

Environmental authority – EPPR01604313

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

Permit¹ number: EPPR01604313

Environmental authority takes effect on 15-SEP-2016.

The anniversary date of this environmental authority remains as 19 March. An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Principal address
Ostwald Construction Materials Pty Ltd	176 Montague Road SOUTH BRISBANE QLD 4101

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extractive >100,000t but <1,000,000t/yr 16-(3b) Screening >100,000t but <1,000,000t/yr	3584 Duck Creek Road and Highland Plains - Lot 72 Plan WT327

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).

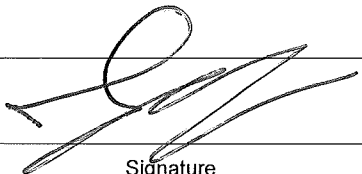
¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation

Contaminated land

It is a requirement of the EP Act that 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').


Signature

15/9/2016

Date

Tariq Khan
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

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Protection
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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: 3584 Duck Creek Road, Highland Plains
Lot 72 Plan WT327

Relevant activity/ies:

- 16-(2b) Extractive >100000t but <1000000t year
- 16-(3b) Screening >100000t but <1000000t 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 be conducted within the boundaries of the area identified as 'Quarry Supply Zone 55.41 ha' on the Proposed Quarry Supply Zone B124302 (attached in Schedule 1).
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 within 24 hours of you becoming aware of the breach. Upon request of the administering authority, you must provide full details of the breach and any subsequent actions undertaken.
G4	All information and records that are required by the conditions of this environmental authority must be kept for a period of at least 5 years and provided to the administering authority upon request.

G5	An appropriately qualified person(s) must monitor, record and interpret all parameters that are required to be monitored, in the manner provided, as specified in this environmental authority.
G6	All analyses required under this environmental authority must be carried out by a laboratory that has NATA certification, or an equivalent certification, for such analyses. The only exception to this condition is for in situ monitoring of water quality parameters.
G7	The activity must be undertaken in accordance with written procedures that: • identify potential risks to the environment from the activity during routine operations and emergencies • establish and maintain control measures that minimise the potential for environmental harm • ensure plant, equipment and measures are maintained in a proper and effective condition • ensure plant, equipment and measures are operated in a proper and effective manner • ensure that staff are trained and aware of their obligations under the Environmental Protection Act 1994. • ensure that reviews of environmental performance are undertaken at least annually.
G8	A minimum buffer distance of 50 meters must be maintained between extraction areas and the high banks of any watercourse , lake or wetland.
Agency interest: Air	
Condition number	Condition
A1	Odours, dust or airborne contaminants which are noxious or offensive or otherwise cause environmental nuisance must not be released to any sensitive place or commercial place .
Agency interest: Water	
Condition number	Condition
WT1	Contaminants must not be released to waters .
WT2	The stormwater generated by the peak discharge of a storm event with an average recurrence interval of one in 10 years must be retained on site and treated to remove contaminants before release.
Agency interest: Noise	
Condition number	Condition
N1	Noise from the ERA must not cause environmental nuisance at a nuisance sensitive place .

N2	When requested by the administering authority, noise monitoring must be undertaken to investigate a complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: • LA eq, adj, T • The level and frequency of occurrence of impulsive or tonal noise; • Atmospheric conditions including wind speed and direction; • Effects due to extraneous factors such as traffic noise; and • Location, date and time of recording.															
N3	If the holder of the environmental authority can provide evidence through monitoring that the limits defined in Table 1, are not being exceeded then the holder is not in breach of Condition N1. Table 1 – Noise limits <table><tr><th rowspan="2">Noise level dB(A) 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><th colspan="3">Noise measured at a 'Noise sensitive place'</th></tr><tr><td>LA eq, adj,T</td><td>40</td><td>33</td><td>30</td></tr></table>	Noise level dB(A) measured as	Monday to Sunday including public holidays			7am – 6pm	6pm – 10pm	10pm – 7am		Noise measured at a 'Noise sensitive place'			LA eq, adj,T	40	33	30
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	Noise measured at a 'Noise sensitive place'															
LA eq, adj,T	40	33	30													
N4	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual or Australian Standard 1055 as amended from time to time.															
N5	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 2 – Blasting Noise Limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 2 – 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 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. 2. All monitoring devices must be correctly calibrated and maintained.	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									
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N6	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.															

N7	Unless prior approval is obtained from the administering authority: blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. blasting is not permitted at any time on Sundays or public holidays
N8	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	Contaminants must not be released to land.
L2	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: - suitable species of vegetation are planted and established; - potential for erosion of the site is minimised; - the quality of water, including seepage, released from the site does not cause environmental harm; - potential for environmental nuisance caused by dust is minimised; - the water quality of any residual water body does not have potential to cause environmental harm; and - the final landform is stable.
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.

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.

Measures has the broadest interpretation and includes plant, equipment, physical objects, 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.

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.

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

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

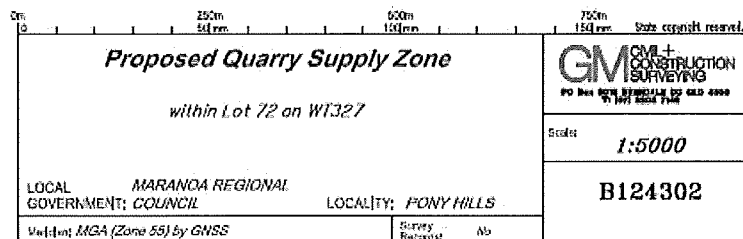
- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

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.



Schedule 1—Approved plans



Department of Environment and Heritage Protection

