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: EPPR01848214

Environmental authority takes effect the day the development permit takes effect.

The first annual fee is payable within 20 business days of the effective date.

The anniversary date of this environmental authority is the same day each year as the effective date. An annual return and the payment of the annual fee which is currently $8,911.50 will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Barlows Earthmoving Pty Ltd	C/- Groundwork Plus PO Box 1779 MILTON QLD 4064

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr	2816 Emu Park Road and Coorooman - Lot 1 Plan LN1744

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).

[1] Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Contaminated land

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



Signature

23 · 01 · 2014

Date

Robert Black
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

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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

Location: 2816 Emu Park Road, Coorooman
Lot 1 on Plan LN1744

Relevant activity/ies:

16 2b – Extraction >100 000 but <1 000 000 tonnes per year
16 3b – Screening >100 000 but < 1 000 000 tonnes per year

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 conducted under this environmental authority must not be conducted to any of the following limitations: 1. The maximum amount of extraction for the site is 1,000,000 tonnes per year 2. Extraction and screening may only take place within the boundary coordinates and approved site map in **Appendix A – Approved plans**.
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	All information ad records that are required by the conditions of this environmental authority must be kept for a minimum of 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.
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 **NATA** certification, or an equivalent certification, for such analysis.
G8	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 results must be provided to the **administering authority** upon 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 ad 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.
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 cause nuisance to any **sensitive place** or **commercial place**.
Agency interest: Water	
Condition number	**Condition**
WT1	Other than as permitted within this authority, contaminants must not be released from the site to any waters or the bed and banks of any waters.
WT2	Contaminants must not be released to groundwater.
WT3	The only contaminants to be released to surface waters are settled treated stormwater runoff water from area of the site not likely to be contaminated with waste materials to waters described as Coorooman or Cawarral Creek to **HAT**.

WT4	The stormwater runoff from disturbed areas, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 5 years** must be retained on site or managed to remove contaminants before release.
Agency interest: Noise	
Condition number	**Condition**
N1	Noise from the **activity** must not exceed the levels identified in Table 1 – Noise Limits when measure in accordance with the associated monitoring requirements.
N2	When required by the **administering authority**, noise monitoring must be undertaken in accordance with the associated monitoring requirements of Table 1 – Noise Limits and the results notified within 14 day to the **administering authority**. Monitoring must include: 1. $L_{Aeq, adj, T}$ 2. **Background** noise (Background) as $L_{A\ 90, adj, T}$ 3. $MaxL_{pA,T}$ 4. the level and frequency of occurrence of any impulsive or tonal noise 5. atmospheric conditions including wind speed and direction 6. effects due to extraneous factors such as traffic noise 7. location, date and time of recording.
N3	**Blasting** activities must not exceed the limits for peak particle velocity and air blast overpressure in *Table 1—Blasting noise limits* when measured at any **sensitive place** or **commercial place** in accordance with the associated monitoring requirements. **Table 1—Blasting noise limits** 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 **vibration** peak particle velocity | 5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time. **Associated monitoring requirements** 1. 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.
N4	**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.
N5	Unless prior approval is obtained from the **administering authority**: 1. **Blasting** is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. 2. **Blasting** is not permitted at any time on Sundays or public holidays.
N6	When required by the **administering authority**, a blast monitoring program must be developed and implemented to monitor compliance with *Table 2 – Blasting noise limits* at any **sensitive place** or **commercial place**.

Agency interest: Land	
Condition number	**Condition**
L1	Treatment and management of acid sulfate soils must comply with the current edition of the Queensland Acid Sulfate Soil Technical Manual.
L2	Contaminants must not be released to land.
L3	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, including seepage released from the site does not cause environmental harm 4. potential for environmental nuisance caused by dust is minimised 5. the water quality of any residual water body does not have potential to cause environmental harm 6. the time landform is stable and protects public safety.
Agency interest: Waste	
Condition number	**Condition**
WS1	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 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 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.

$L_{Aeq\ adj,T}$ 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.

$Max_{LpA,T}$ 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 plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

NATA means National Association of Testing Authorities.

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

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

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 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 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.

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.*

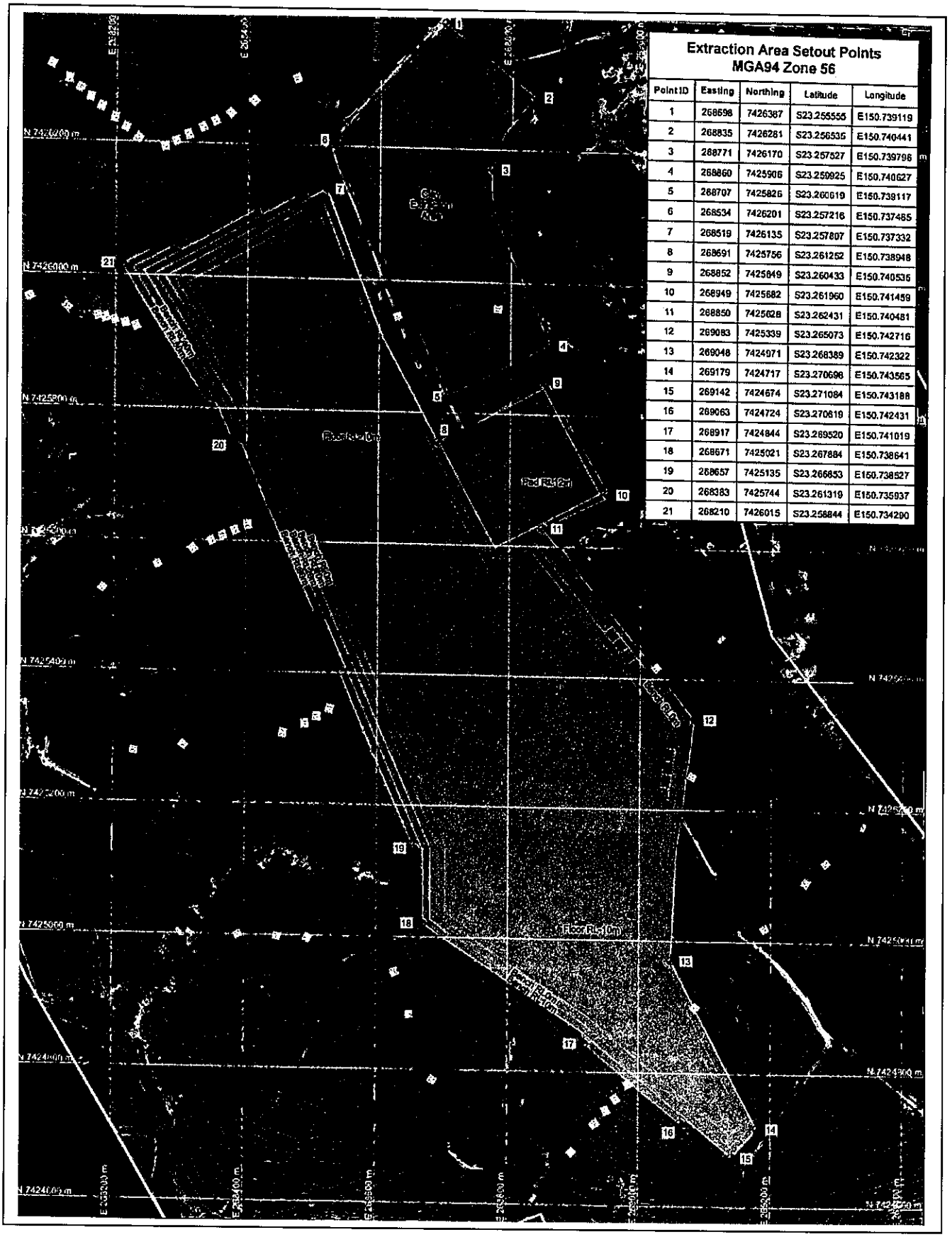
Vibration is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

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.

You means the holder of the environmental authority.

Schedules

Schedule 1—Approved plans



Extraction Area Setout Points MGA94 Zone 56

Point ID	Easting	Northing	Latitude	Longitude
1	268698	7426387	S23.255555	E150.739119
2	268835	7426281	S23.256535	E150.740441
3	268771	7426170	S23.257527	E150.739796
4	268860	7425906	S23.259925	E150.740627
5	268707	7425826	S23.260619	E150.739117
6	268534	7426201	S23.257216	E150.737485
7	268519	7426135	S23.257807	E150.737332
8	268691	7425756	S23.261252	E150.738948
9	268852	7425849	S23.260433	E150.740536
10	268949	7425682	S23.261960	E150.741459
11	268850	7425628	S23.262431	E150.740481
12	269083	7425339	S23.265073	E150.742716
13	269048	7424971	S23.268389	E150.742322
14	269179	7424717	S23.270696	E150.743565
15	269142	7424674	S23.271084	E150.743188
16	269063	7424724	S23.270619	E150.742431
17	268917	7424844	S23.269520	E150.741019
18	268671	7425021	S23.267884	E150.738641
19	268657	7425135	S23.266853	E150.738527
20	268383	7425744	S23.261319	E150.735937
21	268210	7426015	S23.258844	E150.734290

END OF PERMIT