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: EPPR03370415

Environmental authority takes effect 17 August 2016

The anniversary date of this environmental authority remains as 4 August. 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
Qcrush Pty Ltd	C/- ATS Partners 19 Stanley Street WODONGA VIC 3690

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(2b) Extractive >100,000t but <1,000,000 t/yr 16-(3b) Screening >100,000t but <1,000,000 t/yr	Lake Moondarra Road MOUNT ISA QLD 4825 Lot 90 Plan SP237661

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

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

Queensland Government

Department of
Environment and Heritage Protection

17-AUG-2016

To: Qcrush Pty Ltd
PO Box 977
MOUNT ISA QLD 4825

Email: akhun@qcrush.com.au

Your reference: EPPR03370415/IPCE01676609
Our reference: 268487

Application details

I refer to the amendment application to add threshold 16(3)(b) screening, in a year, more than 100,000t but not more than 1,000,000t, received by the administering authority on 02-AUG-2016.

Land description: Lake Moondarra Road MOUNT ISA QLD 4825 Lot 90 Plan SP237661.

Decision

Your application has been approved and your environmental authority (reference EPPR03370415) is attached.

Should you have any further enquiries, please contact Jessica Johnson on telephone 4699 4348.

Yours sincerely

Signature	17-AUG-2016
	Date

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

Enclosed

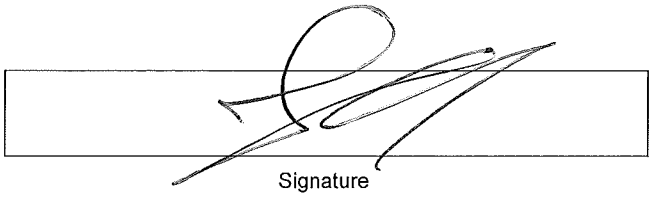
Permit - environmental authority (reference EPPR03370415)

Jessica Johnson
Industry and Development Assessment
PO Box 731
TOOWOOMBA QLD 4350
Phone: (07) 4699 4348
Fax: (07) 4699 4388
Email: jessica.johnson@ehp.qld.gov.au
Website **www.ehp.qld.gov.au**
ABN 46 640 294 485

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

17-AUG-2016

Date

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

Enquiries:
Department of Environment and Heritage Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: 07 3330 6037
palm@ehp.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

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	In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and/or to minimise the likelihood of environmental harm being caused.

G2	From commencement of an ERA to which this approval 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. The SBMP must address the following matters: a. Environmental commitments- a commitment by senior management to achieve specified and relevant environmental goals; b. Identification of environmental issues and potential impacts; c. Control measures for routine operations to minimise likelihood of environmental harm; d. Contingency plans and emergency procedures for non-routine situations; e. Organisational structure and responsibility; f. Effective communication; g. Monitoring of contaminant releases; h. Conducting environmental impact assessments; i. Staff training; j. Record keeping; and k. Periodic review of environmental performance and continual improvement.
G3	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
G4	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
G5	All extraction and rehabilitation works must be carried out in accordance with the MICCON Site Based Management Plan (SBMP) dated July 2009 (or any amended version). In the event a requirement of this document contradicts or contravenes a condition/s of this approval, the conditions of this approval prevail.

G6	A rehabilitation plan must be submitted to the administering authority within sixty (60) days from the commencement date of the works. The rehabilitation plan must demonstrate how the site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) will be rehabilitated in a manner such that; a. suitable native species of vegetation are planted and established; b. potential for erosion of the site is minimised; 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; d. the likelihood of environmental nuisance being caused by the release of dust is minimised; e. the water quality of any residual water body meets relevant criteria for subsequent uses and does not have the potential to cause environmental harm; f. the final landform is stable and not subject to slumping; and g. any actual and potential acid sulphate 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. *Note: The rehabilitation plan should provide details of the success criteria for successful rehabilitation (including revegetation) of the site. You should consider landform, vegetation cover, type of vegetation, topography etc. Please be advised that in order for a permit holder to surrender a permit under the Environmental Protection Act 1994, the site is required to have at least 80% coverage of living vegetation, be stable and not subject to slumping etc.*
G7	A financial assurance of an amount set by the administering authority, must be submitted within 30 days of notification by the administering authority. The financial assurance must be maintained until the administering authority is satisfied that no claim is likely to be made on the assurance.
G8	When requested by the administering authority, you must supply the information required by the administering authority within 30 days to determine the financial assurance.
G9	The operator of the ERA must record the following details for all complaints received and provide this information 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.

Agency interest: Air	
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	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: a. for a complaint alleging dust nuisance, dust deposition; and 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.
A3	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.
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.
Agency interest: Water	
Condition number	**Condition**
W1	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and ensure that the activity does not result in an increased release of sediment to any waters or the bed or banks of any waters.
W2	Contaminants must not be released from the site to any waters or the bed and banks of any waters.
W3	There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.
W4	The size of any sedimentation dam must be sufficient to contain the run-off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years.



<table>
<tr><th colspan="2">Agency interest: Noise</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>N1</td><td>Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.</td></tr>
<tr><td>N2</td><td>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:
airblast overpressure (dB (Lin) Peak);
$L_{A\ 10,\ adj,\ 10\ mins}$
$L_{A\ 1,\ adj,\ 10\ mins}$
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.</td></tr>
<tr><td>N3</td><td>All noise from activities must not exceed the levels specified in Table 1 - Noise limits at any nuisance sensitive or commercial place.
Table 1 -Noise limits
<table>
<tr><th rowspan="2">Noise level dB(A) measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays 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><td></td><td colspan="6">Noise measured at a 'Noise sensitive place'</td></tr>
<tr><td>$L_{A10,\ adj,\ 10\ mins}$</td><td>Bgk + 5</td><td>Bgk + 5</td><td>Bgk + 0</td><td>Bgk + 5</td><td>Bgk + 5</td><td>Bgk + 0</td></tr>
<tr><td>$L_{A1,\ adj,\ 10\ mins}$</td><td>Bgk + 10</td><td>Bgk + 10</td><td>Bgk + 5</td><td>Bgk + 10</td><td>Bgk + 10</td><td>Bgk + 5</td></tr>
<tr><td></td><td colspan="6">Noise measured at a 'Commercial place'</td></tr>
<tr><td>$L_{A10,\ adj,\ 10\ mins}$</td><td>Bgk + 10</td><td>Bgk + 10</td><td>Bgk + 5</td><td>Bgk + 10</td><td>Bgk + 10</td><td>Bgk + 5</td></tr>
<tr><td>$L_{A1,\ adj,\ 10\ mins}$</td><td>Bgk + 15</td><td>Bgk + 15</td><td>Bgk + 10</td><td>Bgk + 15</td><td>Bgk + 15</td><td>Bgk + 10</td></tr>
</table></td></tr>
<tr><td>N4</td><td>The method of measurement and reporting of noise levels must comply with the latest edition of the administering authorities Noise Measurement Manual.</td></tr>
<tr><td>N5</td><td>Vibration emitted from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.</td></tr>
</table>

N6	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: a. peak particle velocity (mm/s); b. location of the blasts within the site (including which bench level); c. atmospheric conditions including temperature, relative humidity and wind speed and direction; d. the level and frequency of occurrence of impulsive or tonal noise; e. atmospheric conditions including wind speed and direction; f. effects due to extraneous factors; and g. location, date and time of recording.
Agency interest: Land	
Condition number	**Condition**
L1	The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that: a. suitable native species of vegetation are planted and established; b. potential for erosion of the site is minimised; 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; d. the likelihood of environmental nuisance being caused by release of dust is minimised; e. the water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm; f. the final landform is stable and not subject to slumping; and 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.
L2	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
L3	You must at all times retain a buffer distance of at least 50m from any declared or mapped Endangered Regional Ecosystem on the subject lot.
L4	A maximum of 4 hectares (including the crushing and storing area) may be disturbed at any one time.



L5	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.
L6	Anyone operating under this approval must be trained in the use of the spill kit.
L7	Contaminants must not be released to land or waters.
L8	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with Australian Standard AS1940:2004- Storage and Handling of Flammable and Combustible Liquids.

Definitions

Key terms and/or phrases used in this document are defined in this section. 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.

"Background (Bkg)" 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.

"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.

"$L_{A\ 10,\ adj,\ 10\ mins}$**"** 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.

"$L_{A\ 1,\ adj,\ 10\ mins}$**"** 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.

"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 1992* 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 disagreeable to the sense; disgusting, nauseous or repulsive.

"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.

"24 hour storm 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.*

END OF PERMIT