Permit

Environmental Protection Act 1994

Environmental authority EA0001599

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

Environmental authority number: EA0001599

Environmental authority takes effect on a date to be decided later.

Environmental authority holder(s)

Name(s)	Registered address
COACHTRAIL INVESTMENTS PTY LTD	285 McIlwraith Road GIN GIN QLD 4671

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Prescribed ERA, 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 104/RP21941
Prescribed ERA, 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 104/RP21941

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).

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:

ABN 46 640 294 485

Queensland Government

- 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, 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.

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.

Clancy Mackaway
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 06 December 2018

Enquiries:
Extraction, Energy and Chemical Industries Assessment
Department of Environment and Science
Phone: 1300 130 372
Email: palm@des.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)

Conditions of environmental authority

Agency interest: General	
Condition number	**Condition**
G1	Activities under this environmental authority must be conducted in accordance with the following limitations: a) Extraction must only occur within Area A and Area B in Appendix A – Plan of Areas (GC15-184-AP); b) Screening must only occur within Area A, Area B and Area C (part 1 and 21) in Appendix A – Plan of Areas (GC15-184-AP) c) The amount of material extracted per year must not exceed 250,000t; d) The amount of material screened per year must not exceed 250,000t.
G2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities**
G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
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.
G7	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (**NATA**) 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 **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint of environmental nuisance arising from the **activity**. The monitoring results must be provided within 10 business days to the **administering authority** upon its request.
G9	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the **activity** during routine operations, closure and an emergency

	2. establish and maintain control **measures** that minimise the potential for environmental harm 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition 4. ensure plant, equipment and **measures** are operated in a proper and effective manner 5. ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
G10	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system.**
G11	The **activity** must not be carried out until **you** have given **financial assurance** to the **administering authority**.
G12	If the **administering authority** increases the amount of **financial assurance** you must give the additional **financial assurance** to the **administering authority** within 28 days of receiving written notice of the increase.
G13	Except for the operational areas identified in G1, a minimum buffer distance of 50 m must be maintained between the activity and the high banks of **waters**.
Agency interest: Air	
Condition number	**Condition**
A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
A2	Dust and particulate matter emissions must not exceed the following concentrations at any **sensitive place** or **commercial place**: 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 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 administering authority.

<table>
<tr><th colspan="2">Agency interest: Water</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>WT1</td><td>Other than as permitted within this environmental authority, contaminants must not be released to any waters.</td></tr>
<tr><td>WT2</td><td>The only contaminants to be released to surface waters are settled treated stormwater runoff in accordance with Table - Surface water release limits.
Table - Surface water release limits
<table>
<tr><th>Release Point(s) Description</th><th>Quality characteristic (units)</th><th>Limit</th><th>Limit Type</th><th>Minimum Monitoring Frequency</th></tr>
<tr><td rowspan="5">Release points for the sediment ponds indicated in Appendix B – Staging Plan (GC15-184-SP)</td><td>Dissolved oxygen (% sat.)</td><td>70-110</td><td>Range</td><td rowspan="5">Upon release</td></tr>
<tr><td>pH (pH units)</td><td>7.0-8.4</td><td>Range</td></tr>
<tr><td>Turbidity (NTU)</td><td>25</td><td>maximum</td></tr>
<tr><td>Electrical conductivity (µS/cm)</td><td>339</td><td>maximum</td></tr>
<tr><td>Total suspended solids (mg/L</td><td>25</td><td>maximum</td></tr>
</table></td></tr>
<tr><td>WT3</td><td>The release of contaminants in WT2 must be monitored in accordance with the following requirements:
1. Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority’s Monitoring and Sampling Manual.
2. Water and sediment samples must be representative of the general condition of the water body or sediments.
3. 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.
4. Monitoring must be undertaken during a release and at the frequency stated in Table - Surface water release limits.
5. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual.</td></tr>
<tr><td>WT4</td><td>The release to waters permitted under WT2 must not contain any other properties at a concentration capable of causing environmental harm.</td></tr>
</table>

WT5	The release to waters permitted under WT2 must not produce any slick or other visible evidence of oil or grease, scum, litter or other visually objectionable matter.
WT6	The activity must not impact **groundwater dependent ecosystems,** including springs.
WT7	**Stormwater that is not contaminated by the activity** must be diverted away from areas where it may become contaminated by the activity. Stormwater that is contaminated by the activity must be directed to a treatment system.

Agency interest: Noise

Condition number	**Condition**
N1	Noise from the **activity** must not exceed the levels identified in *Table - Noise limits* when measured in accordance with the associated monitoring requirements. **Table - Noise limits**

Noise level dB(A) measured as	**Monday to Saturday**			**Sunday and including Public Holidays**
	7am–6pm	**6pm–10pm**	**10pm–7am**	
	Noise measured at the nearest sensitive place (dBA)			
$L_{Aeq\ adj,\ T}$	36	30	25	No audible noise

Associated monitoring requirements

1. All monitoring devices must be correctly calibrated and maintained.
2. Any monitoring must be in accordance with the most recent version of the **administering authority's** Noise Measurement Manual.
3. Any monitoring of noise emissions from the **activity** must be undertaken when the **activity** is in operation.

N2	When required by the **administering authority**, noise monitoring must be undertaken in accordance with the associated monitoring requirements of *Table - Noise Limits* and the results notified within 14 days to the **administering authority**. Monitoring must include: 1. $L_{Aeq\ adj,\ T}$ 2. **Background** noise (Background) as $L_{A\ 90,\ adj,\ T}$ 3. the level and frequency of occurrence of any impulsive or tonal noise 4. atmospheric conditions including wind speed and direction 5. effects due to extraneous factors such as traffic noise 6. location, date and time of recording.

<table>
<tr><td>N3</td><td>Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table - Blasting noise limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements.

Table - 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>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></table>Associated monitoring requirements
1. Monitoring must be performed in accordance with the most recent edition of the administering authority's Noise and Vibration from Blasting guideline and Noise Measurement Manual and any relevant Australian Standard.
2. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual.</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:
1. blasting is only permitted during the hours of 9 am to 3 pm Monday to Friday, and from 9 am to 1 pm on Saturdays.
2. 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 - Blasting noise limits at any sensitive place or commercial place.</td></tr>
<tr><td colspan="2">Agency interest: Land</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>L1</td><td>Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that:
1. suitable native species of vegetation for the location are established and sustained for earthen surfaces;
2. potential for erosion is minimised;
3. the quality of water released from the site, including seepage, does not cause environmental harm;
4. potential for environmental nuisance caused by dust is minimised;</td></tr>
</table>

	5. the water quality of any residual water body does not have potential to cause environmental harm; 6. 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 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. 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.

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.*

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.

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.

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.

Background means noise, measured in the absence of the noise under investigation, as $\mathbf{L_{A\ 90,\ adj,\ T}}$ 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:

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

Chemical as defined in Schedule 12, Part 2 of the Environmental Protection Regulation 2008.

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 harm as defined in Section 14 of the *Environmental Protection Act 1994*.

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

Groundwater Dependent Ecosystems means ecosystems which require access to groundwater on a permanent or intermittent basis to meet all or some of their water requirements so as to maintain their communities of plants and animals, ecological processes and ecosystem services.

$\mathbf{L_{Aeq\ adj,\ T}}$ 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 15minutes when the **activity** is causing a steady state noise, and no shorter than one hour when the approved **activity** is causing an intermittent noise.

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

$\mathbf{Max_{LpA,T}}$ 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.

Release of a contaminant into the environment means to:

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

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*.

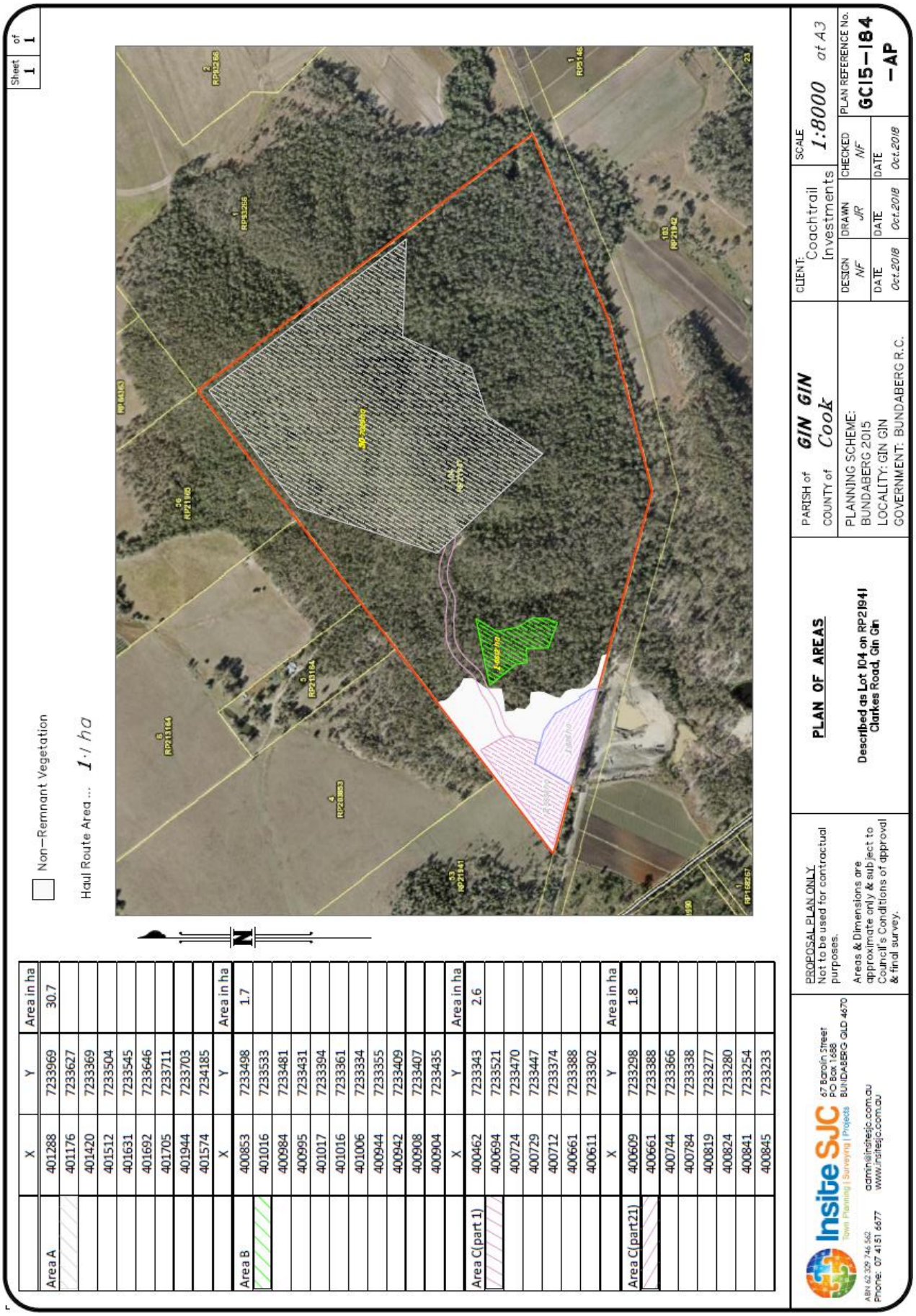
Stormwater that is not contaminated by the activity includes stormwater runoff from external or undisturbed catchments.

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.

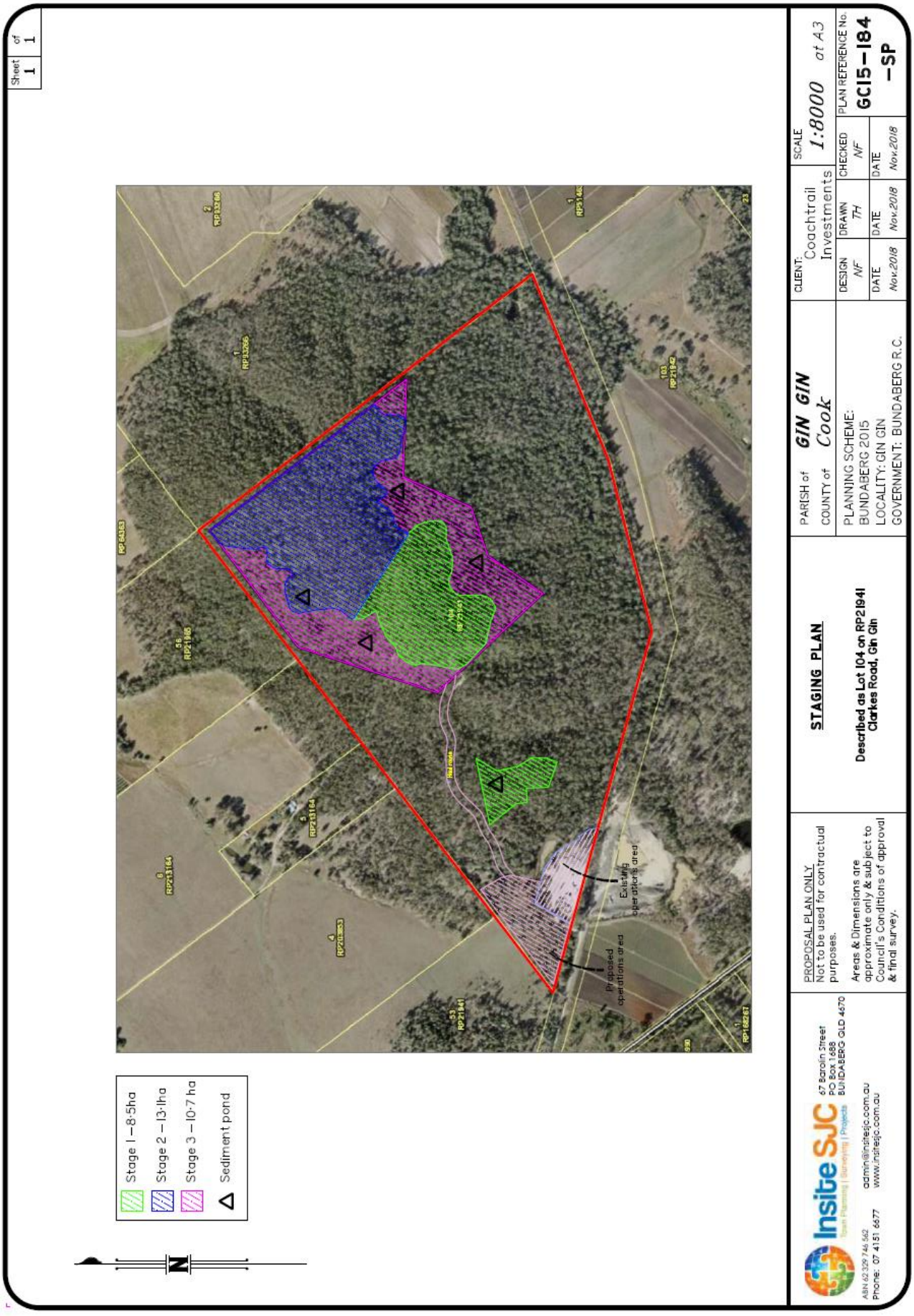
You means the holder of the environmental authority.

Appendix A – Plan of Areas (GC15-184-AP)



	X	Y	Area in ha
Area A	401288	7233969	30.7
	401176	7233627	
	401420	7233369	
	401512	7233504	
	401631	7233545	
	401692	7233646	
	401705	7233711	
	401944	7233703	
	401574	7234185	
	X	Y	Area in ha
Area B	400853	7233498	1.7
	401016	7233533	
	400984	7233481	
	400995	7233431	
	401017	7233394	
	401016	7233361	
	401006	7233334	
	400944	7233355	
	400942	7233409	
	400908	7233407	
	400904	7233435	
	X	Y	Area in ha
Area C(part 1)	400462	7233343	2.6
	400694	7233521	
	400724	7233470	
	400729	7233447	
	400712	7233374	
	400661	7233388	
	400611	7233302	
	X	Y	Area in ha
Area C(part21)	400609	7233298	1.8
	400661	7233388	
	400744	7233366	
	400784	7233338	
	400819	7233277	
	400824	7233280	
	400841	7233254	
	400845	7233233	

Appendix B – Staging Plan (GC15-184-SP)



END OF PERMIT