

Environment Protection Licence

Licence - 4812

Licence Details	
Number:	4812
Anniversary Date:	25-August

Licensee
BORAL RESOURCES (COUNTRY) PTY. LIMITED
PO BOX 6041
NORTH RYDE NSW 2113

Premises
BORAL COUNTRY - JOHNS RIVER QUARRY
BULLEYS ROAD
JOHNS RIVER NSW 2443

Scheduled Activity
Crushing, grinding or separating
Extractive activities

Fee Based Activity	Scale
Crushing, grinding or separating	> 100000-500000 T annual processing capacity
Land-based extractive activity	> 100000-500000 T annual capacity to extract, process or store

Region
North - Hunter
Ground Floor, NSW Govt Offices, 117 Bull Street
NEWCASTLE WEST NSW 2302
Phone: (02) 4908 6800
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NEWCASTLE NSW 2300



Environment Protection Licence

Licence - 4812

INFORMATION ABOUT THIS LICENCE	4
Dictionary	4
Responsibilities of licensee	4
Variation of licence conditions	4
Duration of licence	4
Licence review	4
Fees and annual return to be sent to the EPA	4
Transfer of licence	5
Public register and access to monitoring data	5
1 ADMINISTRATIVE CONDITIONS	6
A1 What the licence authorises and regulates	6
A2 Premises or plant to which this licence applies	6
A3 Information supplied to the EPA	7
2 DISCHARGES TO AIR AND WATER AND APPLICATIONS TO LAND	7
P1 Location of monitoring/discharge points and areas	7
3 LIMIT CONDITIONS	10
L1 Pollution of waters	10
L2 Concentration limits	10
L3 Waste	10
L4 Noise limits	11
L5 Blasting	13
L6 Hours of operation	14
L7 Potentially offensive odour	15
4 OPERATING CONDITIONS	15
O1 Activities must be carried out in a competent manner	15
O2 Maintenance of plant and equipment	15
O3 Dust	15
O4 Emergency response	16
O5 Processes and management	16
5 MONITORING AND RECORDING CONDITIONS	16
M1 Monitoring records	16
M2 Requirement to monitor concentration of pollutants discharged	17
M3 Testing methods - concentration limits	18
M4 Weather monitoring	18

Environment Protection Licence



Licence - 4812

M5	Recording of pollution complaints	19
M6	Telephone complaints line	19
M7	Blasting	20
M8	Noise monitoring	20
6	REPORTING CONDITIONS	20
R1	Annual return documents	20
R2	Notification of environmental harm	21
R3	Written report	22
R4	Other reporting conditions	22
7	GENERAL CONDITIONS	23
G1	Copy of licence kept at the premises or plant	23
DICTIONARY		24
	General Dictionary	24

Environment Protection Licence

Licence - 4812



Information about this licence

Dictionary

A definition of terms used in the licence can be found in the dictionary at the end of this licence.

Responsibilities of licensee

Separate to the requirements of this licence, general obligations of licensees are set out in the Protection of the Environment Operations Act 1997 ("the Act") and the Regulations made under the Act. These include obligations to:

- ensure persons associated with you comply with this licence, as set out in section 64 of the Act;
- control the pollution of waters and the pollution of air (see for example sections 120 - 132 of the Act);
- report incidents causing or threatening material environmental harm to the environment, as set out in Part 5.7 of the Act.

Variation of licence conditions

The licence holder can apply to vary the conditions of this licence. An application form for this purpose is available from the EPA.

The EPA may also vary the conditions of the licence at any time by written notice without an application being made.

Where a licence has been granted in relation to development which was assessed under the Environmental Planning and Assessment Act 1979 in accordance with the procedures applying to integrated development, the EPA may not impose conditions which are inconsistent with the development consent conditions until the licence is first reviewed under Part 3.6 of the Act.

Duration of licence

This licence will remain in force until the licence is surrendered by the licence holder or until it is suspended or revoked by the EPA or the Minister. A licence may only be surrendered with the written approval of the EPA.

Licence review

The Act requires that the EPA review your licence at least every 5 years after the issue of the licence, as set out in Part 3.6 and Schedule 5 of the Act. You will receive advance notice of the licence review.

Fees and annual return to be sent to the EPA

For each licence fee period you must pay:

- an administrative fee; and
- a load-based fee (if applicable).

Environment Protection Licence



Licence - 4812

The EPA publication "A Guide to Licensing" contains information about how to calculate your licence fees. The licence requires that an Annual Return, comprising a Statement of Compliance and a summary of any monitoring required by the licence (including the recording of complaints), be submitted to the EPA. The Annual Return must be submitted within 60 days after the end of each reporting period. See condition R1 regarding the Annual Return reporting requirements.

Usually the licence fee period is the same as the reporting period.

Transfer of licence

The licence holder can apply to transfer the licence to another person. An application form for this purpose is available from the EPA.

Public register and access to monitoring data

Part 9.5 of the Act requires the EPA to keep a public register of details and decisions of the EPA in relation to, for example:

- licence applications;
- licence conditions and variations;
- statements of compliance;
- load based licensing information; and
- load reduction agreements.

Under s320 of the Act application can be made to the EPA for access to monitoring data which has been submitted to the EPA by licensees.

This licence is issued to:

BORAL RESOURCES (COUNTRY) PTY. LIMITED
PO BOX 6041
NORTH RYDE NSW 2113

subject to the conditions which follow.

Environment Protection Licence

Licence - 4812

1 Administrative Conditions

A1 What the licence authorises and regulates

A1.1 This licence authorises the carrying out of the scheduled activities listed below at the premises specified in A2. The activities are listed according to their scheduled activity classification, fee-based activity classification and the scale of the operation.

Unless otherwise further restricted by a condition of this licence, the scale at which the activity is carried out must not exceed the maximum scale specified in this condition.

Scheduled Activity	Fee Based Activity	Scale
Crushing, grinding or separating	Crushing, grinding or separating	> 100000 - 500000 T annual processing capacity
Extractive activities	Land-based extractive activity	> 100000 - 500000 T annual capacity to extract, process or store

A1.2 Notwithstanding A1.1, the scale of the land-based extractive activity authorised under this licence must not exceed:

- 300,000 tonnes per annum, and
- an additional 150,000 tonnes per annum for approved special projects (that is a maximum 450,000 tonnes per annum).

Note: Note: these limits are equivalent to the extraction limits approved by the development consent granted under the Environmental Planning and Assessment Act 1979 for the premises specified in A2.

Note: In relation to this licence, the licensee must comply with:

- The fee based activity scale limits imposed by this licence.
- The fee based activity scale limits which apply for the reporting period specified in this licence.
- The activity scale limits imposed by other legal instruments, such as approvals currently in force under the Environmental Planning and Assessment Act 1979.

A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
BORAL COUNTRY - JOHNS RIVER QUARRY
BULLEYS ROAD
JOHNS RIVER
NSW 2443

Environment Protection Licence

Licence - 4812



LOT 2 DP 716380, LOT 44 DP 816026, LOT 45 DP 816026, LOT 7001 DP
1055571

A3 Information supplied to the EPA

A3.1 Works and activities must be carried out in accordance with the proposal contained in the licence application, except as expressly provided by a condition of this licence.

In this condition the reference to "the licence application" includes a reference to:

- a) the applications for any licences (including former pollution control approvals) which this licence replaces under the Protection of the Environment Operations (Savings and Transitional) Regulation 1998; and
- b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.

2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 The following points referred to in the table below are identified in this licence for the purposes of monitoring and/or the setting of limits for the emission of pollutants to the air from the point.

<i>Air</i>			
EPA identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
18	Ambient Air Monitoring		Monitor "Dust Point 1(Bulley Top Paddock)" located at coordinates -31.715331 152.691702 as shown on plan titled "Johns River Quarry - Dust Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
20	Ambient Air Monitoring		Monitor "Dust Point 2"(Bulley Flat Paddock)" located at coordinates -31.71948178 152.700485 as shown on plan titled "Johns River Quarry - Dust Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
21	Ambient Air Monitoring		Monitor "Dust Point 3 (Jones Property)" located at coordinates -31.7158934 152.707463 as shown on plan titled "Johns River Quarry - Dust Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.

Environment Protection Licence

Licence - 4812



22	Ambient Air Monitoring	Monitor "Dust Point 4 (Bawn Property)" located at coordinates -31.71030485 152.7029657 as shown on plan titled "Johns River Quarry - Dust Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
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P1.2 The following utilisation areas referred to in the table below are identified in this licence for the purposes of the monitoring and/or the setting of limits for any application of solids or liquids to the utilisation area.

P1.3 The following points referred to in the table are identified in this licence for the purposes of the monitoring and/or the setting of limits for discharges of pollutants to water from the point.

Water and land

EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
1	Discharge to Waters Discharge Quality Monitoring	Discharge to Waters Discharge Quality Monitoring	Monitoring location "WD1" (Bulleys Dam) at coordinates -31.714481 152.698894 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
2	Discharge to Waters Discharge Quality Monitoring	Discharge to Waters Discharge Quality Monitoring	Monitoring location "WD2" (discharge from Sediment Basin 2C) located at coordinates -31.71636874 152.703066 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
3	Discharge to Waters Discharge Quality Monitoring	Discharge to Waters Discharge Quality Monitoring	Monitoring location "WD3" (discharge from Front Sediment Dam) located at coordinates -31.7184329 152.700726 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated dated October 2017. EPA reference DOC17/477947-01.
4	Ambient Water Monitoring		Monitoring location "WUS" (Stewarts River at Bulleys Road Bridge), located at coordinates -31.71839372 152.699211 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.

Environment Protection Licence

Licence - 4812



5	Ambient Water Monitoring		Monitoring location "Down Stream water (PAC HWY)", located at coordinates -31.718883, 152.702169 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.
23	Discharge to Waters Discharge Quality Monitoring	Discharge to Waters Discharge Quality Monitoring	Monitoring location "Water Discharge 23 (Pit Drop Cut)" at coordinates -31.7163874 152.703066 as shown on plan titled "Johns River Quarry - Water Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.

P1.4 The following points referred to in the table below are identified in this licence for the purposes of weather and/or noise monitoring and/or setting limits for the emission of noise from the premises.

Noise/Weather

EPA identification no.	Type of monitoring point	Location description
6	Noise monitoring	20 Yaralin Close
7	Noise monitoring	48 Algona Road
8	Noise monitoring	117 Algona Road
9	Noise monitoring	69 Wharf Road
10	Noise monitoring	20737 Pacific Highway
11	Noise monitoring	26 Bulleys Road
12	Noise monitoring	27 Bulleys Road North
13	Noise monitoring	27 Bulleys Road South
14	Noise monitoring	Lot 245 Pacific Highway
15	Noise monitoring	111 Wharf Road
16	Noise monitoring	9 Wharf Road
17	Noise monitoring	Corner Johns River Road and Royan Street
19	Meteorological Station	Monitor "Weather Station" located at coordinates -31.71628513 152.7003342 as shown on plan titled "Johns River Quarry - Dust Monitoring Locations" dated October 2017. EPA reference DOC17/477947-01.

Environment Protection Licence

Licence - 4812



3 Limit Conditions

L1 Pollution of waters

- L1.1 Except as may be expressly provided in any other condition of this licence, the licensee must comply with section 120 of the Protection of the Environment Operations Act 1997.

L2 Concentration limits

- L2.1 For each monitoring/discharge point or utilisation area specified in the table\ below (by a point number), the concentration of a pollutant discharged at that point, or applied to that area, must not exceed the concentration limits specified for that pollutant in the table.
- L2.2 Where a pH quality limit is specified in the table, the specified percentage of samples must be within the specified ranges.
- L2.3 To avoid any doubt, this condition does not authorise the pollution of waters by any pollutant other than those specified in the table\.
- L2.4 Water and/or Land Concentration Limits

POINT 1,2,3,23

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	milligrams per litre				5 &/or none visible
pH	pH				6.5 - 8.5
Total suspended solids	milligrams per litre				50

L3 Waste

- L3.1 The licensee must not cause, permit or allow any waste generated outside the premises to be received at the premises for storage, treatment, processing, reprocessing or disposal or any waste generated at the premises to be disposed of at the premises, except as expressly permitted by the licence.

Environment Protection Licence

Licence - 4812

L4 Noise limits

L4.1 Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column 2.

POINT 11

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Special Frequency 1	42
Evening	Evening-LAeq (15 minute)	Special Frequency 1	42
Morning-Shoulder	Morning Shoulder-LAeq(15 minute) (6am-7am Mon. -Sat. & 6am-8am Sun & Public Holidays)	Special Frequency 1	42
Morning-Shoulder	LAmix	Special Frequency 1	45

POINT 12

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Special Frequency 1	37
Evening	Evening-LAeq (15 minute)	Special Frequency 1	37
Morning-Shoulder	Morning Shoulder-LAeq(15 minute) (6am-7am Mon. -Sat. & 6am-8am Sun & Public Holidays)	Special Frequency 1	37
Morning-Shoulder	LAmix	Special Frequency 1	45

POINT 16

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Special Frequency 1	38
Evening	Evening-LAeq (15 minute)	Special Frequency 1	38
Morning-Shoulder	Morning Shoulder-LAeq(15 minute) (6am-7am Mon. -Sat. & 6am-8am Sun & Public Holidays)	Special Frequency 1	38
Morning-Shoulder	LAmix	Special Frequency 1	46

Environment Protection Licence

Licence - 4812

POINT 6,7,8,10,13,14,15,17

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Special Frequency 1	35
Evening	Evening-LAeq (15 minute)	Special Frequency 1	35
Morning-Shoulder	Morning Shoulder-LAeq(15 minute) (6am-7am Mon. -Sat. & 6am-8am Sun & Public Holidays)	Special Frequency 1	35
Morning-Shoulder	LAmaz	Special Frequency 1	45

POINT 9

Time period	Measurement parameter	Measurement frequency	Noise level dB(A)
Day	Day-LAeq (15 minute)	Special Frequency 1	37
Evening	Evening-LAeq (15 minute)	Special Frequency 1	37
Morning-Shoulder	Morning Shoulder-LAeq(15 minute) (6am-7am Mon. -Sat. & 6am-8am Sun & Public Holidays)	Special Frequency 1	37
Morning-Shoulder	LAmaz	Special Frequency 1	46

Note: Special frequency 1 - refers to monitoring conditions contained in this licence in Condition M8

L4.2 For the purpose of the noise limits :

- Day is defined as the period from 7 am to 6 pm Monday to Saturday, and 8 am to 6 pm Sunday and public holidays.
- Evening is defined as the period 6pm - 10 pm.
- Morning Shoulder is defined as the period from 5am to 7 am Monday to Friday.

L4.3 The noise limits set out above apply under all meteorological conditions except for the following:

- a) Wind speeds greater than 3 metres/second at 10 metres above ground level.
- b) Stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
- c) Stability category G temperature inversion conditions.

L4.4 For the purposes of noise limit conditions:

- a) Data recorded by a meteorological station installed on site must be used to determine meteorological

Environment Protection Licence



Licence - 4812

conditions; and

b) Temperature inversion conditions (stability category) are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Industrial Noise Policy.

L4.5 To determine compliance:

a) with the Leq(15 minute) noise limits above, the noise measurement equipment must be located:

- approximately on the property boundary, where any dwelling is situated 30 metres or less from the property boundary closest to the premises; or
- within 30 metres of a dwelling façade, but not closer than 3m, where any dwelling on the property is situated more than 30 metres from the property boundary closest to the premises; or, where applicable
- within approximately 50 metres of the boundary of a National Park or a Nature Reserve.

b) with the LA(Max) noise limits above, the noise measurement equipment must be located within 1 metre of a dwelling façade.

c) with the noise limits above, the noise measurement equipment must be located:

- at the most affected point at a location where there is no dwelling at the location; or
- at the most affected point within an area at a location prescribed in (a) or (b) above.

L4.6 A non-compliance with noise limits will still occur where noise generated from the premises in excess of the appropriate limit is measured:

- at a location other than an area prescribed in these noise limit conditions and/or
- at a point other than the most affected point at a location.

L4.7 For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.

L5 Blasting

L5.1 Blasting operations at the premises may only take place between 9:00 am and 3:00 pm Monday to Friday and 9:00 am and 1:30 pm Saturday. Where compelling safety reasons exist, the Environment Protection Authority may permit a blast to occur outside the abovementioned hours. Prior written notification of any such blast must be made to the Environment Protection Authority at hunter.region@epa.nsw.gov.au.

L5.2 In accordance with (DA 93/31) a temporary extension to blasting hours is permitted from 16 September 2015 until 30 December 2017 and shall be restricted to the following :

- Monday to Saturday 9 am to 5 pm

Environment Protection Licence

Licence - 4812



- L5.3 The overpressure level from blasting operations carried out in or on the premises must not:
- a) exceed 115 dB(L) for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; and
 - b) exceed 120 dB(L) at any time
- at any residence or noise sensitive location (such as a school or hospital) that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative overpressure level.
- L5.4 The ground vibration peak particle velocity from blasting operations carried out in or on the premises must not:
- a) exceed 5mm/second for more than 5% of the total number of blasts carried out on the premises within the 12 months annual reporting period; and
 - b) exceed 10mm/second at any time
- at any residence or noise sensitive location (such as a school or hospital) that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee as to an alternative ground vibration level.
- L5.5 Offensive blast fume must not be emitted from the premises.

Definition: Offensive blast fume means post-blast gases from the detonation of explosives at the premises that by reason of their nature, duration, character or quality, or the time at which they are emitted, or any other circumstances:

- a. are harmful to (or are likely to be harmful to) a person that is outside the premises from which it is emitted, or
- b. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premise from which it is emitted.

L6 Hours of operation

- L6.1 The hours of operation are limited to those approved in the development consent (DA 93/31) issued by Greater Taree City Council. These are 7 am to 6 pm Monday to Friday, 7 am to 1:30 pm Saturdays. The loading of trucks is not to commence prior to 7:00 am.

Maintenance activities may be undertaken outside these hours provided it is not audible at nearby residential receptors.

In accordance with (DA 93/31) a temporary extension to operating and blasting hours is permitted from 16 September 2015 until 30 December 2017 and shall be restricted to the following :

Operating hours

- Monday to Friday 5am to 10pm
- Saturday 7 am to 6 pm
- Sunday 7 am to 6 pm

Environment Protection Licence

Licence - 4812



Blasting hours

Monday to Saturday 9 am to 5 pm in accordance with ANZECC guidelines

Note : Low impact or nil impact noise maintenance activities are permitted at the Quarry on a 24 hour basis Monday to Sunday.

L7 Potentially offensive odour

L7.1 The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.

4 Operating Conditions

O1 Activities must be carried out in a competent manner

O1.1 Licensed activities must be carried out in a competent manner.

This includes:

- a) the processing, handling, movement and storage of materials and substances used to carry out the activity; and
- b) the treatment, storage, processing, reprocessing, transport and disposal of waste generated by the activity.

O2 Maintenance of plant and equipment

O2.1 All plant and equipment installed at the premises or used in connection with the licensed activity:

- a) must be maintained in a proper and efficient condition; and
- b) must be operated in a proper and efficient manner.

O3 Dust

O3.1 All areas in or on the premises must be maintained in a condition that prevents or minimises the emission into the air of dust.

O3.2 Any activity carried out in or on the premises must be carried out by such practical means as to prevent dust or minimise the emission of dust to the air.

O3.3 Any plant operated in or on the premises must be operated by such practical means to prevent or minimise dust or other air pollutants.

O3.4 Trucks entering and leaving the premises that are carrying loads of dust generating materials must have

Environment Protection Licence

Licence - 4812



their loads covered at all times, except during loading and unloading.

O4 Emergency response

O4.1 The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. The licensee must keep the incident response plan on the premises at all times. The incident response plan must document systems and procedures to deal with all types of incidents (e.g. spills, explosions or fire) that may occur at the premises or that may be associated with activities that occur at the premises and which are likely to cause harm to the environment.

The PIRMP must be tested at least annually or following a pollution incident.

The licensee must develop the Pollution Incident Response Management Plan in accordance with the requirements in Part 5.7A of the Protection of the Environment Operations (POEO) Act 1997 and POEO regulations.

O5 Processes and management

O5.1 The sedimentation basins must be maintained to ensure that their design capacity is available for the storage of runoff from cleared areas such that it receives adequate treatment.

O5.2 The drainage from all areas at the premises which will liberate suspended solids when stormwater runs over these areas must be diverted into adequately sized sedimentation basins.

O5.3 All above ground tanks containing material that is likely to cause environmental harm must be bunded or have an alternative spill containment system in place.

O5.4 Bunds must:

- a) have walls and floors constructed of impervious materials;
- b) be of sufficient capacity to contain 110% of the volume of the tank (or 110% volume of the largest tank where a group of tanks are installed);
- c) have floors graded to a collection sump; and
- d) not have a drain valve incorporated in the bund structure,

or be constructed and operated in a manner that achieves the same environmental outcome.

5 Monitoring and Recording Conditions

M1 Monitoring records

M1.1 The results of any monitoring required to be conducted by this licence or a load calculation protocol must be recorded and retained as set out in this condition.

M1.2 All records required to be kept by this licence must be:

- a) in a legible form, or in a form that can readily be reduced to a legible form;

Environment Protection Licence

Licence - 4812

- b) kept for at least 4 years after the monitoring or event to which they relate took place; and
 c) produced in a legible form to any authorised officer of the EPA who asks to see them.

M1.3 The following records must be kept in respect of any samples required to be collected for the purposes of this licence:

- a) the date(s) on which the sample was taken;
 b) the time(s) at which the sample was collected;
 c) the point at which the sample was taken; and
 d) the name of the person who collected the sample.

M2 Requirement to monitor concentration of pollutants discharged

M2.1 For each monitoring/discharge point or utilisation area specified below (by a point number), the licensee must monitor (by sampling and obtaining results by analysis) the concentration of each pollutant specified in Column 1. The licensee must use the sampling method, units of measure, and sample at the frequency, specified opposite in the other columns:

M2.2 Air Monitoring Requirements

POINT 18,20,21,22

Pollutant	Units of measure	Frequency	Sampling Method
Particulates - Deposited Matter	grams per square metre per month	Monthly	AM-19

M2.3 Water and/ or Land Monitoring Requirements

POINT 1,2,3,23

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Special Frequency 1	Inspection
pH	pH	Special Frequency 1	Probe
Total suspended solids	milligrams per litre	Special Frequency 1	Grab sample

POINT 4,5

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Special Frequency 2	Visual Inspection
pH	pH	Special Frequency 2	Probe
Turbidity	nephelometric turbidity units	Special Frequency 2	Probe

Environment Protection Licence



Licence - 4812

Note: For the purpose of the above table Special frequency 1 means :

- a) prior to any controlled discharge; and
- b) daily during any discharge

For the purpose of the above table Special frequency 2 means at a minimum quarterly at a time when discharges are occurring from Points 2 and/or 3

Note: For the purposes of Point 23, it is acceptable to monitor the waters that will be / are discharged from the drop cut of the quarry pit, provided those sample(s) are representative of the waters discharged, rather than from the end of the discharge pipe.

M3 Testing methods - concentration limits

Note: The *Protection of the Environment Operations (Clean Air) Regulation 2010* requires testing for certain purposes to be conducted in accordance with test methods contained in the publication "Approved Methods for the Sampling and Analysis of Air Pollutants in NSW".

- M3.1 Monitoring for the concentration of a pollutant emitted to the air required to be conducted by this licence must be done in accordance with:
- a) any methodology which is required by or under the Act to be used for the testing of the concentration of the pollutant; or
 - b) if no such requirement is imposed by or under the Act, any methodology which a condition of this licence requires to be used for that testing; or
 - c) if no such requirement is imposed by or under the Act or by a condition of this licence, any methodology approved in writing by the EPA for the purposes of that testing prior to the testing taking place.

- M3.2 Subject to any express provision to the contrary in this licence, monitoring for the concentration of a pollutant discharged to waters or applied to a utilisation area must be done in accordance with the Approved Methods Publication unless another method has been approved by the EPA in writing before any tests are conducted.

M4 Weather monitoring

- M4.1 At the point(s) identified below, the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1 of the table below, using the corresponding sampling method, units of measure, averaging period and sampling frequency, specified opposite in the Columns 2, 3, 4 and 5 respectively.

Environment Protection Licence

Licence - 4812

POINT 19

Parameter	Sampling method	Units of measure	Averaging period	Frequency
Temperature at 2 metres	AM-4	degrees Celsius	1 hour	Continuous
Wind Direction at 10 metres	AM-2 & AM-4	Degrees	15 minutes	Continuous
Wind Speed	AM-2 & AM-4	metres per second	15 minutes	Continuous
Sigma Theta	AM-2 & AM-4	Degrees	15 minutes	Continuous
Rainfall	AM-4	millimetres	15 minutes	Continuous
Relative humidity	AM-4	percent	1 hour	Continuous
Temperature at 10 metres	AM-4	degrees Celsius	1 hour	Continuous

M5 Recording of pollution complaints

- M5.1 The licensee must keep a legible record of all complaints made to the licensee or any employee or agent of the licensee in relation to pollution arising from any activity to which this licence applies.
- M5.2 The record must include details of the following:
- the date and time of the complaint;
 - the method by which the complaint was made;
 - any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
 - the nature of the complaint;
 - the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
 - if no action was taken by the licensee, the reasons why no action was taken.
- M5.3 The record of a complaint must be kept for at least 4 years after the complaint was made.
- M5.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M6 Telephone complaints line

- M6.1 The licensee must operate during its operating hours a telephone complaints line for the purpose of receiving any complaints from members of the public in relation to activities conducted at the premises or by the vehicle or mobile plant, unless otherwise specified in the licence.
- M6.2 The licensee must notify the public of the complaints line telephone number and the fact that it is a complaints line so that the impacted community knows how to make a complaint.
- M6.3 The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.

Environment Protection Licence

Licence - 4812



M7 Blasting

M7.1 The licensee must monitor all blasts carried out in or on the premises at or near the nearest residence or noise sensitive location (such as a school or hospital) that is likely to be most affected by the blast and that is not owned by the licensee or subject of a private agreement between the owner of the residence or noise sensitive location and the licensee relating to alternative blasting limits.

M8 Noise monitoring

M8.1 To assess compliance with the noise limits condition, attended noise monitoring must be undertaken in accordance with the conditions above and:

- at each of the three most affected residences listed in the noise limit tables;
- occur annually in a reporting period;
- occur during each day, evening and night period as defined in the NSW Industrial Noise Policy for a minimum of:
 - 1.5 hours during the day;
 - 30 minutes during the evening; and
 - 1 hour during the morning-shoulder.
- occur for three consecutive operating days.

Note: The EPA will consider this frequency of monitoring, upon request, after the first three years of monitoring or if monitoring or community complaint suggests more frequent monitoring is required.

6 Reporting Conditions

R1 Annual return documents

R1.1 The licensee must complete and supply to the EPA an Annual Return in the approved form comprising:

- a Statement of Compliance,
- a Monitoring and Complaints Summary,
- a Statement of Compliance - Licence Conditions,
- a Statement of Compliance - Load based Fee,
- a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
- a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
- a Statement of Compliance - Environmental Management Systems and Practices.

At the end of each reporting period, the EPA will provide to the licensee a copy of the form that must be completed and returned to the EPA.

R1.2 An Annual Return must be prepared in respect of each reporting period, except as provided below.

R1.3 Where this licence is transferred from the licensee to a new licensee:

Environment Protection Licence



Licence - 4812

- a) the transferring licensee must prepare an Annual Return for the period commencing on the first day of the reporting period and ending on the date the application for the transfer of the licence to the new licensee is granted; and
- b) the new licensee must prepare an Annual Return for the period commencing on the date the application for the transfer of the licence is granted and ending on the last day of the reporting period.

- R1.4 Where this licence is surrendered by the licensee or revoked by the EPA or Minister, the licensee must prepare an Annual Return in respect of the period commencing on the first day of the reporting period and ending on:
- a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or
 - b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.
- R1.5 The Annual Return for the reporting period must be supplied to the EPA via eConnect *EPA* or by registered post not later than 60 days after the end of each reporting period or in the case of a transferring licence not later than 60 days after the date the transfer was granted (the 'due date').
- R1.6 The licensee must retain a copy of the Annual Return supplied to the EPA for a period of at least 4 years after the Annual Return was due to be supplied to the EPA.
- R1.7 Within the Annual Return, the Statements of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:
- a) the licence holder; or
 - b) by a person approved in writing by the EPA to sign on behalf of the licence holder.

Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period.

Note: An application to transfer a licence must be made in the approved form for this purpose.

Reporting on Blasting Events

- R1.8 The licensee must report any exceedence of the licence blasting limits to the regional office of the EPA as soon as practicable after the exceedence becomes known to the licensee or to one of the licensee's employees or agents.
- R1.9 The licensee must supply, with each Annual Return, a Blast Monitoring Report which must include the following information relating to each blast carried out within the premises during the reporting period covered by the Annual Return:
- a) the date and time of the blast;
 - b) the location of the blast on the premises;
 - c) the blast monitoring results at each blast monitoring station; and
 - d) an explanation for any missing blast monitoring results.

R2 Notification of environmental harm

- R2.1 Notifications must be made by telephoning the Environment Line service on 131 555.

Environment Protection Licence



Licence - 4812

R2.2 The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred.

Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.

R3 Written report

R3.1 Where an authorised officer of the EPA suspects on reasonable grounds that:

- a) where this licence applies to premises, an event has occurred at the premises; or
- b) where this licence applies to vehicles or mobile plant, an event has occurred in connection with the carrying out of the activities authorised by this licence, and the event has caused, is causing or is likely to cause material harm to the environment (whether the harm occurs on or off premises to which the licence applies), the authorised officer may request a written report of the event.

R3.2 The licensee must make all reasonable inquiries in relation to the event and supply the report to the EPA within such time as may be specified in the request.

R3.3 The request may require a report which includes any or all of the following information:

- a) the cause, time and duration of the event;
- b) the type, volume and concentration of every pollutant discharged as a result of the event;
- c) the name, address and business hours telephone number of employees or agents of the licensee, or a specified class of them, who witnessed the event;
- d) the name, address and business hours telephone number of every other person (of whom the licensee is aware) who witnessed the event, unless the licensee has been unable to obtain that information after making reasonable effort;
- e) action taken by the licensee in relation to the event, including any follow-up contact with any complainants;
- f) details of any measure taken or proposed to be taken to prevent or mitigate against a recurrence of such an event; and
- g) any other relevant matters.

R3.4 The EPA may make a written request for further details in relation to any of the above matters if it is not satisfied with the report provided by the licensee. The licensee must provide such further details to the EPA within the time specified in the request.

R4 Other reporting conditions

Water Monitoring

R4.1 Where the discharge water quality monitoring at Points 1, 2 or 3 shows any exceedance of any limit of the EPA licence for the premises the EPA must be notified immediately (by contacting the EPA's Environment Line 131555) and an investigation conducted. A report must be provided to the EPA within seven days as to the reason for the exceedance of the licence limit.

Environment Protection Licence

Licence - 4812



R4.2 Where the ambient water quality monitoring at Points 4 and 5 (sites SW1 and SW2) shows a turbidity concentration greater than 20 % higher at the downstream site compared to the upstream site the EPA must be notified immediately (by contacting the EPA's Environment Line 131555) and an investigation conducted. A report must be provided to the EPA within seven days as to the reason for the elevated downstream turbidity. This condition only applies when the ambient water quality at points 4 or point 5 are greater than 30 ntu.

Noise Monitoring Report

R4.3 A noise compliance assessment report must be submitted to the EPA within 30 days of the completion of the yearly monitoring. The assessment must be prepared by a suitably qualified and experienced acoustical consultant and include:

- a) Justification that the noise monitoring sites are the most affected by Quarry operations;
- b) an assessment of compliance with noise limits presented in the noise limit tables of this licence; and
- c) an outline of any management actions taken within the monitoring period to address any exceedences of the noise limits.

7 General Conditions

G1 Copy of licence kept at the premises or plant

G1.1 A copy of this licence must be kept at the premises to which the licence applies.

G1.2 The licence must be produced to any authorised officer of the EPA who asks to see it.

G1.3 The licence must be available for inspection by any employee or agent of the licensee working at the premises.

Environment Protection Licence

Licence - 4812

Dictionary

General Dictionary

3DGM [in relation to a concentration limit]	Means the three day geometric mean, which is calculated by multiplying the results of the analysis of three samples collected on consecutive days and then taking the cubed root of that amount. Where one or more of the samples is zero or below the detection limit for the analysis, then 1 or the detection limit respectively should be used in place of those samples
Act	Means the Protection of the Environment Operations Act 1997
activity	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
actual load	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
AM	Together with a number, means an ambient air monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
AMG	Australian Map Grid
anniversary date	The anniversary date is the anniversary each year of the date of issue of the licence. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
annual return	Is defined in R1.1
Approved Methods Publication	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
assessable pollutants	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
BOD	Means biochemical oxygen demand
CEM	Together with a number, means a continuous emission monitoring method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .
COD	Means chemical oxygen demand
composite sample	Unless otherwise specifically approved in writing by the EPA, a sample consisting of 24 individual samples collected at hourly intervals and each having an equivalent volume.
cond.	Means conductivity
environment	Has the same meaning as in the Protection of the Environment Operations Act 1997
environment protection legislation	Has the same meaning as in the Protection of the Environment Administration Act 1991
EPA	Means Environment Protection Authority of New South Wales.
fee-based activity classification	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
general solid waste (non-putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997

Environment Protection Licence

Licence - 4812

flow weighted composite sample	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
general solid waste (putrescible)	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
grab sample	Means a single sample taken at a point at a single time
hazardous waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
licensee	Means the licence holder described at the front of this licence
load calculation protocol	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
local authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
material harm	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
MBAS	Means methylene blue active substances
Minister	Means the Minister administering the Protection of the Environment Operations Act 1997
mobile plant	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
motor vehicle	Has the same meaning as in the Protection of the Environment Operations Act 1997
O&G	Means oil and grease
percentile [in relation to a concentration limit of a sample]	Means that percentage [eg.50%] of the number of samples taken that must meet the concentration limit specified in the licence for that pollutant over a specified period of time. In this licence, the specified period of time is the Reporting Period unless otherwise stated in this licence.
plant	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
pollution of waters [or water pollution]	Has the same meaning as in the Protection of the Environment Operations Act 1997
premises	Means the premises described in condition A2.1
public authority	Has the same meaning as in the Protection of the Environment Operations Act 1997
regional office	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
reporting period	For the purposes of this licence, the reporting period means the period of 12 months after the issue of the licence, and each subsequent period of 12 months. In the case of a licence continued in force by the Protection of the Environment Operations Act 1997, the date of issue of the licence is the first anniversary of the date of issue or last renewal of the licence following the commencement of the Act.
restricted solid waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
scheduled activity	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
special waste	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
TM	Together with a number, means a test method of that number prescribed by the <i>Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales</i> .

Environment Protection Licence

Licence - 4812

TSP	Means total suspended particles
TSS	Means total suspended solids
Type 1 substance	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
Type 2 substance	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
utilisation area	Means any area shown as a utilisation area on a map submitted with the application for this licence
waste	Has the same meaning as in the Protection of the Environment Operations Act 1997
waste type	Means liquid, restricted solid waste, general solid waste (putrescible), general solid waste (non - putrescible), special waste or hazardous waste

Mr Nigel Sargent

Environment Protection Authority

(By Delegation)

Date of this edition: 22-October-1999

End Notes

- 1 Licence varied by notice 1009084, issued on 10-Sep-2001, which came into effect on 05-Oct-2001.
- 2 Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
- 3 Licence varied by notice 1520537 issued on 01-Dec-2014
- 4 Licence varied by notice 1539314 issued on 17-Nov-2016
- 5 Licence varied by notice 1554829 issued on 22-Nov-2017