

EATONS QUARRY POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN

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Quarry Solutions Pty Ltd
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DRAWING

Site and Surrounds

(Drawing No. 1941.DRG.002)

ATTACHMENTS

Attachment 1

Environmental Protection Licence

1. Introduction

Quarry Solutions Pty Ltd (Quarry Solutions), as holders of Environment Protection Licence (EPL 20794) (provided as Attachment 1 – Environmental Protection Licence) for the Eatons Quarry site (the Site), have prepared this Pollution Incident Response Management Plan (PIRMP) to ensure compliance with the provisions of the *Protection of the Environment Operations Act 1997* (POEO Act).

The PIRMP has been prepared in accordance with the NSW Environment Protection Authority - Environmental Guidelines: *Preparation of Pollution Incident Response Management Plans 2012*.

The objectives of the PIRMP are to:

- Ensure comprehensive and timely communication about a pollution incident to staff at the premises, the Environmental Protection Authority, other relevant authorities specified in the Act (such as local Councils, NSW Ministry of Health, WorkCover NSW, and Fire and Rescue NSW) and people outside the facility who may be affected by the impacts of a pollution incident.
- Minimise and control the risk of a pollution incident at the facility by requiring identification of risks and the development of planned actions to minimise and manage those risks.
- Ensure that the plan is properly implemented by trained staff, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability.

1.1 Legislative Requirements

The specific requirements for PIRMPs are set out in Part 5.7A of the POEO Act and the *Protection of the Environment Operations (General) Regulation 2009* (POEO (G) Regulation). In summary, this provision requires the following of Quarry Solutions:

- Prepare a PIRMP (section 153A, POEO Act).
- The PIRMP must include the information detailed in the POEO Act (section 153C) and be in the form required by the POEO(G) Regulation (clause 98B).
- Keep the PIRMP at the premises to which the EPL relates and where the relevant activity takes place (section 153D, POEO Act).
- Must test the PIRMP in accordance with the POEO(G) Regulation (clause 98E). If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, immediately implement the plan (section 153F, POEO Act).

The plan must include the following requirements:

1. Description and likelihood of hazards.
2. Pre-emptive actions to be taken.
3. Inventory of pollutants.
4. Safety equipment.
5. Contact details.
6. Communications with adjoining properties and the community.
7. Minimising harm to persons on the premise.
8. Maps.
9. Actions to be taken during or immediately after pollution incident.
10. Staff training.

1.2 The Site Activity and Surrounds

Provided as Table 1 – Site Details, is a summary of the relevant details for the site such as the property details, approved extraction limits and surrounding land use.

Table 1 – Site Details

Item	Details
Address	Eatons Quarry, Old Bagotville Road, Bagotville NSW 2477
Lot on Plans	Lot 3 on DP619233
Environment Protection Licence	Licence Number: 20794 Anniversary Date: 29 September
Approved Activities	Land-based extractive activity >30,000 to 50,000 tonnes, annual capacity to extract, process and store
Surrounding Land Uses	The area surrounding the quarry is predominantly rural with some rural-residential holdings.

2. Description and Likelihood of Hazards

Pollution hazards on-Site include chemical and fuel spills, dust emissions and water contamination. These are shown in Table 2 – Pollution Hazard Identification, Likelihood and Pre-emptive Actions with the likelihood of the incidence and the pre-emptive actions taken by the Site to reduce the risk or prevent an incidence from occurring.

Table 2 – Pollution Hazard Identification, Likelihood and Pre-emptive Actions

Hazard	Likelihood	Pre-emptive Actions Taken
Hydrocarbon spills during maintenance and refuelling	Moderate	<ul style="list-style-type: none"> Refuelling will be via mobile equipment. Fuel or hazardous material is used for its intended use only (as specified on the Safety Data Sheets (SDS)). SDS are reviewed and available for reference for the correct clean up procedures. Compliance with the Workplace Health and Safety Management Plan. Supervision is provided when refuelling to ensure that overfilling does not occur. Vehicles are maintained in good condition and as per manufactures' specifications. Pre-start checks are completed on plant and equipment daily which include inspection for oil leaks. Good housekeeping and tidy work areas are kept to help prevent accidents and spills.
Stored chemicals leakage and/or spillage causing contamination	Low	<ul style="list-style-type: none"> Hazardous materials are stored in a covered area and on appropriate drip trays where practicable. Fuel or hazardous material is used for its intended use only (as specified on the SDS). SDSs are reviewed and available for reference for the correct handling and clean up procedures. Compliance with the Workplace Health and Safety Management Plan. Good housekeeping and tidy work areas are kept to help prevent accidents and spills. See Table 3 – Hazardous Materials Inventory for list of chemicals stored on-Site)
Fire	Low	<ul style="list-style-type: none"> Store flammable and combustible liquids in an undercover area on appropriate drip trays. Fuel is not to be stored by permanent installations on-Site. Refuelling is undertaken only in designated areas where possible. Provision of appropriate spill kits and staff trained in their use. SDS are reviewed and available for reference for the correct fire prevention and fighting procedures. Compliance with the Workplace Health and Safety Management Plan. Good housekeeping and tidy work areas are kept to help prevent accidents and spills. Fire extinguishers are provided and staff are trained in their use. Staff and visitors to Site are instructed of the emergency procedures and evacuation points.
Discharge of water with elevated suspended solid levels	Low	<ul style="list-style-type: none"> Settling time is provided for waters within the settlement ponds prior to discharge. Clean and contaminated runoff is segregated. Sediment control measures are implemented and maintained. Water monitoring is undertaken in accordance with licence conditions.

Hazard	Likelihood	Pre-emptive Actions Taken
Dust emissions from operations	Low	<ul style="list-style-type: none"> • Hardstand areas and roads are kept in a damp state with the use of a water truck. • Crushing and screening plant is enclosed with water sprays operating at transfer points. • All loads are covered during transport.
General waste generated on-Site incorrectly managed and entering the surrounding environment	Low	<ul style="list-style-type: none"> • General waste and recycle bins are provided at the office and lunch room. • General waste is taken to Council Landfill as necessary. • Waste oil from machinery maintenance is stored correctly and disposed of at an oil recycler. • Unserviceable machinery parts are reused or recycled where possible or waste metal sold to scrap metal merchant. • Wastewater from the on-Site sewage and amenities waste water treatment tank is chlorinated and used to irrigate the office garden.

Drawing 1941.DRG.002 – Site and Surrounds shows the location of the Site relative to the surrounding sensitive receptors. This drawing shows that there are two sensitive receptors within 500 metres of the Site.

3. Pre-Emptive Actions to be taken

Quarry Solutions Quarry Workplace Health and Safety Management Plan and Quarry Environmental Management Plan (QEMP) identifies and outlines all necessary pre-emptive actions to prevent, minimise and manage all potential safety and environmental hazards. Quarry Solutions has in place WorkCover compliant methods for the following:

1. Chemical storage.
2. Chemical spill management.
3. Schedule of Safety Equipment and Personal management of pollution incidents:
 - I. Spill kit.
 - II. Safety Data Sheet Register.
 - III. Fire Extinguishers.
 - IV. Hard Hats.
 - V. Steel Cap Boots.
 - VI. Dust Mask.
 - VII. Eye protection.
 - VIII. Rigger Gloves.
 - IX. Long Sleeve Shirts.

4. Inventory of Pollutants (over 20 Litres or 20 Kilograms)

A Hazardous Materials Storage register is kept on-Site and updated as necessary. The current hazardous substances stored on-Site are shown in Table 3 – Hazardous Materials Inventory.

Table 3 – Hazardous Materials Inventory

Chemical Name	Use	Approximate Amount (Litres unless stated otherwise)
Diesel	Mobile and stationary equipment fuel	<100,000
Engine oil	Machine maintenance	60
Hydraulic oil	Machine maintenance	400
Transmission oil	Machine maintenance	40
Gear oil	Machine maintenance	40
Engine Coolant	Machine maintenance	40
Grease	Machine/plant maintenance	80 kg

The current EPL provided as Attachment 1 – Environmental Protection Licence, does not specify any pollutants (other than water quality criteria under Condition L2.4) to be monitored.

5. Incident Contact details

External Contacts

1. Emergency Services – 000
2. Environment Protection Authority – 13 15 55
3. Public Health Unit — Lismore — 02 6620 7585 or (0417 244 966 after hours)
4. Ballina Shire Council - 02 6686 4444
5. Essential Energy – 13 20 80

Internal Contacts

General Manager- Quarry Operations
Terry Woods
Ph: 0411 019290

6. Communications with adjoining properties and the community

In the event of an incident occurring the following methods of communication shall be employed depending on the severity and nature of the incident.

6.1 Communications to Adjoining Landowner Occupiers

The surrounding land is rural residential properties with the closest residence approximately 200 m away. Due to the near distances of surrounding residences, should a severe incident occur, a door knock would be more appropriate and timely to advise neighbours of events.

6.2 Communications with the Community

- Local Newspaper.
- Letter box drop.
- Door knock.

The extent of the communications with the neighbours and the community will depend on the:

- Magnitude of the incident.
- Type of pollutant.
- What that pollutant may impact - water, land and air.
- The potentially impacted area.
- Weather conditions.
- Potential duration of the impact.

These factors will be considered in determining who will be contacted.

7. Minimising harm to persons on the premise

Emergency Management Key Responsibilities (pre-emergency)

The Quarry Manager or delegate is responsible for:

- The effectiveness and accuracy of the Emergency Plan, procedures and relevant emergency documentation.
- Maintenance of staff training in emergency preparedness, emergency information lists and emergency-related plant and equipment necessary for emergency evacuation compliance.
- Co-ordination of evacuation exercises.
- Post-emergency/exercise review.

Emergency Management Methods

- The Site has an emergency plan.
- A complete copy of the plan shall be displayed in all the main work areas.
- This plan forms part of the Workplace Health and Safety Plan.

Chief Emergency Controller (during and post-emergency)

The Emergency Controller for Quarry Solutions Eatons Quarry is:

General Manager- Quarry Operations - Terry Woods - Ph: 0411 019290

Responsibilities include:

- Immediately responding to any emergency situation.
- Ascertaining the nature of the emergency and determining appropriate actions.
- Ensuring the appropriate emergency services have been notified.
- Co-ordinating the deployment of staff and any internal specialist resources.
- Where safe to do so take steps to contain or control the hazard.
- Ensuring that appropriate senior management are kept updated on the situation.
- Co-ordinating post-incident recovery strategies.

Staff, Employees and Contractors

Responsibilities include:

- Attendance of any emergency preparedness training.
- In the event of emergency event, report all emergency incidents to the Quarry Manager
- Follow instructions given in the event of an emergency.
- Co-operate with emergency personnel in the event of an emergency.
- When safe to do so take steps to contain or control the hazard.

7.1 Emergency Resources

Emergency Warning and Communications System

- Radios in all plant, weighbridge and vehicles, mobile phones, verbal.
- Communication with staff.
- In the event of a failure of the radio, landline telephone, emergency warning system and messages may be relayed via mobile phone or runner/driver.

Fire-Fighting Appliances

The site facilities are equipped with various fire-fighting appliances which are strategically located throughout the site offices and plant as per the Emergency Response Plan.

Location of Extinguishers

Fire extinguishers are found in the following locations:

- On plant and in all Site offices as required.
- Next to fuel installation.
- The equipment shall comply with the relevant Australian Standards and be appropriately signposted.

All employees and contractors shall be competent in the use of the equipment.

All fire-fighting equipment shall be regularly checked and serviced. This will involve both internal inspections as well as external tests conducted by approved experts.

The Quarry Manager acts as the Fire Warden.

Incident and Accident Reporting

In the event that an injury is sustained to an employee or an incident occurs, contactor or visitor, the following contingencies have been put into place:

- Trained and accredited First Aid Officers will be in the workplace and shall be present on every shift.
- Contact number of the First Aid Officer is displayed on the Site office.
- All injuries shall be reported to the supervisor immediately and recorded on the injury report form as soon as practicable after injury.
- All injuries will also be investigated immediately and corrective actions instigated in accordance with Quarry Solutions Workplace Health and Safety Management Plan.

First Aid Equipment Locations

- Site Office.
- Quarry Vehicle.
- Loader.

7.2 Emergency Response and Evacuation Plan

Discovering a Dangerous Situation

- Move persons away from danger if safe to do so.
- Contact relevant emergency services (i.e. Ambulance/Fire/Police).
- Announce evacuation if dangerous situation requires (Radio/Runner).
- Contact the Quarry Manager.

Reporting an Emergency Externally

When reporting an emergency to an external agency, the following information should be included:

- Name of organisation.
- Exact nature of emergency - are there any casualties?
- Exact location (including address and location on site).

- Name of person reporting emergency.
- Contact number (where applicable).

This information is on display in the site office.

External reporting is to be carried out by the Quarry Manager, but, in that person's absence, may be effected by their delegate.

Evacuation Alert

Verbal instructions for evacuation are effected by calling out "emergency, emergency, emergency" over the radio system or verbal directive issued by the appropriate personnel from the Quarry Manager will constitute the evacuation signal.

Assembly Areas

In the event of an evacuation, persons should assemble at the nearest safe assembly area as stated in the Quarry Safety Management Plans.

First Aid

If First Aid assistance is required contact the relevant First Aid attendant. First Aid attendant lists can be found in the Site office.

Any injured people who can be moved safely should be taken to the nearest assembly area (whichever is more appropriate) for treatment. Those people who are trapped or unable to be removed immediately must be protected and given First Aid on the spot (providing it is safe to do so).

Media Liaison

No person other than the following can authorise or divulge any information to the media:

- Scott Lancaster – General Manager
- Brian Turner – Director

Any form of contact from the media should be referred to those mentioned above under all circumstances.

Should any staff be approached by media representatives for comment, the staff member must refer them to the Quarry Manager or the person authorised to speak on their behalf such as a media officer.

8. Actions to be taken during or Immediately after Pollution Incident

8.1 During a Pollution Incident

All actions taken during and after a pollution incident will vary depending on the nature of the pollutants and severity of the incident.

Any action taken shall be in accordance with any Workplace Health and Safety requirements and the Quarry Environmental Management Plan (QEMP).

Detailed records/evidence collection shall be carried out, provided it is safe to do so and with approval of the person in control of the Site. Evidence may include photographs or samples taken and written notes.

Follow all directives given by the Emergency Controller.

Follow only safe work practices.

8.2 Emergency Termination

Only the Emergency Controller may deem the emergency terminated. This action shall take place once all emergency services have concluded their involvement.

Only the Emergency Controller may deem the Site safe to enter.

8.3 Incident Reporting

Reporting of the incident to the EPA shall follow the requirements as set out in the EPL, as follows:

- For recording of Pollution Complaints refer to Condition M6.
- For notification of Environmental Harm refer to Condition R2.
- For preparing a written report to EPA, refer to condition R3.

8.4 Site Personnel Competency

Management to ensure staff are competent in key functional areas, that ongoing training will be provided and currency of training monitored throughout their period of employment with Quarry Solutions.

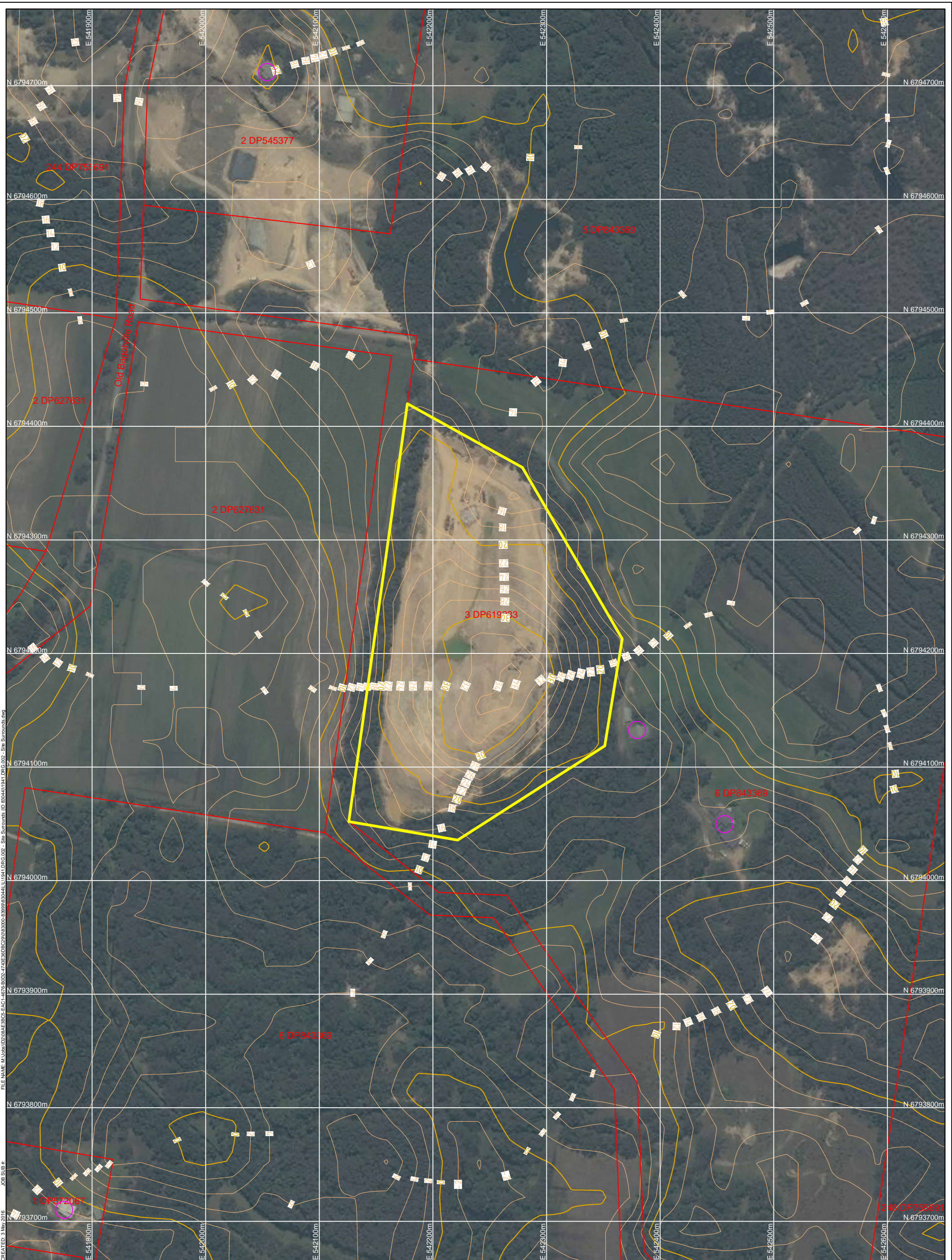
Records of training currency are maintained by the Quarry Manager. The Quarry Manager monitors expiry dates and arranges appropriate training as necessary and annual employee reviews are conducted to identify all required training needs.

Management will ensure Contractors are competent in key functional areas. Ongoing currency of skills will be monitored throughout the period of the contract with Quarry Solutions.

All personnel are trained in general and Site specific Safe Work Method Statements.

Weekly tool box meetings are undertaken for quarry activities. All new Site employees and contractors shall be made aware of the PIRMP

drawi ngs



<table><tr><td>REV</td><td>DESCRIPTION</td><td>DATE</td><td>BY</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table>		REV	DESCRIPTION	DATE	BY					Legend: <div><div></div> Cadastral Boundary</div> <div><div></div> Site Boundary</div> <div><div></div> Nearby Residence</div>	<div><div>PROJECT:</div><div>Eatons Quarry</div></div> <div><div>CLIENT:</div><div>Quarry Solutions Pty Ltd</div></div>	<div><div>TITLE:</div><div>Site and Surrounds</div></div>	
REV	DESCRIPTION	DATE	BY										
<div><div>Data Sources:</div><div>Photography: ESRI World imagery server, date accessed: 2016-05-03</div><div>Topography: Australian Govt SRM 1s DEM, 2011</div><div>Cadastral: Ecosystem: Other:</div></div> <div><div>THESE DESIGNS AND PLANS ARE COPYRIGHT AND ARE NOT TO BE USED OR REPRODUCED WHOLLY OR IN PART OR TO BE USED ON ANY PROJECT WITHOUT THE WRITTEN PERMISSION OF GROUNDWORK PLUS PTY LTD. ABN: 13 609 422 791</div></div>		<div><div>GROUNDWORK</div><div>plus</div></div> <div><div>PH: +61 7 3871 0411</div><div>WWW.GROUNDWORK.COM.AU</div></div>	<div><div>SCALE:</div><div>1:3,000</div><div>0 60</div><div>When Printed On A3</div></div> <div><div>DATE:</div><div>3 May 2016</div><div>DRAWN:</div><div>LT</div><div>PRINTED:</div><div>3 May 2016</div><div>CHECKED:</div><div> </div></div>	<div><div>DRAWING NUMBER:</div><div>1941.DRG.002</div></div> <div><div>REVISION:</div><div> </div></div> <div><div>DATUM:</div><div>HORIZONTAL / VERTICAL / ZONE</div></div> <div><div>MGA / AHD / 56</div></div>									

attachments

Attachment 1

Environmental Protection Licence

Environment Protection Licence



Licence - 20794

<u>Licence Details</u>	
Number:	20794
Anniversary Date:	29-September

<u>Licensee</u>
QUARRY SOLUTIONS PTY LTD
PO BOX 6009
TWEED HEADS SOUTH NSW 2486

<u>Premises</u>
EATONS QUARRY
OLD BAGOTVILLE ROAD
BAGOTVILLE NSW 2477

<u>Scheduled Activity</u>
Extractive activities

<u>Fee Based Activity</u>	<u>Scale</u>
Land-based extractive activity	> 30000-50000 T annual capacity to extract, process or store

<u>Region</u>
North - North Coast
NSW Govt Offices, 49 Victoria Street
GRAFTON NSW 2460
Phone: (02) 6640 2500
Fax: (02) 6642 7743
PO Box 498 GRAFTON
NSW 2460

Environment Protection Licence



Licence - 20794

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Environment Protection Licence

Licence - 20794



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

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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:

QUARRY SOLUTIONS PTY LTD
PO BOX 6009
TWEED HEADS SOUTH NSW 2486

subject to the conditions which follow.

Environment Protection Licence

Licence - 20794



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
Extractive activities	Land-based extractive activity	> 30000 - 50000 T annual capacity to extract, process or store

- A1.2 Notwithstanding A1.1, the land-based extractive activity authorised under this licence expires in January 2018 or once 975,000 tonnes of material is extracted (whichever comes first), in accordance with the development consent 1996/29 granted by Ballina Shire Council under the *Environmental Planning and Assessment Act 1979* for the premises specified in A2.

A2 Premises or plant to which this licence applies

- A2.1 The licence applies to the following premises:

Premises Details
EATONS QUARRY
OLD BAGOTVILLE ROAD
BAGOTVILLE
NSW 2477
LOT 3 DP 619233

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.

Environment Protection Licence

Licence - 20794



2 Discharges to Air and Water and Applications to Land

P1 Location of monitoring/discharge points and areas

P1.1 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.

P1.2 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	Sediment Basin Discharge	Sediment Basin Discharge	Discharge point from sediment basin identified as WR1 (North Sediment Basin) and located at 542263E and 6794376N
2	Sediment Basin Discharge	Sediment Basin Discharge	Discharge point from the sediment basin identified as WR2 (South Sediment Basin) and located at 542171E and 6794059N

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

Environment Protection Licence

Licence - 20794



POINT 1,2

Pollutant	Units of Measure	50 Percentile concentration limit	90 Percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	Visible				Nil
pH	pH				6.5 - 8.5
Total suspended solids	milligrams per litre				50

- L2.5 The concentration limits in the above table do not apply to any discharge from Point 1 or Point 2 solely arising from rainfall exceeding the 85th percentile 5 day (consecutive days) rainfall volume of 82.5 mm.
- L2.6 If the licensee uses turbidity (NTU) in place of TSS to determine compliance with Condition L2.4, the licensee must develop a statistical correlation which identifies the relationship between NTU and TSS for water quality in the sediment basin/s in order to determine the NTU equivalent of 50 mg/L TSS before its use.
- L2.7 The licensee must provide the EPA with a copy of the statistical correlation assessment methodology and results before using NTU in place of TSS.
- L2.8 The licensee must develop and implement a method to enable the ongoing verification of the relationship between NTU and TSS.
- L2.9 The licensee must provide the EPA with any amendments the licensee makes to the statistical correlation as a result of the ongoing verification required by Condition L2.8 before using the revised statistical correlation.

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.

L4 Noise limits

- L4.1 Noise from the premises must not exceed an LAeq (15 minute) noise emission criterion of 43 dB(A) at the most affected residential receiver except as expressly provided by this licence.
- L4.2 Noise from the premises is to be measured at the most affected residential receiver who has not given written permission for an exceedance of Condition L4.1 to determine compliance with this condition.
- L4.3 Noise from the premises is to be measured at the most affected point on or within the nearest affected

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residential property boundary or if this is more than 30m from the residence at the most affected point within 30m of the residence, to determine compliance with this condition.

Note: The noise limits set out in condition L4.1 apply under all meteorological conditions except for the following:

1. Wind speeds greater than 3 metre/second at 10 metres above ground level; or
2. Temperature inversion conditions up to 3oC/100m and wind speeds greater than 2 metres/second at 10 metres above ground level; or
3. Temperature inversion conditions greater than 3oC/100m

L4.4 The noise levels set out in Condition L4.1 do not apply if agreement between the licensee and the occupier of the noise sensitive location has been reached. Any agreement(s) between the licensee and the affected noise sensitive receiver must be recorded in writing and a copy of the agreement(s) kept on the premises for the duration of the licence.

L5 Blasting

L5.1 All sensitive receivers within 1 kilometre of the quarry are to be given at least 24 hours notice when blasting is to be undertaken.

L5.2 The airblast overpressure level from blasting operations in or on the premise must not exceed:

- (a) 115 dB (Lin Peak) for more than 5% of the total number of blasts during each reporting period or one blast in each reporting period (whichever is the greater); and
- (b) 120 dB (Lin Peak) at any time,

when measured at any non-project related residential building or other noise sensitive location such as a school or hospital that is not subject to a private agreement between the owner of the residence or noise sensitive location.

L5.3 The airblast overpressure values stated above apply when the measurements are performed with equipment having a lower cut-off frequency of 2Hz or less. If the instrumentation has a higher cut-off frequency then a correction of 5dB should be added to the measure value. Equipment with a lower cut-off frequency exceeding 10Hz should not be used for the purpose of measuring airblast overpressure.

L5.4 The ground peak particle velocity from blasting operations carried out in or on the premises must not exceed:

1. 5mm/s for more than 5% of the total number of blasts over each reporting period or one blast in each reporting period (whichever is the greater); and
2. 10mm/s at any time.

At any affected residence or noise sensitive location that is not owned by the licensee or subject to a private agreement with the owner of the residence or noise sensitive location.

L6 Hours of operation

L6.1 Blasting hours

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Blasting operations at the premises may only take place between 09:00 and 15:00 Monday to Friday. (Where compelling safety reasons exist, a blast to occur outside the above hours. Prior notification of any such blast must be made to the EPA).

- L6.2 Activities covered by this licence must only be carried out between the hours of 07:00 and 17:00 Monday to Friday and 08:00 and 15:00 Saturday, and at no time on Sundays and Public Holidays.

This condition does not apply if written permission from sensitive receivers for an exceedance of the above hours of operation has been provided to the EPA.

- L6.3 This condition does not apply to the delivery of material outside the hours of operation permitted by condition L6.2, if that delivery is required by police or other authorities for safety reasons; and/or the operation or personnel or equipment are endangered. In such circumstances, prior notification must be provided to the EPA and affected residents as soon as possible or within a reasonable period in the case of emergency.
- L6.4 General maintenance, landscaping and office work that does not involve the operation of any quarry machinery is permitted on Sundays and Public Holidays

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 Activities occurring in or on the premises must be carried out in a manner that will minimise the generation, or emission from the premises, of wind-blown or traffic generated dust.

O4 Emergency response

Note: The licensee must maintain, and implement as necessary, a current Pollution Incident Response Management Plan (PIRMP) for the premises. Details of the requirements can be found on the EPA

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website via the following link <http://www.epa.nsw.gov.au/legislation/poefaqspirmps.htm>

O5 Processes and management

- O5.1 The sites sediment basin(s) must be maintained and operated to ensure that:
- All 5-day rainfall events up to 82.5mm (the 90th percentile 5 day rain event) are captured.
 - Any discharge from the sediment basin that occurs as a result of rainfall below the 5-day total of 82.5mm must meet the limit conditions specified in condition L2.4.
- O5.2 Sediment Basins shall be treated, if required, to reduce the Total Suspended Solids level to the licenced concentration limit before being discharged to the environment. Treatment can be with gypsum or any other material that has been approved by the EPA.
- O5.3 All liquid chemicals, fuels and oils must be stored in tanks or containers inside suitable bund(s). Bund(s) are to be designed, constructed and maintained in accordance with AS1940-2004 Storage and Handling of Flammable and Combustible Liquids.
- O5.4 Each sedimentation basin must have a marker (the “sedimentation basin marker”) that identifies the upper level of the sediment storage zone.
- O5.5 Whenever the level of liquid and other material in any sedimentation basin exceeds the level indicated by the sedimentation basin marker, the licensee must take all practical measures as soon as possible to reduce the level of liquid and other material in the sedimentation basin.
- O5.6 The licensee must maximise the diversion of stormwater runoff containing suspended solids to sediment basins installed on the premises.
- O5.7 Where sediment basins are necessary, all sediment basins and associated drainage must be installed and commissioned prior to the commencement of any clearing or grubbing works within the catchment area of the sediment basin that may cause sediment to leave the site.
- O5.8 The licensee must ensure the design storage capacity of the sediment basins installed on the premises is reinstated within 5 days of the cessation of a rainfall event that causes runoff to occur on or from the premises.
- O5.9 The licensee must ensure that sampling point(s) for water discharged from the sediment basin(s) are provided and maintained in an appropriate condition to permit:
- a) the clear identification of each sediment basin and discharge point;
 - b) the collection of representative samples of the water discharged from the sediment basin(s); and
 - c) access to the sampling point(s) at all times by an authorised officer of the EPA.
- O5.10 The licensee must endeavour to maximise the reuse of captured stormwater on the premises.
- O5.11 The sediment basins must meet the design and operational standards of *Managing Urban Stormwater Soils and Construction: Volume 1 and Volume 2 E. Mines and quarries*. This document requires that at a minimum 90 percentile five-day rainfall event be used to determine basin sizing for quarries.

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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;
 - 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 Water and/ or Land Monitoring Requirements

POINT 1,2

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

- M2.3 Special Frequency 1 means sampling any discharge, whether controlled or otherwise, which has not occurred from rainfall exceeding 82.5 mm over any consecutive five day period.

M3 Testing methods - concentration limits

- M3.1 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

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any tests are conducted.

M4 Environmental monitoring

M4.1 The licensee is required to install and maintain a rainfall depth measuring device.

M5 Weather monitoring

M5.1 Rainfall at the premises must be measured and recorded in millimetres per 24 hour period at the same time each day from the time that the site office associated with the activities permitted by this licence is established.

M5.2 The rainfall monitoring data collected in compliance with Condition M4.1 can be used to determine compliance with Condition L2.5 and L2.6.

M6 Recording of pollution complaints

M6.1 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.

M6.2 The record must include details of the following:

- a) the date and time of the complaint;
- b) the method by which the complaint was made;
- c) any personal details of the complainant which were provided by the complainant or, if no such details were provided, a note to that effect;
- d) the nature of the complaint;
- e) the action taken by the licensee in relation to the complaint, including any follow-up contact with the complainant; and
- f) if no action was taken by the licensee, the reasons why no action was taken.

M6.3 The record of a complaint must be kept for at least 4 years after the complaint was made.

M6.4 The record must be produced to any authorised officer of the EPA who asks to see them.

M7 Telephone complaints line

M7.1 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.

M7.2 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.

M7.3 The preceding two conditions do not apply until 2 months the date of the issue of this licence.

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M8 Blasting

- M8.1 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.
- M8.2 The time of blasting, the air-blast overpressure level from blasting operations and the ground vibration peak particle velocity from blasting operations must be measured at the nearest sensitive receiver for each blast.
- M8.3 Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard AS 21872 - 2006

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:
1. a Statement of Compliance,
 2. a Monitoring and Complaints Summary,
 3. a Statement of Compliance - Licence Conditions,
 4. a Statement of Compliance - Load based Fee,
 5. a Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan,
 6. a Statement of Compliance - Requirement to Publish Pollution Monitoring Data; and
 7. 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.

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.

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

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

- 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

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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.

R2 Notification of environmental harm

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

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.

- 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.

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

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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.

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.

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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

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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> .

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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 Graeme Budd

Environment Protection Authority

(By Delegation)

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End Notes