Permit[1]

Environmental Protection Act 1994

Environmental authority

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

Permit[1] number: EPPR01862714

Environmental authority takes effect 25 November 2016.

The anniversary date of this environmental authority remains 24 January each year. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Pearljaney Pty Ltd T/A PK & BT Bland Rural Enterprises	Lot 5 Bligh Street MILLMERRAN QLD 4357

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2a) extracting, other than by dredging, 5,000t to 100,000t of materials in a year. 16-(3a) screening 5,000t to 100,000t of materials in a year.	Jentz Road, Scrubby Mountain QLD 4356 - Lot 14 Plan A342489 and Lot 15 Plan SP176884

Additional information for applicants

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

An environmental authority authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the authority specifically authorises environmental harm.
A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

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

- a notifiable activity (as defined in Schedule 3) that is being, or has been, carried out on the land (notice must be given within 20 business days)

- an event involving a hazardous contaminant on the land, or a change in the condition of the contaminated land, that is causing, or is reasonably likely to cause, serious or material environmental harm (notice must be given within 24 hours).

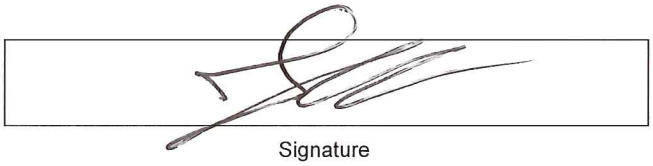
For further information, including the form for giving written notice, refer to the Queensland Government website http://www.qld.gov.au/ (using the search term 'managing contaminated land').

Nature Conservation (Koala) Conservation Plan 2006

When clearing koala habitat trees, clearing must follow the sequential clearing conditions and must be carried out in the presence of a koala spotter as per sections 15 & 16 of the Nature Conservation (Koala) Conservation Plan 2006.

Previously Approved Impacts

Impacts to 5.88ha of *Phascolarctos cinereus* habitat was authorised under SPCE05180113 dated 13/05/2013.



Signature

25/11/2016

Date

Tariq Khan
Department of Environment and Heritage Protection
Delegate of the Administering Authority
Environmental Protection Act 1994

Enquiries:
Industry and Development Assessment
Department of Environment and Heritage Protection
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BRISBANE QLD 4001
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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)

Conditions of environmental authority

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	**Condition**
G1	**Activities** operating under this environmental authority must be conducted in accordance with the following limitations: a) Activities are permitted to occur within Area B identified in Schedule 1 Figure 1 and Schedule 2 Table 1; and b) Activities are also permitted to occur within Area A identified in Schedule 1 Figure 1 and Schedule 2 Table 1, but only when the requirements under condition G10 have been met.
G2	All reasonable and practicable **measures** must be taken to minimise the likelihood of environmental harm being caused.
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable, or at most, within 24 hours of **you** becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions undertaken.
G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** 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 administering authority, or nominated delegate upon request, within the required timeframe and in the specified format.
G6	An **appropriately qualified person(s)** 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.

<table>
<tr><td>G7</td><td>The activity must be undertaken in accordance with written procedures that:
a) identify potential risks to the environment from the activity during routine operations, closure and an emergency
b) establish and maintain control measures that minimise the potential for environmental harm
c) ensure plant, equipment and measures are maintained in a proper and effective condition
d) ensure plant, equipment and measures are operated in a proper and effective manner
e) ensure that staff are trained and aware of their obligations under the Environmental Protection Act 1994
f) ensure that reviews of environmental performance are undertaken at least annually.</td></tr>
<tr><td>G8</td><td>Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system.</td></tr>
<tr><td>G9</td><td>Significant residual impacts to prescribed environmental matters are not authorised under this environmental authority or the Environmental Offsets Act 2014 unless the impact(s) is specified in Table 1 - Significant residual impacts to prescribed environmental matters.

Table 1 - Significant residual impacts to prescribed environmental matters
<table>
<tr><th>Prescribed Environmental Matter</th><th>Location of impact</th><th>Maximum extent of impact</th></tr>
<tr><td>Legally secured offset area (for protected wildlife - Phascolarctos cinereus)</td><td>Area A identified in Schedule 1 Figure 1 and Schedule 2 Table 1</td><td>2.92ha</td></tr>
<tr><td>Protected wildlife habitat for Phascolarctos cinereus</td><td>Area A identified in Schedule 1 Figure 1 and Schedule 2 Table 1</td><td>2.92ha</td></tr>
</table></td></tr>
<tr><td>G10</td><td>An environmental offset made in accordance with the Environmental Offsets Act 2014 and Queensland Environmental Offsets Policy, as amended from time to time, must be undertaken for the maximum extent of impact to each prescribed environmental matter authorised in Table 1 - Significant residual impacts to prescribed environmental matters.</td></tr>
<tr><td>G11</td><td>When the environmental offset under condition G10 is made, an additional 7.61ha of Phascolarctos cinereus habitat must be legally secured and managed as per an offset area management plan.</td></tr>
<tr><td colspan="2">Agency interest: Koala Conservation</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>K1</td><td>There is to be a net benefit to koalas on site through the implementation of the Rehabilitation Management Plan. Implementation is to commence from commencement of the environmentally relevant activity to which this approval relates and extend for the life of the activity and include the following actions:
a) Replanting of koala habitat trees from local seed stock in areas identified for habitat rehabilitation and revegetation;
b) All areas subject to the rehabilitation management plan must be actively managed for weed removal, appropriate fire regimes, sediment and erosion control and feral animals;
c) Areas for protection and rehabilitation are to be clearly marked. If fencing is to be used to delineate these boundaries, it must be koala friendly fencing.</td></tr>
</table>

<table>
<tr><td colspan="2">Agency interest: Air</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>A1</td><td>Odours or airborne contaminants which are noxious or offensive or otherwise unreasonably disruptive to public amenity or safety must not cause nuisance to any sensitive place or commercial place.</td></tr>
<tr><td>A2</td><td>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.</td></tr>
<tr><td colspan="2">Agency interest: Water</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>WA1</td><td>Contaminants, other than settled/treated stormwater runoff must not be released from the site to surface waters or the bed or banks of surface waters.</td></tr>
<tr><td>WA2</td><td>Erosion protection measures and sediment control measures must be implemented and maintained.</td></tr>
<tr><td>WA3</td><td>Suitable banks and/or diversion drains must be installed and maintained to exclude uncontaminated stormwater runoff from entering any ponds or active operation areas.</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>N1</td><td>Noise from the activity must not exceed the levels identified in Table 2—Noise limits when measured in accordance with the associated monitoring requirements.

Table 2: Noise Limits
<table>
<tr><td rowspan="2">Noise level dB(A) measured as</td><td colspan="3">Monday to Sunday including public holidays</td></tr>
<tr><td>7am - 6pm</td><td>6pm - 10pm</td><td>10pm - 7am</td></tr>
<tr><td></td><td colspan="3">Noise measured at a Sensitive place</td></tr>
<tr><td>$L_{Aeq\ ,1\ hour}$</td><td>45</td><td>35</td><td>30</td></tr>
</table>
Associated monitoring requirements
a) All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.
b) Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual.
c) Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.</td></tr>
</table>

<table>
<tr><td>N2</td><td>When required by the administering authority, noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 2—Noise Limits, and the results notified within 14 days to the administering authority. Monitoring must include:
a) $L_{Aeq, 1\ hour}$;
b) Background noise (Background) as $L_{A90, adj, T}$;
c) $MaxL_{pA,T}$;
d) the level and frequency of occurrence of any impulsive or tonal noise;
e) atmospheric conditions including wind speed and direction;
f) effects due to extraneous factors such as traffic noise; and
g) recording of location, date and time of measurements.</td></tr>
<tr><td>N3</td><td>Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 3 – Blasting noise limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements.

Table 3—Blasting noise limits
<table>
<tr><th>Blasting criteria</th><th>Blasting limits</th></tr>
<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 vibration peak particle velocity</td><td>5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.</td></tr>
</table>
Associated monitoring requirements
a) Monitoring must be in accordance with the most recent editions of the administering authority's 'Noise and Vibration from Blasting' guideline and Noise Measurement Manual and any relevant Australian standard.</td></tr>
<tr><td>N4</td><td>Blasting must be carried out in accordance with the current edition of the administering authority's Noise and vibration from blasting guideline and with Australian Standard 2187.</td></tr>
<tr><td>N5</td><td>Unless prior approval is obtained from the administering authority:
a) blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays.
b) blasting is not permitted at any time on Sundays or public holidays.</td></tr>
<tr><td>N6</td><td>When required by the administering authority, a blast monitoring program must be developed and implemented to monitor compliance with Table 3—Blasting noise limits at any sensitive place or commercial place.</td></tr>
<tr><td colspan="2">Agency interest: Social</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>S1</td><td>The following details for all complaints received must be recorded and provided to the administering authority on request:
a) Time, date, name and contact details of the complainant;
b) reasons for the complaint;
c) any investigations undertaken;
d) conclusions formed; and
e) any actions taken.</td></tr>
</table>

S2	Where it is determined by an authorised person that the ERA is causing an environmental nuisance at a sensitive receptor, the following action must be taken: a) address the complaint, including the use of appropriate dispute resolution if required; and b) immediately implement adequate abatement measures so that the ERA does not result in further environmental nuisance.
Agency interest: Land	
Condition number	**Condition**
L1	**Land** that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: a) suitable native species of vegetation for the location are established and sustained for earthen surfaces; b) potential for erosion is minimised; c) the quality of water released from the site, including seepage, does not cause environmental harm; d) potential for environmental nuisance caused by dust is minimised; e) the water quality of any residual water body does not have potential to cause environmental harm; f) the final landform is stable and protects public safety.
L2	Rehabilitation of disturbed areas required under condition L1, must take place progressively as works are staged and new extraction areas are commenced.
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.

Definitions
Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. Applicants should note that 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 Environment and Heritage Protection 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 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.

Background means noise, measured in the absence of the noise under investigation, as $L_{A\ 90,\ adj,\ T}$ 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:
a) rock, coal and other minerals for later recovery; or
b) 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.

Environmental offset has the meaning in section 7 of the *Environmental Offsets Act 2014*.

Koala friendly fencing means fencing that is in accordance with the Queensland Governments *Koala Safety Fencing and Measures Guideline.*

Koala habitat tree is described in the koala plan and the South East Queensland Koala Conservation State Planning Regulatory Provisions is a tree belonging to the *Cormbia, Melaleuca, Lophostemon or Eucalyptus* genera *(koala food tree),* or a tree belonging to the *Angophora* genus (preferred koala habitat shelter tree). A "non-juvenile" koala habitat tree is a koala habitat tree that has:
- a height of more than four (4) metres or
- a trunk with a diameter of more than ten (10) centimetres (equivalent to a trunk circumference of more than 31.5 centimetres), when measured at 1.3 metres above ground height (breast height).

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

$L_{Aeq,\ 1\ hour}$ means the adjusted A weighted equivalent continuous sound pressure level measures on fast response, adjusted for tonality and impulsiveness, during a period no less than 1 hour .

Legally secured has the meaning in page 39 of the Queensland Biodiversity Offsets Policy (version 1).

Legally secured offset area has the meaning in section 29 of the *Environmental Offsets Act 2014*.

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:

a) **Procedural measures** such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
b) **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.

Offset area management plan has the meaning in pages 26-27 of the Queensland Biodiversity Offsets Policy (version 1).

Prescribed environmental matters has the meaning in section 10 of the *Environmental Offsets Act 2014*, limited to the matters of State environmental significant listed in schedule 2 of the Environmental Offsets Regulation 2014.

Release of a contaminant into the environment means to:

a) deposit, discharge, emit or disturb the contaminant
b) cause or allow the contaminant to be deposited, discharged, emitted or disturbed
c) fail to prevent the contaminant from being deposited, discharged emitted or disturbed
d) allow the contaminant to escape
e) 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:

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

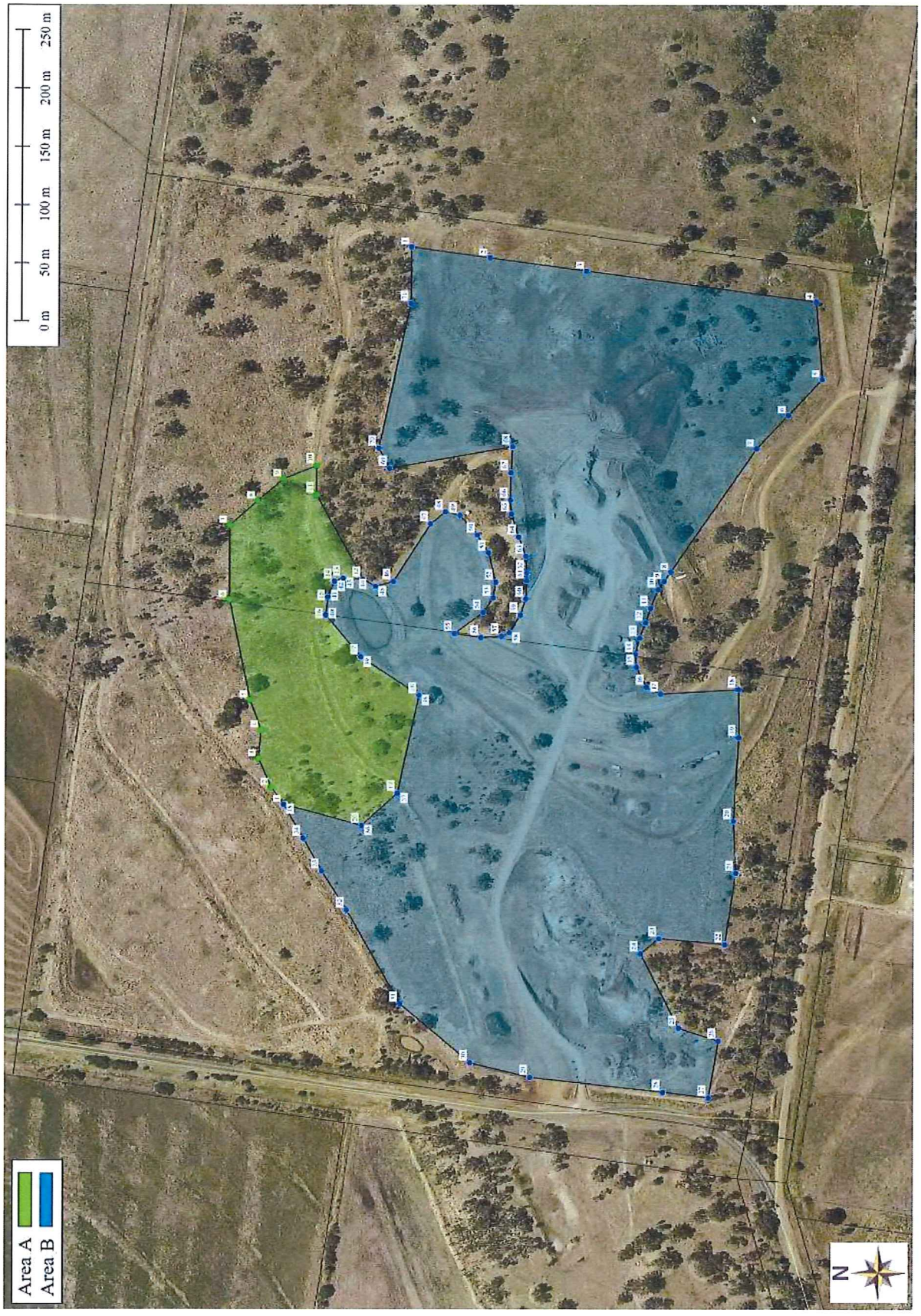
Significant residual impact has the meaning in section 8 *Environmental Offsets Act 2014*.

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.

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

You means the holder of the environmental authority.

Schedule 1 – Figure 1 – Approved activity areas, and areas subject to offset requirements.



Schedule 2 – Table 1 – Approved activity areas, and areas subject to offset requirements.

Co-ordinates - Area A (Green) GDA94 UTM Zone 56		
ID	Easting (E)	Northing (N)
1	361,895	6,930,055
2	361,910	6,930,066
3	361,934	6,930,077
4	361,959	6,930,075
5	361,985	6,930,084
6	362,071	6,930,102
7	362,135	6,930,102
8	362,156	6,930,078
9	362,175	6,930,056
10	362,186	6,930,027
11	362,161	6,930,027
12	362,089	6,929,987
13	362,090	6,930,004
14	362,087	6,930,012
15	362,074	6,930,017
16	362,058	6,930,019
17	362,022	6,929,989
18	361,989	6,929,939
19	361,905	6,929,957
20	361,877	6,929,988

Co-ordinates - Area B (Blue) GDA94 UTM Zone 56		
ID	Easting (E)	Northing (N)
1	362,374	6,929,947
2	362,365	6,929,879
3	362,354	6,929,796
4	362,327	6,929,599
5	362,261	6,929,594
6	362,230	6,929,622
7	362,201	6,929,649
8	362,095	6,929,723
9	362,087	6,929,728
10	362,080	6,929,734
11	362,064	6,929,740
12	362,051	6,929,744
13	362,038	6,929,749
14	362,024	6,929,753
15	362,013	6,929,752
16	361,996	6,929,743
17	361,990	6,929,731
18	361,994	6,929,664
19	361,953	6,929,664
20	361,881	6,929,668
21	361,836	6,929,666
22	361,775	6,929,675
23	361,780	6,929,732
24	361,767	6,929,747

Co-ordinates - Area B (Blue) (Cont.) GDA94 UTM Zone 56		
ID	Easting (E)	Northing (N)
25	361,703	6,929,715
26	361,692	6,929,681
27	361,643	6,929,689
28	361,648	6,929,728
29	361,661	6,929,842
30	361,673	6,929,894
31	361,724	6,929,954
32	361,805	6,930,001
33	361,838	6,930,022
34	361,866	6,930,038
35	361,895	6,930,055
36	361,877	6,929,988
37	361,905	6,929,957
38	361,989	6,929,939
39	362,022	6,929,989
40	362,058	6,930,019
41	362,074	6,930,017
42	362,087	6,930,012
43	362,090	6,930,004
44	362,089	6,929,987
45	362,083	6,929,976
46	362,087	6,929,961
47	362,136	6,929,929
48	362,147	6,929,917
49	362,144	6,929,904
50	362,127	6,929,889
51	362,112	6,929,879
52	362,086	6,929,873
53	362,073	6,929,875
54	362,060	6,929,883
55	362,042	6,929,908
56	362,039	6,929,885
57	362,040	6,929,868
58	362,043	6,929,861
59	362,058	6,929,852
60	362,072	6,929,847
61	362,088	6,929,846
62	362,094	6,929,846
63	362,109	6,929,847
64	362,125	6,929,853
65	362,145	6,929,860
66	362,157	6,929,860
67	362,180	6,929,860
68	362,203	6,929,859
69	362,184	6,929,965
70	362,201	6,929,974
71	362,326	6,929,947

END OF PERMIT

