** means to:

1. deposit, discharge, emit or disturb the contaminant
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed
4. allow the contaminant to escape
5. fail to prevent the contaminant from escaping.

**Secondary containment system** means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, groundwater, or surface waters.

**Sensitive place** includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

**Stormwater that is not contaminated by the activity** includes stormwater runoff from external or undisturbed catchments.

**Substantial low frequency noise** means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55 dB(Z).

**Tidal land** means land that is submerged at any time by tidal water.

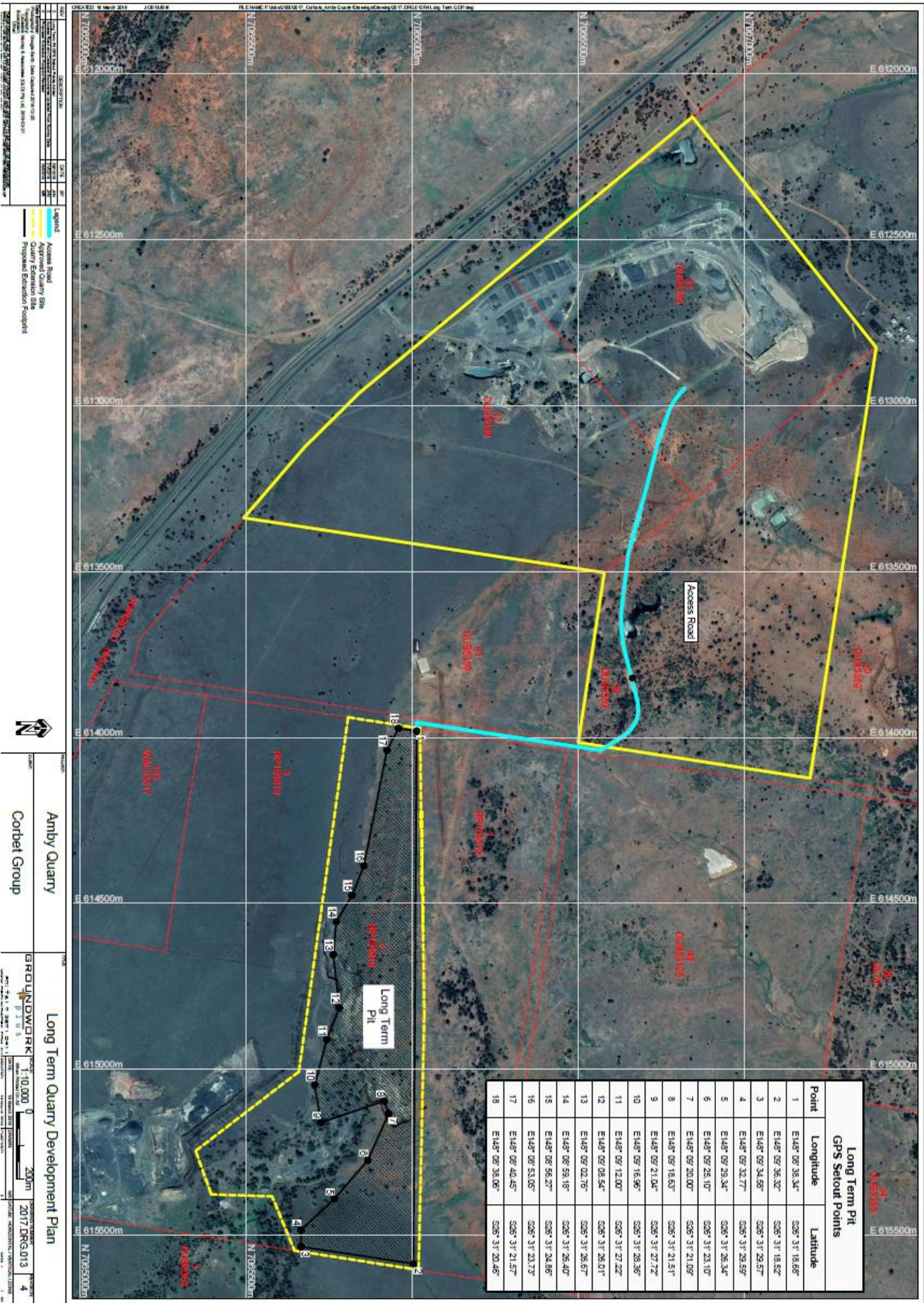
**You** means the holder of the environmental authority.

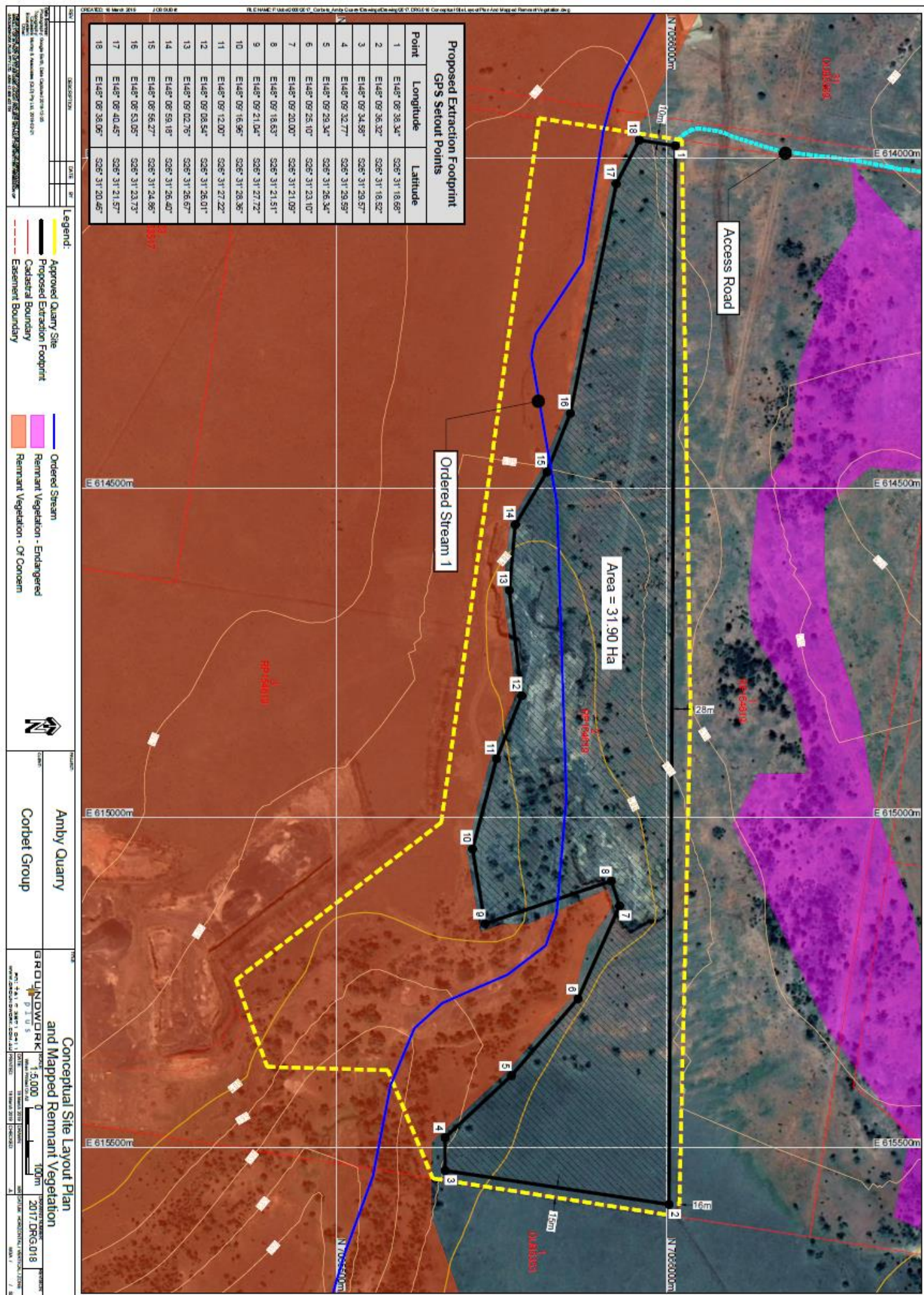
**Vibration** is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium

position.

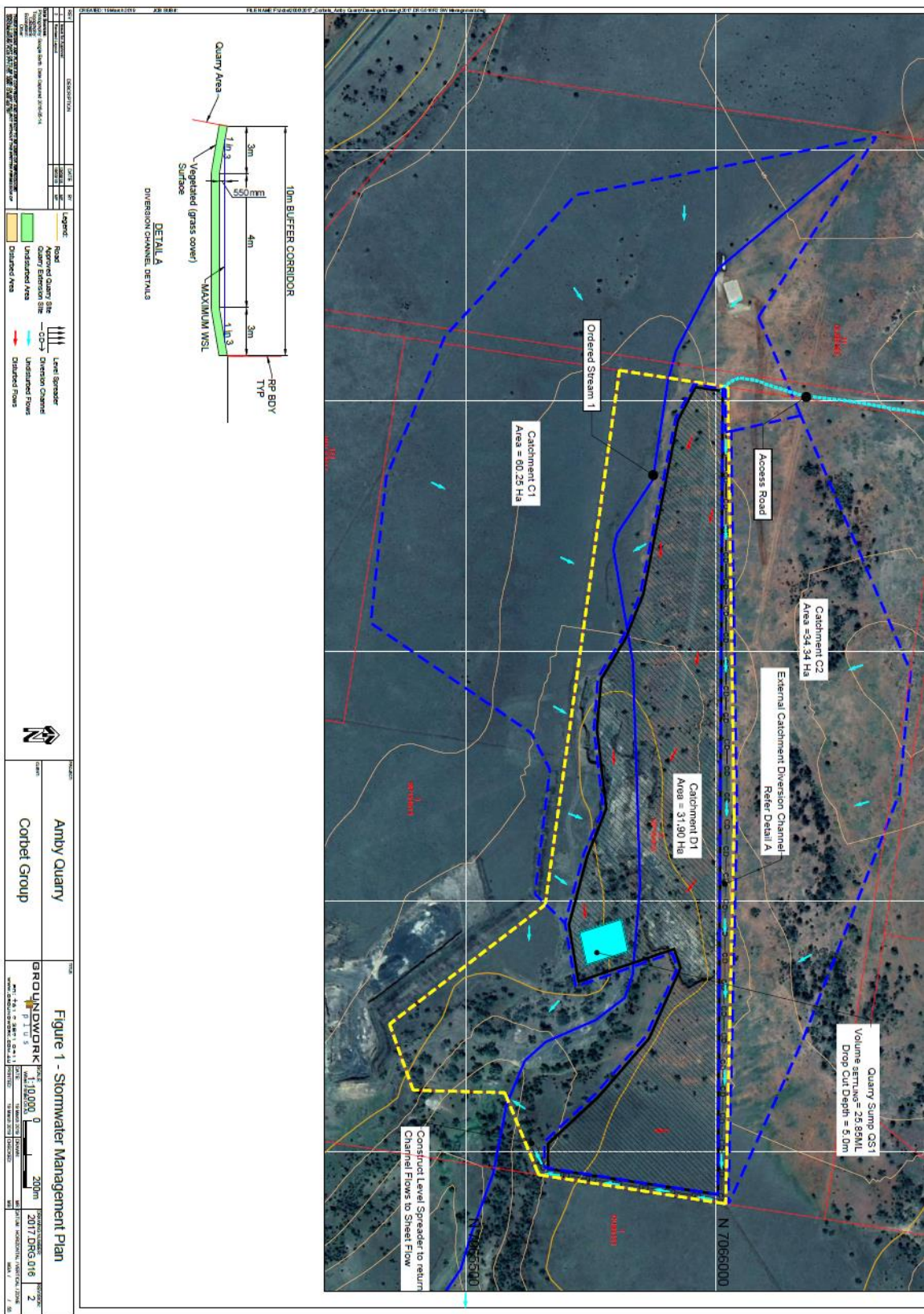
**Waters** includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water, natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part thereof.

Appendix 1





Appendix B



**END OF ENVIRONMENTAL AUTHORITY**