

# Annual Review 2015-2016

for

## Possum Brush Quarry



*Prepared by:*



**R.W. CORKERY & CO. PTY. LIMITED**

September 2016

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ABN: 45 050 224 250

# Annual Review 2015-2016

for

## Possum Brush Quarry

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## **LIST OF ACRONYMS**

AHD	Australian Height Datum
ANZECC	Australian and New Zealand Environment and Conservation Council
DPE	Department of Planning and Environment
EMP	Environmental Management Plan
EPL	Environment Protection Licence
NA	Not Applicable
ND	Not Determined
NYA	Not Yet Applicable
PBM	Pacific Blue Metal Pty Ltd

## **PREAMBLE**

This Annual Review has been prepared in a format consistent with that used by Pacific Blue Metal Pty Ltd (PBM) prior to 2015-2016 given the Quarry operated under Development Consent DA283/97 Mod 3 for 75% of the 2015-2016 year. It is proposed that the 2016-2017 Annual Review is prepared in accordance with the NSW Government's Annual Review Guideline (issued in October 2015), i.e. with respect to Development Consent DA283/97 Mod 4 issued on 1 April 2016.

It is noted that the copies of the relevant approvals and records compiled for this document are included on the USB for this document or can be viewed at the administration office of PBM during normal business hours.



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# 1. INTRODUCTION

## 1.1 OBJECTIVES AND REPORT SCOPE

This Annual Review for the Possum Brush Quarry (“the Quarry”) has been prepared in conjunction with Pacific Blue Metal Pty Ltd (PBM) in accordance with *Condition 5(9)* of the Development Consent 283/97 Mod 4 (**Appendix 1**). An Annual Review is required to be submitted to Department of Planning and Environment (DPE) on an annual basis following the anniversary of the date of consent. PBM received approval from the DPE on 1 April 2016 to continue its practice of preparing the Annual Review on a financial year basis.

This document has been prepared following a site visit by personnel from R.W. Corkery & Co. Pty Limited on 15 August 2016 and covers the period 1 July 2015 to 30 June 2016 (“the reporting period”).

The objectives of this document are to:

- report upon all extraction, processing, maintenance and environmental management activities undertaken within the Quarry throughout the reporting period;
- review compliance with the conditions of the active Development Consents DA283/97 Mod 3 (from 1 July 2015 to 31 March 2016), DA283/97 Mod 4 (from 1 April to 30 June 2016), DA1127/2005 (for the Asphalt Plant) and DA769/2009 (for the recycling activities) and Environment Protection Licence (EPL) 3393;
- review the effectiveness of environmental management;
- report upon and interpret the environmental monitoring results compiled during the reporting period;
- report all complaints concerning the operation of the Quarry during the reporting period and actions taken; and
- provide an overview of all extraction, processing, transportation and environmental management activities planned for the period 1 July 2016 to 30 June 2017.

This document relates to all activities approved to occur within Lot 109 DP753195, Lot 3 DP701903 and Lot 66 DP608957 (see **Figure 1.1**). The approved areas of disturbance within these lots are collectively referred to as the “Quarry Area”, the boundary of which is shown on all relevant figures in this document. It is noted that this boundary was clarified during the reporting period and specifically on EPL 3393. The remainder of the PBM’s property is being used for agricultural purposes and the defined wildlife corridor.

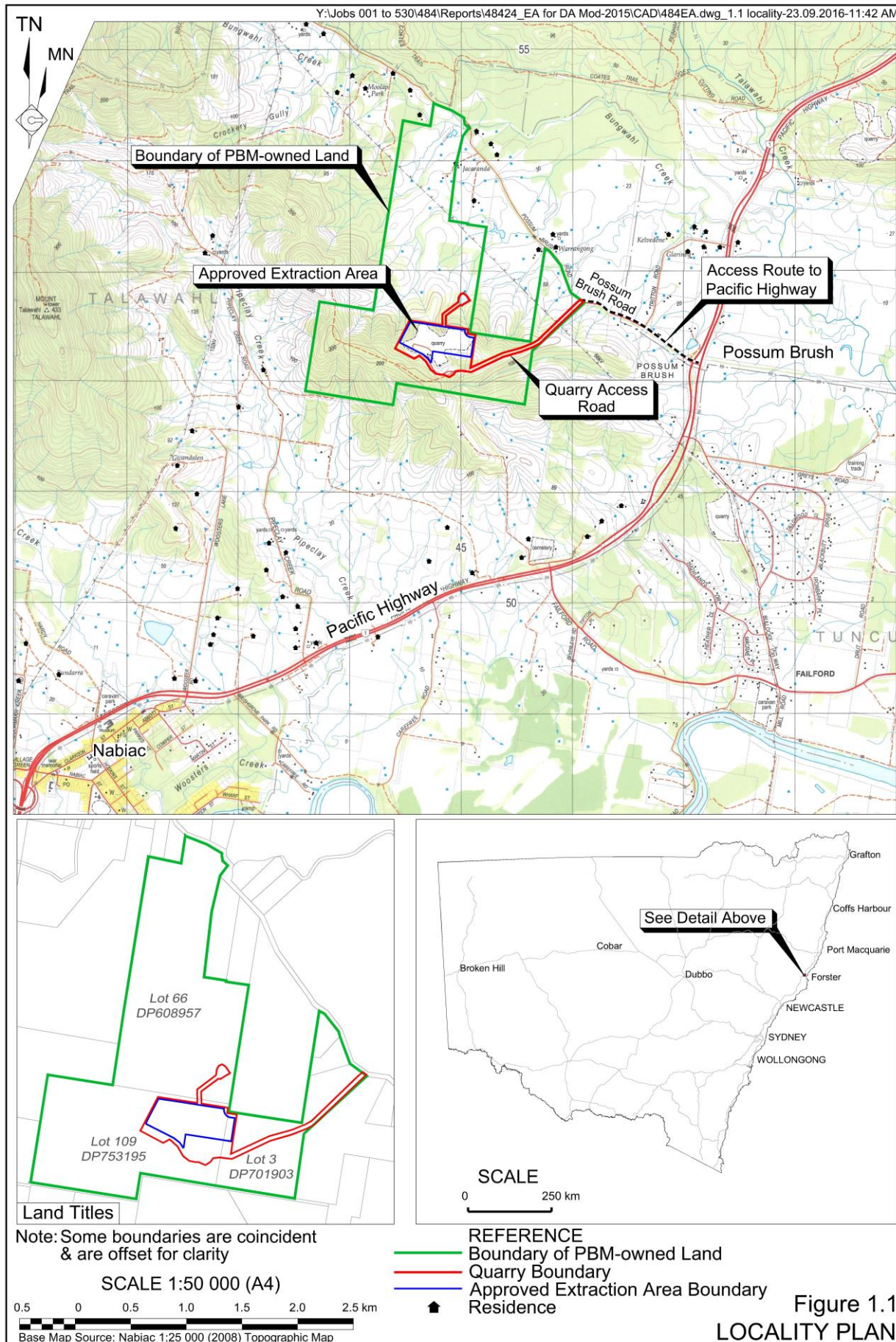
## 1.2 DOCUMENT FORMAT

This document is presented in three sections with a set of appendices, namely:

- Section 1: Introduction;
- Section 2: Activities during the reporting period; and
- Section 3: Activities planned during 2016 – 2017.









The Appendices reproduce the current Development Consents relevant to the Quarry, related compliance documentation and reproduces the records and documentation maintained to demonstrate compliance with the Development Consents for the reporting period. The Appendices also include a copy of the current EPL 3393 for the Quarry and related compliance documentation.

## **1.3 MANAGEMENT**

### **1.3.1 Site Management**

The overall management of the Quarry and ancillary plant and implementation of all environmental management components is the responsibility of the Quarry Manager, Mr Charlie Kennett. Mr Kennett is assisted on site with administration by Mr Laurie Walsh and Ms Stacey Tyack. All environmental monitoring is coordinated by the Quarry Manager.

PBM has utilised the services of a local bush regenerator, Mr Timothy Wray, to assist in undertaking weed control and regeneration activities within the Wildlife Corridor and 50m buffer.

### **1.3.2 Document Preparation**

Preparation of this document has been undertaken by Mr Rob Corkery (B.Appl.Sc, M.Appl.Sc), Principal of R.W. Corkery & Co. Pty Limited. Mr Kennett and Ms Tyack assembled all current documentation included in the Appendices of this document. Mr Corkery undertook a site inspection on 15 August 2016 and conducted an independent audit of the conditions of the current development consents and EPL 3393 during and following the site inspection.

## **1.4 APPROVALS AND LICENCES**

### **1.4.1 Development Consents**

The Possum Brush Quarry is operated in accordance with Development Consent 283/97, originally issued by the Minister for Urban Affairs and Planning on 25 May 1998. The development consent has since been modified on four occasions.

Development Consent 283/97 was first modified on 4 February 2003 in response to an application to modify conditions relating to the width of the sealed section of Possum Brush Road and the rehabilitation of Possum Brush Road between the Pacific Highway and the quarry entrance.

The second modification was granted on 15 December 2006 in response to an application for a change in the commencement date for the payment of a road maintenance contribution and a change to the rate of the contribution.

The third modification was granted on 12 December 2012 in response to an application extend the approval extraction area by 1 120m<sup>2</sup> to enable the recovery of weathered rock and to improve internal access and safety around the on-site weighbridge, workshops and processing area.



The fourth modification was granted on 1 April 2016 in response to an application for the second stage of the Quarry's operation and to further modify Development Consent DA283/91, specifically with respect to annual production levels. A copy of Development Consent 283/97 (Mod 4) is reproduced in **Appendix 1**.

The asphalt plant within the Quarry was separately approved by Greater Taree City Council on 25 July 2005. A copy of the Development Consent 1127/2005 is reproduced in **Appendix 1**. This development consent was modified on 18 November 2010 to allow night-time operations of the asphalt plant principally to meet the requirements of local infrastructure projects which can only be undertaken at night. *Conditions 10 to 14* of Development Consent 1127/2005 reflect this modification.

PBM received development consent (DA769/2009) from Greater Taree City Council on 16 July 2014 for its proposal to import, process and recycle concrete, brick, tile, asphalt and soil. A number of these products may be blended with the natural products extracted on site.

#### 1.4.2 Environment Protection Licence

The Possum Brush Quarry is also operated in accordance with EPL 3393 which covers both the extraction and processing activities and asphalt production. This licence is renewed annually with the anniversary date being 17 August.

During the reporting period, the EPA issued a new licence (i.e. on 26 May 2016 (**Appendix 1**)) in which the following variations were made to the licence.

- *Condition A2.1* was modified to update the premises description which better describes the new premises boundary, as defined within an aerial map provided to the EPA on 14/3/16.
- *Condition L4.3* amended the meteorological conditions under which noise conditions apply for consistency with the recent development modification.
- *Conditions L4.2 to L4.7, M4.1 and M7.1* amended the noise condition cross referencing.
- *Condition L5.5* amended the blast condition cross referencing.
- *Condition L5.7* added a blast fume condition to provide consistency with the industry sector.
- *Condition M7* was amended to make clear noise monitoring needs to occur during periods of "normal" operations.
- *Condition U1* removed the completed Pollution Reduction Program (PRP) - Noise Mitigation Investigation and Report.
- *Condition G2* added a table summarising the completed PRP works.

On 15 October 2015, The EPA notified PBM that the Possum Brush Quarry had been assigned a "Level 1" overall environmental risk level, i.e. the lowest risk level.

## 2. ACTIVITIES DURING THE REPORTING PERIOD

### 2.1 INTRODUCTION

Throughout the reporting period, the Quarry continued to supply its products to a number of construction projects, including from contractors working on the Pacific Highway upgrade and a number of local customers.

The asphalt plant which commenced production in December 2008, continued production throughout the reporting period, servicing a range of local infrastructure projects.

### 2.2 OVERVIEW OF ACTIVITIES DURING REPORTING PERIOD

During the 2015-2016 reporting period, a range of products, primarily for road construction, were again produced. These materials were sourced from both Area A and Area B.

**Figures 2.1** and **2.2** indicate the areas in which activities were undertaken during the reporting period both outside and within the Quarry Area. **Plates 1** to **8** show various features of the Quarry on 15 August 2016.

A total of 265 482.56 tonnes of quarry products and 20 693.19 tonnes of asphalt were despatched during the reporting period (see **Table 2.1**). The quarry products were produced from materials extracted comprising a combination of select material/weathered rock and fresh rock. The bulk of the weathered material was extracted from Area B.

**Table 2.1**  
**Annual Production during the Reporting Period (t)**

	2015-2016
Quarry Products (Truckloads)*	265 482.56 (11 026)
Asphalt (Truckloads)*	20 693.19 (1 140)
Recycled Products (Truckloads)*	678.04 (121)
* Note: The truckloads associated with the delivery of quarry products, asphalt and recycled products accounted for approximately 98% of all heavy vehicle movements to and from the Quarry – see Section 2.7	

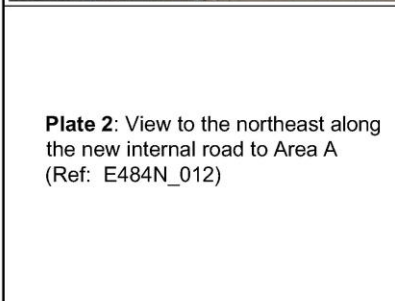
Extraction activities all occurred between 6:30am to 6:00pm on weekdays and 7:00am to 3:00pm on Saturdays, public holidays excluded (see **Appendix 2**).

There were no occasions during the reporting period when delivery or despatch of materials were requested by the Police or other authorities nor was there any emergency work undertaken to avoid the loss of lives, property and/or to prevent environmental harm.





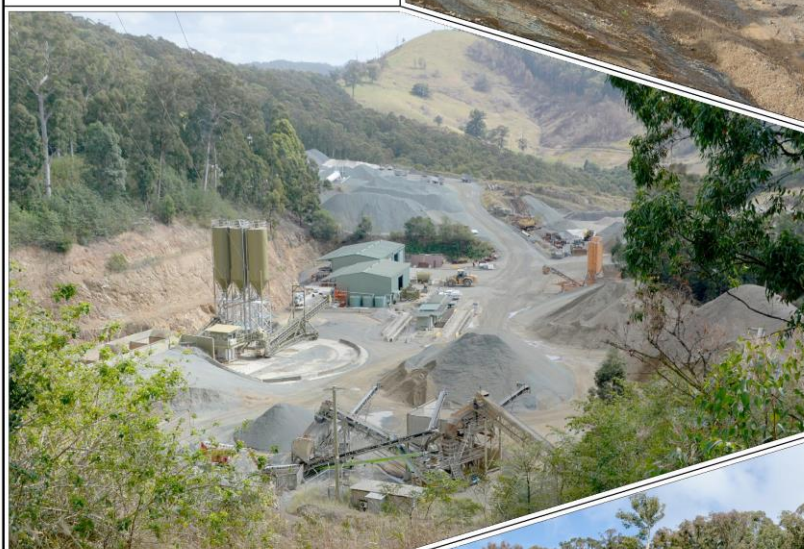
**Plate 1:** View to the east from Area B to Area A and the new internal road (Ref: E484N\_010)



**Plate 2:** View to the northeast along the new internal road to Area A (Ref: E484N\_012)



**Plate 3:** View to the west across the processing plant, wet mix plant, workshop and product stockpiles (Ref: E484N\_108)



**Plate 4:** View to the south towards the asphalt plant (Ref: E484N\_096)







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Mod-2015\CAD\484EA.dwg\_Plate 5-8-20.09.2016-2:41 PM

**Plate 5:** Oversize rock storage in Area A  
(Ref: E484N\_073)

**Plate 6:** Receival bays for materials to be recycled  
(Ref: E484N\_067)

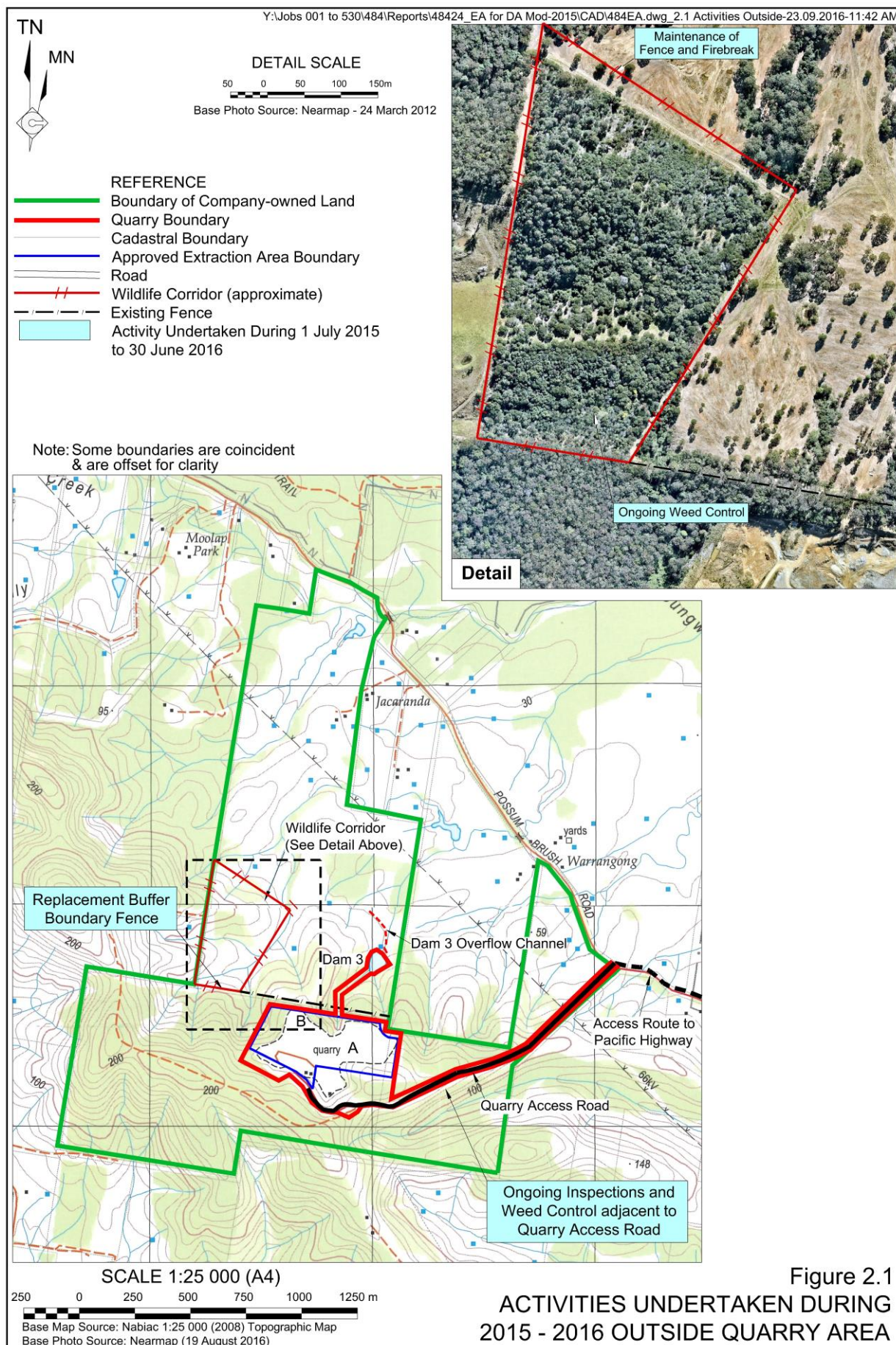


**Plate 7:** View to the east across Dam 3  
(Ref: E484N\_023)

**Plate 8:** View to the northeast along the eastern boundary of the Wildlife Corridor (on the left)  
(Ref: E484N\_037)









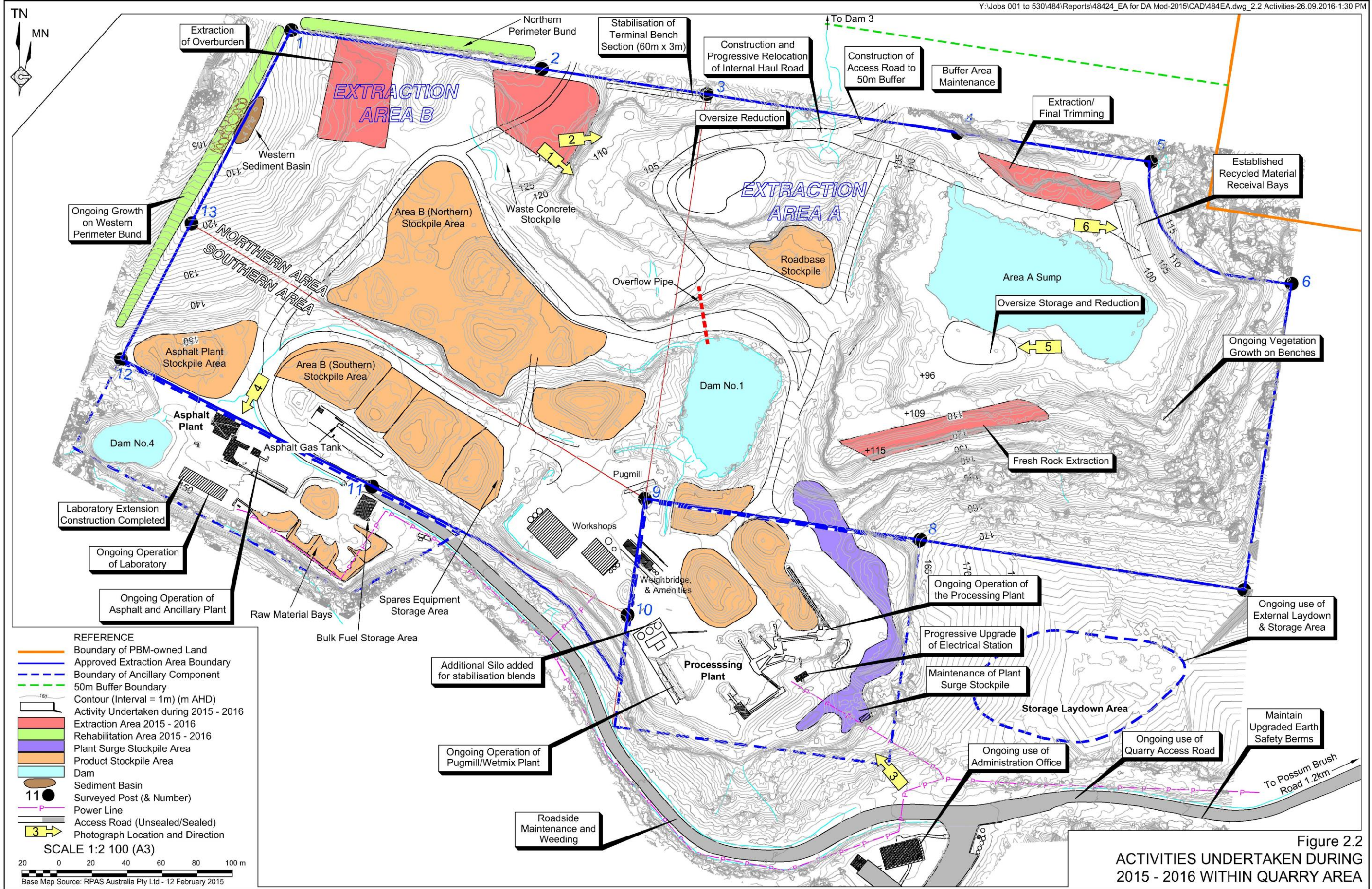


Figure 2.2  
ACTIVITIES UNDERTAKEN DURING  
2015 - 2016 WITHIN QUARRY AREA



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## 2.3 EXTRACTION ACTIVITIES

**Figure 2.2** displays the four locations within the approved extraction areas where materials were extracted during the reporting period.

1. A 2 150m<sup>2</sup> area on the western side of Area B where weathered rock was removed to a depth of approximately 115m AHD.
2. A 2 350m<sup>2</sup> area on the northern side of Area B, where predominantly fresh rock was extracted from 130m AHD to 110m AHD benches.
3. A 1 150m<sup>2</sup> area near the northern side of Area A in an area where PBM focussed upon trimming the northern extraction faces above 100m AHD; and
4. A 1 500m<sup>2</sup> area near the southern side of Area A between 120m and 100m AHD.

All extraction throughout the reporting period was undertaken by either ripping with excavators and bulldozers or drill and blast followed by load and haul. A total of one blast was initiated in Area A and five blasts initiated in Area B. **Table 2.2** presents a summary of the blasts initiated throughout the reporting period. Each blast typically generated approximately between 9 000t and 40 000t of fragmented rock.

**Table 2.2**  
**Summary of Blasts during the Reporting Period\***

Year	2015-2016
No. of Blasts	6
Time (range)	12:32pm – 2:15pm
Explosives (kg)	7 773 – 10 700
* See Section 2.11 for blast monitoring results.	

Details of all blasts during this period are presented in **Appendix 2 – Table 3**. All blasts were monitored, with a record of the results included in **Appendix 2 – Table 4** and **Table 2.5**. The results indicate that airblast overpressure and ground vibration levels of all blasts were within the guidelines outlined in DA283/97 Mod 3 *Condition 14* and DA283/97 Mod 4 *Condition 3(3)*. No complaints relating to blasting were received during the reporting period. A total of six residents who have previously requested notifications of blasts were notified prior to each blast being conducted via post, phone call or email (**Appendix 2 – Table 5** records the notifications).

Broken and fragmented rock suitable for processing was transported to the processing plant by off-road haul trucks. All oversize rock was either sold as armour rock or transported to protected areas within Area A or Area B for size reduction using a hydraulic hammer. Secondary breakage took place on the 100m AHD level in Area A for up to five days and 105m AHD level in Area B for one day.

## 2.4 PROCESSING ACTIVITIES

The ongoing demand for road pavement products and both concrete and asphalt aggregates continued throughout the reporting period, driven by ongoing road construction activities along the Pacific Highway. A substantial proportion of the road pavement materials were generated within the pugmill/wetmix given its superior quality control features (**Plate 3**).

Processing generally took place 6 days per week, typically starting at 7:30am and concluding at 5:00pm on a weekday and starting at the earliest at 7:30am and typically concluding at 12 noon on a Saturday. All maintenance was undertaken within the normal operating hours throughout the reporting period (see **Appendix 2**).

During the reporting period, PBM continued with the refurbishment and rationalisation of the existing plant to improve plant efficiencies and provide safer and more practical access around the plant.

Total sales of quarry products throughout 2015-2016 amounted to 265 482.56 tonnes. A copy of the 2014/2015 Extractive Industry Annual Return is provided in **Appendix 5**.

## 2.5 ASPHALT PRODUCTION

The production of asphalt commenced in December 2008. During the reporting period, a total of 20 693 tonnes of asphalt was despatched, an increase of 4 073 tonnes above that despatched in the 2014-2015 reporting period (**Plate 4**). During the reporting period, the asphalt plant was operated beyond the standard operating hours on:

- eleven mornings, i.e. typically for approximately 1.5 hours before the standard starting time; and
- twelve nights, typically for approximately 3 to 9 hours after 6:00pm (presented in **Appendix 2 – Table 1**).

The asphalt plant is approved to operate 24 hours per day from 6:30am Monday to 10:00pm Friday for up to 60 days per year to supply asphalt to community infrastructure projects requiring night-time deliveries of asphalt, a condition that was met throughout the reporting period.

## 2.6 RECYLED PRODUCTS OPERATIONS

During the reporting period, PBM commenced to import small quantities of concrete for reprocessing and blending with other quarry products. **Figure 2.2** displays the location of the recycled material receival bays established during the reporting period and **Plate 6** shows the materials stockpiled in this area. A total of 765.36 tonnes was imported until 30 June 2016 and a total of 678.04 tonnes of recycled materials were processed and despatched during the reporting period.

## 2.7 PRODUCT DESPATCH AND ROAD MAINTENANCE

**Table 2.1** lists the quantity of quarry products despatched during the reporting period, together with the corresponding number of truck loads. The bulk of the road construction materials were despatched to Pacific Highway upgrades and local Council projects. Gabion and oversize rock were also sold for use as rock lining/armouring and baskets.

**Table 2.3** lists the total number of heavy vehicle movements entering and departing the Quarry on a monthly basis throughout the reporting period. The heavy vehicle movements entering the Quarry are those associated with unladen trucks (for quarry products, asphalt and recycled

products and laden trucks delivering lime, diesel, gas and other consumables. The heavy vehicles departing the Quarry are those associated with laden trucks (for quarry products, asphalt and recycled products) and unladen trucks that have delivered lime, diesel, gas and other consumables. A comparison between heavy vehicle levels in **Tables 2.1** and **2.3** identifies that in 2015-2016, a total of 526 heavy vehicle movements (i.e. 25 100 – 24 574) were generated through the delivery of lime, diesel, gas and other consumables.

**Table 2.3**  
**Total Heavy Vehicle Movements\***

Month	Heavy Vehicle Movements	Month	Heavy Vehicle Movements
July 2015	3 186	January 2016	642
August 2015	2 414	February 2016	2 116
September 2015	3 228	March 2016	1 878
October 2015	1 990	April 2016	1 870
November 2015	3 020	May 2016	1 946
December 2015	1 428	June 2016	1 382
* Note: 1 load generates 2 movements			
Note: There are 11 heavy vehicles based at PBM, which usually results in the first 11 loads of each day being a single movements and the above figures do not reflect this situation. Each first load for each day has been incorporated as 2 movements (outbound only).			

**Table 2.4** lists the mean and maximum hourly and daily truck movements for the period 1 April 2016 to 30 June 2016, i.e. the period after which Development Consent DA283/97 Mod 4 was issued.

**Table 2.4**  
**Monthly Heavy Vehicle Movements\***

	Total	Hourly		Daily	
		Average	Peak	Average	Peak
April 2016	1 870	6.9	30 (07 Apr 2016) between 7:00am and 8:00am	78.6	164
May 2016	1 946	6.8	30 (10 May 2016) between 9:00am and 10:00am	78.5	138
June 2016	1 382	5.1	24 (30 Jun 2016) between 7:00am and 8:00am	58.1	134
* Note: 1 load generates 2 movements					
Note: There are 11 heavy vehicles based at PBM, which usually results in the first 11 loads of each day being a single movements and the above figures do not reflect this situation. Each first load for each day has been incorporated as 2 movements (outbound only).					

All product despatch activities were undertaken within the nominated hours outlined within Development Consent 283/97.

PBM continued to provide its quarterly report to Council detailing the loads passing over the weighbridge – in accordance with *Condition 19* of Development Consent 283/97 Mod 3. Monthly payments were also made to Council throughout the reporting period for the maintenance of Possum Brush Road in accordance with *Condition 36* of Development Consent 283/97 (see **Appendix 2 – Table 13**). A total of \$31,853.91 was paid to Council for the products despatched during the reporting period.

No asphalt was supplied from the Quarry to Council for maintenance of Possum Brush Road during the reporting period in accordance with *Condition 34* (see **Appendix 2 – Table 7**).

## 2.8 WASTE MANAGEMENT

PBM's approach to waste management is based upon three main principles, namely to:

1. minimise the quantity of waste generated;
2. maximise the quantity of waste recycled; and
3. effectively manage and correctly remove all waste from the Quarry.

The wastes generated within the Quarry include:

- domestic type wastes and workshop wastes that would be stored in approved containers and transported regularly to either a recycling facility or approved waste disposal facility;
- sullage wastes and septic wastes from staff amenities would be discharged into an approved septic tank with pump-out facilities; and
- stormwater potentially contaminated with petroleum products would continue to drain to a proprietary oil/water separator in the workshop from which clarified water would be allowed to drain to the sedimentation pond system. Oil-contaminated fluids will continue to be collected by a licensed recycling contractor for disposal.

The principal wastes collected for recycling on site comprised steel, waste oil, paper and cardboard, glass and aluminium containers.

## 2.9 REHABILITATION

Rehabilitation activities are undertaken within a range of areas within the Quarry through Irreplaceable Bush Regeneration Indigenous Services (IBIS). A record of the activities undertaken by IBIS is presented in **Appendix 6**.

### Quarry Access Road

Roadside vegetation maintenance and weed spraying continued throughout the reporting period, as required.

### Area A

Ongoing growth occurred of the vegetation on the southern extraction faces throughout the reporting period.

### Area B

The vegetation on the western perimeter bund continued to flourish during the reporting period.

### Wildlife Corridor

During the reporting period, considerable effort was again expended within the Wildlife Corridor (see **Figure 2.1**) principally through primary and secondary weed control operations.

During the 2015-2016 reporting period, the fencing around parts of the corridor was maintained (see **Plate 8**) and secondary weeding continued to be undertaken by Tim Wray of IBIS. The ongoing suppression of the lantana within the corridor is almost complete which has allowed the increased use of the corridor by native animals.

### 50m Buffer Zone

Primary and secondary weeding continued within the buffer zone during the reporting period. The densities of the two major weeds within the buffer zone, Lantana and White Passionfruit, were further reduced within the buffer zone during the reporting period.

## 2.10 FIRE MANAGEMENT

PBM continued to adopt the following fire controls, previously established with the Rural Fire Service.

- Storage of tyres in clear open areas. Maintain weed control around tyre storage.
- Ensure all drums of hydrocarbons are kept within bunded areas.
- Ensure fire trucks have access to Dam 1 for refilling purposes (maintained at all times – not required during the reporting period).

Burning off was undertaken on two occasions during the reporting period, namely soon after 15 October 2015 and 24 February 2016, i.e. the dates that neighbours were informed about the proposed burnoffs.

The Council's Fire Control Officer has previously accepted that hazard reduction burning and construction of fire breaks around much of the Quarry is not practical due to environmental constraints and the ruggedness of the terrain.

PBM has also undertaken regular fire inspections with North Coast Fire to discuss fire protection matters with Quarry staff, with North Coast Fire attending the Quarry on three occasions during the reporting period.

## 2.11 ENVIRONMENTAL MONITORING

### Blasting

A full record of the six blasts initiated during the reporting period including monitoring records of airblast and ground vibration were maintained and are presented within **Table 2.5**. All blasts were monitored at Residences R1 (5 St Peters Close) and R2 (175 Possum Brush Road) (see **Figure 1.1**) and were within the airblast overpressure and ground vibration criteria nominated within EPL 3393.

**Table 2.5**  
**Blast Monitoring Results: 2015-2016**

Date	Airblast Overpressure dB(L)	Ground Vibration mm/s
<b>Location: 175 Possum Brush Road</b>		
29 July 2015	105.2	0.67
11 September 2015	103.7	0.24
10 November 2015	102.0	0.25
29 January 2016	111.3	0.51
1 April 2016	107.8	0.33
24 June 2016	<108*	<0.37*
<b>Location: 5 St Peters Close</b>		
29 July 2015	105.5	1.08
11 September 2015	99.9	1.45
10 November 2015	104.2	2.66
29 January 2016	101.0	1.74
1 April 2016	98.8	1.00
24 June 2016	101.0	1.40

Airblast levels recorded at Residence 1 ranged from 98.8dB(L) to 105.5dB(L) with recorded ground vibration levels varying from 1.00mm/s to 2.66mm/s. Airblast levels recorded at Residence 2 ranged from no trigger to 111.3dB(L) with recorded ground vibration levels varying from no trigger to 0.67mm/s. No complaints were received regarding blasting throughout the reporting period.

### Weather Data

Monitoring of rainfall levels is undertaken at the Quarry with results presented in **Appendix 2 – Table 9**. Rainfall recorded during the reporting period was 1 281.5mm, approximately 110.5mm above the average annual rainfall for local area.

PBM relies upon the weather station established at the Failford Quarry for other weather data.

### Water Quality

Dam 3 overflowed on two days during the reporting period, i.e. at the location at which monitoring is required to be undertaken in accordance with EPL *Condition P1.3* (see **Appendix 2 – Table 8**). **Table 2.6** lists the water quality results from the monitoring of overflow from Dam 3 during the reporting period. There was no visible oil and grease observed at the time of sampling.

**Table 2.6**  
**Surface Water Quality Results – Dam 3 Overflow**

Date	pH	TSS*	Oil or Grease
05/01/16	7.6	7	Not Visible
06/06/16	7.6	32	Not Visible
* TSS = Total Suspended Solids			
Source: <b>Appendix 2 – Table 8</b>			

Both pH and TSS levels were within the limits nominated in EPL 3393.

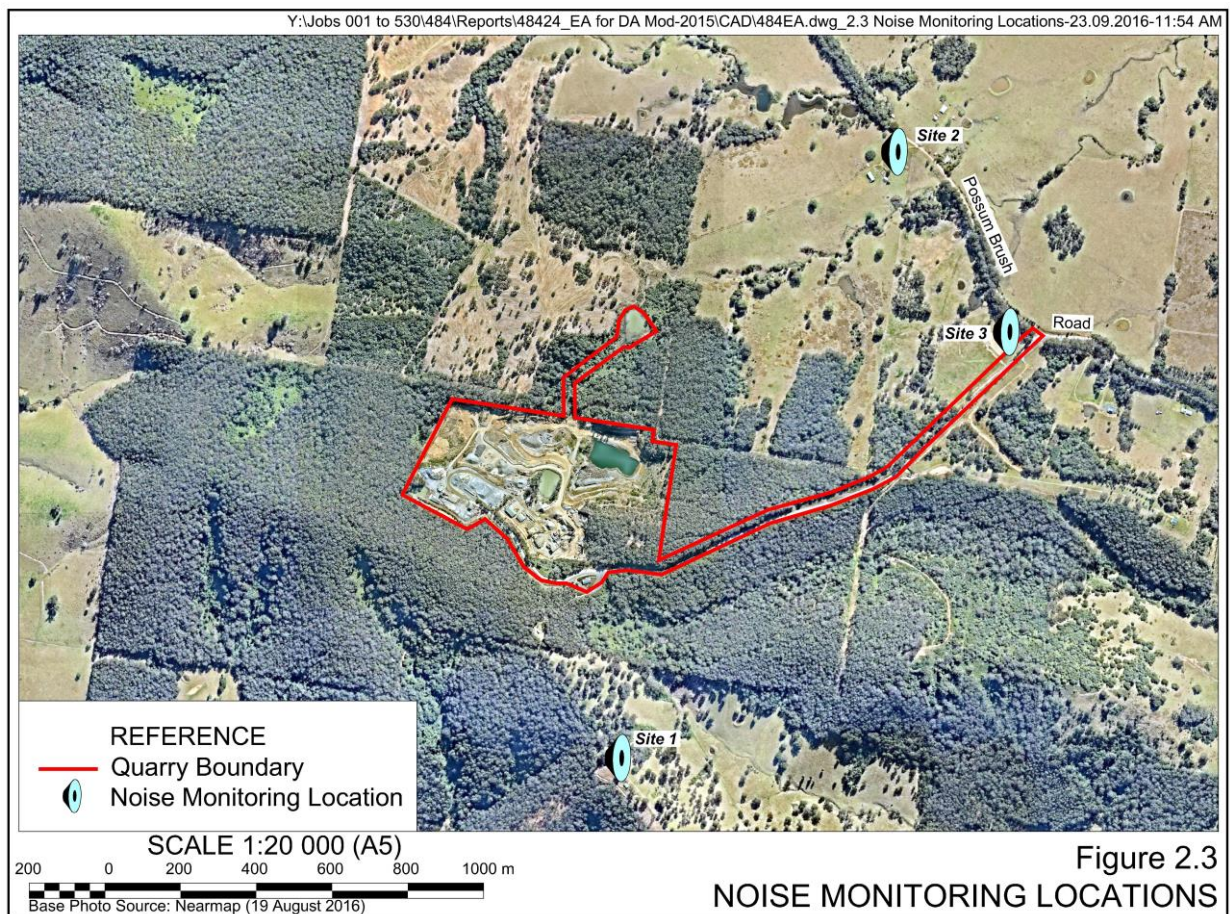


## Noise

Noise monitoring was undertaken on three occasions within the reporting period, namely on 17 September 2015, 20 October 2015 and 24 November 2015 with the results forwarded to the EPA and Council. All monitoring was undertaken at three locations (see **Figure 2.3**).

- Site 1: 5 St Peters Close;
- Site 2: 175 Possum Brush Road; and
- Site 3: 55 Possum Brush Road.

The noise monitoring results are presented in **Appendix 4**.



Spectrum Acoustics monitored noise levels for 15 minutes duration on 17 September 2015 commencing at 4:55pm. During the monitoring period, activities within the Quarry were inaudible at Site 1 and 3 and were 25dB(A) at Site 2. At all sites, the insects/birds/frogs and distant traffic (on the Pacific Highway) were the main contributors to the noise levels recorded and at Site 1 the water pump was recorded at 33dB(A).

Spectrum Acoustics monitored noise levels for 15 minutes on 20 October 2015 commencing at approximately 6:00am, during a period when the asphalt plant was operational until 6:30am when Quarry activities commenced. At Site 1, activities within the Quarry were barely audible with the noise associated with trucks on the access road. At Site 2 and 3, activities within the Quarry were inaudible. At all sites, the insects/birds/frogs and distant traffic (on the Pacific Highway) were the main contributors to the noise levels recorded.

Spectrum Acoustics monitored noise levels for 15 minutes on 24 November 2015 commencing at approximately 6:00pm during a period when the asphalt plant was operational and coinciding with asphalt trucks departing from the plant. Again, other noises dominated the measured noise levels with the calculated contribution to the Quarry activities at Site 1 being 26dB(A), Site 2 and 3 being inaudible. Again, at all sites, the insects/birds/frogs and distant traffic (on the Pacific Highway) were the main contributors to the noise levels recorded.

While it was noted that quarry truck movements on the quarry access road were audible at 5 St Peters Close, the monitored noise results established that the noise levels recorded at each of the three locations were below the limits nominated in EPL 3393.

### Asphalt Plant Emissions

The emissions testing of total particulates from the asphalt plant was undertaken in December 2008 and established that the concentration measured  $3.8\text{mg/m}^3$ , i.e. well below the  $50\text{mg/m}^3$  limit specified in the POEO Clean Air Regulation 2002. No testing was undertaken, nor required, during the reporting period.

### Weeds

Visual inspections and monitoring of weeds within the 50m Buffer Zone and Wildlife Corridor was undertaken, as well as primary weeding activities completed by and reported upon by Mr Tim Wray of Irreplaceable Bush Regeneration Indigenous Services Pty Ltd (IBIS).

## 2.12 EFFECTIVENESS OF ENVIRONMENTAL MANAGEMENT

Within the Quarry Site itself, the standard of environmental management has remained high with an excellent standard of housekeeping. Such standards, and the compliant monitoring results, reflect that the adopted environmental controls set out in the Environment Management Plan are effective. It is similarly noted that the EIS objectives were adequately satisfied throughout the reporting period.

Ongoing management of transport-related issues raised in previous reporting periods has continued to address potential noise and traffic related issues to acceptable standards.

## 2.13 COMMUNITY RELATIONS

One complaint was received during the 2015-2016 reporting period regarding squealing brakes. The record of the complaint and relevant response documentation are presented in the Complaints Register (**Appendix 2 – Tables 11 and 12**).

It remains PBM's preference that local residents contact the Quarry Manager directly in the event of a complaint rather than approaching the EPA. This approach would assist PBM to be more responsive to specific complaints.

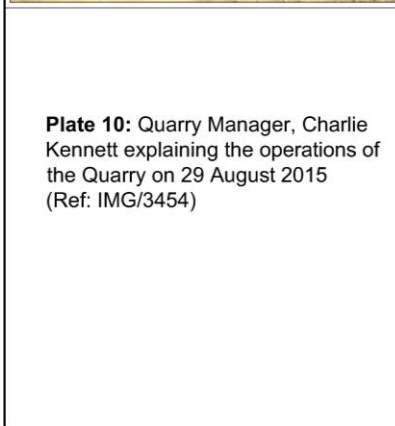
PBM hosted an open day at the Quarry on Saturday 29 August 2015 for interested members of the local community to inspect the Quarry. A total of 28 persons attended the open day which proved to be an informative day for those who attended. PBM received positive feedback from most of those in attendance.

**Plates 9 and 10** display a number of the community members present during the open day.





**Plate 9:** Community members present during the Open Day on 29 August 2015 (Ref: IMG/3450)



**Plate 10:** Quarry Manager, Charlie Kennett explaining the operations of the Quarry on 29 August 2015 (Ref: IMG/3454)



Two meetings of the Community Consultative Committee were held during the 2015-2016 reporting period namely, on 2 September 2015 and 14 December 2015. A copy of the records of meeting minutes are reproduced in **Appendix 3**.

## 2.14 COMPLIANCE STATUS

### 2.14.1 Introduction

**Appendix 1** presents Development Consents 283/97 (Mod 3 – 1 July 2015 to 31 March 2016) (Mod 4 – 1 April 2016 to 30 June 2016), 1127/2005 and 769/2009 and Environment Protection Licence 3393 held by PBM in relation to the Quarry. **Appendix 1** also presents five tables paraphrasing the conditions contained within the above documents, together with a record of compliance and a brief comment recording the basis for assessing compliance or non-compliance. It is noted that the assessment of compliance has been recorded as follows.

Yes	Compliance fully achieved during the period 1 July 2015 to 30 June 2016.
Yes*	Compliance achieved and no longer required – invariably related to start-up and/or commencement activities.
No	Compliance not achieved during the period 1 July 2015 to 30 June 2016.
Not Yet Applicable (NYA)	Compliance not yet applicable – although the requirements will need to be satisfied at some future date.
Not Applicable (NA)	Compliance not applicable during the reporting period.
Not Determined (ND)	Invariably insufficient information was available to assess compliance.

**Table 2.7** presents a summary of the assessment of compliance for all conditional requirements included in development consents issued for the Quarry and Asphalt Plant and EPL 3393.

**Table 2.7**  
**Summary of Assessment of Compliance**  
**Possum Brush Quarry and Asphalt Plant**

Status of Compliance	Possum Brush Quarry (DA 283/97)		Possum Brush Asphalt Plant (DA 1127/2005)	Possum Brush Recycling Plant (DA 769/2009)	EPL 3393
	Mod 3	Mod 4			
Yes	<u>58</u>	<u>51</u>	<u>10</u>	<u>9</u>	<u>71</u>
No	<u>2</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>1</u>
NYA	<u>1</u>	<u>34</u>	<u>0</u>	<u>4</u>	<u>6</u>
NA	<u>7</u>	<u>11</u>	<u>3</u>	<u>2</u>	<u>13</u>
ND	<u>0</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>4</u>
Noted	<u>0</u>	<u>4</u>	<u>0</u>	<u>0</u>	<u>14</u>
<b>Total</b>	<b><u>68</u></b>	<b><u>101</u></b>	<b><u>13</u></b>	<b><u>15</u></b>	<b><u>109</u></b>

#### 2.14.2 Development Consent for Possum Brush Quarry

**Table A1.1** shows that all conditions except two conditions in DA283/97 Mod 3 were complied with during the period 1 July 2015 to 31 March 2016. The non-compliant conditions related to the arrival of two trucks delivering flyash for the asphalt plant which passed through the entrance gate off Possum Brush Road on a Saturday 5 minutes and 15 minutes before the 6:45am entry time.

**Table A1.2** shows that all conditions in DA283/97 Mod 4 were complied with during the period 1 April 2016 to 30 June 2016.

#### 2.14.3 Development Consent for the Construction and Operation of the Asphalt Plant

**Table A1.3** shows that all relevant conditions were complied with during the reporting period.

#### 2.14.4 Development and Operation of the Recycling Plant

All relevant conditions of this consent were complied with during reporting period. A number of conditions will be activated during 2016-2017.

#### 2.14.5 Environment Protection Licence

All relevant conditions of EPL 3393 except one condition were complied with during the reporting period. The non-compliant condition related to the arrival of two trucks delivering flyash for the asphalt plant on a Saturday 5 minutes and 15 minutes before the 6:45am entry time.

### 3. ACTIVITIES PLANNED DURING 2016-2017

#### 3.1 INTRODUCTION

This section covers the planned activities during the period from 1 July 2016 to 30 June 2017.

#### 3.2 OVERVIEW OF ACTIVITIES AND TARGETS PLANNED DURING 2016-2017

The principal activities planned during 2016-2017 are listed in **Table 3.1** and their locations of these activities are shown on **Figures 3.1** and **3.2**.

**Table 3.1**  
**Possum Brush Quarry**  
**Activities Planned During 2016-2017**

Component Area	Activity
Areas A & B	Ongoing extraction of primarily fresh rock and some weathered rock.
Processing Plant	Ongoing operation of the existing processing plant and pugmill/wetmix plant.
Recycling	Ongoing acceptance, stockpiling and processing of approved waste materials.
Asphalt Plant	Ongoing operation of the asphalt plant.
Product Despatch	Ongoing transportation of quarry products, asphalt and recycled materials.
Rehabilitation	Ongoing finalisation and revegetation of quarry benches in Area A and B. Ongoing weed control and revegetation of the 50m buffer and the Wildlife Corridor, as required.

#### 3.3 EXTRACTION ACTIVITIES

PBM expects the demand for roadbase products will continue during 2016-2017, particularly given the high quality of products produced within the pugmill/wetmix plant. Fresh rock reserves will be removed from both extraction faces in Areas A and B with sufficient weathered rock extracted for blending with the fresh rock for the required products.

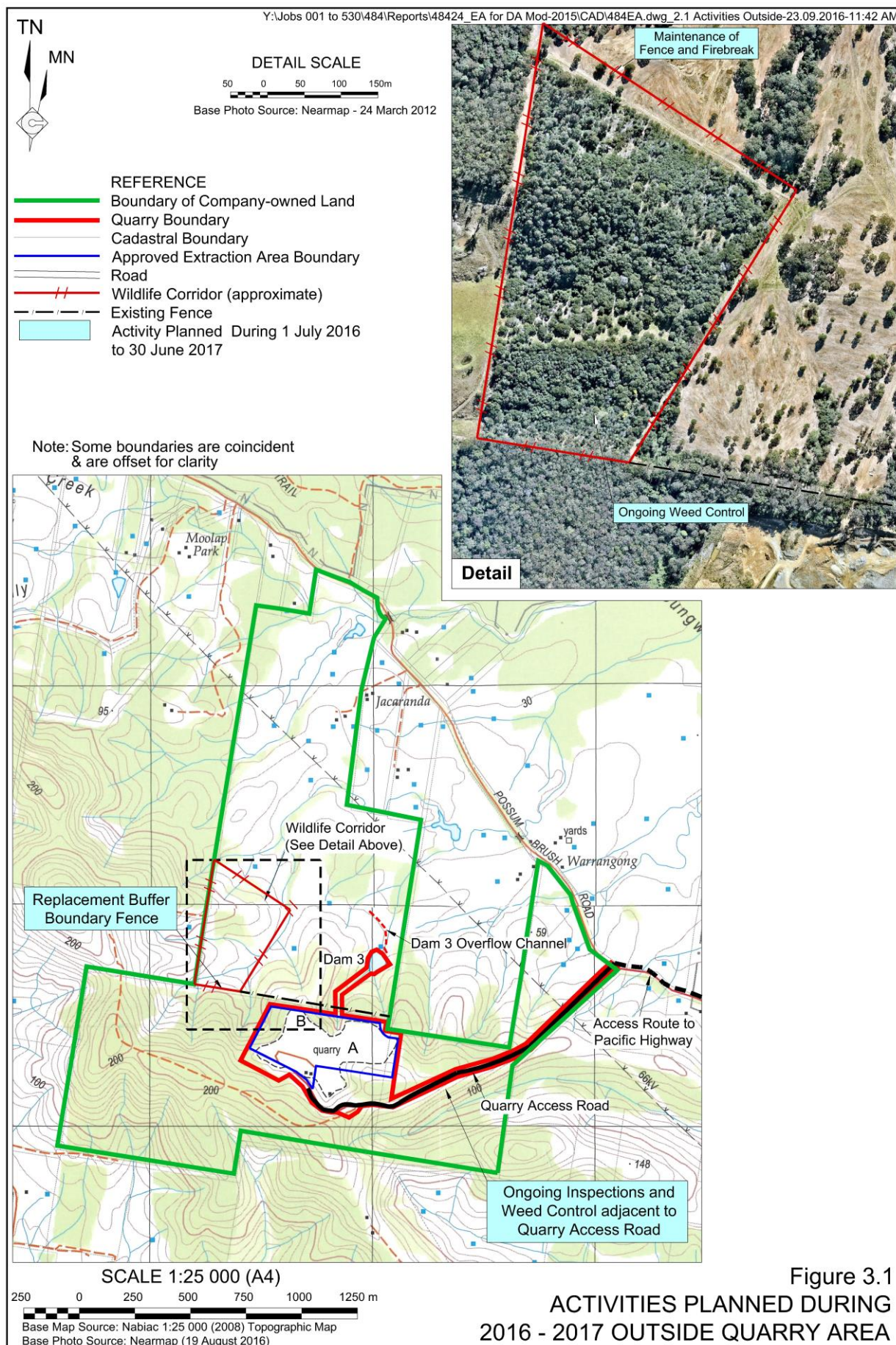
Extraction will focus in the area straddling the boundary between Areas A and B with a continued emphasis placed upon creating an improved (and safer) internal haul road from the lower sections of Area A to the processing plant.

#### 3.4 PROCESSING ACTIVITIES

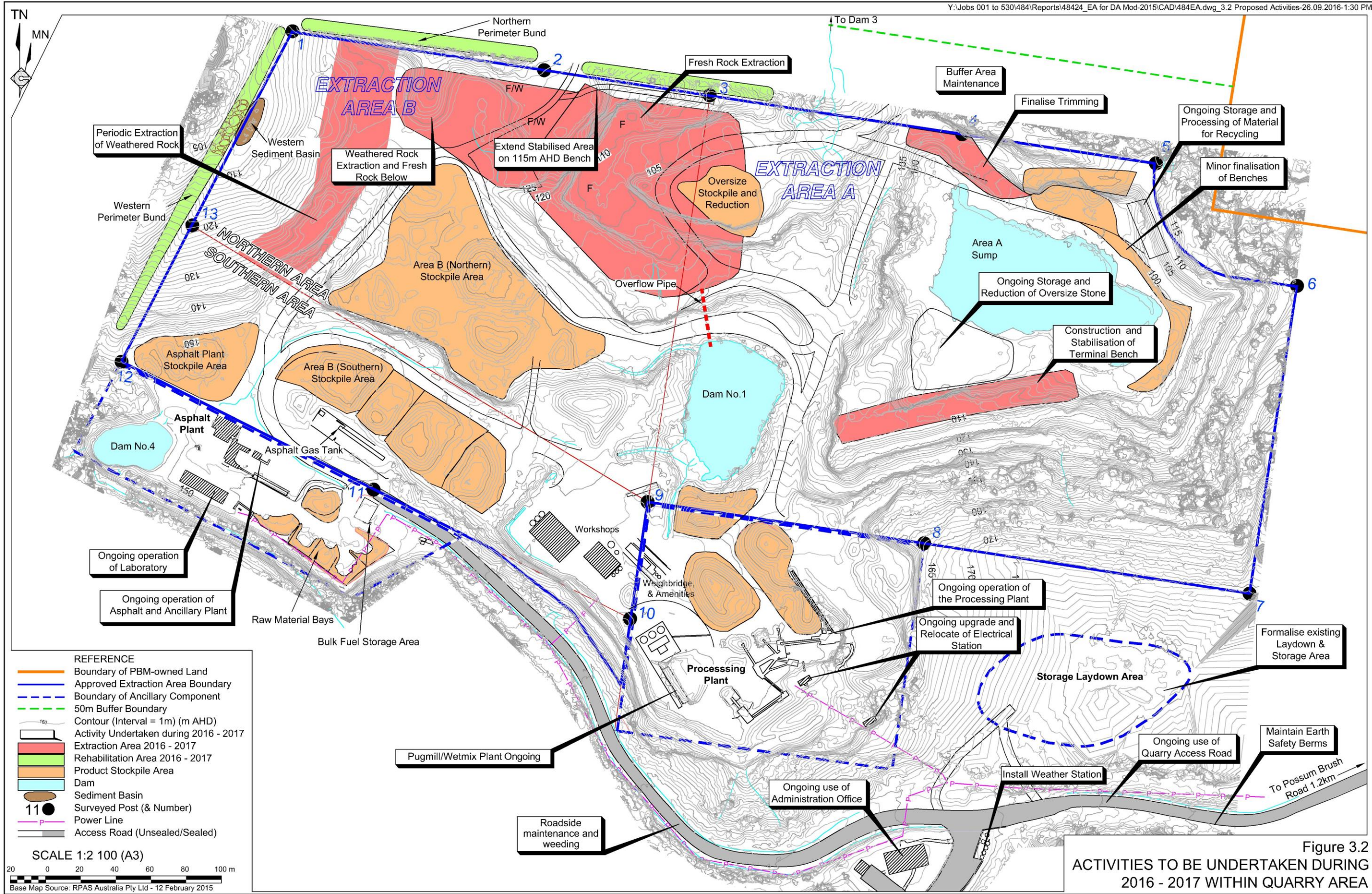
PBM will continue to use the refurbished processing plant and pugmill/wetmix plant to produce its products.

The progressive upgrade of the electrical substation will also continue to be undertaken throughout the 2016-2017 reporting period.











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### **3.5 ASPHALT PRODUCTION**

PBM intends to continue to operate the asphalt plant, at a similar output level to that produced during 2015-2016 reporting period, to supply asphalt products to a range of projects throughout the region.

### **3.6 PRODUCT DESPATCH AND ROAD MAINTENANCE**

No substantial changes are planned to occur in the haulage of products from the Quarry during 2016-2017.

Road maintenance along the subject section of Possum Brush Road would be undertaken, as required during 2016-2017. PBM would draw Council's attention to any areas requiring maintenance along Possum Brush Road.

### **3.7 REHABILITATION**

Continued weeding and maintenance of trees planted within both the 50m buffer and wildlife corridor will take place during 2016-2017. The completed batters in Area A will be revegetated primarily through natural regeneration and the continued construction of the western perimeter bund in Area B.

### **3.8 ENVIRONMENTAL MONITORING**

The monitoring activities currently undertaken within and surrounding the Quarry will remain in place throughout 2016-2017. The monitoring proposed in 2016-2017 will include:

- blast monitoring (each blast);
- monitoring rainfall levels (daily);
- deposited dust monitoring;
- water quality overflow from Dam 3 (if it occurs);
- noise monitoring in accordance with the Development Consent DA283/97 Mod 4 and EPL 3393 conditions; and
- weather-related monitoring following the installation of a new weather station.

PBM proposes to continue to review all monitoring results as they are received to ensure the measured parameters are within the relevant limits or criteria. All monitoring results collected during 2016-2017 will be assembled in conjunction with all previous relevant results to provide the basis for an ongoing review of the environmental performance of the Quarry.

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# Appendices

(Total No. of pages including blank pages = 214)

## Appendix 1: Development Consents and Environment Protection Licence (130 pages)

### Part 1: Copies of Consents and Environment Protection Licence

Possum Brush Quarry Development Consent DA 283/97 (Mod 3)  
Possum Brush Quarry Development Consent DA 283/97 (Mod 4)  
Asphalt Plant Development Consent DA 1127/2005  
Recycling Plant Development Consent DA 769/2009  
Environment Protection Licence 3393

### Part 2: Compliance Tables

Table A1.1	Compliance with Development Consent for Operation of Possum Brush Quarry – Period 1 July 2015 to 31 March 2016
Table A1.2	Compliance with Development Consent for Operation of Possum Brush Quarry – Period 1 April 2016 to 30 June 2016
Table A1.3	Compliance for Development and Operation of Asphalt Plant DA 1127/2005 – Period 1 July 2015 to 30 June 2016
Table A1.4	Compliance for Development and Operation of Recycling Plant DA 769/2009 – Period 1 July 2015 to 30 June 2016
Table A1.5	Compliance for Environment Protection Licence 3393 – Period 1 July 2015 to 30 June 2016

## Appendix 2: Records (40 pages)

Table 1	Record of Hours of Operations
Table 2	Record of Extended Hours of Operations
Table 3	Record of Blasts
Table 4	Blast Monitoring and Complaints
Table 5	Notification of Proposed Blasts to Residents within 2km
Table 6	Record of Secondary Breakage of Oversized Blocks
Table 7	Supply of Materials for Road Maintenance
Table 8	Record of Monitoring
Table 9	Rainfall Recorded
Table 10	Record of On-site Environmental Studies/Inspections
Table 11	Complaints Register
Table 12	Complaints Record Sheets and Complaints
Table 13	Record of Contributions for Maintenance of Possum Brush Road

## Appendix 3: Minutes of Community Consultative Committee Meetings (8 pages)

## Appendix 4: Noise Monitoring Reports – October 2015 and November 2015 (12 pages)

## Appendix 5: Return for Extractive Material (2014-2015) (4 pages)

## Appendix 6: Regeneration Activities Report – 2015/2016 (18 pages)



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# Appendix 1

## Development Consents and Environment Protection Licence\*

(Total No. of pages including blank pages = 130)

- Operation of Possum Brush Quarry: Development Consent DA283/97 – Mod 3  
(Issued by Minister for Planning on 25 May 1998)
  - Operation of Possum Brush Quarry: Development Consent DA283/97 – Mod 4  
(Issued by Minister for Planning on 1 April 2016)
  - Development and Operation of Asphalt Plant: Development Consent DA 1127/2005  
(Issued by Greater Taree City Council on 25 July 2005)
  - Development and Operation of Recycling Plant: Development Consent DA769/2009  
(Issued by Greater Taree City Council on 18 July 2014)
  - Environment Protection Licence 3393: Anniversary Date – 17 August  
(Issued by Environment Protection Authority)
- 
- Table A1.1 Compliance with Development Consent for Operation of Possum Brush  
Quarry – Period 1 July 2015 to 31 March 2016
  - Table A1.2 Compliance with Development Consent for Operation of Possum Brush  
Quarry – Period 1 April 2016 to 30 June 2016
  - Table A1.3 Compliance for Development and Operation of Asphalt Plant DA  
1127/2005 – Period 1 July 2015 to 30 June 2016
  - Table A1.4 Compliance for Development and Operation of Recycling Plant  
DA 769/2009 – Period 1 July 2015 to 30 June 2016
  - Table A1.5 Compliance for Environment Protection Licence 3393 – Period 1 July 2015 to  
30 June 2016

\* Available on USB or for perusal at the Quarry Administration Office during office hours.



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## Planning & Infrastructure

### Mining & Industry Projects

Phone: (02) 9228 6587  
Fax: (02) 9228 6466  
Email: [paul.freeman@planning.nsw.gov.au](mailto:paul.freeman@planning.nsw.gov.au)

Our Ref: N96/00196

Mr Charles Kennett  
Pacific Blue Metal Pty Limited  
PO Box 6  
NABIAC NSW 2312

Dear Mr Kennett,

### Possum Brush Quarry Modification (DA 283/97 MOD 3) Notice of Determination

I wish to advise you that on 12 December 2012, the Director, Mining and Industry Projects, as delegate for the Minister for Planning and Infrastructure, approved the modification application for the Possum Brush Quarry (DA 283/97 MOD 3) under Section 75W of the Environmental Planning and Assessment Act 1979.

The Notice of Modification and Consolidated Consent are attached for your information. These documents and the Department's assessment report are also available from the Department's website at <http://majorprojects.planning.nsw.gov.au/page/determinations/>.

If you wish to discuss this matter further, please contact Sophie Butcher.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Paul Freeman', with the date '13-12-12' written next to it.

Paul Freeman  
**Senior Planner**  
**Mining Projects**

Cc: Arinna Fotheringham  
Greater Taree City Council

# Notice of Modification

## Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning and Infrastructure, I modify the development consent referred to in Schedule 1, subject to the conditions in Schedule 2.

David Kitto  
Director, Mining and Industry Projects

Sydney 12 DECEMBER 2012

---

### SCHEDULE 1

The Development Consent for the Possum Brush Quarry, granted by the Minister for Urban Affairs and Planning on 25 May 1998 (DA 283/97).

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### SCHEDULE 2

1. Delete condition 1 of Schedule 2, and replace with the following:

1. The development is to be carried out generally in accordance with the:
  - (a) Development Application 283/97 lodged with Greater Taree City Council on 12 September 1997, and accompanying Environmental Impact Statement prepared by ERM Mitchell McCotter dated September 1997;
  - (b) modification application MOD 52-7-2002, dated 18 July 2002;
  - (c) modification application MOD 105-8-2006, dated 29 August 2006;
  - (d) modification application DA 283/97 MOD 3 and accompanying Environmental Assessment titled "Environmental Assessment for An Additional Minor Area of Extraction at the Possum Brush Quarry", prepared by R W Corkery and Co Pty Limited and dated November 2012; and
  - (e) conditions of this consent.

*Note: This Consent allows for continued quarrying activities in Area A (as shown in Figure 1); processing and related activities in the vicinity of the processing plant; product stockpiling in the Southern Stage of Area B (as shown in Figure 1) and product transportation; as set out in the applications and associated documents listed above, except as varied by the conditions imposed in this consent.*



ENVIRONMENTAL PLANNING AND ASSESSMENT ACT 1979

**DETERMINATION OF DEVELOPMENT APPLICATION UNDER  
SECTIONS 89, 91AB AND 101(08) OF THE ACT**

I, the Minister for Urban Affairs and Planning, under sections 89, 91AB and 101(8) of the Environmental Planning and Assessment Act 1979 ('the Act') determine the development application referred to in Schedule 1 by granting consent to that application subject to the conditions set out in Schedule 2.

The reason for the imposition of conditions generally is to minimise any adverse effects from the development, consistent with the objectives of the Act. These conditions are listed in Schedule 2.

Craig Knowles MP  
**Minister for Urban Affairs and Planning**  
**Minister for Housing**

Sydney, 25 May 1998

File No: N96/00196

---

**SCHEDULE 1**

<b>Application made by:</b>	Pacific Blue Metal Pty Ltd
<b>To:</b>	Greater Taree City Council
<b>In respect of:</b>	Lot 109 DP 753195, Lot 3 DP 701903 and Lot 66 DP 608957, 113/115 Possum Brush Road, Possum Brush, Greater Taree City
<b>For the following:</b>	Expansion of existing hard rock quarry
<b>Development Application:</b>	Development Application No. 283/97 lodged with Greater Taree City Council on 12 September 1997, accompanied by an Environmental Impact Statement prepared by ERM Mitchel McCotter dated September 1997

Ministerial direction issued under section 101 of the Act on 14 November 1997, directing Greater Taree City Council to refer the development application to the Secretary of the Department of Urban Affairs and Planning

**Determination:**

(1) To ascertain the date upon which this consent becomes effective, refer to section 101(9)(b) of the Act;

(2) To ascertain the date upon which this consent lapses, refer to section 99 of the Act.

(3) Section 101(9)(a) of the Act provides that the Minister's determination shall be final and that the provisions of sections 97 and 98 shall not apply to or in respect of the determination.

MOD 1 in green type

MOD 2 in blue Type

MOD 3 in red type

## **SCHEDULE 2**

### **CONDITIONS OF DEVELOPMENT CONSENT**

#### **LIST OF ABBREVIATIONS**

The Applicant.....	Pacific Blue Metal Pty Ltd
Council.....	Greater Taree City Council
The Department.....	The Department of Urban Affairs and Planning
The Director-General.....	Director-General of the Department of Urban Affairs and Planning
DLWC.....	Department of Land and Water Conservation
EPA.....	Environment Protection Authority
NPWS.....	National Parks and Wildlife Service

#### **GENERAL**

1. The development is to be carried out generally in accordance with:
  - (a) the Development Application 283/97 lodged with Greater Taree City Council on 12 September 1997, and accompanying Environmental Impact Statement prepared by ERM Mitchell McCotter dated September 1997;
  - (b) modification application MOD 52-7-2002, dated 18 July 2002;
  - (c) modification application MOD 105-8-2006, dated 29 August 2006;
  - (d) modification application DA 283/97 MOD 3 and accompanying Environmental Assessment titled "*Environmental Assessment for An Additional Minor Area of Extraction at the Possum Brush Quarry*", prepared by R W Corkery and Co Pty Limited and dated November 2012; and
  - (e) the conditions of this consent.

*Note: This Consent allows for continued quarrying activities in Area A (as shown in Figure 1 attached); processing and related activities in the vicinity of the processing plant; product stockpiling in the Southern Stage of Area B (as shown in Figure 1 attached); and product transportation, except as varied by the conditions imposed in this consent.*

2. In accordance with section 91AB(1)(c) of the EP&A Act, this consent is issued for Stage 1 of the development. Stage 1 comprises the first 21 years of quarrying activity on the site following the issue of this consent.
3. In accordance with section 91AB(2) of the EP&A Act, a further consent shall be obtained for Stage 2 of the development. Stage 2 comprises the subsequent 29 years of quarrying activity on the site.
4. A consent granted in accordance with Condition No. 3 does not require a further development application under section 77 of the EP&A Act. However, any such

consent will be subject to the Applicant preparing a report(s) on the environmental performance of Stage 1 of the development and additional information relating to proposed Stage 2 operations. The report(s) is to be prepared to the satisfaction of the Director-General and shall be made publicly available. Any public submissions received in response to the report(s) shall be taken into consideration prior to the granting of a consent for Stage 2 of the development.

5. Following the cessation of the 29 year period referred to Condition No. 3, a new DA will need to be lodged to enable continued quarrying activity on the site.

#### **SURRENDER OF CONSENT**

6. Pursuant to Section 91(7) of the Environmental Planning and Assessment Act 1979 and Clause 80 of the Environmental Planning and Assessment Regulation 1994, the Applicant shall within one week of the granting of this consent, surrender to the Minister for Urban Affairs and Planning the consent for DA No. 431/1986 issued on 23 September 1987 by the Land and Environment Court for the use of Lot 3 DP 701903 and Lot 66 DP 608967 and Portion 109 or the Parish of Talawahl for the establishment of a hard rock quarry and crushing plant.
7. During Stage 1 of the development:
  - (i) extraction shall be confined to Area A and the area known as the Northern Stage in Area B, as shown in Figure 1 attached,
  - (ii) extraction sequences shall generally follow Figures 2 and 3 attached or as modified by the EMP referred in Condition No. 27, and
  - (iii) the depth of extraction shall be restricted to AHD 90m,

unless otherwise approved by the Director-General.

Nothing in this condition affects extraction sequence and depth during Stage 2 of the development. Any restrictions on extraction sequence and depth during Stage 2 are to be determined prior to the issuing of any consent in accordance with Condition No. 3.

#### **STATUTORY REQUIREMENTS**

8. The Applicant shall ensure that all statutory requirements including but not restricted to those set down by the Local Government Act 1993, Pollution Control Act 1970, Clear Air Act 1961, Clean Water Act 1970, Noise Control Act 1975, Protection of the Environment Administration Act 1991, and all other relevant legislation, Regulations, Australian Standards, Codes, Guidelines and Notices, Conditions, Directions, Notices and Requirements issued pursuant to statutory powers by the Greater Taree City Council (Council), Environment Protection Authority (EPA), Department of Mineral Resources (DMR), National Parks and Wildlife Service (NPWS), Department of Land and Water Conservation (DLWC) and Roads and Traffic Authority (RTA) are fully met.

## WORKING HOURS

9. The Applicant shall undertake all works at the quarry site within the hours specified in (a) to (d) below:
- (a) 6:30am to 6:00pm Monday to Friday and 7:00am to 3:00pm Saturday;
  - (b) 6:00am to 9:00pm Monday to Saturday for maintenance of equipment strictly in the plant and workshop areas. All maintenance outside approved working hours shall be inaudible at any residence (other than the one owned by the Applicant).
  - (c) No trucks used for the transport of product are to enter the site prior to 6:15am Monday to Friday and 6:45am Saturday. In respect to unloaded trucks entering the site, the Applicant shall erect a gate across the site access road 200 m from the product stockpile area, or in another location agreed by Council, which shall not be opened to allow truck access until either 6:30am Monday to Friday or 7:00am Saturday.
  - (d) No works shall be carried out on Sundays or public holidays.

However, the Director-General may, in consultation with Council, review these hours and direct that they be modified in the event that noise disturbances are identified as an issue of concern in the Environmental Management Report (Condition No. 38) or through the Community Consultative Committee (Condition No. 42).

10. The hours specified in Condition No. 9(a) to (d) above can be extended only for an emergency or circumstances involving the upgrading of the Pacific Highway with the approval of Council. The Applicant shall keep a log of all such work and report on same in the Environmental Management Report (EMR) referred to in Condition 38.

## BLASTING

11. Blasting shall only be carried out between 9:00am and 3:00pm Monday to Friday. Blasting shall not be allowed on public holidays unless the Council in special circumstances and in consultation with the EPA, approves other times.
12. Blasting in the early morning hours (between 6:00am and 9:00am) and early evening hours (between 3:00pm and 8:00pm) shall only be approved by Council in exceptional circumstances and where justification is made and noise monitoring demonstrates acceptable blast levels at nearby residences as determined by the EPA.
13. Air blast overpressure and vibration monitoring and control shall generally be carried out in accordance with the recommendations of Australia Standard AS-2187-1993 or its latest version and in terms of ANZECC Guidelines, to the satisfaction of the EPA.

14. The Applicant shall design all blasts to minimise air blast over pressure and vibration using the NONEL system or the equivalent such that any one blast has less than a five percent probability of exceeding an air blast over pressure of 115dB (Linear) and vibration with a peak particle velocity of 5mm/sec at any residence outside the quarry not owned by the Applicant.
15. Blasting shall not be carried out at times of adverse environmental and atmospheric conditions.
16. Upon written request of the owner of any existing dwelling house located within two (2) kilometres of the proposed quarry, the Applicant shall arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material condition of any existing dwelling house. The Applicant shall supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen (14) days of receipt of the report.

Should the inspection report find that structural damage to the dwelling house has occurred as a result of blasting at the quarry, the owner of that dwelling house may request the Applicant to carry out works to remedy or mitigate that damage. Such works shall be carried out at the Applicant's expense and shall be agreed to by the owner of the dwelling house.

In the event of a dispute between the Applicant and the owner of an existing dwelling house arising from the requirements of this condition, the Applicant shall refer the matter for the consideration and decision of the Director-General.

17. The Applicant shall give notice of proposed blasting times to residents within two (2) kilometres of the active quarry face if requested by residents.

## **LOAD LIMITS OF TRUCKS**

18. All trucks leaving the site shall comply with the legal weight limitations for classes of vehicles established by the Roads and Traffic Authority and local councils for the particular roads used to deliver products to customers.
19. The Applicant shall submit a quarterly report to Council detailing on a daily basis all loads over its weigh bridge.

## **VEGETATION REMOVAL**

20. No trees or native vegetation shall be destroyed, cut down, or removed from the property outside the limit of the extraction area shown in Figure 2 attached without the prior written approval of the Council.

## **NOISE LEVELS**

21. The Applicant shall ensure that the  $L_{A10(15\text{minute})}$  noise levels due to the normal operation of the quarry, when measured or computed at any residence (other than one owned by the Applicant), shall not exceed a noise level of 35 dB(A).



22. Noise measurement shall be undertaken under prevailing weather conditions, in the absence of temperature inversions and over a period of time sufficient to be representative of the noise levels being emitted from the quarry.

## **SECONDARY BREAKAGE OF OVERSIZED BLOCKS**

23. Secondary rock breaking shall be confined to Area A and the area known as the Northern Stage in Area B. Secondary rock breaking shall be conducted such that the vibration and blast overpressure levels recommended in ANZECC guideline "Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration" are not exceeded at any existing residential property.

Prior to excavation to a level where benches can provide shielding effect, an area shall be designated for such operation and temporary bunds be constructed to minimise noise impact.

The annual EMR referred to in Condition No. 38 shall indicate the equipment and locations used for secondary rock breaking in the past year, and nominated equipment and locations to be used in the forthcoming year, together with an assessment of any complaints received in the past year.

## **MONITORING PROGRAM**

24. Within 3 months of the date of this consent or within such further period as the Council may require, the Applicant shall submit, in consultation with the EPA, for the approval of the Council a program to monitor for noise, dust and water pollution, indicating sampling locations, frequencies and parameters to be tested.

## **WATER MANAGEMENT**

25. Within 3 months of the date of this consent, or within such further period as the Council may require, the Applicant shall submit, in consultation with the DLWC, a comprehensive site water management plan to the satisfaction of the Council.
26. The plan shall include, but not be limited to:
- i. the measures for the management of the quality and quantity of surface and ground water within and around the quarry site.
  - ii. storm water diversion and the effective management of clean and dirty water on the site,
  - iii. identification of any possible adverse effects on water supply sources of surrounding and downstream land holders as a result of the quarry operations and the measures necessary to mitigate such adverse effects,
  - iv. the demonstration of adequate on-site storage and capacity for off-site discharge, and
  - v. a strategy for water management at the end of 21 years and at the cessation of quarry operations in the longer term.

## ENVIRONMENTAL MANAGEMENT PLAN (EMP)

27. Within 3 months of the date of this consent, or such further period as the Council may require, the Applicant shall prepare in consultation with the NPWS and submit for Council's approval an EMP. The Plan shall be reviewed every 5 years and generally follow the format as outlined in Appendix 8 of the Commission of Inquiry report. The following shall also be included in the appropriate sections of the EMP and each subsequent review.
- (a) The extraction sequence plans as shown in Figures 2 and 3 attached or included in any five year review of the EMP.
  - (b) A rehabilitation and revegetation plan as detailed in the section "Landscaping and Site Rehabilitation" of the Commission of Inquiry report.
  - (c) A program to progressively improve the structure and floristic composition of the proposed wildlife corridor in accordance with recommendations of the NPWS. The corridor shall be established to the satisfaction of the Director-General and in consultation with the NPWS.
  - (d) Proposed staging and indicative timing of regeneration activities.
  - (e) A weed removal program
  - (f) Proposed enrichment planting of pre-existing plant species within the quarry and the proposed 50m buffer zone.
  - (g) A plan of planting of Rudder's Box within the Applicant's property to enhance the local abundance of the species.
  - (h) Erection of fence to exclude cattle and other exotic grazing stock to the proposed wildlife corridor.
  - (i) A program to mitigate the potential loss of habitat of the Brush-tailed Phascogale.
  - (j) A program to mitigate the impact of the development of Rudder's Box.
  - (k) A program to control foxes, cats and dogs.
  - (l) A program to remove and destroy feral bee hives from habitat tree hollows.
  - (m) Implementation of speed limits and provisions of wildlife warning signs on internal roads.
  - (n) The condition and safety of Possum Brush Road and any measures required to improve the condition and/or safety of the road.

## ARCHAEOLOGY

28. The Applicant shall, within one (1) month of the date of the consent, or within such further period as agreed to by Council, prepare a report, in consultation with the NPWS, updating the findings of the 1984 Brayshaw Report and submit it for Council's approval. The report shall include proposed mitigation measures, if necessary, to protect Aboriginal heritage value of the site.
29. In the event that artefacts are identified on the site during development through earthworks, construction or operation of the quarry, the Applicant, shall contact the NPWS and cease work in the relevant location pending investigation and assessment of its heritage value.

## ROADWORKS

30. The Applicant shall bear the cost of widening Possum Brush Road, from the intersection of the Pacific Highway to the quarry entrance to 8 metres total width including lanes and shoulders. Engineering plans, including longitudinal sections and cross sections, are to be submitted to and approved by Council prior to work commencing.
31. The Applicant shall bear the cost of rehabilitation of the existing pavement of Possum Brush Road from the intersection of the Pacific Highway to the quarry entrance by an appropriate treatment. Details of the proposed treatment are to be submitted to and approved by the Council prior to work commencing.

This work shall be completed before 31 July 2003 by Council or a contractor approved by Council and are to be undertaken with materials supplied free-of-charge from the quarry.

32. The Applicant shall place a Stop Sign on the central island at the quarry entrance, with the existing Stop Sign being relocated to the north to coincide with the new sign.
33. The Applicant shall place a raised threshold to Council's specifications on the quarry access road at the Stop Sign.
34. Following rehabilitation works completed on Possum Brush Road in accordance with Conditions Nos. 30 and 31, the Applicant is to provide material to Council free of cost for ongoing maintenance works on that road.
35. The Applicant shall improve the sight distances at the intersection of the quarry access road and Possum Brush Road by the removal of obstructing roadside vegetation to the satisfaction of Council. The approved sight distance is to be regularly maintained.
36. (1) The Applicant shall pay to Council a contribution for the maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway. The rate of the contribution for all extractive materials transported from the quarry is:
  - (a) 7.5 cents per tonne for the first five years;
  - (b) 10 cents per tonne for the next five years; and
  - (c) a further increase of 5 cents per tonne at the commencement of each subsequent five year period thereafter.

(2) The payment of the road maintenance contribution shall commence ten years from the date of the consent and be paid monthly to Council.

(3) The Applicant shall provide a summary of the maintenance work undertaken on Possum Brush Road by Council or an approved contractor in each EMR required under condition 38.
37. The condition and safety of Possum Brush Road shall be subject to the review of the Community Consultative Committee established in accordance with Condition No. 42.



## ENVIRONMENTAL MANAGEMENT REPORT (EMR)

38. The Applicant shall submit an Environmental Management Report to the Council on an annual basis following the date of this consent or at such longer periods as the Council shall nominate. This report is to be prepared by an independent person as approved by the Council.
39. The Report shall:
- (a) review compliance with conditions of consent and other statutory licence conditions,
  - (b) review effectiveness of environmental management in terms of EIS objectives and EMP requirements,
  - (c) report the activities during the reporting period, including road maintenance activities,
  - (d) provide an overview of the activities during the following reporting period, including road maintenance activities,
  - (e) set out environment management targets during the following reporting period,
  - (f) detailed environmental monitoring results which includes interpretation and discussion by a suitably qualified person, and
  - (g) detail any complaints made concerning operation of the quarry during the previous reporting period.
40. The Applicant shall ensure that copies of the EMR are submitted to Council and are available to the Community Consultative Committee (referred to in condition No. 42) and any interested person for perusal and copy, upon application to the Council.
41. The Council may notify the applicant of any requirements with regard to the recommendations of the EMR. The Applicant shall comply with those reasonable requirements within such time as the Council may require.

## COMMUNITY CONSULTATIVE COMMITTEE

42. The Applicant shall participate and co-operate in the establishment by the Council of a Community Consultative Committee. The purpose of the Committee is to review the EMR, provide an interface with the community in relation to the on-going mitigation of any environmental impacts of the quarry, and convey concerns of the local community to the Applicant and the Council.
43. The Applicant shall be responsible for such administrative support and financial contributions as may reasonably be required by the Council for the Committee to undertake its functions.
44. The Committee shall be chaired by a Councillor and include 2 representatives each of the quarry operating company and the residents in the Possum Brush

locality selected by the Council and a Council staffer. The Committee may seek additional members or technical advice from time to time from public authorities or relevant individuals.

## **DISPUTE RESOLUTION**

45. Any dispute arising between any of the parties in respect of these conditions shall be referred to the Director-General of Urban Affairs and Planning, whose determination of the dispute shall be final and binding on the parties.

## **ADDITIONAL CONDITIONS**

46. Liquid fuel, explosives and chemical storage areas shall be constructed and bunded in accordance with the requirements of the Dangerous Goods Act. Details of the measures to deal with storage of such materials shall be included in the EMP for Council's approval.
47. The Applicant shall limit production and transportation of finished quarry products to an average of 200,000 tonnes per annum. Materials provided to Council free of charge for roadworks on Possum Brush Road in accordance with Condition No. 31 shall be excluded from this limit.
48. The Applicant shall erect and maintain barriers around the periphery of the operational quarry faces sufficient to clearly delineate top of batters to the satisfaction of the Council.
49. The boundaries of the "extraction area" as referred to in Condition No. 7 shall be defined by survey and pegged by a registered surveyor to the satisfaction of the Council. Appropriate measures shall be taken to protect survey pegs at all times.
50. Unless delivering products to a property owner or lessee fronting Bullocky Way, no trucks travelling to or from the quarry site shall travel along Bullocky Way without the written agreement of Council.
51. No trucks associated with the development are to travel via Tritton Road or via the section of Possum Brush Road to the west of intersection with the quarry access road unless delivering products to a property owner or lessee fronting onto these roads or providing materials for the maintenance of the road themselves.
52. The Applicant shall consult and comply with reasonable requirements of the Council concerning means to prevent and fight fires.
53. The Applicant shall continue to provide a bank guarantee in the sum of \$50,000 in favour of the Council being the sum necessary to ensure due completion of the rehabilitation and landscaping works referred to in Condition 27.
54. The Applicant shall retain a water cart on site and shall keep damp any surfaces generating dust to the satisfaction of the Council.

55. Water spraying apparatus shall be maintained in conjunction with the processing plant and stockpile area to minimise the emission of dust during processing and stockpiling to the satisfaction of the Council.
56. The Applicant shall ensure all truck loads of product/material transported off site are suitably covered or contained so that no spillage can occur at any stage.
57. The Applicant shall comply with Council's requirements for supplementary tree and shrub planting to further screen the quarry operation should Council consider such screening is required to further ameliorate the visual impact of the quarry as it develops when viewed from public roads and adjoining properties.

**Note: The above conditions do not relieve the Applicant of the obligation to obtain other approvals required under any other Act.**

FIGURE 1 Site Layout Plan and Proposed Extraction Areas

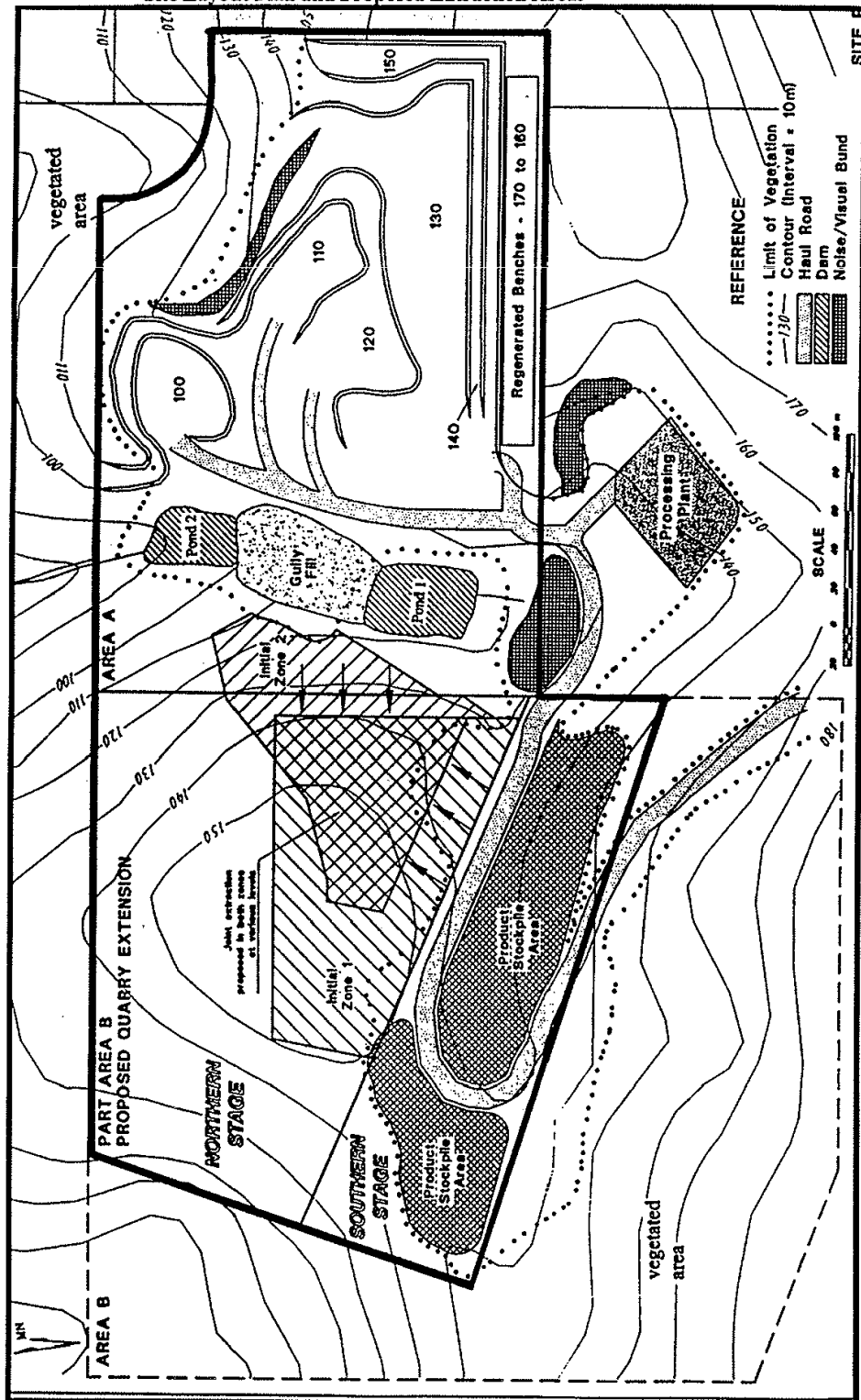




FIGURE 2 Indicative Quarry Sequence - Current to Year 10

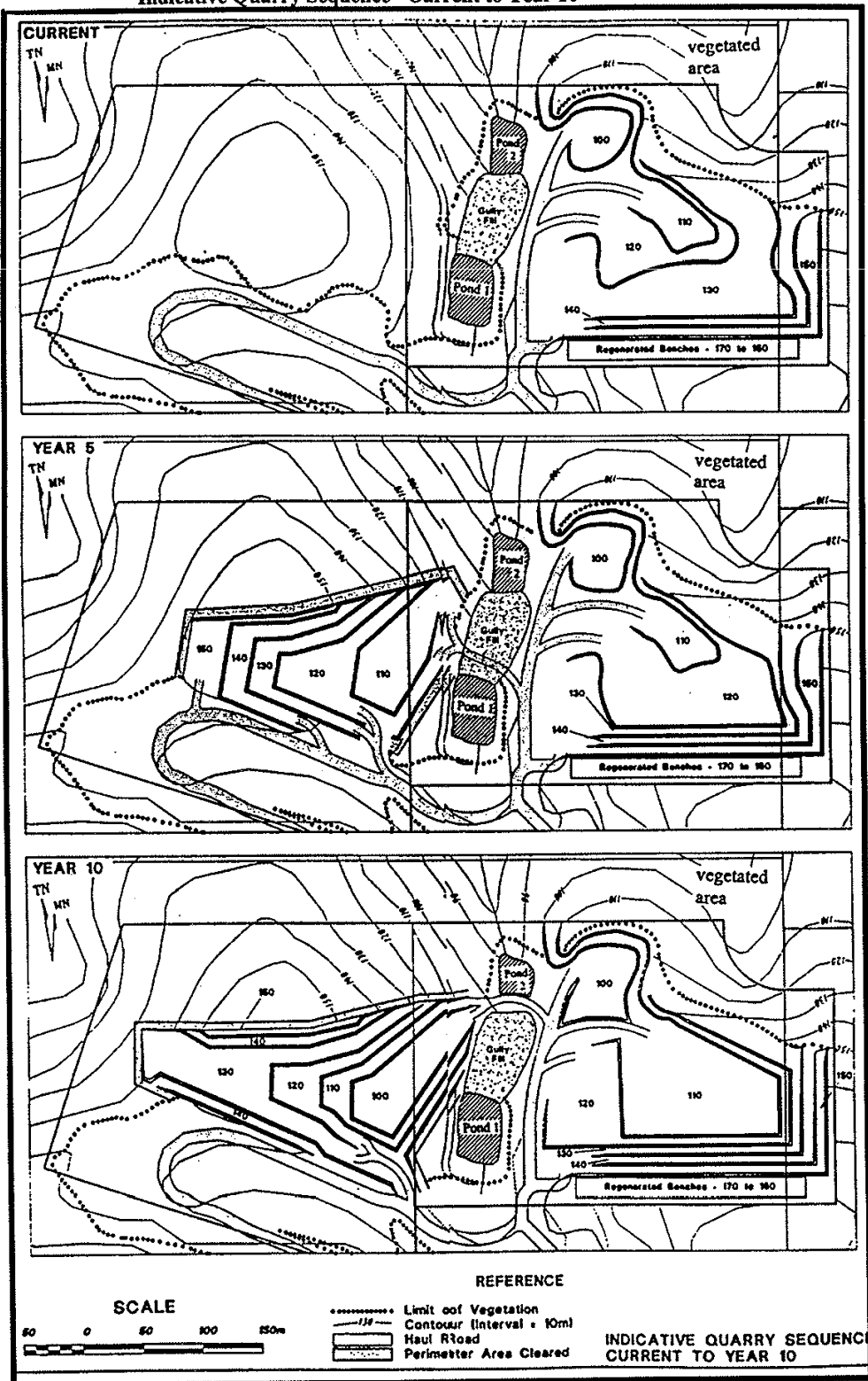
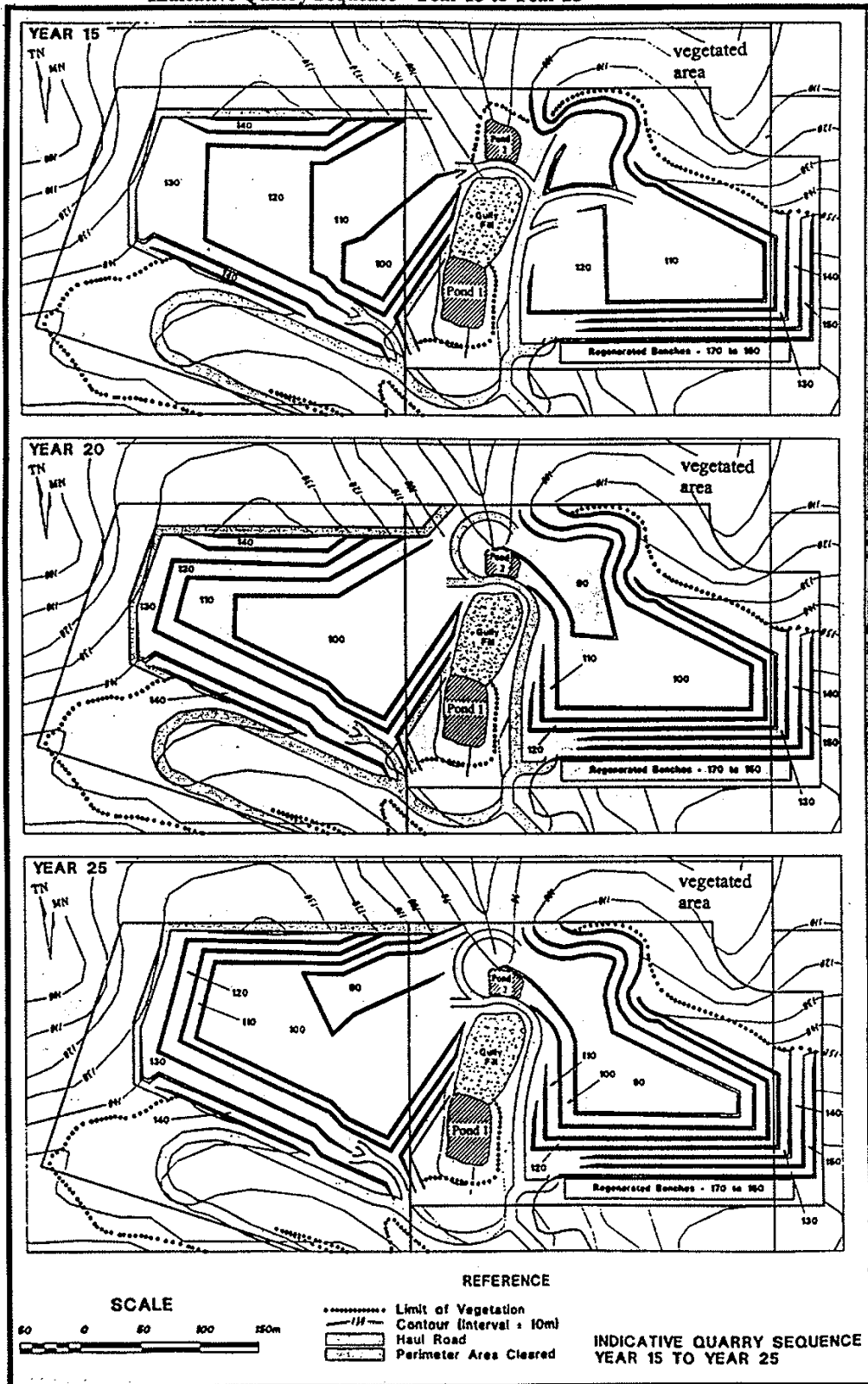


FIGURE 3  
Indicative Quarry Sequence - Year 15 to Year 25



## Notice of Modification

### Section 75W of the *Environmental Planning and Assessment Act 1979*

As delegate of the Minister for Planning, I modify the development consent referred to in Schedule 1, as set out in Schedule 2.



Oliver Holm  
Executive Director  
Resource Assessments & Compliance

Sydney

1 / 4 /

2016

#### SCHEDULE 1

The development consent (DA 283/97) for the Possum Brush Quarry, granted by the Minister for Urban Affairs and Planning on 25 May 1998.

#### SCHEDULE 2

1. Delete Schedule 2 and Figures 1 to 3, and insert the following:

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## DEFINITIONS

Aboriginal object	Any item that provides evidence of the use of an area by Aboriginal people, as defined under the <i>National Parks and Wildlife Act 1974</i>
AHD	Australian Height Datum
Annual review	The review required by condition 9 of Schedule 5
Applicant	Pacific Blue Metal Pty Ltd or any other person or persons who rely on this consent to carry out the development that is subject to this consent
Asphalt activities	As approved under DA 1127/2005
BCA	Building Code of Australia
CCC	Community Consultative Committee
Condition of consent	Conditions contained in Schedule 2 to 5 inclusive
Council	Greater Taree City Council
Day	The period from 7 am to 6 pm, Monday to Saturday, and 8 am to 6 pm Sunday and Public Holidays
Department	Department of Planning and Environment
DRE	Division of Resources and Energy, within the NSW Department of Industry
Development	The development as described in the documents listed in condition 2 of Schedule 2
DPI Water	Department of Primary Industries Water
EIS	Development Application 283/97 lodged with Greater Taree City Council on 12 September 1997, and accompanying Environmental Impact Statement prepared by ERM Mitchell McCotter, dated September 1997
EA (Mod 1)	Modification Application MOD 1 52-7-2002, dated 18 July 2002
EA (Mod 2)	Modification Application MOD 2 105-8-2006, dated 15 August 2006
EA (Mod 3)	Modification Application DA 283/97 MOD 3 and accompanying Environmental Assessment titled <i>Environmental Assessment for An Additional Minor Area of Extraction at the Possum Brush Quarry</i> , prepared by R W Corkery and Co Pty Limited, dated November 2012
EA (Mod 4)	Modification Application DA 283/97 MOD 4 and accompanying Environmental Assessment titled <i>Environmental Assessment for the Stage 2 Operations and the Modification of Development Consent DA 283/97 at the Possum Brush Quarry, via Nabiac</i> , dated November 2015, and the Response to Submissions titled <i>Response to Submissions for the Stage 2 Operations and the Modification of Development Consent DA 283/97 at the Possum Brush Quarry, via Nabiac</i> , dated February 2016.
EPA	Environment Protection Authority
EP&A Act	<i>Environmental Planning and Assessment Act 1979</i>
EP&A Regulation	<i>Environmental Planning and Assessment Regulation 2000</i>
EPL	Environment Protection Licence issued under the POEO Act
Evening	The period from 6 pm to 10 pm
Extractive material	Includes saleable material extracted from the development, but excludes tailings and other wastes
Feasible	Feasible relates to engineering considerations and what is practical to build or carry out
GPS	Global Positioning System
Incident	A set of circumstances that: <ul style="list-style-type: none"> <li>causes, or threatens to cause, material harm to the environment; and/or</li> <li>breaches or exceeds the limits or performance measures/criteria in this consent</li> </ul>
INP	<i>NSW Industrial Noise Policy</i> (NSW EPA, 2000)
Land	As defined in the EP&A Act, except where the term is used in the noise and air quality conditions in Schedules 3 and 4 of this consent, where it is defined as the whole of a lot, or contiguous lots owned by the same landowner, in a current plan registered at the Land Titles Office at the date of this consent
Material harm to the environment	Actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial
Minister	Minister for Planning, or delegate
Mitigation	Activities associated with reducing the impacts of the development prior to or during those impacts occurring
Night	The period from 10 pm to 7 am, Monday to Saturday, and 10 pm to 8

OEH	am Sunday and Public Holidays
POEO Act	Office of Environment and Heritage
Public infrastructure	<i>Protection of the Environment Operations Act 1997</i> Linear and related infrastructure that provides services to the general public, such as roads, railways, water supply, drainage, sewerage, gas supply, electricity, telephone, telecommunications, etc.
Quarrying operations	The extraction, processing and transportation of extractive materials on the site and the associated removal of vegetation, topsoil and overburden.
Quarry products	Includes extractive material, aggregates, road pavement products, asphalt products, recycled products and all other saleable products despatched from the site
Reasonable	Reasonable relates to the application of judgement in arriving at a decision, taking into account: mitigation benefits, cost of mitigation versus benefits provided, community views and the nature and extent of potential improvements
Recycling activities	As approved under DA 769/2009
Rehabilitation	The restoration of land disturbed by the development to a good condition, ensuring it is safe, stable, non-polluting environment and appropriately vegetated.
RMS	Roads and Maritime Services
Secretary	Secretary of the Department, or nominee
Site	Includes Lot 109 DP 753195, Lot 3 DP 701903 and Lot 66 DP 608957

SCHEDULE 2  
ADMINISTRATIVE CONDITIONS

OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT

1. In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.

TERMS OF CONSENT

2. The Applicant shall carry out the development generally in accordance with the EIS, EA (Mod 1), EA (Mod 2), EA (Mod 3) and EA (Mod 4).
3. The Applicant shall carry out the development in accordance with the Development Layout Plans and the conditions of this consent.

*Note: The Development Layout Plan for the development is shown in Appendix 1.*

4. If there is any inconsistency between the documents identified in condition 2, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.
5. The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:
  - (a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);
  - (b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and
  - (c) the implementation of any actions or measures contained in these documents.

LIMITS ON CONSENT

Quarrying Operations

6. The Applicant may carry out quarrying operations on the site until 31 March 2046.

*Note: Under this consent, the Applicant is required to rehabilitate the site and perform additional undertakings to the satisfaction of the Secretary. Consequently, this consent will continue to apply in all other respects other than the right to conduct quarrying operations until the rehabilitation of the site and those undertakings have been carried out satisfactorily.*

7. The Applicant shall not extract extractive materials below a level of 45 metres AHD.
8. The Applicant shall not extract more than 16.2 million tonnes of extractive material from the site under this consent.
9. The Applicant shall not transport more than 500,000 tonnes of quarry products from the site in any calendar year.

*Note: Extractive material provided to Council free of charge for roads works on Possum Brush Road in accordance with condition 19 of Schedule 2 shall be excluded from the limit specified above.*

Quarry Product Transport

10. The Applicant shall ensure that:
  - (a) no more than 36 truck movements occur per hour; and
  - (b) no more than 420 truck movements occur per day.

*Note: Truck movements mean heavy vehicle one-way trips, either entering or leaving the site, including trucks associated with the asphalt and recycling activities.*

HOURS OF OPERATION

11. The Applicant shall comply with the operating hours in Table 1.

Table 1: Operating Hours

Activity	Operating Hours
Extraction and processing operations	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday
Maintenance operations	6 am to 9 pm Monday to Friday 6 am to 9 pm Saturday
Loading and dispatch of laden trucks	6:30 am to 6 pm Monday to Friday 7 am to 3 pm Saturday
Blasting	9 am and 3 pm Monday to Friday. No blasting is allowed on Saturdays, Sundays or public holidays, or at any other time without the written approval of the Secretary.

The following activities may be carried out on the site outside the hours specified in Table 1:

- (a) delivery or dispatch of materials as requested by Police or other authorities; and
- (b) emergency work to avoid the loss of lives, property and/or to prevent environmental harm.

In such circumstances, the Applicant shall notify the Secretary and affected residents prior to undertaking the activities, or as soon as is practical thereafter. The Applicant shall keep a record of all such events and report on the same in the Annual Review (see condition 9 of Schedule 5).

#### STRUCTURAL ADEQUACY

12. The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.

Notes:

- Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; and
- Part 8 of the EP&A Regulation sets out the requirements for the certification of the development or project.

#### DEMOLITION

13. The Applicant shall ensure that all demolition work is carried out in accordance with *Australian Standard AS 2601-2001: The Demolition of Structures*, or its latest version.

#### PROTECTION OF PUBLIC INFRASTRUCTURE

14. The Applicant shall:
  - (a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and
  - (b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development.

Note: This condition does not apply to damage to roads caused as a result of general road usage.

#### OPERATION OF PLANT AND EQUIPMENT

15. The Applicant shall ensure that all the plant and equipment used at the site is maintained and operated in a proper and efficient manner.

#### IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION

16. Prior to 30 September 2016, unless otherwise agreed by the Secretary, the Applicant shall:
  - (a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area (see Appendix 1); and
  - (b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.
17. While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff and inspecting officers to clearly identify the approved limits of extraction.

#### PRODUCTION DATA

18. The Applicant shall:
  - (a) provide annual quarry production data to DRE using the standard form for that purpose; and



- (b) include a copy of this data in the Annual Review (see condition 9 of Schedule 5).

**CONTRIBUTIONS TO COUNCIL**

19. The Applicant shall provide extractive material to Council free of charge for ongoing maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway.
20. The Applicant shall pay to Council a monthly contribution for the maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway. The rate of the contribution for all quarry products transported from the site is:
  - (a) 7.5 cents per tonne for five years from 25 May 2008;
  - (b) 10 cents per tonne for the next five years from 25 May 2013; and
  - (c) further increases indexed annually to changes in the Consumer Price Index (Road & Bridge Construction) (NSW Index) from 25 May 2018 and thereafter.

### SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS

#### NOISE

##### Noise Impact Assessment Criteria

1. The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.

Table 2: Noise criteria dB(A)

Receiver	Day/Evening	Night	
	$L_{Aeq}(15\text{ min})$	$L_{Aeq}(15\text{ min})$	$L_{A1(max)}$
R1 – 5 St Peters Close	39	39	45
R2 – 175 Possum Brush Road	38	38	45
R3 – 55 Possum Brush Road	37	37	45
All other residences	35	35	45

Note: Receiver locations are shown in Appendix 2.

Noise generated by the development is to be measured in accordance with the relevant requirements of the *NSW Industrial Noise Policy* (as may be updated from time-to-time). Appendix 3 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.

However, these criteria do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.

#### Operating Conditions

2. The Applicant shall:
  - (a) implement best practice management to minimise the operational and road transportation noise of the development;
  - (b) minimise the noise impacts of the development during meteorological conditions when the noise criteria in this consent do not apply (see Appendix 3);
  - (c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent; and
  - (d) regularly assess noise monitoring data and modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent, to the satisfaction of the Secretary.

#### Noise Management Plan

3. The Applicant shall prepare a Noise Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
  - (a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (b) describe the measures that would be implemented to ensure:
    - compliance with the noise criteria in this consent;
    - best practice management is being employed; and
    - the noise impacts of the development are minimised during meteorological conditions under which the noise criteria in this consent do not apply (see Appendix 3);
  - (c) describe the proposed noise management system; and
  - (d) include a monitoring program that will be put in place to measure noise from the development against the noise criteria in Table 2, and which evaluates and reports on the effectiveness of the noise management system on site; and

The Applicant shall implement the management plan as approved from time to time by the Secretary.

## BLASTING

### Blasting Impact Assessment Criteria

4. The Applicant shall ensure that blasting on site does not cause any exceedance of the criteria in Table 3.

Table 3: Blasting criteria

Location	Airblast overpressure (dB(L in Peak))	Ground vibration (mm/s)	Allowable exceedance
Any residence on privately owned land	120	10	0%
	115	5	5% of the total number of blasts over a period of 12 months

However, these criteria do not apply if the Applicant has a written agreement with the relevant owner to exceed the limits in Table 3, and the Applicant has advised the Department in writing of the terms of this agreement.

### Blasting Frequency

5. The Applicant may carry out a maximum of 2 blasts per calendar month, unless an additional blast is required following a blast misfire. This condition does not apply to blasts required to ensure the safety of the quarry or workers on site.

*Note: For the purposes of this condition a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the quarry.*

### Operating Conditions

6. During blasting operations, the Applicant shall:
- implement best management practice to:
    - protect the safety of people and livestock in the areas surrounding blasting operations;
    - protect public or private infrastructure/property in the surrounding area from damage from blasting operations; and
    - minimise the dust and fume emissions of blasting;
  - operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and
  - carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.
7. Upon written request of the owner of any existing dwelling house located within 1.25 kilometres of the development, the Applicant shall arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material condition of any existing dwelling house. The Applicant shall supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen days of receipt of the report.

Should the inspection report find that structural damage to the dwelling house has occurred as a result of blasting at the quarry, the owner of that dwelling house may request the Applicant to carry out works to remedy or mitigate that damage. Such works shall be carried out at the Applicant's expense and shall be agreed to by the owner of the dwelling house.

In the event of a dispute between the Applicant and the owner of an existing dwelling house arising from the requirements of this condition, the Applicant shall refer the matter for the consideration and decision of the Secretary.

### Blast Management Plan

8. The Applicant shall prepare a Blast Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
- be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;
  - include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;

- (d) include community notification procedures for the blasting schedule; and
- (e) include a protocol for investigating and responding to complaints.

The Applicant shall implement the management plan as approved from time to time by the Secretary.

## AIR QUALITY

### Air Quality Impact Assessment Criteria

9. The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 4 at any residence on privately-owned land.

Table 4: Air quality criteria

Pollutant	Averaging Period	<sup>d</sup> Criterion	
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	a,d 30 µg/m <sup>3</sup>	
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	b 50 µg/m <sup>3</sup>	
Total suspended particulates (TSP)	Annual	a,d 90 µg/m <sup>3</sup>	
<sup>c</sup> Deposited dust	Annual	b 2 g/m <sup>2</sup> /month	a,d 4 g/m <sup>2</sup> /month

Notes for Table 4:

- a. Cumulative impact (ie increase in concentrations due to the development plus background concentrations due to all other sources).
- b. Incremental impact (ie incremental increase in concentrations due to the development on its own, with zero allowable exceedances of the criteria over the life of the development).
- c. Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method.
- d. Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents, or any other activity agreed to by the Secretary.

### Operating Conditions

10. The Applicant shall:
  - (a) implement best practice management to minimise the dust emissions of the development;
  - (b) carry out periodic air quality monitoring to determine whether the development is complying with the relevant conditions of this consent;
  - (c) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;
  - (d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see note d under Table 4); and
  - (e) minimise the area of surface disturbance and maximise progressive rehabilitation of the site, to the satisfaction of the Secretary.

### Quarry-owned Land

11. The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any occupied residence on quarry-owned land unless:
  - (a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and
  - (b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice, to the satisfaction of the Secretary.

### Air Quality Management Plan

12. The Applicant shall prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
  - (a) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (b) describe the measures that would be implemented to ensure:
    - compliance with the relevant conditions of this consent;



- best practice management is being employed; and
- the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;
- (c) describe the proposed air quality management system; and
- (d) include an air quality monitoring program that:
  - is capable of evaluating the performance of the development;
  - includes a protocol for determining any exceedances of the relevant conditions of consent;
  - effectively supports the air quality management system; and
  - evaluates and reports on the adequacy of the air quality management system.

The Applicant shall implement the management plan as approved from time to time by the Secretary.

#### Meteorological Monitoring

13. For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the *Approved Methods for Sampling of Air Pollutants in New South Wales* guideline.

#### Greenhouse Gas Emissions

14. The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.

#### SOIL AND WATER

##### Water Supply

15. The Applicant shall ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of quarrying operations to match the available water supply.

*Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.*

##### Water Discharges

16. The Applicant shall comply with the discharge limits in any EPL, or with section 120 of the POEO Act.

##### Groundwater

17. In the event that groundwater in excess of negligible quantities is intersected during quarrying operations, the Applicant shall undertake a hydrogeological investigation, in consultation with DPI Water, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures.

The Applicant must implement reasonable and feasible management measures to the satisfaction of the Secretary.

##### Water Management Plan

18. The Applicant shall prepare a Water Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
- (a) be prepared in consultation with the EPA and DPI Water;
  - (b) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (c) include a Site Water Balance that includes details of:
    - sources and security of water supply;
    - water uses, losses and management on site;
    - any off-site water transfers; and
    - reporting procedures; and
  - (d) include a Surface Water Management Plan that includes:
    - detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development;
    - a detailed description of the surface water management system on site, including the:
      - clean water diversion system;
      - erosion and sediment controls;

- stormwater runoff controls;
- dirty water management system; and
- water storages; and
- a program to monitor and report on:
  - any surface water discharges;
  - the effectiveness of the water management system; and
  - surface water flows and quality in local watercourses; and
- measures that would be implemented to minimise water use on site;
- identification of all reasonable and feasible measures to improve the quality of surface water within and around the site;

The Applicant shall implement the management plan as approved from time to time by the Secretary.

## LANDSCAPE AND REHABILITATION

### Rehabilitation Objectives

19. The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be in accordance with the objectives in Table 5.

Table 5: Rehabilitation objectives

Feature	Objective
Site (as a whole)	<ul style="list-style-type: none"> <li>• Safe, stable and non-polluting.</li> <li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land.</li> <li>• Restored with native, endemic vegetation</li> </ul>
Vegetated land	<ul style="list-style-type: none"> <li>• Conserved and enhanced with native, endemic vegetation.</li> <li>• Containing self-sustaining ecosystems.</li> </ul>
Surface Infrastructure	<ul style="list-style-type: none"> <li>• Decommissioned and removed, unless the Secretary agrees otherwise.</li> </ul>
Quarry Benches & Pit Floor	<ul style="list-style-type: none"> <li>• Landscaped and vegetated using native trees and understorey species.</li> </ul>
Final Void	<ul style="list-style-type: none"> <li>• Minimise the height and slope of batters.</li> <li>• Minimise the drainage catchment.</li> </ul>
Community	<ul style="list-style-type: none"> <li>• Ensure public safety.</li> <li>• Minimise the adverse socio-economic effect of quarry closure.</li> </ul>

### Progressive Rehabilitation

20. The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.

*Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to disturbance in the future.*

### Landscape and Rehabilitation Management Plan

21. The Applicant shall prepare a Landscape and Rehabilitation Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
- (a) be prepared in consultation with OEH and Council;
  - (b) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (c) provide details of the conceptual final landform and associated land uses for the site;
  - (d) describe the short, medium and long-term measures that would be implemented to ensure compliance with the rehabilitation objectives and progressive rehabilitation obligations in this consent;
  - (e) include a program to progressively improve the structure and floristic composition of the established wildlife corridor which includes:
    - maintaining a fence around the wildlife corridor to exclude grazing stock;

- maintaining wildlife warning signs and speed limits on internal roads; and
- making suitable arrangements to protect in perpetuity the wildlife corridor; and
- (f) include a program to monitor Rudder's Box within the Applicant's property;
- (g) include a detailed description of the measures that would be implemented to:
  - maximise the salvage of environmental resources within the approved disturbance area for beneficial reuse;
  - protect vegetation and fauna habitat outside the approved extraction area;
  - minimise tree or native vegetation removal or destruction;
  - use pre-existing or local plant species for revegetation;
  - minimise the impacts on native fauna and flora, including Brush-tailed Phascogale and Rudder's Box;
  - landscape the site to minimise visual and lighting impacts;
  - control weeds and feral pests;
  - control erosion;
  - control access; and
  - bushfire management; and
- (h) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;
- (i) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and
- (j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.

The Applicant shall implement the management plan as approved from time to time by the Secretary.

*Note: For the purposes of this consent, suitable arrangements to protect the wildlife corridor in perpetuity may include the use of Public Positive Covenants in combination with Restrictions on Use of Land on the land title/s of the wildlife corridor. Other arrangements such as the use of Biobanking Agreements or transfer of lands to the national parks estate would also be considered for their suitability.*

#### Rehabilitation and Conservation Bond

22. Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation and Conservation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Landscape and Rehabilitation Management Plan. The sum of the bond shall be determined by:
- (a) calculating the cost of rehabilitating the site taking into account the likely surface disturbance over the next 3 years of quarrying operations; and
  - (b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.

*Note: If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.*

23. Within 3 months of each Independent Environmental Audit (see condition 10 of Schedule 5), the Applicant shall review, and if necessary revise, the sum of the Rehabilitation and Conservation Bond to the satisfaction of the Secretary. This review must consider the:
- (a) effects of inflation;
  - (b) likely cost of rehabilitating the site (taking into account the likely surface disturbance over the next 3 years of the development); and
  - (c) performance of the implementation of the rehabilitation of the site to date.

#### ABORIGINAL CULTURAL HERITAGE

24. If any item or object of Aboriginal heritage significance is identified on site, the Applicant shall ensure that:
- (a) all work in the immediate vicinity of the suspected Aboriginal item or object ceases immediately;
  - (b) a 10 m buffer area around the suspected item or object is cordoned off with high visibility flagging tape, or the like; and
  - (c) OEH is contacted immediately.

Work in the vicinity of the Aboriginal item or object may only recommence in accordance with the provisions of Part 6 of the *National Parks and Wildlife Act 1974*.

## TRANSPORT

### Transport Routes

25. No trucks associated with the development are to travel on Bullocky Way, Tritton Road or the section of Possum Brush Road to the west of the intersection with the quarry access road and other minor roads off this section of road unless delivering products to a property fronting onto these roads or providing materials for the maintenance of the roads themselves, without the written agreement of the Secretary.

### Pacific Highway Intersection

26. The Applicant shall ensure that appropriate advance warning truck signage is installed or replaced on the northbound and southbound lanes of the Pacific Highway, to the satisfaction of the RMS.

### Operating Conditions

27. The Applicant shall ensure that:
- (a) all company owned trucks associated with the quarry have appropriate signage, so they can be easily identified by road users;
  - (b) all laden trucks entering or exiting the site have their loads covered;
  - (c) all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site; and
  - (d) road maintenance requirements, including the removal of any obstructing roadside vegetation, are reported to Council for Possum Brush Road and to RMS for the Pacific Highway.

### Transport Management Plan

28. The Applicant shall prepare a Transport Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:
- (a) be prepared in consultation with RMS and Council;
  - (b) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (c) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particularly having regard to early morning truck arrivals, school bus routes and the location of residential properties; and
  - (d) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.

The Applicant shall implement the management plan as approved from time to time by the Secretary.

### Monitoring of Product Transport

29. The Applicant shall keep accurate records of:
- (a) the amount of quarry products transported from the site (calendar month and year);
  - (b) the number of truck movements entering and leaving the site (hour, day, calendar month and year); and
  - (c) include these records in the Annual Review (see condition 9 of Schedule 5).

*Note: Records must include material provided to Council, referred to in condition 19 of Schedule 2.*

## VISUAL IMPACTS

30. The Applicant shall:
- (a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development; and
  - (b) take all practical measures to shield views of quarrying operations from users of public roads and privately-owned residences, to the satisfaction of the Secretary.

## WASTE

31. The Applicant shall:
- (a) implement all reasonable and feasible measures to minimise the waste generated by the development;
  - (b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and



- (c) monitor and report on effectiveness of the waste management and minimisation in the Annual Review (see condition 9 of Schedule 5),  
to the satisfaction of the Secretary.

**ODOUR**

- 32. The Applicant shall not cause or permit the emission of offensive odour beyond the boundaries of the site.

**LIQUID STORAGE**

- 33. The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.

**DANGEROUS GOODS**

- 34. The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant *Australian Standards*, particularly AS1940 and AS1596, and the *Dangerous Goods Code*.

**BUSHFIRE**

- 35. The Applicant shall:
  - (a) ensure that the development is suitably equipped to respond to any fires on site; and
  - (b) assist the Rural Fire Service, emergency services and National Parks and Wildlife Service as much as possible if there is a fire in the surrounding area.

**SCHEDULE 4**  
**ADDITIONAL PROCEDURES**

**NOTIFICATION OF LANDOWNERS**

1. As soon as practicable after obtaining monitoring results showing:
  - (a) an exceedance of any relevant criteria in Schedule 3, the Applicant shall notify the affected landowners in writing of the exceedance, and provide regular monitoring results to each affected landowner until the development is again complying with the relevant criteria; and
  - (b) an exceedance of any relevant air quality criteria in Schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and current tenants of the land (including the tenants of land which is not privately-owned).

**INDEPENDENT REVIEW**

2. If an owner of privately-owned land considers the development to be exceeding the relevant criteria in Schedule 3, then he/she may ask the Secretary in writing for an independent review of the impacts of the development on his/her land.
3. If the Secretary is satisfied that an independent review is warranted, then within 2 months of the Secretary's decision the Applicant shall:
  - (a) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Secretary, to:
    - consult with the landowner to determine his/her concerns;
    - conduct monitoring to determine whether the development is complying with the relevant criteria in Schedule 3; and
    - if the development is not complying with these criteria then identify measures that could be implemented to ensure compliance with the relevant criteria; and
  - (b) give the Secretary and landowner a copy of the independent review.

SCHEDULE 5  
ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING

ENVIRONMENTAL MANAGEMENT

Environmental Management Strategy

1. The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Secretary. This strategy must:
  - (a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;
  - (b) provide the strategic framework for the environmental management of the development;
  - (c) identify the statutory approvals that apply to the development;
  - (d) describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;
  - (e) describe the procedures that would be implemented to:
    - keep the local community and relevant agencies informed about the operation and environmental performance of the development;
    - receive, handle, respond to, and record complaints;
    - resolve any disputes that may arise during the course of the development;
    - respond to any non-compliance; and
    - respond to emergencies; and
  - (f) include:
    - copies of any strategies, plans and programs approved under the conditions of this development consent; and
    - a clear plan depicting all the monitoring required to be carried out under the conditions of this consent.

Management Plan Requirements

2. The Applicant shall ensure that the Management Plans required under this consent are prepared in accordance with any relevant guidelines, and include:
  - (a) detailed baseline data;
  - (b) a description of:
    - the relevant statutory requirements (including any relevant approval, licence or lease conditions);
    - any relevant limits or performance measures/criteria; and
    - the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures;
  - (c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;
  - (d) a program to monitor and report on the:
    - impacts and environmental performance of the development; and
    - effectiveness of any management measures (see (c) above);
  - (e) a contingency plan to manage any unpredicted impacts and their consequences;
  - (f) a program to investigate and implement ways to improve the environmental performance of the development over time;
  - (g) a protocol for managing and reporting any:
    - incidents;
    - complaints;
    - non-compliances with statutory requirements; and
    - exceedances of the impact assessment criteria and/or performance criteria; and
  - (h) a protocol for periodic review of the plan.

*Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.*

Updating & Staging Submission of Strategies, Plans or Programs

3. To ensure the strategies, plans or programs under this consent are updated on a regular basis, and that they incorporate any appropriate mitigation measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.

With the agreement of the Secretary, the Applicant may revise any strategy, plan or program approved under this consent without consulting with all the parties nominated under the applicable conditions of consent.

*Notes:*

- While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the existing operations on site are covered by suitable strategies, plans or programs at all times.
- If the submission of any strategy, plan or program is to be staged, then the relevant strategy, plan or program must clearly describe the specific stage to which the strategy, plan or program applies, the relationship of this stage to any future stages, and the trigger for updating the strategy, plan or program.

#### Revision of Strategies, Plans & Programs

4. Within 3 months of the submission of an:
- (a) Annual Review under condition 9 below;
  - (b) incident report under condition 7 below;
  - (c) audit report under condition 10 below; and
  - (d) any modifications to this consent,
- the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent, to the satisfaction of the Secretary.

*Note: This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.*

#### Adaptive Management

5. The Applicant shall assess and manage development-related risks to ensure that there are no exceedances of the criteria and/or performance measures in Schedule 3. Any exceedance of these criteria and/or performance measures constitutes a breach of this consent and may be subject to penalty or offence provisions under the EP&A Act or EP&A Regulation.

Where any exceedance of these criteria and/or performance measures has occurred, the Applicant shall, at the earliest opportunity:

- (a) take all reasonable and feasible measures to ensure that the exceedance ceases and does not recur;
  - (b) consider all reasonable and feasible options for remediation (where relevant) and submit a report to the Department describing those options and any preferred remediation measures or other course of action; and
  - (c) implement remediation measures as directed by the Secretary,
- to the satisfaction of the Secretary.

#### COMMUNITY CONSULTATIVE COMMITTEE

6. The Applicant shall operate a Community Consultative Committee (CCC) for the development, to the satisfaction of the Secretary. This CCC must be operated in general accordance with the *Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects* (Department of Planning, 2007, or its latest versions)

*Notes:*

- The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.
- In accordance with the guideline, the committee should be comprised of an independent chair and appropriate representation from the Applicant, Council, and the local community.

#### REPORTING

##### Incident Reporting

7. The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.



### Regular Reporting

8. The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.

### ANNUAL REVIEW

9. By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:
- describe the development (including rehabilitation and road maintenance) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;
  - include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against:
    - the relevant statutory requirements, limits or performance measures/criteria;
    - requirements of any plan or program required under this consent;
    - the monitoring results of previous years; and
    - the relevant predictions in the documents listed in condition 2 of Schedule 2;
  - identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;
  - identify any trends in the monitoring data over the life of the development;
  - identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and
  - describe what measures will be implemented over the current calendar year to improve the environmental performance of the development.

The Applicant shall ensure that copies of the Annual Review are submitted to Council and are available to the Community Consultative Committee (see condition 6 of Schedule 5) and any interested person upon request.

### INDEPENDENT ENVIRONMENTAL AUDIT

10. By 30 September 2016, and every 3 years thereafter, unless the Secretary directs otherwise, the Applicant shall commission and pay the full cost of an Independent Environmental Audit of the development. This audit must:
- be conducted by suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Secretary;
  - include consultation with the relevant agencies;
  - assess the environmental performance of the development and whether it is complying with the relevant requirements in this consent and any relevant EPL and/or Water License (including any assessment, plan or program required under these approvals);
  - review the adequacy of any approved strategy, plan or program required under these approvals; and
  - recommend measures or actions to improve the environmental performance of the development, and/or any assessment, plan or program required under these approvals.

*Note: This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Secretary.*

11. Within 6 weeks of commissioning this audit, or as otherwise agreed by the Secretary, the Applicant shall submit a copy of the audit report to the Secretary, together with its response to any recommendations contained in the audit report.

### ACCESS TO INFORMATION

12. By 31 December 2016, unless otherwise agreed by the Secretary, the Applicant shall:
- make the following information publicly available on its website:
    - the documents listed in condition 2 of Schedule 2;
    - current statutory approvals for the development;
    - approved strategies, plans or programs;
    - a summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent;
    - a complaints register, which is to be updated on a quarterly basis;
    - the Annual Reviews (over the last 5 years);

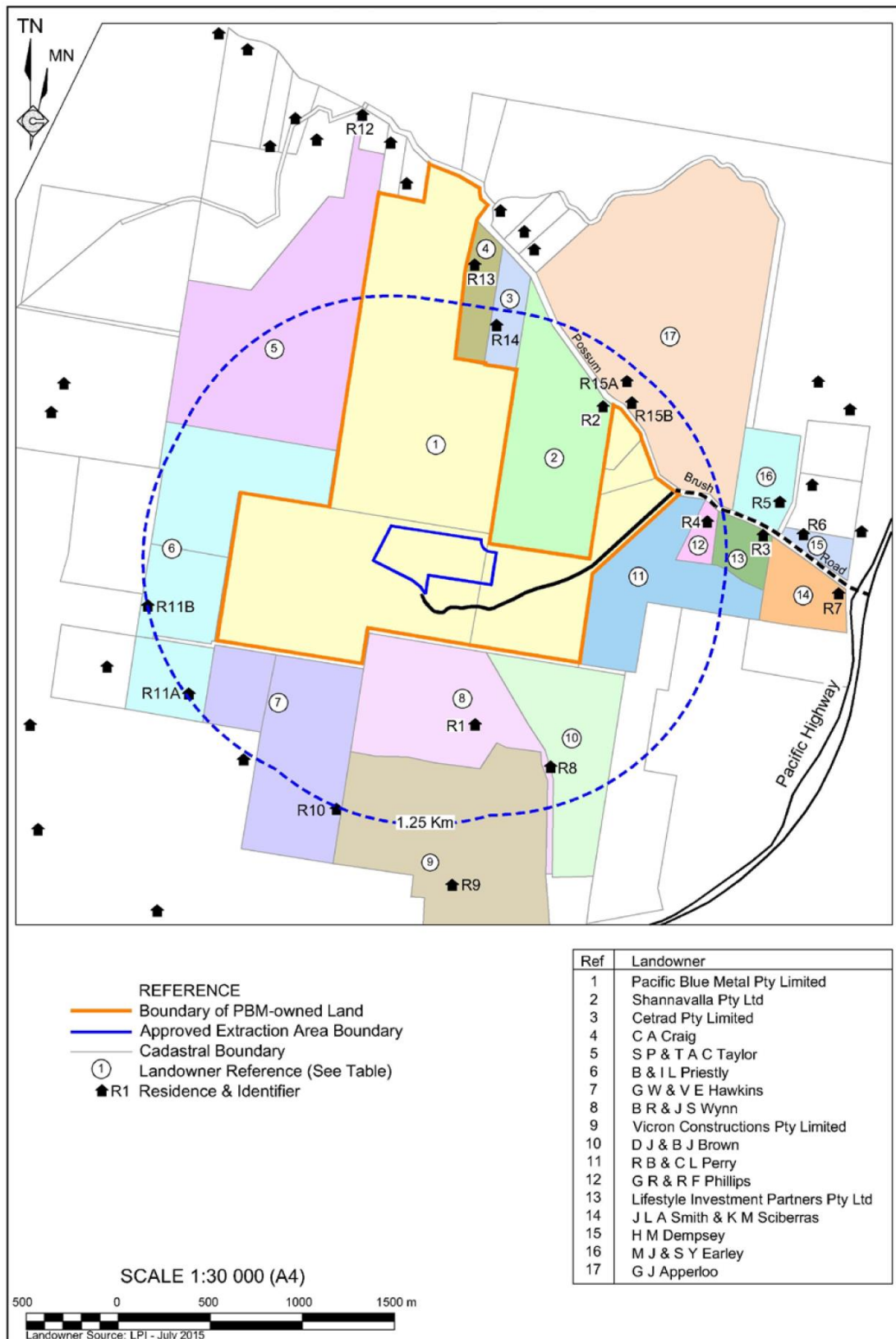
- any independent environmental audit, and the Applicant's response to the recommendations in any audit; and
  - any other matter required by the Secretary; and
- (b) keep this information up-to-date, to the satisfaction of the Secretary.



APPENDIX 1: DEVELOPMENT LAYOUT



APPENDIX 2: NOISE RECEIVER LOCATIONS



### APPENDIX 3: NOISE COMPLIANCE ASSESSMENT

#### Applicable Meteorological Conditions

1. The noise criteria in Table 2 apply under all meteorological conditions except the following:
  - (a) monitoring locations for the collection of representative noise data;
  - (b) wind speeds greater than 3 metres/second at 10 metres above ground level; or
  - (c) stability category F temperature inversion conditions and wind speeds greater than 2 metres/second at 10 metres above ground level; or
  - (d) stability category G temperature inversion conditions.

#### Determination of Meteorological Conditions

2. Except for wind speed at microphone height, the data to be used for determining meteorological conditions shall be that recorded by the meteorological station required under condition 33 of Schedule 3.

#### Compliance Monitoring

3. Attended monitoring is to be used to evaluate compliance with the relevant conditions of this consent.
4. Unless otherwise directed by the Secretary, attended quarterly monitoring is to be used to evaluate compliance with the relevant conditions of this consent.

*Note: The Secretary may direct that the frequency of attended monitoring increase or decrease at any time during the life of the development.*

5. Unless otherwise agreed with the Secretary, this monitoring is to be carried out in accordance with the relevant requirements for reviewing performance set out in the *NSW Industrial Noise Policy* (as amended from time to time), in particular the requirements relating to:
  - (a) monitoring locations for the collection of representative noise data;
  - (b) meteorological conditions during which collection of noise data is not appropriate;
  - (c) equipment used to collect noise data, and conformity with Australian Standards relevant to such equipment; and
  - (d) modifications to noise data collected, including for the exclusion of extraneous noise and/or penalties for modifying factors apart from adjustments for duration.



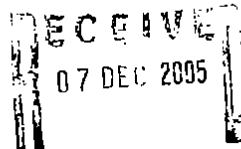
07/12 2005 15:55 FAX 0265543250

PACIFIC BLUE

01

1127/2005D  
Initials: bb:cmb

Enquiries: Bruce Byatt



Administration Centre 2 Pulteney Street  
PO Box 482, Taree NSW 2430  
DX 7020, Taree

## NOTICE OF DETERMINATION DEVELOPMENT APPLICATION No. 1127/2005D

Issued under the Environmental Planning & Assessment Act 1979 Sec 81(1)

### Applicant:

Pacific Blue Metal Pty Ltd  
113 Possum Brush Road  
POSSUM BRUSH NSW 2430

### DEVELOPMENT DETAILS

Property Owner:	Pacific Blue Metal Pty Ltd
Property Details:	115 Possum Brush Road, POSSUM BRUSH DP 753195 Lot 109
Development Details:	Asphalt plant
Building Code of Australia Building Classification:	8

### DETERMINATION

Determination:	CONSENT GRANTED SUBJECT TO CONDITIONS ATTACHED
Date determined:	25 July 2005
Consent to operate from:	25 July 2005
Consent to lapse on:	25 July 2010
Consent Authority:	Greater Taree City Council
Attachments:	Endorsed plans Conditions of Consent

Phone 02 6592 5388 • Fax 02 6592 5311  
Email [gtaree@gtcc.nsw.gov.au](mailto:gtaree@gtcc.nsw.gov.au) • Web: [www.gtcc.nsw.gov.au](http://www.gtcc.nsw.gov.au)

CHECKED

07/12 2005 15:55 FAX 0265543250

PACIFIC BLUE

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### OTHER APPROVALS

Local Government Act 1993 Approvals Nil  
General Terms of Other Approvals Nil

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### NOTES TO APPLICANTS

**THIS CONSENT DOES NOT PERMIT THE COMMENCEMENT  
OF BUILDING WORKS.**

**PLEASE ENSURE THAT A RELATED CONSTRUCTION  
CERTIFICATE HAS BEEN ISSUED WHICH ALLOWS  
COMMENCEMENT OF BUILDING WORK.**

**Reasons for Conditions**

The conditions have been imposed in order to safeguard the present and likely future amenity of the locality and to ensure a satisfactory standard of development.

**Review of Determination**

Section 82A of the Environmental Planning & Assessment Act provides that an applicant may, within 12 months of receipt of this notice, request a review of the determination.

**Right of Appeal**

If you are dissatisfied with this decision, Section 97 of the Environmental Planning and Assessment Act 1979 gives you the right to appeal the Land and Environment Court within 12 months after the date on which you receive this notice.

Section 97 of the Environmental Planning and Assessment Act 1979 does not apply to the determination of a development application for State significant development or local designated development that has been the subject of a Commission of Inquiry.

  
BRUCE BYATT  
MANAGER, DEVELOPMENT CONTROL

Dated: 25 July 2005

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#### CONDITIONS OF APPROVAL 1127/2005D

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**Condition No 1.**

The development of the site being carried out generally in accordance with the Statement of Environmental Effects prepared by R.W. Corkery & Co dated April 20058 as amended by the following conditions.

**Condition No 2.**

A Construction Certificate issued by the principal certifying authority is to be deposited with Council at least 48 hours prior to commencement of any building work on the site.

**Condition No 3.**

Payment of the prescribed Long Service Levy Fee prior to the issue of a Construction Certificate.

**Condition No 4.**

The applicant is to repair any damage to existing roads caused during the construction works, in accordance with Council requirements, prior to the issue of an Occupation Certificate.

**Condition No 5.**

Gross Pollutant Traps (GPT) are to be installed at the last inlet pits before stormwater enters receiving waters. Details of the GPTs, prepared in accordance with Council's Stormwater Management Plan are to be submitted with the engineering drawings. All future maintenance of the GPTs on private land is the responsibility of the landowner.

**Condition No 6.**

All adjustments to existing utility services made necessary by the development are to be undertaken by the developer at no cost to Council.

**Condition No 7.**

The applicant is to repair any damage to existing roads caused during the construction works, in accordance with Council requirements, prior to the issue of an Occupation Certificate.

**Condition No 8.**

Compliance with the General Terms of approval issued by the Department of Environment and Conservation (attached).

**Condition No 9.**

The plant being operated in accordance with the details provided in the Statement of Environmental Effects.

**Condition No 10 (Added 18 November 2010).**

Despite the requirements of Conditions 8 and 9 the asphalt plant will be permitted to operate 24 hours per day from 6.30am Monday to 10.00pm Friday for a maximum of 60 days in any one calendar year. A monthly report providing details of night time operations undertaken shall be available to Council on request.

**Condition No 11 (Added 18 November 2010).**

Compliance with any requirements imposed within an Environment Protection Licence issued by the Environment Protection Authority.

**Condition No 12 (Added 10 December 2010).**

The noise level generated by trucks associated with Pacific Blue Metal Pty Ltd travelling along Possum Brush Road shall not exceed  $Leq_{1hr} 50dB(A)$  within 1m of the façade on any residence located between the quarry entrance and Pacific Highway during night-time operation. The proponent shall commission an independent consultant to monitor the noise bi-annually at the closest residence to Possum Brush Road between the quarry entrance and Pacific Highway. The monitoring shall be undertaken during a period representative of the maximum number of vehicles travelling on the road during the night-time period. The monitoring results shall be presented to Council and Pacific Blue Metal Community Consultative Committee within one month of the monitoring being completed. That the affected residents of Possum Brush Road be notified when night time operations and noise monitoring will be undertaken.

**Condition No 13 (Added 18 November 2010).**

The review of the Environmental Management Plan, required under condition 27 of Development Consent 283/1997D is to take into account the potential impact of the extended operations on local fauna, the effectiveness of the existing mitigation measures and any additional measures required to monitor and reduce potential impacts.



Greater Taree  
City Council

18 July 2014

Ref: 769/2009/DA  
Enquiries: Arinna Fotheringham

Pacific Blue Metal Pty Ltd  
PO Box 6  
NABIAC NSW 2312

## Development Application Notice of Determination

Issued under the Environmental Planning and Assessment Act 1979  
Sections 80, 80A & 81(1)(a)

Development Consent No: 769/2009/DA

Property Address: Lot 109 DP 753195  
115 Possum Brush Road Possum Brush NSW 2430

Description: Recycling plant

Determination: **Approved Subject to Conditions**

Determination Date: 16 July 2014

Consent to lapse on: 16 July 2019  
(if physical commencement has not occurred)

Statutory Instrument: Greater Taree Local Environmental Plan 2010

Other Approvals: Nil

ABN 45 851 497 602  
2 Pulteney Street Taree | PO Box 482 Taree NSW 2430  
T 02 6592 5399 F 02 6592 5311  
[www.gtcc.nsw.gov.au](http://www.gtcc.nsw.gov.au)



## General Requirements

The following conditions of consent are general conditions applying to the development.

1. The development is to be carried out in accordance with the following approved development plans:

Title/Name	Drawing/ No.	Revision/ Issue	Date	Prepared by
PBM Recycling	Proposed Locations	-	-	Pacific Blue Metal Pty Ltd

2. The NSW Environment Protection Authority has given General Terms of approval in relation to the development. The General Terms of approval are as follows:

- a. Trucks associated with the waste recycling activities must not enter the premises prior to 7:00 am.

Note: The necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the L<sub>Amax</sub> noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.

- b. Stormwater from all areas of the premises which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and/or pollution control measures/structures.
- c. Erosion and sediment control and/or pollution measures and/or structures to capture stormwater from all areas of the premises must be installed and maintained.
- d. The proponent must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.
- e. The proponent must not cause, permit or allow any waste to be received at the Premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. Any waste received at the Premises must only be used for activities referred to in relation to that waste in the column titled "Activity" in the table below. Any waste received at the Premises is subject to those limits or condition, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below. This condition does not limit any other conditions in this Licence.

Waste	Description	Activity	Other Limits
General Solid Waste (Non-putrescible)	Concrete, Bricks, Asphalt and Tiles	Resource Recovery/Waste Storage	Total 10,000 tonnes per annum
General Solid Waste (Non-putrescible)	Building and Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: <i>Classifying Waste</i>	Resource Recovery/Waste Storage	
General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51A of the <i>Protection of the Environment Operations (Waste) Regulation 2005</i>	As specified in each particular resource recovery exemption.	NA



- f. The proponent must have in place at all times a quality assurance program to ensure only the types of wastes permitted above are received at the premises. This quality assurance program must include:
  - (i) Inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA;
  - (ii) Inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA;
  - (iii) Documenting all loads of waste that are received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste).
- g. Prior to any wastes rejected by the Quality Assurance Program leaving the premises the proponent must obtain from the owner of such wastes details of where that waste will be disposed legally.
- h. The proponent must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.
- i. Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.
- j. All residual waste by-products from the waste recycling operations conducted on-site (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.
- k. The proponent must supply to the EPA annually with the Environment Protection Licence Annual Return a plan and table showing, as at the licence anniversary date:
  - (i) The location of all waste stockpiles on the premises;
  - (ii) The type of waste in each stockpile;
  - (iii) The height of each stockpile;
  - (iv) The amount of waste in each stockpile in tonnes; and
  - (v) The total amount of waste in all stockpiles in tonnes and whether the limit of 10,000 tonnes has been exceeded.
- 3. Any soils accepted for beneficiation/recycling must not include organic material.
- 4. The existing Environment Protection Licence 3393 issued by the EPA under the Protection of the Environment Operations Act 1997 must be amended to include the recycling plant. A copy of the amended licence must be submitted to Council prior to the commencement of the operations.

5. Separate metal recycling not resulting as a by-product of the break up of reinforced concrete and the like will not be permitted.

#### Reasons for Conditions

1. The conditions have been imposed in order to safeguard the present and likely future amenity of the locality and to ensure a satisfactory standard of development.

#### Are you dissatisfied with conditions of consent?

If you are unhappy with conditions of consent discuss your concerns with the officer who dealt with your application. You may submit an application to Council to modify the consent under Section 96 of the Environmental Planning & Assessment Act, 1979. You will need to provide reasons why the conditions should be changed or deleted. You may lodge a Section 96 application at any time after the notice of determination. If you are not happy with Council's decision on your request for modification, then you may appeal to the Land & Environment Council within six (6) months of the notification by Council.

#### Right of Review

You may request Council to review its decision under Section 82A of the Environmental Planning and Assessment Act, 1979. Such a request must be in writing together with payment of the appropriate fee and made within six (6) months of the date of the determination, or if there is an appeal to the Land and Environment Court, up to the time when the court hands down its decision. In reviewing its decision Council is able to consider alterations to the above plans, provided that the Development Application remains substantially the same as the one for which the consent was originally sought, and the changes are publicly notified.

**NOTE:** This clause does not relate to integrated development, designated development, complying development or applications determined by the Joint Regional Planning Panel or applications previously considered under Section 82A of the Environmental Planning and Assessment Act 1979.

#### Right of Appeal

If you are dissatisfied with this decision, Section 97 of the *Environmental Planning and Assessment Act 1979* gives you the right to appeal to the Land and Environment Court within six (6) months after the date on which you receive this notice.

Section 97 of the Environmental Planning and Assessment Act 1979 does not apply to the determination of a development application for State significant development or local designated development that has been the subject of a Commission of Inquiry.

  
**Arnna Fotheringham**  
**Development Planner**

Dated: 18 July 2014



Greater Taree City Council  
Development Consent... 769/2009/DA  
APPROVED 16 JUL 2014  
Pet. [Signature]

**PBM Recycling**  
**Proposed Locations**



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



### Licence Details

Number:	3393
Anniversary Date:	17-August

### Licensee

PACIFIC BLUE METAL PTY. LTD.

PO BOX 6

NABIAK NSW 2312

### Premises

PACIFIC BLUE METAL

113/115 POSSUM BRUSH ROAD

POSSUM BRUSH NSW 2430

### Scheduled Activity

Crushing, grinding or separating

Extractive activities

Resource recovery

Waste storage

### 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
Recovery of general waste	Any general waste recovered
Waste storage - other types of waste	Any other types of waste stored

### Region

North - Hunter

Ground Floor, NSW Govt Offices, 117 Bull Street  
NEWCASTLE WEST NSW 2302

Phone: (02) 4908 6800

Fax: (02) 4908 6810

PO Box 488G NEWCASTLE

NSW 2300



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



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## Environment Protection Licence

Licence - 3393



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## Environment Protection Licence

Licence - 3393



### 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).



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



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:

PACIFIC BLUE METAL PTY. LTD.
PO BOX 6
NABIAK NSW 2312

subject to the conditions which follow.



Section 55 Protection of the Environment Operations Act 1997

# Environment Protection Licence

Licence - 3393



## 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
Resource recovery	Recovery of general waste	Any general waste recovered
Waste storage	Waste storage - other types of waste	Any other types of waste stored

Note: Limits on resource recovery and waste storage are detailed in condition L3.1

### A2 Premises or plant to which this licence applies

A2.1 The licence applies to the following premises:

Premises Details
PACIFIC BLUE METAL
113/115 POSSUM BRUSH ROAD
POSSUM BRUSH
NSW 2430
LOT 66 DP 608957, LOT 3 DP 701903, LOT 109 DP 753195
THOSE AREAS OF THE ABOVE LOT & DPS AS DEFINED ON THE AERIAL MAP TITLED "PACIFIC BLUE METAL PROPOSED EPL ADJUSTMENT" DATED 11/03/2016 (DOC16/139907 ON FILE EF13/3417).

### A3 Other activities

A3.1 This licence applies to all other activities carried on at the premises, including:

Ancillary Activity



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



Bitumen mixing

### A4 Information supplied to the EPA

A4.1 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
1	Stack	Stack	Asphalt plant

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.

<i>Water and land</i>			
EPA Identification no.	Type of Monitoring Point	Type of Discharge Point	Location Description
2	Discharge to Waters Discharge Quality Monitoring	Discharge to Waters Discharge Quality Monitoring	The discharge from Sediment Dam 3 as shown in Figure 2.1 of the EIS of September 1997 completed by ERM Mitchell McCotter Pty Ltd. This figure has been filed on DECCW file number 271458A2



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



### 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/s 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/s.
- L2.4 Air Concentration Limits

##### POINT 1

Pollutant	Units of measure	100 percentile concentration limit	Reference conditions	Oxygen correction	Averaging period
Solid Particles	milligrams per cubic metre	50			

- L2.5 Water and/or Land Concentration Limits

##### POINT 2

Pollutant	Units of Measure	50 percentile concentration limit	90 percentile concentration limit	3DGM concentration limit	100 percentile concentration limit
Oil and Grease	Visible				No visible
pH	pH				6.5-8.5
Total suspended solids	milligrams per litre				50



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



### L3 Waste

L3.1 The licensee must not cause, permit or allow any waste to be received at the premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below.

Any waste received at the premises must only be used for the activities referred to in relation to that waste in the column titled "Activity" in the table below.

Any waste received at the premises is subject to those limits or conditions, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below.

This condition does not limit any other conditions in this licence.

Code	Waste	Description	Activity	Other Limits
NA	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under clause 51A of the Protection of the Environment Operations Act (Waste) Regulation 2005	Resource recovery Waste storage	NA
NA	General solid waste (non-putrescible)	Concrete, Bricks, Asphalt, Tiles.  Building and Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1 : Classifying Waste	Resource recovery Waste storage	Total 10,000 tonnes per annum

L3.2 The authorised amount of waste permitted on the premises must not exceed 10,000 tonnes at any time.

### L4 Noise limits

L4.1 Noise generated at the premises must not exceed the noise limits presented in the Table below.

Location	Limit LAeq 15 minute (dBA)	Noise Limit L <sub>Amax</sub> (dBA)
Receiver Location 1 – 5 St Peters Cl, Possum Brush	39	45
Receiver Location 2 – 175 Possum Brush Rd, Possum Brush	38	45
Receiver Location 3 – 55 Possum Brush Rd, Possum Brush	37	45

Note: The LAeq limits apply at all times, that is, Daytime, Evening and Night Time Operations.



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



The LAmx limits apply to the "night-time" operations.

Note: Receiver Locations are shown in the plan titled Figure 2 Location of Nearest Sensitive Receptors, which is found within the report prepared by Heggies titled "Pacific Blue Metal Quarry Noise Compliance Assessment Asphalt Plant Night-time Operations", dated 14 April 2010. This report has been filed on DECCW file LIC08/1650-02.

- L4.2 For the purpose of the Noise Limits specified in the table above:
- a) Day is defined as the period from 7am to 6pm Monday to Saturday and 8am to 6pm Sunday and Public Holiday's.
  - b) Evening is defined as the period 6pm to 10pm.
  - c) Night is defined as the period from 10pm to 7am Monday to Saturday and 10pm to 8am Sunday and Public Holiday's.
- L4.3 The noise limits specified in the table above apply under all meteorological conditions except 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 the condition above, stability category temperature inversion conditions 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 For the purposes of determining the noise generated at the premises a Class 1 or 2 noise monitoring equipment as defined by AS IEC61672.1-2004 and AS IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing, must be used.
- L4.6 To determine compliance:
- a) with the Leq(15 minute) noise limits in the table above, the noise monitoring equipment must be located:
    - (i) within 30 metres of a dwelling façade where any dwelling on the property is situated more than 30 metres from the property boundary that is closest to the premises;
    - (ii) approximately on the boundary where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises;
    - (iii) within approximately 50 metres of the boundary of a National Park or a Nature Reserve.
  - b) the noise monitoring equipment must be located in a position that is:
    - (i) at the most affected point at a location where there is no dwelling at the location; or
    - (ii) at the most affected point within an area at a location prescribed by item (a) of this condition
- L4.7 A breach of this Environment Protection Licence will still occur where noise generated from the premises in excess of the appropriate limit specified in this licence is detected:
- a) in an area at a location other than an area prescribed by the condition above; and/or
  - b) at a point other than the most affected point at a location.
- L4.8 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.



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



### L5 Blasting

- L5.1 The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.2 The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.3 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.4 Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.
- L5.5 To determine compliance with the blasting limits specified in the above four (4) conditions:  
(a) Airblast overpressure and ground vibration levels must be measured at at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital for all blasts carried out in or on the premises; and  
(b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.
- L5.6 Blasting operations at the premises may only take place between 9:00am-3:00pm Monday to Friday. Blasting is not permitted on public holidays.
- Blasting outside the hours specified above can only take place with the written approval of the EPA.
- L5.7 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:*

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



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### L6 Hours of operation

- L6.1 Construction work at the premises must only be conducted between 7am to 6pm Monday to Friday and between 8am to 1pm Saturday with no works on Sunday or public holidays.
- L6.2 All other activities at the premises must only be carried out between the hours detailed below:

#### *Hours of Operation for General Quarry Operations*

- a) All quarrying activities must be conducted between 6.30am and 6pm Monday to Friday, and between 7am and 3pm Saturdays, except as detailed below.

#### *Permissible Times for Vehicles Entering the Premises*

- b) Trucks used for the transport of product are not permitted to enter the premises before 6.15am Monday to Friday or 6.45am Saturdays. In respect of these trucks entering the premises, the licensee must erect and maintain a gate across the site access road 200 metres from the product stockpile area or in another area agreed by Council, which must not be opened prior to 6.30am Monday to Friday or 7am Saturday to allow access to the stockpile.
- c) No other trucks or heavy machinery are to enter the premises prior to 6.30am Monday to Friday or prior to 7am Saturdays.
- d) Loaded trucks or heavy machinery are not permitted to enter the premises after 6pm Monday to Friday or after 3pm Saturdays.
- e) Unloaded trucks or heavy machinery, except those described in clause f) and i) below, are not permitted to enter the premises after the hours of 6pm Monday to Friday and after 3pm Saturdays.
- f) Trucks containing returned loads of product and trucks owned or operated by the licensee, for licensed activities, and normally garaged at the premises, may enter the premises after the hours of 6pm Monday to Friday and after 3pm Saturdays only in the following circumstances:
- The truck left the premises loaded with product prior to 6pm Monday to Friday or prior to 3pm Saturday.
  - The truck travelled directly to the delivery site by the most direct route.
  - The truck travelled directly back to the premises from the delivery site by the most direct route.
  - Records must be kept for all trucks returning to the premises after the hours of 6pm Monday to Friday and 3pm Saturdays which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises.
- Note: These records may take the form of weighbridge records and security camera date stamps.
- v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15 am Monday.

#### *Permissible Times for Vehicles Leaving the Premises*

- g) No trucks or heavy machinery are to leave the premises prior to 6.30am Monday to Friday or 7am Saturdays.

#### *Hours of Operation for Asphalt Plant*

Note: Greater Taree City Council has issued development consent for the asphalt plant to operate on a 24 hours per day basis under certain circumstances. The conditions below reflect that consent.

- h) The exception to operational hours described in clauses a) to g) above is the operational hours of the asphalt plant in the circumstances set out below:
- The asphalt plant and associated truck movements are permitted to operate 24 hours per day during the period 6.30am Monday to 10pm Friday for a maximum of 60 days in any one calendar year. (For the purposes of this licence the calendar year is the same as the reporting period year.)
  - The licensee must notify the Manager Hunter Region of the EPA when each night operations will be undertaken, by email at [hunter.region@epa.nsw.gov.au](mailto:hunter.region@epa.nsw.gov.au), prior to the night time operations being undertaken.





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i) Trucks containing returned loads of product and trucks owned or operated by the licensee which are normally garaged at the premises and involved in the delivery of asphalt during the 60 days per year of night time asphalt plant operations may enter the premises after 10pm Friday only in the following circumstances;

- i. The truck left the premises loaded with product prior to 10pm Friday.
- ii. The truck travelled directly to the delivery site by the most direct route.
- iii. The truck travelled directly back to the premises from the delivery site by the most direct route.
- iv. Records must be kept for all trucks returning to the premises after 10pm Friday which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises.

Note: These records may take the form of weighbridge records and security camera date stamps.

- v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15 am Monday.

### *Hours of Operation for Maintenance Activities*

j) Maintenance of equipment strictly in the workshop or plant areas is permitted between the hours of 6am to 9pm Monday to Saturday. Any maintenance carried out within these hours but outside the quarrying activities hours set out in clause a) must be inaudible at any residence (except residences owned by the licensee).

### *No Activities on Sundays or Public Holidays*

k) No works, maintenance, truck or machinery movements in or out of the premises are permitted on Sundays or Public Holidays.

### *Extension of Hours of Operation in emergency and other circumstances*

l) The hours of operation of the quarrying activities as set out in clause a) above can only be extended for an emergency or for circumstances involving the upgrading of the Pacific

### *Highway, on a short term basis, with Council approval. A licence variation is not required in these circumstances under the following conditions:*

- i. The Licensee must notify the EPA Manager Hunter Region by facsimile on (02) 49086810 of the intention to apply to council to extend the quarry's operational hours and the circumstances surrounding the application.
- ii. The licensee must notify the EPA Manager Hunter Region by facsimile on (02) 49086810 of the council's decision in written form.
- iii. The licensee must keep a log of all such extensions for inspection if required.

L6.3 Trucks associated with the waste recycling activities must not enter the premises prior to 07:00 am

Note: The necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the  $LA_{MAX}$  noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.

## **L7 Potentially offensive odour**

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

Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must



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not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.

### 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 The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.

O3.2 Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.

#### O4 Processes and management

O4.1 Stormwater from all areas of the premises, which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and or pollution control measures/structures.

O4.2 Erosion and sediment control and/or pollution measures and/or structures to capture stormwater from all areas of the premises must be installed and maintained.

O4.3 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.

O4.4 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);



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- 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.

### O5 Waste management

- O5.1 The Licensee must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.
- O5.2 The Licensee must have in place at all times a quality assurance program to ensure only the types of wastes permitted above are received at the premises. This quality assurance program must include:
  - a. Inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by this licence;
  - b. Inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by this licence;
  - c. Documenting all loads of waste that are received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste).
- O5.3 Prior to any wastes rejected by the Quality Assurance Program leaving the premises the Licensee must obtain from the owner of such wastes details of where that waste will be disposed legally.
- O5.4 The Licensee must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.
- O5.5 Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.
- O5.6 All residual waste by-products from the waste recycling operations conducted on-site (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.

## 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;



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- 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 2

Pollutant	Units of measure	Frequency	Sampling Method
Oil and Grease	Visible	Each overflow event	Visual Inspection
pH	pH	Each overflow event	Grab sample
Total suspended solids	milligrams per litre	Each overflow event	Grab sample

### 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 any tests are conducted.

### M4 Weather monitoring

M4.1 A meteorological weather station must be maintained at the premises so as to be capable of continuously monitoring the parameters specified in the condition below.

Note: For the purposes of this condition and noise limit conditions it has been agreed that the meteorological weather station located at the Failford Quarry is acceptable for use and the weather conditions at Failford Quarry are deemed identical to those at the premises.



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- M4.2 For each monitoring point specified in the table below the licensee must monitor (by sampling and obtaining results by analysis) the parameters specified in Column 1. The licensee must use the sampling method, units of measure, averaging period and sample at the frequency, specified opposite in the other columns.

Parameter	Units of Measure	Frequency	Averaging Period	Sampling Method
Rainfall	millimetres	Continuous	1 hour	AM-4
Wind speed @ 10 metres	metres per second	Continuous	15 minute	AM-2 and AM-4
Wind direction @ 10 metres	degrees	Continuous	15 minute	AM-2 and AM-4
Temperature @ 2 metres	degrees celcius	Continuous	15 minute	AM-4
Temperature @ 10 metres	degrees celcius	Continuous	15 minute	AM-4
Sigma theta @ 10 metres	degrees	Continuous	15 minute	AM-2 and AM-4
Additional Requirements: - Siting	-	-	-	AM-1 and AM-4
- Measurement	-	-	-	AM-2 and AM-4

### 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.





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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.

### M7 Other monitoring and recording conditions

#### Requirement to Monitor Noise

M7.1 To determine compliance with the noise limits specified in this licence, attended noise monitoring must be undertaken in accordance with the requirements of conditions titled "Noise limits":

- a) at each one of the locations listed in the noise limits table;
- b) annually beginning 1 January each year;
- c) occur at the time of year when noise levels are expected to be highest, that is, generally winter conditions;
- d) occur at a time corresponding to usual or busy quarry activities;
- e) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy; and
- f) occur at a time corresponding to "normal" or above average production conditions and truck movements.

M7.2 The requirement to continue this monitoring will be assessed upon request by the licensee and after several noise compliance tests have been conducted.

## 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,
  7. a Statement of Compliance - Environmental Management Systems and Practices; and
  8. a Statement of Compliance - Environmental Improvement Works.

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.



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- 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 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 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.
- R1.8 The licensee must supply annually with the Environment Protection Licence Annual Return a plan and table showing as at the licence anniversary date:
- 1. The location of all waste stockpiles on the premises;
  - 2. The type of waste in each stockpile;
  - 3. The height of each stockpile;
  - 4. The amount of waste in each stockpiles in tonnes; and
  - 5. The total amount of waste in all stockpiles in tonnes and whether the limit of tonnes has been exceeded.

## R2 Notification of environmental harm

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.

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



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### 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

#### Noise and Blast Monitoring Records supplied with Annual Return

- R4.1 The licensee must supply, with each Annual Return, a Noise Monitoring Report which details the findings of the annual noise monitoring required by this licence. Where any of the noise limits detailed in this licence were exceeded during the monitoring, the report must also detail the reason for the non-compliance and make recommendations as to measures that will be employed to ensure noise limits are met at all times.
- R4.2 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



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(d) an explanation for any missing blast monitoring results.

- R4.3 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.

## 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.

### G2 Other general conditions

#### G2.1 Completed Programs

PRP	Description	Completed Date
PRP 1 - Noise Mitigation Investigations and Report	Assess all reasonable and feasible noise mitigation measures to meet noise limit criteria at sensitive receptors	22-July-2015



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### Dictionary

#### General Dictionary

<b>3DGM [in relation to a concentration limit]</b>	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
<b>Act</b>	Means the Protection of the Environment Operations Act 1997
<b>activity</b>	Means a scheduled or non-scheduled activity within the meaning of the Protection of the Environment Operations Act 1997
<b>actual load</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>AM</b>	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> .
<b>AMG</b>	Australian Map Grid
<b>anniversary date</b>	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.
<b>annual return</b>	Is defined in R1.1
<b>Approved Methods Publication</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>assessable pollutants</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>BOD</b>	Means biochemical oxygen demand
<b>CEM</b>	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> .
<b>COD</b>	Means chemical oxygen demand
<b>composite sample</b>	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.
<b>cond.</b>	Means conductivity
<b>environment</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>environment protection legislation</b>	Has the same meaning as in the Protection of the Environment Administration Act 1991
<b>EPA</b>	Means Environment Protection Authority of New South Wales.
<b>fee-based activity classification</b>	Means the numbered short descriptions in Schedule 1 of the Protection of the Environment Operations (General) Regulation 2009.
<b>general solid waste (non-putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997





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<b>flow weighted composite sample</b>	Means a sample whose composites are sized in proportion to the flow at each composites time of collection.
<b>general solid waste (putrescible)</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>grab sample</b>	Means a single sample taken at a point at a single time
<b>hazardous waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>licensee</b>	Means the licence holder described at the front of this licence
<b>load calculation protocol</b>	Has the same meaning as in the Protection of the Environment Operations (General) Regulation 2009
<b>local authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>material harm</b>	Has the same meaning as in section 147 Protection of the Environment Operations Act 1997
<b>MBAS</b>	Means methylene blue active substances
<b>Minister</b>	Means the Minister administering the Protection of the Environment Operations Act 1997
<b>mobile plant</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>motor vehicle</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>O&amp;G</b>	Means oil and grease
<b>percentile [in relation to a concentration limit of a sample]</b>	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.
<b>plant</b>	Includes all plant within the meaning of the Protection of the Environment Operations Act 1997 as well as motor vehicles.
<b>pollution of waters [or water pollution]</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>premises</b>	Means the premises described in condition A2.1
<b>public authority</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>regional office</b>	Means the relevant EPA office referred to in the Contacting the EPA document accompanying this licence
<b>reporting period</b>	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.
<b>restricted solid waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>scheduled activity</b>	Means an activity listed in Schedule 1 of the Protection of the Environment Operations Act 1997
<b>special waste</b>	Has the same meaning as in Part 3 of Schedule 1 of the Protection of the Environment Operations Act 1997
<b>TM</b>	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> .



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



<b>TSP</b>	Means total suspended particles
<b>TSS</b>	Means total suspended solids
<b>Type 1 substance</b>	Means the elements antimony, arsenic, cadmium, lead or mercury or any compound containing one or more of those elements
<b>Type 2 substance</b>	Means the elements beryllium, chromium, cobalt, manganese, nickel, selenium, tin or vanadium or any compound containing one or more of those elements
<b>utilisation area</b>	Means any area shown as a utilisation area on a map submitted with the application for this licence
<b>waste</b>	Has the same meaning as in the Protection of the Environment Operations Act 1997
<b>waste type</b>	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: 28-January-2000



Section 55 Protection of the Environment Operations Act 1997

## Environment Protection Licence

Licence - 3393



### End Notes

1	Licence varied by notice 1006101, issued on 16-Oct-2001, which came into effect on 10-Nov-2001.
2	Licence varied by notice 1083017, issued on 15-Apr-2008, which came into effect on 15-Apr-2008.
3	Condition A1.3 Not applicable varied by notice issued on <issue date> which came into effect on <effective date>
4	Licence varied by notice 1110571, issued on 14-Jan-2010, which came into effect on 14-Jan-2010.
5	Licence varied by notice 1113081, issued on 08-Apr-2010, which came into effect on 08-Apr-2010.
6	Licence varied by notice 1124241, issued on 09-Feb-2011, which came into effect on 09-Feb-2011.
7	Licence varied by notice 1126997, issued on 20-Jun-2011, which came into effect on 20-Jun-2011.
8	Licence varied by notice 1503553 issued on 04-Jan-2012
9	Licence varied by notice 1504127 issued on 28-Mar-2014
10	Licence varied by notice 1525530 issued on 24-Nov-2014
11	Licence varied by notice 1532894 issued on 01-Sep-2015
12	Licence varied by notice 1539774 issued on 26-May-2016



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**Table A1.1**  
**Compliance with Development Consent DA 283/97 Modification 3 (Issued originally 25 May 1998)**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

Page 1 of 7

Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
<b>1</b>	Carry out development generally in accordance with: a) Environmental Impact Statement, September 1997; b) Modification Application MOD-52-7-2002-I, 18 July 2002; c) Modification application MOD 105-8-2006, dated 29 August 2006; d) modification application DA 283/97 MOD 3 and accompanying Environmental Assessment, November 2012	No	Observations by R. Corkery and review of all relevant documentation. The only matter that contributed to this non-compliance related to Condition 9(c).
<b>2</b>	Consent for Stage 1, comprising first 21 years of quarrying activity	Yes	Operations during the period 1 July 2015 to 1 April 2016 were undertaken as part of Stage 1
<b>3</b>	A further consent for Stage 2, comprising the subsequent 29 years of quarrying activity to be obtained	Yes	PBM obtained a further consent as required by this condition – Development Consent DA283/97 Mod 4 was granted on 1 April 2016 – see <b>Appendix 1</b> and <b>Table A1.2</b> .
<b>4</b>	Submission of an environmental performance report prior to Stage 2 consent being granted	Yes	The required environmental performance report was submitted to DPE in conjunction with the Development Application and EIS for Stage 2 of the Quarry's operation.
<b>5</b>	New Development Application beyond 50 years	NYA	The term of the development consent has been adjusted in Development Consent DA283/97 Mod 4 to 31 March 2046 (Schedule 2, Condition 6).
<b>6</b>	Surrender of Previous Development Consent	Yes*	-
<b>7</b>	i) Stage 1 extraction to be confined to Area A and Area B as shown in Figure 1 and approved Mod 3 area. ii) Extraction sequences shall generally follow Figures 2 and 3 or as modified by the EMP iii) The depth of extraction shall be restricted to 90m AHD	Yes Yes Yes	Observations by R. Corkery and reference to <b>Figure 2.2</b> . The nominated sequence is generally being followed. Current extraction depths (excluding the Area A Sump) are 90m AHD (Area A) and 100m AHD (Area B).
<b>8</b>	Company required to meet requirements of all relevant legislation	Yes	Source: Quarry Manager and review of all relevant documentation.
<b>9</b>	a) Working Hours are to be within 6:30am to 6:00pm Monday to Friday and 7:00am to 3:00pm Saturday.	Yes	Documentation sighted by R. Corkery (Records of operating hours in <b>Appendix 2 – Table 1</b> .

Yes\* = Compliance established initially – no longer requires compliance assessment

Yes = Compliance established fully during the 2016 audit for the period 1 July 2015 to 31 March 2016

NA = Not Applicable

NYA = Not Yet Applicable

ND = Not Determined





**Table A1.1 (Cont'd)**  
**Compliance with Development Consent DA 283/97 Modification 3 (Issued originally 25 May 1998)**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
<b>9 (Cont'd)</b>	b) Maintenance of equipment strictly in plant and workshop areas 6:00am to 9:00pm Monday to Saturday. Any maintenance outside approved working hours shall be inaudible at any residence.	Yes	It was noted from <b>Appendix 2 – Table 1</b> that no maintenance was undertaken outside the standard quarry operating hours.
	c) Trucks used for the transport of product are not to enter the site prior to 6:15am Monday to Friday and 6:45am Saturday. A gate to be erected across site access road 200m from product stockpile area and shall not be opened to allow unloaded truck access until either 6:30am Monday to Friday or 7:00am Saturday	No	The non-compliance occurred on Saturday 05/09/15 when two trucks delivering flyash for the asphalt plant entered the quarry 5 minutes and 15 minutes before the 6:45am entry time – reported by PBM to EPA on 08/09/15 via email.
	d) No works shall be carried out on Sundays or public holidays	Yes	Documentation sighted – see <b>Appendix 2 – Table 1</b>
<b>10</b>	Extension of working hours for an emergency or circumstances involving the upgrading of the Pacific Highway (with the approval of Council). Maintain a log of all such work and report in EMR	Yes	No extended hours were required for emergency or other circumstances during the period 1 July 2015 to 31 March 2016 ( <b>Appendix 2 – Table 2</b> ).
<b>11</b>	Blasting hours of operation between 9:00am and 3:00pm Monday to Friday. No blasting allowed on public holidays unless in special circumstances	Yes	Documentation – sighted blast record times ( <b>Appendix 2 – Table 3</b> ) The four blasts during the period 1 July 2015 to 31 March 2016 were conducted within the nominated period (i.e. from 12:32pm to 2:15pm)
<b>12</b>	Blasting outside approved hours (between 6:00am and 9:00am and between 3:00pm and 8:00pm) shall only be approved in exceptional circumstances	NA	There was no requirement to blast at times outside the approved hours of blasting.
<b>13</b>	Air blast overpressure and vibration monitoring and control shall generally be carried out in accordance with the recommendations of AS-2187-1993 and in terms of ANZECC Guidelines	Yes	Documentation – sighted monitoring results.
<b>14</b>	Minimise air blast over pressure and vibration using the NONEL system or equivalent (one blast has <5% exceedance in air blast of 115dB (Linear) and vibration of 5mm/sec at any residence outside the quarry) (other than owned by the Company)	Yes	Documentation – sighted monitoring results.
<b>15</b>	No blasting during adverse environmental and atmospheric conditions	Yes	Source: Quarry Manager and blast records although ideal conditions not always present ( <b>Appendix 2 – Table 4</b> ). However, none of the blasts attracted any complaints.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 July 2015 to 31 March 2016			
NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

**Table A1.1 (Cont'd)**  
**ent Consent DA 283/97 Modification 3 (Is**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
16	Undertake, if requested by a property owner, an inspection of dwellings built prior to 1997 to establish their structural condition as a result of blasting.	NA	No requests received during the reporting period.
17	Residents (if requested) will be notified of proposed blasting times (within 2km of active quarry face)	Yes	Six residents were notified prior to each blast during the reporting period, namely, Kelliher, Craythorne, Taylor, Whitton, Winn and Brown (see <b>Appendix 2 – Table 5</b> ).
18	All trucks leaving the site shall comply with RMS and local council legal weight limitations	Yes	Quarry Manager advised all records held confirm legal weights.
19	Submission to Council of Quarterly Report re. daily truck loads over its weighbridge	Yes	Sighted Road Levy Forms ( <b>Table 13 – Appendix 2</b> ) sent to Council on a monthly basis with a cheque – typically within 1 month of the end of each month.
20	No trees or native vegetation shall be destroyed, cut down, or removed from the property outside approved areas without prior written approval	Yes	Limited clearing of vegetation was undertaken during the reporting period but was confined along internal fencelines within the Quarry Area.
21	L <sub>A10(15 minute)</sub> noise level due to normal quarry operation not to exceed 35dB(A) at any residence (other than owned by the Company)	Yes	Compliance monitoring during the reporting period was conducted by Spectrum Acoustics for daytime on 17 September 2015, night-time on 20 October 2015 and evening on 24 November 2015 (see <b>Appendix 4</b> ).
22	Representative noise measurements shall be undertaken over a period of time and include prevailing weather conditions and absence of temperature inversions	Yes	Measurements undertaken by Spectrum Acoustics during the reporting period are considered to be representative.
23	<p>Secondary rock breaking shall be confined to Area A and the Northern Stage in Area B and conducted according to vibration and blast overpressure levels in ANZECC guideline "Technical Basis for Guidelines to Minimise Annoyance Due to Blasting Overpressure and Ground Vibration"</p> <p>Prior to benches providing shielding, an area shall be designated for such operation and construction of temporary bunds to minimise noise impact.</p> <p>EMR to indicate equipment and locations used and to be used together with assessment of any complaints received</p>	Yes	Secondary breakage was undertaken in Area A on three days during the period 1 July 2015 to 31 March 2016 on the 100m AHD level (see <b>Figure 2.2</b> ). <b>Table 6 in Appendix 2</b> records the hours of secondary breakage during this period.

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment																				
24	Submission of Monitoring Program	Yes*	-																				
25	Submission of Water Management Plan	Yes*	-																				
26	Contents of Water Management Plan	Yes*	-																				
27	An Environmental Management Plan to be completed and reviewed every five years following the format outlined in Appendix 8 of the Commission of Inquiry Report	Yes	Reviewed every 5 years, The July 2012 to June 2017 Environmental Management Plan was the current plan for the period 1 July 2015 to 31 March 2016.																				
28	Submission of supplementary report re. Aboriginal heritage	Yes*	-																				
29	If Aboriginal artefacts are identified on site work is to cease in the relevant location and NPWS to be contacted	NA	No artefacts located to date.																				
30	Company to widen Possum Brush Road to 8m total width, including lands and shoulders, from the intersection of Pacific Highway to the quarry entrance. Engineering plans to be submitted and approved by Council prior to work commencing	Yes*	All works are completed. Observation by R. Corkery																				
31	Company to rehabilitate existing pavement	Yes*	Completed 2005/2006.																				
32	Placement of Stop Sign on central island at Quarry Entrance	Yes*	Observation																				
33	Placement of raised threshold on quarry access road at the Stop Sign	Yes*	Previously completed.																				
34	Company to supply material for Possum Brush Road ongoing maintenance following rehabilitation works	NA	No materials requested by Council.																				
35	Clearing vegetation and continued maintenance to improve sight distance	Yes*	Completed 2005/2006.																				
36	Road maintenance levy for Possum Brush Road between quarry entrance and Pacific Highway a) 7.5 cents per tonne for first 5 years b) 10 cents per tonne for next 5 years c) further increase of 5 cents per tonne at commencement of each subsequent 5 year period thereafter Monthly payment of road maintenance contribution shall commence 10 years from date of consent Company to provide summary of maintenance work undertaken on Possum Brush Road.	Yes	Documentation – sighted record for the reporting period.  <table> <tr> <td>2007-2008</td> <td>\$1 915.85</td> </tr> <tr> <td>2008-2009</td> <td>\$18 796.29</td> </tr> <tr> <td>2009-2010</td> <td>\$28 927.59</td> </tr> <tr> <td>2010-2011</td> <td>\$18 472.58</td> </tr> <tr> <td>2011-2012</td> <td>\$22 343.73</td> </tr> <tr> <td>2012-2013*</td> <td>\$34 759.06</td> </tr> <tr> <td>2013-2014</td> <td>\$24 882.64</td> </tr> <tr> <td>2014-2015</td> <td>\$22 628.55</td> </tr> <tr> <td><u>2015-2016</u></td> <td><u>\$31 853.91</u></td> </tr> <tr> <td><b>Total</b></td> <td><b>\$204 580.51</b></td> </tr> </table> <p>* As of 28 May 2013, the contribution rate increased from \$0.075 to \$0.10 per tonne.</p>	2007-2008	\$1 915.85	2008-2009	\$18 796.29	2009-2010	\$28 927.59	2010-2011	\$18 472.58	2011-2012	\$22 343.73	2012-2013*	\$34 759.06	2013-2014	\$24 882.64	2014-2015	\$22 628.55	<u>2015-2016</u>	<u>\$31 853.91</u>	<b>Total</b>	<b>\$204 580.51</b>
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<u>2015-2016</u>	<u>\$31 853.91</u>																						
<b>Total</b>	<b>\$204 580.51</b>																						
37	Community Consultative Committee review of condition and safety of Possum Brush Road	Yes	See Committee Minutes ( <b>Appendix 3</b> ).																				
38	Submission of Environmental Management Report annually or at such longer period as nominated by Council	Yes	This document.																				

ND = Not Determined

**Table A1.1 (Cont'd)**  
**Compliance with Development Consent DA 283/97 Modification 3 (Issued originally 25 May 1998)**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
<b>39</b>	Contents of Environmental Management Report a) review compliance with conditions of consent and other statutory licence conditions b) review effectiveness of environmental management in terms of EIS objectives and EMP requirements c) report activities during reporting period, including road maintenance activities d) provide overview of activities during following reporting period, including road maintenance activities e) set out environment management targets during the following reporting period f) detailed environmental monitoring results which includes interpretation and discussion by a suitably qualified person; and g) detail any complaints made concerning operation of quarry during previous reporting period.	Yes Yes Yes Yes Yes Yes Yes	Documentation. <b>Appendix 1 (Tables A1.1, A1.2, A1.3, A1.4 and A1.5).</b> Section 2.12. Section 2 and <b>Table 7</b> in <b>Appendix 2.</b> Section 3.2 and Section 3.6. Section 3.2. Section 2.11. Section 2.13 / <b>Appendix 2 – Tables 11 and 12</b> – One complaint was received during the reporting period regarding squealing brakes on trucks.
<b>40</b>	Circulation of Environmental Management Report to Council and EMR made available to Community Consultative Committee and any interested person for perusal and copy upon application to Council	Yes	Copies of the 2014-2015 EMR were supplied to Greater Taree City Council in October 2015 for use of Council and distribution to the Community Consultative Committee.
<b>41</b>	Company to comply with Council directions arising from EMR within such time as Council may require	NA	No directions were received from Council during the past 12 months.
<b>42</b>	Company to establish a Community Consultative Committee to review EMR, provide an interface to ongoing mitigation of any environmental impacts of quarry and convey concerns of local community	Yes*	The committee was originally established and operated until March 2007 and re-established from March 2011 onwards.
<b>43</b>	Company to be responsible for administrative support and financial contributions for function of Community Consultative Committee	Yes	Accepted by Quarry Management, if requested.
<b>44</b>	Community Consultative Committee chaired by a Councillor and include 2 representatives each of quarry operating company and residents selected by Council and a Council staffer. Additional members or technical advice may be sought from time to time	Yes	Committee chaired during 2015-2016 by Councillor West (see <b>Appendix 3</b> ).
<b>45</b>	Dispute resolution between any parties in respect of these conditions shall be referred to the Director-General of Urban Affairs and Planning whose determination shall be final and binding	NA	No disputes have arisen between the parties that have required reference to the Director-General.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 July 2015 to 31 March 2016			
NA = Not Applicable		ND = Not Determined	

**Table A1.1 (Cont'd)**  
**Compliance with Development Consent DA 283/97 Modification 3 (Issued originally 25 May 1998)**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
46	Storage areas for liquid fuel, explosives and chemicals to be constructed and banded in accordance with requirements of Dangerous Goods Act and details of these measures to be included in EMP for Council's approval	Yes	R. Corkery sighted all hydrocarbons appropriately stored on site. No explosives are stored on site. PBM maintains six dedicated storage locations for dangerous goods around the Quarry. All dangerous goods are appropriately labelled and stored at these locations.
47	Annual limitation on average production and product despatch to 200 000 tonnes excluding materials provided to Council for roadworks on Possum Brush Road	Yes	In recognition that the average production level would be exceeded before the end of Stage 1, PBM sought a modification of the annual production level – see Development Consent DA283/97 Mod 4 – granted 1 April 2016.
48	Protection barriers around periphery of operational quarry faces to be erected and maintained to clearly delineate top of batters	Yes	Observations by R. Corkery of rock or earth barriers defining the quarry faces.
49	Boundaries of extraction area to be defined by survey and pegged. Measures to be taken to protect survey pegs at all times	Yes	Source: Quarry Manager. R. Corkery observed representative posts.
50	Trucks travelling to or from quarry site shall not travel on Bullocky Way unless delivering products to property owner or lessee fronting Bullocky Way	Yes	Source: Quarry Manager.
51	Trucks associated with the development are not to travel on Tritton Road or via the section of Possum Brush Road to the west of intersection with the quarry access road unless delivering products to a property owner or lessee fronting onto these roads or providing materials for maintenance of these roads	Yes	Source: Quarry Manager.
52	Consultation/compliance with reasonable requirements of Council concerning means to prevent and fight fires	Yes*	Previously completed. Hazmat canister at the front gate includes site map, access arrangements (for keys, etc.) and diagram of hazard locations.
53	Bank Guarantee to Council for due completion of landscaping and rehabilitation work to a sum of \$50 000	Yes	R. Corkery sighted Bank Statement recording payment for bank guarantee – paid \$518.58 on 9 November 2015.
54	Company to retain a water cart to keep damp any surfaces generating dust	Yes	Observation by R. Corkery. Source: Quarry Manager.
55	Water spraying apparatus to be maintained in conjunction with processing plant and stockpile area to minimise emission of dust during processing and stockpiling	Yes	Source: Quarry Manager.

Yes\* = Compliance established initially – no longer requires compliance assessment

Yes = Compliance established fully during the 2016 audit for the period 1 July 2015 to 31 March 2016

NA = Not Applicable

NYA = Not Yet Applicable

ND = Not Determined



**Table A1.1 (Cont'd)**  
**Compliance with Development Consent DA 283/97 Modification 3 (Issued originally 25 May 1998)**  
**for Operation of Possum Brush Quarry**  
**Period 1 July 2015 – 31 March 2016**

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Condition No.	Paraphrased Conditional Requirement	Compliance	Basis for Assessment
56	Coverage/containment of truck loads of product/material transported off site so no spillage can occur at any stage	Yes	Observation by R. Corkery of vehicles departing from quarry. Source: Quarry Manager.
57	Compliance with Council's requirements for supplementary tree and shrub planting for screening quarry operations to further ameliorate visual impact of quarry when viewed from public roads and adjoining properties, if required	NA	Council has not yet required any supplementary tree or shrub planting.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 July 2015 to 31 March 2016			
NA = Not Applicable		NYA = Not Yet Applicable	ND = Not Determined

**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
**for Operation of Possum Brush Quarry**  
**Period 1 April 2016 to 30 June 2016**

Page 1 of 24

Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS</b>			
<b>OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT</b>			
<b>1</b>	In addition to meeting the specific performance criteria established under this consent, the Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	Yes	Observations by R. Corkery, review of relevant documentation and discussions with Quarry Manager.
<b>TERMS OF CONSENT</b>			
<b>2</b>	The Applicant shall carry out the development generally in accordance with the EIS, EA (Mod 1), EA (Mod 2), EA (Mod 3) and EA (Mod 4).	Yes	Observations by R. Corkery and records provided by PBM (see <b>Appendix 2</b> ).
<b>3</b>	The Applicant shall carry out the development in accordance with the Development Layout Plans and the conditions of this consent. <i>Note: The Development Layout Plan for the development is shown in Appendix 1.</i>	Yes	<b>Figure 2.2</b> displays the extent of quarry development as at 30 June 2016.
<b>4</b>	If there is any inconsistency between the documents identified in condition 2, the more recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	NA	No inconsistencies arose during the period 1 April 2016 to 30 June 2016.
<b>5</b>	The Applicant shall comply with any reasonable requirement/s of the Secretary arising from the Department's assessment of:  a) any strategies, plans, programs, reviews, audits, reports or correspondence that are submitted in accordance with this consent (including any stages of these documents);  b) any reviews, reports or audits commissioned by the Department regarding compliance with this consent; and  c) the implementation of any actions or measures contained in these documents.	NA	The Secretary has not yet received any request requiring follow-up.
<b>LIMITS OF CONSENT</b>			
<b>Quarrying Operations</b>			
<b>6</b>	The Applicant may carry out quarrying operations on the site until 31 March 2046.	NYA	
<b>7</b>	The Applicant shall not extract extractive materials below a level of 45 metres AHD.	Yes	Current extraction depths (excluding the Area A Sump) are 90m AHD (Area A) and 100m AHD (Area B) (see <b>Figure 2.2</b> ).
<b>8</b>	The Applicant shall not extract more than 16.2 million tonnes of extractive material from the site under this consent.	Yes	During the period 1 April 2016 to 30 June 2016, 56 234 tonnes of extractive material were extracted and sold.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016			
NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

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**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
**for Operation of Possum Brush Quarry**  
**Period 1 April 2016 to 30 June 2016**

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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>			
<b>STRUCTURAL ADEQUACY</b>			
<b>12</b>	The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA.	NA	No new buildings or structures were constructed or altered during the period 1 April 2016 to 30 June 2016. Source: Quarry Manager
<b>DEMOLITION</b>			
<b>13</b>	The Applicant shall ensure that all demolition work is carried out in accordance with <i>Australian Standard AS 2601-2001: The Demolition of Structures</i> , or its latest version.	NYA	No demolition work was carried out during the period 1 April 2016 to 30 June 2016. Source: Quarry Manager
<b>PROTECTION OF PUBLIC INFRASTRUCTURE</b>			
<b>14</b>	The Applicant shall: a) repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and b) relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development. <i>Note: This condition does not apply to damage to roads caused as a result of general road usage.</i>	NA	No public infrastructure was damaged during the period 1 April 2016 to 30 June 2016. Source: Quarry Manager
<b>OPERATION OF PLANT AND EQUIPMENT</b>			
<b>15</b>	The Applicant shall ensure that all the plant and equipment used at the site is maintained and operated in a proper and efficient manner.	Yes	Observation by R. Corkery – all bunding and spill containment systems were in place.
<b>IDENTIFICATION OF APPROVED LIMITS OF EXTRACTION</b>			
<b>16</b>	Prior to 30 September 2016, unless otherwise agreed by the Secretary, the Applicant shall: a) engage a registered surveyor to mark out the boundaries of the approved limits of extraction within the development area (see Appendix 1); and b) submit a survey plan of these boundaries with applicable GPS coordinates to the Secretary.	Yes  Yes	A copy of the survey plan was submitted to DPE on 12 September 2016.
<b>17</b>	While quarrying operations are being carried out, the Applicant shall ensure that these boundaries are clearly marked at all times in a manner that allows operating staff and inspecting officers to clearly identify the approved limits of extraction.	Yes	All existing boundary posts are present on site – most of which were observed by R. Corkery on 15 August 2016.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016			
NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
**for Operation of Possum Brush Quarry**  
**Period 1 April 2016 to 30 June 2016**

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Condition No.	Conditional Requirement	Compliance	Basis for Assessment																							
<b>SCHEDULE 2 – ADMINISTRATIVE CONDITIONS (Cont'd)</b>																										
<b>PRODUCTION DATA</b>																										
<b>18</b>	The Applicant shall: a) provide annual quarry production data to DRE using the standard form for that purpose; and b) include a copy of this data in the Annual Review (see condition 9 of Schedule 5).	Yes	Most recent Return for Extractive Materials is provided in <b>Appendix 5</b> . It is noted that DRE has not yet circulated the Return for 2015-2016.																							
<b>CONTRIBUTIONS TO COUNCIL</b>																										
<b>19</b>	The Applicant shall provide extractive material to Council free of charge for ongoing maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway.	NYA	No materials for maintenance of Possum Brush Road were requested from Council during the period 1 April 2016 to 30 June 2016. Source: Quarry Manager																							
<b>20</b>	The Applicant shall pay to Council a monthly contribution for the maintenance of Possum Brush Road between the quarry entrance and the Pacific Highway. The rate of the contribution for all quarry products transported from the site is: a) 7.5 cents per tonne for five years from 25 May 2008; b) 10 cents per tonne for the next five years from 25 May 2013; and c) further increases indexed annually to changes in the Consumer Price Index (Road & Bridge Construction) (NSW Index) from 25 May 2018 and thereafter.	Yes	PBM provides a record of monthly quarry products despatched with a cheque based on 10 cents per tonne. R. Corkery sighted records of payments sent to Council (see <b>Appendix 2 – Table 13</b> ).																							
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS</b>																										
<b>NOISE</b>																										
<b>Noise Impact Assessment Criteria</b>																										
<b>1</b>	<p>The Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 2 at any residence on privately-owned land.</p> <p><i>Table 2: Noise criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th rowspan="2">Receiver</th><th>Day/Evening</th><th colspan="2">Night</th></tr> <tr> <th><i>L<sub>day</sub>(15min)</i></th><th><i>L<sub>night</sub>(15min)</i></th><th><i>L<sub>A1max</sub></i></th></tr> </thead> <tbody> <tr> <td>R1 – 5 St Peters Close</td><td>39</td><td>39</td><td>45</td></tr> <tr> <td>R2 – 175 Possum Brush Road</td><td>38</td><td>38</td><td>45</td></tr> <tr> <td>R3 – 55 Possum Brush Road</td><td>37</td><td>37</td><td>45</td></tr> <tr> <td>All other residences</td><td>35</td><td>35</td><td>45</td></tr> </tbody> </table> <p><i>Note: Receiver locations are shown in Appendix 2.</i></p> <p>Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy (as may be updated from time-to-time). Appendix 3 sets out the meteorological conditions under which these criteria apply and the requirements for evaluating compliance with these criteria.</p> <p>However, these criteria do not apply if the Applicant has an agreement with the owner/s of the relevant residence or land to generate higher noise levels, and the Applicant has advised the Department in writing of the terms of this agreement.</p>	Receiver	Day/Evening	Night		<i>L<sub>day</sub>(15min)</i>	<i>L<sub>night</sub>(15min)</i>	<i>L<sub>A1max</sub></i>	R1 – 5 St Peters Close	39	39	45	R2 – 175 Possum Brush Road	38	38	45	R3 – 55 Possum Brush Road	37	37	45	All other residences	35	35	45	ND	No noise measurements were carried out during the period 1 April 2016 to 30 June 2016 as measurements for the 12 month period had been carried out prior to 1 April 2016 (see Compliance Assessment for Condition 21 in <b>Table A1.1</b> ).
Receiver	Day/Evening		Night																							
	<i>L<sub>day</sub>(15min)</i>	<i>L<sub>night</sub>(15min)</i>	<i>L<sub>A1max</sub></i>																							
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**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>BLASTING (Cont'd)</b>			
<b>Operating Conditions (Cont'd)</b>			
<b>6</b> (Cont'd)	b) operate a suitable system to enable the local community to get up-to-date information on the proposed blasting schedule on site; and	Yes	PBM notifies six surrounding landowners / occupiers about impending blasts in the manner preferred by each landowner / occupier. Source: Quarry Manager
	c) carry out regular monitoring to determine whether the development is complying with the relevant conditions of this consent, to the satisfaction of the Secretary.	Yes	All blasts are monitored ( <b>Appendix 2 – Table 4</b> ).
<b>7</b>	<p>Upon written request of the owner of any existing dwelling house located within 1.25 kilometres of the development, the Applicant shall arrange at its own costs, for the inspection by a technically qualified person agreed to by both parties, to record the material condition of any existing dwelling house. The Applicant shall supply a copy of any inspection report, certified by the person who undertook the inspection, to the relevant property owner within fourteen days of receipt of the report.</p> <p>Should the inspection report find that structural damage to the dwelling house has occurred as a result of blasting at the quarry, the owner of that dwelling house may request the Applicant to carry out works to remedy or mitigate that damage. Such works shall be carried out at the Applicant's expense and shall be agreed to by the owner of the dwelling house.</p> <p>In the event of a dispute between the Applicant and the owner of an existing dwelling house arising from the requirements of this condition, the Applicant shall refer the matter for the consideration and decision of the Secretary.</p>	NYA	No owner has yet approached PBM requesting an inspection of their residence. Source: Quarry Manager
<b>Blast Management Plan</b>			
<b>8</b>	<p>The Applicant shall prepare a Blast Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <ul style="list-style-type: none"> <li>a) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</li> <li>b) describe the measures that would be implemented to ensure compliance with the blast criteria and operating conditions of this consent;</li> <li>c) include a monitoring program for evaluating and reporting on compliance with the blasting criteria in this consent;</li> <li>d) include community notification procedures for the blasting schedule; and</li> </ul>	NYA	The Blast Management Plan has been submitted in draft form to the DPE and a final copy is due for submission by 30 September 2016. Source: Quarry Manager
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016</p>			
<p>NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined</p>			

**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment																								
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																											
BLASTING (Cont'd)																											
Blast Management Plan (Cont'd)																											
	<p>e) include a protocol for investigating and responding to complaints.</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	NYA	PBM intends to implement the Blast Management Plan once it is approved by DPE. Source: Quarry Manager.																								
AIR QUALITY																											
Air Quality Impact Assessment Criteria																											
9	<p>The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria listed in Tables 4 at any residence on privately-owned land.</p> <table><tr><th colspan="4">Table 4: Air quality criteria</th></tr><tr><th>Pollutant</th><th>Averaging Period</th><th colspan="2"><sup>a</sup> Criterion</th></tr><tr><td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td><td>Annual</td><td colspan="2"><sup>a,d</sup> 30 µg/m<sup>3</sup></td></tr><tr><td>Particulate matter &lt; 10 µm (PM<sub>10</sub>)</td><td>24 hour</td><td colspan="2"><sup>b</sup> 50 µg/m<sup>3</sup></td></tr><tr><td>Total suspended particulates (TSP)</td><td>Annual</td><td colspan="2"><sup>a,d</sup> 90 µg/m<sup>3</sup></td></tr><tr><td><sup>c</sup> Deposited dust</td><td>Annual</td><td><sup>b</sup> 2 g/m<sup>2</sup>/month</td><td><sup>a,d</sup> 4 g/m<sup>2</sup>/month</td></tr></table>	Table 4: Air quality criteria				Pollutant	Averaging Period	<sup>a</sup> Criterion		Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a,d</sup> 30 µg/m <sup>3</sup>		Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>b</sup> 50 µg/m <sup>3</sup>		Total suspended particulates (TSP)	Annual	<sup>a,d</sup> 90 µg/m <sup>3</sup>		<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a,d</sup> 4 g/m <sup>2</sup> /month	Yes	PBM's past practices have been effective in controlling dust generation on site. These practices would continue. Source: Quarry Manager.
Table 4: Air quality criteria																											
Pollutant	Averaging Period	<sup>a</sup> Criterion																									
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a,d</sup> 30 µg/m <sup>3</sup>																									
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<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a,d</sup> 4 g/m <sup>2</sup> /month																								
Operating Conditions																											
10	<p>The Applicant shall:</p> <p>a) implement best practice management to minimise the dust emissions of the development;</p> <p>b) carry out periodic air quality monitoring to determine whether the development is complying with the relevant conditions of this consent;</p> <p>c) regularly assess meteorological and air quality monitoring data and relocate, modify and/or stop operations on site to ensure compliance with the air quality criteria in this consent;</p>	<p>Yes</p> <p>NYA</p> <p>NYA</p>	<p>PBM's past practices have been effective in controlling dust generation on site. These practices would continue. Source: Quarry Manager.</p> <p>PBM intends to commence a program of deposited dust monitoring in late 2016 for a period of at least 12 months to verify the low level of impact the Quarry's operations are having on the surrounding air quality. Source: Quarry Manager.</p> <p>PBM will undertake the required assessment following the introduction of the deposited dust monitoring program. Source: Quarry Manager.</p>																								
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**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>AIR QUALITY (Cont'd)</b>			
<b>Operating Conditions (Cont'd)</b>			
<b>10</b> (Cont'd)	d) minimise the air quality impacts of the development during adverse meteorological conditions and extraordinary events (see noted under Table 4); and	Yes	PBM suspends dust-generating activities in exposed areas of the Quarry during periods of high winds, i.e. from the west-southwest to northwest quadrant. Source: Quarry Manager.
	e) minimise the area of surface disturbance and maximise progressive rehabilitation of the site, to the satisfaction of the Secretary.	NYA	The areas of disturbance are currently approaching the maximum approved for the quarry development. Progressive rehabilitation will commence as individual terminal benches are completed.
<b>Quarry-owned Land</b>			
<b>11</b>	The Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not cause exceedances of the criteria in Table 4 at any occupied residence on quarry-owned land unless: a) the tenant has been notified of any health risks associated with such exceedances in accordance with the notification requirements under Schedule 4 of this consent; and b) the tenant of any land owned by the Applicant can terminate their tenancy agreement without penalty at any time, subject to giving reasonable notice, to the satisfaction of the Secretary.	NA	There are no residences on Quarry-owned land.
<b>Air Quality Management Plan</b>			
<b>12</b>	The Applicant shall prepare an Air Quality Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must: a) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary; b) describe the measures that would be implemented to ensure: <ul style="list-style-type: none"> <li>compliance with the relevant conditions of this consent;</li> <li>best practice management is being employed; and</li> <li>the air quality impacts of the development are minimised during adverse meteorological conditions and extraordinary events;</li> </ul>	NYA	The Air Quality Management Plan has been submitted in draft form to the DPE and a final copy is due for submission by 30 September 2016. Source: Quarry Manager
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Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016			
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**Table A1.2**  
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>AIR QUALITY (Cont'd)</b>			
<b>Air Quality Management Plan (Cont'd)</b>			
<b>12</b> (Cont'd)	<p>c) describe the proposed air quality management system; and</p> <p>d) include an air quality monitoring program that:</p> <ul style="list-style-type: none"> <li>• is capable of evaluating the performance of the development;</li> <li>• includes a protocol for determining any exceedances of the relevant conditions of consent;</li> <li>• effectively supports the air quality management system; and</li> <li>• evaluates and reports on the adequacy of the air quality management system.</li> </ul> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	NYA	PBM intends to implement the Air Quality Management Plan once it is approved by DPE. Source: Quarry Manager
<b>Meteorological Monitoring</b>			
<b>13</b>	For the life of the development, the Applicant shall ensure that there is a suitable meteorological station operating in the vicinity of the site that complies with the requirements in the <i>Approved Methods for Sampling of Air Pollutants in New South Wales</i> guideline.	NYA	A new meteorological station is to be installed within the Quarry Site prior to 1 January 2017. During the reporting period, reliance was placed upon meteorological data recorded at the Failford Quarry at the Tuncurry BOM weather station. Source: Quarry Manager
<b>Greenhouse Gas Emissions</b>			
<b>14</b>	The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	Yes	PBM endeavours to minimise both diesel and electrical power which in turn minimises greenhouse gas emissions. Source: Quarry Manager
<b>SOIL AND WATER</b>			
<b>Water Supply</b>			
<b>15</b>	<p>The Applicant shall ensure it has sufficient water for all stages of the development, and if necessary, adjust the scale of quarrying operations to match the available water supply.</p> <p><i>Note: Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain the necessary water licences for the development.</i></p>	Yes	The volume of water accumulating in Dams 1, 3 and 4 and the Area A sump is more than sufficient to meet the on-site water requirements. No water licences are required. Source: Quarry Manager
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016</p>			
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**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>SOIL AND WATER (Cont'd)</b>			
<b>Water Discharges</b>			
<b>16</b>	The Applicant shall comply with the discharge limits in any EPL, or with section 120 of the POEO Act.	Yes	The results in <b>Table 2.6</b> demonstrate compliance with this requirement.
<b>17</b>	In the event that groundwater in excess of negligible quantities is intersected during quarrying operations, the Applicant shall undertake a hydrogeological investigation, in consultation with DPI Water, to the satisfaction of the Secretary. The investigation must report on groundwater sources, levels, yield and quality; identify any risks to groundwater users or groundwater dependent ecosystems and propose recommended management measures.  The Applicant must implement reasonable and feasible management measures to the satisfaction of the Secretary.	NYA	Groundwater has not yet been intersected within the approved extraction areas.
<b>Water Management Plan</b>			
<b>18</b>	The Applicant shall prepare a Water Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must: a) be prepared in consultation with the EPA and DPI Water; b) be submitted to the Secretary for approval within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary; c) include a Site Water Balance that includes details of: <ul style="list-style-type: none"> <li>sources and security of water supply;</li> <li>water uses, losses and management on site;</li> <li>any off-site water transfers; and</li> <li>reporting procedures; and</li> </ul> d) include a Surface Water Management Plan that includes: <ul style="list-style-type: none"> <li>detailed baseline data on surface water flows and quality in water bodies that could potentially be affected by the development;</li> <li>a detailed description of the surface water management system on site, including the: <ul style="list-style-type: none"> <li>clean water diversion system;</li> <li>erosion and sediment controls;</li> <li>stormwater runoff controls;</li> <li>dirty water management system; and</li> <li>water storages; and</li> </ul> </li> </ul>	NYA	The Water Management Plan has been submitted in draft form to the DPE and a final copy is due for submission by 30 September 2016. Source: Quarry Manager
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment														
SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																	
SOIL AND WATER (Cont'd)																	
Water Management Plan (Cont'd)																	
18 (Cont'd)	<ul style="list-style-type: none"><li>• a program to monitor and report on:<ul style="list-style-type: none"><li>○ any surface water discharges;</li><li>○ the effectiveness of the water management system; and</li><li>○ surface water flows and quality in local watercourses; and</li></ul></li><li>• measures that would be implemented to minimise water use on site;</li><li>• identification of all reasonable and feasible measures to improve the quality of surface water within and around the site;</li></ul> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	NYA	PBM intends to implement the Water Management Plan once it is approved by DPE. Source: Quarry Manager.														
LANDSCAPE AND REHABILITATION																	
Rehabilitation Objectives																	
19	<p>The Applicant shall rehabilitate the site to the satisfaction of the Secretary. This rehabilitation must be in accordance with the objectives in Table 5.</p> <p><i>Table 5: Rehabilitation objectives</i></p> <table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Site (as a whole)</td><td><ul style="list-style-type: none"><li>• Safe, stable and non-polluting.</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land.</li><li>• Restored with native, endemic vegetation</li></ul></td></tr><tr><td>Vegetated land</td><td><ul style="list-style-type: none"><li>• Conserved and enhanced with native, endemic vegetation.</li><li>• Containing self-sustaining ecosystems.</li></ul></td></tr><tr><td>Surface Infrastructure</td><td><ul style="list-style-type: none"><li>• Decommissioned and removed, unless the Secretary agrees otherwise.</li></ul></td></tr><tr><td>Quarry Benches &amp; Pit Floor</td><td><ul style="list-style-type: none"><li>• Landscaped and vegetated using native trees and understorey species.</li></ul></td></tr><tr><td>Final Void</td><td><ul style="list-style-type: none"><li>• Minimise the height and slope of batters.</li><li>• Minimise the drainage catchment.</li></ul></td></tr><tr><td>Community</td><td><ul style="list-style-type: none"><li>• Ensure public safety.</li><li>• Minimise the adverse socio-economic effect of quarry closure.</li></ul></td></tr></table>	Feature	Objective	Site (as a whole)	<ul style="list-style-type: none"><li>• Safe, stable and non-polluting.</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land.</li><li>• Restored with native, endemic vegetation</li></ul>	Vegetated land	<ul style="list-style-type: none"><li>• Conserved and enhanced with native, endemic vegetation.</li><li>• Containing self-sustaining ecosystems.</li></ul>	Surface Infrastructure	<ul style="list-style-type: none"><li>• Decommissioned and removed, unless the Secretary agrees otherwise.</li></ul>	Quarry Benches & Pit Floor	<ul style="list-style-type: none"><li>• Landscaped and vegetated using native trees and understorey species.</li></ul>	Final Void	<ul style="list-style-type: none"><li>• Minimise the height and slope of batters.</li><li>• Minimise the drainage catchment.</li></ul>	Community	<ul style="list-style-type: none"><li>• Ensure public safety.</li><li>• Minimise the adverse socio-economic effect of quarry closure.</li></ul>	Noted	The areas of disturbance are currently approaching the maximum approved for the quarry development. Progressive rehabilitation will commence as individual terminal benches are completed (see <b>Figure 2.2</b> ).
Feature	Objective																
Site (as a whole)	<ul style="list-style-type: none"><li>• Safe, stable and non-polluting.</li><li>• Final landform integrated with surrounding natural landforms as far as is reasonable and feasible, and designed to minimise the visual impacts of the development when viewed from surrounding land.</li><li>• Restored with native, endemic vegetation</li></ul>																
Vegetated land	<ul style="list-style-type: none"><li>• Conserved and enhanced with native, endemic vegetation.</li><li>• Containing self-sustaining ecosystems.</li></ul>																
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Final Void	<ul style="list-style-type: none"><li>• Minimise the height and slope of batters.</li><li>• Minimise the drainage catchment.</li></ul>																
Community	<ul style="list-style-type: none"><li>• Ensure public safety.</li><li>• Minimise the adverse socio-economic effect of quarry closure.</li></ul>																
Rehabilitation Objectives																	
20	<p>The Applicant shall rehabilitate the site progressively, that is, as soon as reasonably practicable following disturbance. All reasonable and feasible measures must be taken to minimise the total area exposed for dust generation at any time. Interim stabilisation measures must be implemented where reasonable and feasible to control dust emissions in disturbed areas that are not active and which are not ready for final rehabilitation.</p> <p><i>Note: It is accepted that parts of the site that are progressively rehabilitated may be subject to disturbance in the future.</i></p>	Noted	The areas of disturbance are currently approaching the maximum approved for the quarry development. Progressive rehabilitation will commence as individual terminal benches are completed (see <b>Figure 2.2</b> ).														
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>LANDSCAPE AND REHABILITATION (Cont'd)</b>			
<b>Landscape and Rehabilitation Management Plan (Cont'd)</b>			
<b>21</b> (Cont'd)	<ul style="list-style-type: none"> <li>• control erosion;</li> <li>• control access; and</li> <li>• bushfire management; and</li> </ul> <p>h) include a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;</p> <p>i) identify the potential risks to the successful rehabilitation of the site, and include a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>j) include details of who would be responsible for monitoring, reviewing, and implementing the plan.</p> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	NYA	PBM intends to implement the Landscape and Rehabilitation Management Plan once it is approved by DPE. Source: Quarry Manager.
<b>Rehabilitation and Conservation Bond</b>			
<b>22</b>	<p>Within 6 months of the approval of the Landscape and Rehabilitation Management Plan, the Applicant shall lodge a Rehabilitation and Conservation Bond with the Department to ensure that the management of biodiversity and the rehabilitation of the site are implemented in accordance with the performance and completion criteria set out in the Landscape and Rehabilitation Management Plan. The sum of the bond shall be determined by:</p> <p>a) calculating the cost of rehabilitating the site taking into account the likely surface disturbance over the next 3 years of quarrying operations; and</p> <p>b) employing a suitably qualified quantity surveyor or other expert to verify the calculated costs, to the satisfaction of the Secretary.</p> <p><i>Note: If the rehabilitation of the site is completed to the satisfaction of the Secretary, then the Secretary will release the bond. If the rehabilitation of the site is not completed to the satisfaction of the Secretary, then the Secretary will call in all or part of the bond, and arrange for the completion of the relevant works.</i></p>	NYA	The bond will be determined and lodged with DPE by 31 March 2017.
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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>TRANSPORT (Cont'd)</b>			
<b>Operating Conditions</b>			
<b>27</b>	<p>The Applicant shall ensure that:</p> <ul style="list-style-type: none"> <li>a) all company owned trucks associated with the quarry have appropriate signage, so they can be easily identified by road users;</li> <li>b) all laden trucks entering or exiting the site have their loads covered;</li> <li>c) all laden trucks exiting the site are cleaned of materials that may fall on the road, before leaving the site; and</li> <li>d) road maintenance requirements, including the removal of any obstructing roadside vegetation, are reported to Council for Possum Brush Road and to RMS for the Pacific Highway.</li> </ul>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>NA</p>	<p>R. Corkery observed substantial signage on company-owned trucks.</p> <p>This is a requirement rigidly enforced by PBM. Source: Quarry Manager.</p> <p>This is a requirement rigidly enforced by PBM. Source: Quarry Manager.</p> <p>There has not been a need to request any road maintenance during the period 1 April 2016 to 30 June 2016. Source: Quarry Manager</p>
<b>Transport Management Plan</b>			
<b>28</b>	<p>The Applicant shall prepare a Transport Management Plan for the development to the satisfaction of the Secretary. In addition to the standard requirements for management plans (see condition 2 of Schedule 5) this plan must:</p> <ul style="list-style-type: none"> <li>a) be prepared in consultation with RMS and Council;</li> <li>b) be submitted to the Secretary for approval by within three months of the date of approval of Modification 4, unless otherwise agreed by the Secretary;</li> <li>c) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particularly having regard to early morning truck arrivals, school bus routes and the location of residential properties; and</li> <li>d) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.</li> </ul> <p>The Applicant shall implement the management plan as approved from time to time by the Secretary.</p>	<p>NYA</p> <p>NYA</p>	<p>The Transport Management Plan has been submitted in draft form to the DPE and a final copy is due for submission by 30 September 2016. Source: Quarry Manager</p> <p>PBM intends to implement the Transport Management Plan once it is approved by DPE. Source: Quarry Manager.</p>
<b>Monitoring of Product Transport</b>			
<b>29</b>	<p>The Applicant shall keep accurate records of:</p> <ul style="list-style-type: none"> <li>a) the amount of quarry products transported from the site (calendar month and year);</li> <li>b) the number of truck movements entering and leaving the site (hour, day, calendar month and year); and</li> </ul>	<p>Yes</p>	<p>Detailed records of truck movements and quantities of quarry products despatched from the Quarry – Sighted by R. Corkery.</p>
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016</p>			
<p>NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined</p>			

**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
**for Operation of Possum Brush Quarry**  
**Period 1 April 2016 to 30 June 2016**

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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 3 – ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)</b>			
<b>TRANSPORT (Cont'd)</b>			
<b>Monitoring of Product Transport (Cont'd)</b>			
<b>29</b> (Cont'd)	c) include these records in the Annual Review (see condition 9 of Schedule 5).  <i>Note: Records must include material provided to Council, referred to in condition 19 of Schedule 2.</i>	Yes	A summary of truck movements is presented in <b>Table 2.3</b> .
<b>VISUAL IMPACTS</b>			
<b>30</b>	The Applicant shall: a) implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development; and b) take all practical measures to shield views of quarrying operations from users of public roads and privately-owned residences, to the satisfaction of the Secretary.	Yes	The Quarry is well shielded by topography and vegetation – Observation by R. Corkery.
<b>WASTE</b>			
<b>31</b>	The Applicant shall: a) implement all reasonable and feasible measures to minimise the waste generated by the development; b) ensure that the waste generated by the development is appropriately stored, handled and disposed of; and c) monitor and report on effectiveness of the waste management and minimisation in the Annual Review (see condition 9 of Schedule 5), to the satisfaction of the Secretary.	Yes	PBM maintains a number of waste skips and bins for specific wastes, e.g. general waste, waste oil, cardboard and metals.
<b>ODOUR</b>			
<b>32</b>	The Applicant shall not cause or permit the emission of offensive odour beyond the boundaries of the site.	Yes	No odour was observed on site by R. Corkery.
<b>LIQUID STORAGE</b>			
<b>33</b>	The Applicant shall ensure that all liquid tanks and similar storage facilities (other than for water) are protected by appropriate bunding, which must exceed 110% of the stored volume of the liquid.	Yes	R. Corkery observed all liquid tanks and storage facilities are appropriately bunded with appropriate signage for on-site personnel.
<b>DANGEROUS GOODS</b>			
<b>34</b>	The Applicant shall ensure that the storage, handling, and transport of dangerous goods is done in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	Yes	PBM maintains six dedicated storage locations for dangerous goods around the Quarry. All dangerous goods are appropriately labelled and stored at these locations. All dangerous goods are recorded on a site register.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016			
NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

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**Table A1.2**  
**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)**  
**for Operation of Possum Brush Quarry**  
**Period 1 April 2016 to 30 June 2016**

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Condition No.	Conditional Requirement	Compliance	Basis for Assessment
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>			
<b>ENVIRONMENTAL MANAGEMENT (Cont'd)</b>			
<b>Management Plan Requirements (Cont'd)</b>			
<b>2</b> (Cont'd)	<p>c) a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;</p> <p>d) a program to monitor and report on the:</p> <ul style="list-style-type: none"> <li>impacts and environmental performance of the development; and</li> <li>effectiveness of any management measures (see (c) above);</li> </ul> <p>e) a contingency plan to manage any unpredicted impacts and their consequences;</p> <p>f) a program to investigate and implement ways to improve the environmental performance of the development over time;</p> <p>g) a protocol for managing and reporting any:</p> <ul style="list-style-type: none"> <li>incidents;</li> <li>complaints;</li> <li>non-compliances with statutory requirements; and</li> <li>exceedances of the impact assessment criteria and/or performance criteria; and</li> </ul> <p>h) a protocol for periodic review of the plan.</p> <p><i>Note: The Secretary may waive some of these requirements if they are unnecessary or unwarranted for particular management plans.</i></p>		
<b>Updating and Staging Submission of Strategies, Plans or Programs</b>			
<b>3</b>	<p>To ensure the strategies, plans or programs under this consent are updated on a regular basis, and that they incorporate any appropriate mitigation measures to improve the environmental performance of the development, the Applicant may at any time submit revised strategies, plans or programs to the Secretary for approval. With the agreement of the Secretary, the Applicant may also submit any strategy, plan or program required by this consent on a staged basis.</p> <p>With the agreement of the Secretary, the Applicant may revise any strategy, plan or program approved under this consent without consulting with all the parties nominated under the applicable conditions of consent.</p>	NYA	PBM will update all strategies, plans and programs in accordance with this condition and Condition 5(4). Source: Quarry Manager.
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016</p> <p>NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined</p>			

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**Compliance with Development Consent DA 283/97 Modification 4 (Issued 1 April 2016)  
for Operation of Possum Brush Quarry  
Period 1 April 2016 to 30 June 2016**

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<b>Condition No.</b>	<b>Conditional Requirement</b>	<b>Compliance</b>	<b>Basis for Assessment</b>
<b>SCHEDULE 5 – ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING (Cont'd)</b>			
<b>REPORTING</b>			
<b>Incident Reporting</b>			
<b>7</b>	The Applicant shall notify, at the earliest opportunity, the Secretary and any other relevant agencies of any incident that has caused, or threatens to cause, material harm to the environment. For any other incident associated with the development, the Applicant shall notify the Secretary and any other relevant agencies as soon as practicable after the Applicant becomes aware of the incident. Within 7 days of the date of the incident, the Applicant shall provide the Secretary and any relevant agencies with a detailed report on the incident, and such further reports as may be requested.	NA	No incidents requiring a report occurred during the period 1 April 2016 to 30 June 2016.
<b>Regular Reporting</b>			
<b>8</b>	The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent.	NYA	PBM has not yet established its website. PBM currently plans to establish its website by 1 January 2017
<b>ANNUAL REVIEW</b>			
<b>9</b>	By the end of March each year, or other timing as may be agreed by the Secretary, the Applicant shall review the environmental performance of the development to the satisfaction of the Secretary. This review must:	Yes	This report is the first Annual Review for the Quarry since Mod 4 was issued.
	a) describe the development (including rehabilitation and road maintenance) that was carried out in the previous calendar year, and the development that is proposed to be carried out over the current calendar year;	Yes	Sections 2.7 and 2.9 present activities for the period 1 April 2016 to 30 June 2016. Sections 3.6 and 3.7 present activities planned for 2016-2017.
	b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against: <ul style="list-style-type: none"> <li>the relevant statutory requirements, limits or performance measures/criteria;</li> <li>requirements of any plan or program required under this consent;</li> <li>the monitoring results of previous years; and</li> <li>the relevant predictions in the documents listed in condition 2 of Schedule 2;</li> </ul>	Yes	Section 2.11 presents the results of all monitoring undertaken during 2015-2016. It is noted that in some cases, no monitoring was carried out during the period 1 April 2016 to 30 June 2016 as it had previously been undertaken.
	c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Yes	No non-compliances occurred during the period 1 April 2016 to 30 June 2016.
Yes* = Compliance established initially – no longer requires compliance assessment Yes = Compliance established fully during the 2016 audit for the period 1 April 2016 to 30 June 2016 NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

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**Table A1.3**  
**Compliance for Development and Operation of Asphalt Plant DA 1127/2005 – Period 2015-2016**

Condition No.	Subject	Compliance	Basis for Assessment
1	Development of the site generally in accordance with the Statement of Environmental Effects.	Yes	Observation by R. Corkery.
2	Submit Construction Certificate with Council at least 48 hours prior to commencement of any building work on the site.	Yes*	Construction Certificate submitted on 24 November 2007. No further building work required.
3	Payment of the prescribed Long Service Levy Fee prior to the issue of a Construction Certificate.	Yes*	Source: Quarry Manager.
4	Repair any damage to existing roads caused during the construction works, prior to the issue of an Occupation Certificate.	NA	No damage was caused during the construction period.
5	<ul style="list-style-type: none"> <li>Gross Pollutant Traps (GPT) are to be installed at the last inlet pits before stormwater enters receiving waters.</li> <li>Details of the GPTs, submitted to Council with the engineering drawings.</li> </ul>	NA	Reliance placed on existing water management structures within the Possum Brush Quarry.
6	All adjustments to existing utility services are to be undertaken by the developer.	Yes	All services are now in place.
7	Repair any damage to existing roads caused during the constructions works prior to the issue of an Occupation Certificate.	NA	No damage was caused during the construction period.
8	Compliance with the General Terms of Approval issued by the Department of Environment and Conservation.	Yes	The nominated conditions are consistent with EPL 3393 (see <b>Table A1-4</b> ).
9	The plant being operated in accordance with the details provided in the Statement of Environmental Effects.	Yes	Plant is being operated generally in accordance with the SoEE – observation by R. Corkery.
10	The plant will be permitted to operate 24 hours per day from 6:30am Monday to 10:00pm Friday for a maximum of 60 days per calendar year. A monthly report providing details to be available to Council upon request.	Yes	During the reporting period, the plant only operated on 11 mornings and 12 nights, i.e. well below the 60 days permissible under the condition. Hence, there were no requests for extended hours on any day (See <b>Appendix 2 – Table 2</b> ). No request for a monthly report was made by Council during reporting period.
11	Compliance with any requirements imposed within an EPL issued by the Environment Protection Authority.	Yes	See <b>Table A1.4</b> .
12	The noise level generated by trucks associated with Pacific Blue Metal Pty Ltd travelling along Possum Brush Road shall not exceed $Leq_{1hr} 50dB(A)$ within 1m of the façade on any residence located between the quarry entrance and Pacific Highway during night-time operation. Biannual monitoring required with notification to affected residents.	Yes	Measurements taken during operations (prior to 6:30am) on 20 October 2015 recorded acceptable noise levels.
13	The review of the EMP is to take into account the potential impact of extended operations on local fauna, effectiveness of existing mitigation measures and any additional measures required to monitor and reduce potential impacts.	Yes	This requirement is reflected in the July 2012 to June 2017 EMP.

Yes\* = Compliance established initially – no longer requires compliance assessment

Yes = Compliance established fully during the 2016 audit

NA = Not Applicable

NYA = Not Yet Applicable

ND = Not Determined

Note: The construction of the asphalt plant commenced in October 2007 and commissioning was completed in December 2008.

**Table A1.4**  
**Compliance for Development and Operation of Recycling Plant 769/2009/DA – Period 2015-2016**

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Condition No.	Subject	Compliance	Basis for Assessment										
1	<p>The development is to be carried out in accordance with the following approved development plans:</p> <table><tr><th>Title/ Name</th><th>Drawing/ No.</th><th>Revision/ Issue</th><th>Date</th><th>Prepared by</th></tr><tr><td>PBM Recycling</td><td>Proposed Locations</td><td>-</td><td>-</td><td>Pacific Blue Metal Pty Ltd</td></tr></table>	Title/ Name	Drawing/ No.	Revision/ Issue	Date	Prepared by	PBM Recycling	Proposed Locations	-	-	Pacific Blue Metal Pty Ltd	Yes	Incoming waste materials currently stockpiled in Area B – sighted by R. Corkery ( <b>Plate 6</b> ).
Title/ Name	Drawing/ No.	Revision/ Issue	Date	Prepared by									
PBM Recycling	Proposed Locations	-	-	Pacific Blue Metal Pty Ltd									
2	<p>The NSW Environment Protection Authority has given General Terms of approval in relation to the development. The General Terms of approval are as follows:</p>												
	<p>a. Trucks associated with the waste recycling activities must not enter the premises prior to 7:00 am.</p> <p>Note: The necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the L<sub>Amax</sub> noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.</p>	Yes	All truck drivers advised not to enter site before 7:00am. Source: Quarry Manager										
	<p>b. Stormwater from all areas of the premises which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and/or pollution control measures/structures.</p>	Yes	All Stormwater is contained within the Quarry Surface Water Management System. Observed by R. Corkery										
	<p>c. Erosion and sediment control and/or pollution measures and/or structures to capture stormwater from all areas of the premises must be installed and maintained.</p>	Yes	All erosion and sediment contained within the Quarry Surface Water Management System. Observed by R. Corkery										
	<p>d. The proponent must ensure that any waste received at the premises is assessed and classified in accordance with the EPA's Waste Classification Guidelines as in force from time to time.</p>	Yes	PBM has compiled a comprehensive QA program in consultation with the EPA to formalise waste acceptance criteria.										
	<p>e. The proponent must not cause, permit or allow any waste to be received at the Premises, except the wastes expressly referred to in the column titled "Waste" and meeting the definition, if any, in the column titled "Description" in the table below. Any waste received at the Premises must only be used for activities referred to in relation to that waste in the column titled "Activity" in the table below. Any waste received at the Premises is subject to those limits or condition, if any, referred to in relation to that waste contained in the column titled "Other Limits" in the table below. This condition does not limit any other conditions in this Licence.</p>	Yes	Only permitted wastes have been received to date.										

Yes\* = Compliance established initially – no longer requires compliance assessment  
Yes = Compliance established fully during the 2016 audit

NA = Not Applicable	NYA = Not Yet Applicable	ND = Not Determined
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Note: The construction of the asphalt plant commenced in October 2007 and commissioning was completed in December 2008.



**Table A1.4 (Cont'd)**  
**Compliance for Development and Operation of Recycling Plant 769/2009/DA – Period 2015-2016**

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Condition No.	Subject		Compliance	Basis for Assessment	
	<b>Waste</b>	<b>Description</b>	<b>Activity</b>	<b>Other Limits</b>	765.36 tonnes were received during the reporting period.
	General Solid Waste (Non-putrescible)	Concrete, Bricks, Asphalt and Tiles	Resource Recovery/Waste Storage	Total 10,000 tonnes per annum	
	General Solid Waste (Non-putrescible)	Building and Demolition Waste that does not contain asbestos as defined in the EPA's Waste Classification Guideline Part 1: Classifying Waste	Resource Recovery/Waste Storage		
	General or Specific exempted waste	Waste that meets all the conditions of a resource recovery exemption under Clause 51 A of the Protection of the Environment Operations (Waste) Regulation 2005	As specified in each particular resource recovery exemption.	NA	
	f. The proponent must have in place at all times a quality assurance program to ensure only the types of wastes permitted above are received at the premises. This quality assurance program must include:  i) Inspection of the waste received at the premises (prior to tipping) to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA;  ii) Inspection of the waste after tipping at the premises to ensure it only contains the wastes allowed by an Environment Protection Licence issued by the EPA;  iii) Documenting all loads of waste that are received at the premises that contain wastes other than those approved above (including name and registration number of waste supplier, why the waste load did not comply, and the fate of that load of waste).			Yes	PBM has compiled a comprehensive QA program in consultation with the EPA to formalise waste acceptance criteria.
	g. Prior to any wastes rejected by the Quality Assurance Program leaving the premises the proponent must obtain from the owner of such wastes details of where that waste will be disposed legally.			NYA	No wastes have yet been rejected. Rejected load register has been established.
	h. The proponent must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.			NYA	No wastes have yet been rejected.
Yes* = Compliance established initially – no longer requires compliance assessment Yes = Compliance established fully during the 2016 audit NA = Not Applicable NYA = Not Yet Applicable ND = Not Determined Note: The construction of the asphalt plant commenced in October 2007 and commissioning was completed in December 2008.					

### Compliance for Development and Operation of Recycling Plant 769/2009/DA – Period 2015-2016

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Condition No.	Subject	Compliance	Basis for Assessment
	i. Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.	NYA	No wastes have yet been rejected.
	j. All residual waste by-products from the waste recycling operations conducted onsite (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.	NYA	No residual waste by-products generated to date. However, the procedures for managing the by products are set out in the QMP.
	k. The proponent must supply to the EPA annually with the Environment Protection Licence Annual Return a plan and table showing, as at the licence anniversary date: <ul style="list-style-type: none"> <li>i) The location of all waste stockpiles on the premises;</li> <li>ii) The type of waste in each stockpile;</li> <li>iii) The height of each stockpile;</li> <li>iv) The amount of waste in each stockpile in tonnes; and</li> <li>v) The total amount of waste in all stockpiles in tonnes and whether the limit of 10,000 tonnes has been exceeded.</li> </ul>	NA	The management of waste materials was addressed in the 2014-2015 Annual Return with all relevant information incorporated in the return.
3	Any soils accepted for beneficiation/recycling must not include organic material.	NA	No soils have been received on site.
4	The existing Environment Protection Licence 3393 issued by the EPA under the Protection of the Environment Operations Act 1997 must be amended to include the recycling plant. A copy of the amended licence must be submitted to Council prior to the commencement of the operations.	Yes	EPL amended 26 May 2016 – includes “Resource Recovery” of general waste. A copy of the EPL was previously supplied to Council on 15 September 2015.
5	Separate metal recycling not resulting as a by-product of the break up of reinforced concrete and the like will not be permitted.	Yes	Only steel within concrete is received and separated.

Yes\* = Compliance established initially – no longer requires compliance assessment  
Yes = Compliance established fully during the 2016 audit

NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined

Note: The construction of the asphalt plant commenced in October 2007 and commissioning was completed in December 2008.

**Table A1.5**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**


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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment															
1 Administrative Conditions																		
A1 What the licence authorises and regulates																		
A1.1	<p>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.</p> <p>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.</p> <table><tr><th>Scheduled Activity</th><th>Fee Based Activity</th><th>Scale</th></tr><tr><td>Crushing, grinding or separating</td><td>Crushing, grinding or separating</td><td>&gt; 100000 - 500000 T annual processing capacity</td></tr><tr><td>Extractive activities</td><td>Land-based extractive activity</td><td>&gt; 100000 - 500000 T annual capacity to extract, process or store</td></tr><tr><td>Resource recovery</td><td>Recovery of general waste</td><td>Any general waste recovered</td></tr><tr><td>Waste storage</td><td>Waste storage - other types of waste</td><td>Any other types of waste stored</td></tr></table> <p><i>Note: Limits on resource recovery and waste storage are detailed in condition L3.1.</i></p>	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	Resource recovery	Recovery of general waste	Any general waste recovered	Waste storage	Waste storage - other types of waste	Any other types of waste stored	Yes	During the period 2015-2016, annual production (sales) of quarry products, asphalt and recycled materials totalled 286 853.79 tonnes.
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																
Resource recovery	Recovery of general waste	Any general waste recovered																
Waste storage	Waste storage - other types of waste	Any other types of waste stored																
A2 Premises or plant to which this licence applies																		
A2.1	<p>The licence applies to the following premises:</p> <table><tr><th>Premises Details</th></tr><tr><td>PACIFIC BLUE METAL</td></tr><tr><td>113/115 POSSUM BRUSH ROAD</td></tr><tr><td>POSSUM BRUSH</td></tr><tr><td>NSW 2430</td></tr><tr><td>LOT 66 DP 608957, LOT 3 DP 701903, LOT 109 DP 753195</td></tr><tr><td>THOSE AREAS OF THE ABOVE LOT &amp; DPS AS DEFINED ON THE AERIAL MAP TITLED "PACIFIC BLUE METAL PROPOSED EPL ADJUSTMENT" DATED 11/03/2016 (DOC16/138907 ON FILE EF13/3417).</td></tr></table>	Premises Details	PACIFIC BLUE METAL	113/115 POSSUM BRUSH ROAD	POSSUM BRUSH	NSW 2430	LOT 66 DP 608957, LOT 3 DP 701903, LOT 109 DP 753195	THOSE AREAS OF THE ABOVE LOT & DPS AS DEFINED ON THE AERIAL MAP TITLED "PACIFIC BLUE METAL PROPOSED EPL ADJUSTMENT" DATED 11/03/2016 (DOC16/138907 ON FILE EF13/3417).	Noted									
Premises Details																		
PACIFIC BLUE METAL																		
113/115 POSSUM BRUSH ROAD																		
POSSUM BRUSH																		
NSW 2430																		
LOT 66 DP 608957, LOT 3 DP 701903, LOT 109 DP 753195																		
THOSE AREAS OF THE ABOVE LOT & DPS AS DEFINED ON THE AERIAL MAP TITLED "PACIFIC BLUE METAL PROPOSED EPL ADJUSTMENT" DATED 11/03/2016 (DOC16/138907 ON FILE EF13/3417).																		
A3 Other activities																		
A3.1	<p>This licence applies to all other activities carried on at the premises, including:</p> <table><tr><th>Ancillary Activity</th></tr><tr><td>Bitumen mixing</td></tr></table>	Ancillary Activity	Bitumen mixing	Noted														
Ancillary Activity																		
Bitumen mixing																		
A4 Information supplied to the EPA																		
A4.1	<p>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.</p> <p>In this condition the reference to "the licence application" includes a reference to:</p> <p>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</p> <p>b) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	ND	Application is not held on site.															
Yes* = Compliance established initially – no longer requires compliance assessment																		
Yes = Compliance established fully during the 2016 audit																		
NA = Not Applicable																		
NYA = Not Yet Applicable																		
ND = Not Determined																		



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**R.W. CORKERY & CO. PTY. LIMITED**

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**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L4 Noise limits (Cont'd)</b>			
L4.6	<p>To determine compliance:</p> <p>a) <math>L_{eq(15 \text{ minute})}</math> noise limits, noise monitoring equipment must be located:</p> <ol style="list-style-type: none"> <li>within 30m of a dwelling façade where any dwelling on the property is more than 30m from the property boundary closest to the premises.</li> <li>approximately on the boundary where any dwelling is situated 30m or less from the property boundary closest to the premises.</li> </ol> <p>b) The noise monitoring equipment must be located in a position that is:</p> <ol style="list-style-type: none"> <li>at the most affected point at a location where there is no dwelling at the location; or</li> <li>at the most affected point within an area at a location prescribed by item (a) of this condition</li> </ol>	<p>ND</p> <p>ND</p>	<p>Details of measurement locations are not provided in the noise reports prepared by Spectrum Acoustics.</p> <p>Details of measurement locations are not provided in the noise reports prepared by Spectrum Acoustics.</p>
L4.7	<p>A breach of this Environment Protection Licence will still occur where noise generated from the premises in excess of the appropriate limit specified in this licence is detected:</p> <ol style="list-style-type: none"> <li>in an area at a location other than an area prescribed by the condition above; and/or</li> <li>at a point other than the most affected point at a location.</li> </ol>	Noted	
L4.8	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.	Noted	
<b>L5 Blasting</b>			
L5.1	The airblast overpressure level from blasting operations at the premises must not exceed 120dB (Lin Peak) at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Yes	All measured levels were less than 105.5dB(L) (see <b>Appendix 1 – Table 4</b> ).
L5.2	The airblast overpressure level from blasting operations at the premises must not exceed 115dB (Lin Peak) at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Yes	All measured levels were less than 115dB(L). Highest level recorded = 105.5dB(L) (see <b>Appendix 1 – Table 4</b> ).
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit</p>			
<p>NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined</p>			

**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L5 Blasting (Cont'd)</b>			
L5.3	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 10mm/sec at any time at any noise sensitive locations. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Yes	All measured levels were less than 10.0mm/sec. Highest level recorded = 2.66mm/sec (see <b>Appendix 2 – Table 4</b> ).
L5.4	Ground vibration peak particle velocity from the blasting operations at the premises must not exceed 5mm/sec at any noise sensitive locations for more than five per cent of the total number of blasts over each reporting period. Error margins associated with any monitoring equipment used to measure this are not to be taken into account in determining whether or not the limit has been exceeded.	Yes	All measured levels were less than 5mm/sec. Highest level recorded = 2.66mm/sec (see <b>Appendix 2 – Table 4</b> ).
L5.5	To determine compliance with the blasting limits specified in the above four (4) conditions:  a) Airblast overpressure and ground vibration levels must be measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital for all blasts carried out in or on the premises; and  b) Instrumentation used to measure the airblast overpressure and ground vibration levels must meet the requirements of Australian Standard 2187.2 of 1993.	ND     Yes	Details of measurement locations are not provided on the blast reports (only the residence address).   Monitoring is undertaken using Texcel monitors that Appendix J of AS2187.2 – 2006.
L5.6	Blasting operations at the premises may only take place between 9:00am – 3:00pm Monday to Friday. Blasting is not permitted on public holidays.  Blasting outside the hours specified above can only take place with the written approval of the EPA.	Yes	Documentation – sighted blast record times for all six blasts ( <b>Appendix 2 – Table 3</b> ).
L5.7	Offensive blast fume must not be emitted from the premises.  <i>Definition:</i> <i>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:</i>  <i>1. are harmful to (or likely to be harmful to) a person that is outside the premises from which it is emitted, or</i>  <i>2. interferes unreasonably with (or is likely to interfere unreasonably with) the comfort or repose of a person who is outside the premises from which it is emitted.</i>	Yes	No offensive blast fume was emitted from the six blasts initiated during the reporting period. Source: Quarry Manager
<b>L6 Hours of Operation</b>			
L6.1	Construction work at the premises must only be conducted between 7:00am to 6:00pm and between 8:00am to 1:00pm Saturday with no works on Sunday or public holidays.	Yes*	All construction work was undertaken within the nominated hours. Source: Quarry Manager
Yes* = Compliance established initially – no longer requires compliance assessment Yes = Compliance established fully during the 2016 audit			
NA = Not Applicable NYA = Not Yet Applicable ND = Not Determined			



**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L6 Hours of Operation (Cont'd)</b>			
L6.2	<p>All other activities at the premises must only be carried out between the hours detailed below:</p> <p><i>Hours of Operation for General Quarry Operations</i></p> <p>a) All quarrying activities must be conducted between 6:30am and 6:00pm Monday to Friday, and between 7:00am and 3:00pm Saturdays, except as detailed below.</p> <p><i>Permissible Times for Vehicles Entering the Premises</i></p> <p>b) Trucks used for the transport of product are not permitted to enter the premises before 6:15am Monday to Friday or 6:45am Saturdays. In respect of these trucks entering the premises, the licensee must erect and maintain a gate across the site access road 200 metres from the product stockpile area or in another area agreed by Council, which must not be opened prior to 6:30am Monday to Friday or 7:00am Saturday to allow access to the stockpile.</p> <p>c) No other trucks or heavy machinery are to enter the premises prior to 6:30am Monday to Friday or prior to 7:00am Saturdays.</p> <p>d) Loaded trucks or heavy machinery are not permitted to enter the premises after 6:00pm Monday to Friday or after 3:00pm Saturdays.</p> <p>e) Unloaded trucks or heavy machinery, except those described in Clause f) and i) below, are not permitted to enter the premises after the hours of 6:00pm Monday to Friday and after 3:00pm Saturdays.</p> <p>f) Trucks containing returned loads of product and trucks owned or operated by the licensee, for licensed activities, and normally garaged at the premises, may enter the premises after the hours of 6:00pm Monday to Friday and after 3:00pm Saturdays only in the following circumstances:</p> <p>i. The truck left the premises loaded with product prior to 6:00pm Monday to Friday or prior to 3:00pm Saturday.</p> <p>ii. The truck travelled directly to the delivery site by the most direct route.</p> <p>iii. The truck travelled directly back to the premises from the delivery site by the most direct route.</p>	<p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>	<p>Documentation sighted (Records of operating hours in <b>Appendix 2 – Table 1.</b></p> <p>Gate is in place – sighted. The non-compliance occurred on Saturday 05/09/15 when two trucks delivering flyash for the asphalt plant entered the quarry 5 minutes and 15 minutes before the 6:45am entry time – reported by PBM to EPA on 08/09/15 via email.</p> <p>No trucks or machinery entered the premises prior to nominated hours.</p> <p>This condition was complied with during the reporting period. Supported by the CCTV installed on site. Source: Quarry Manager</p> <p>This condition has been complied with. Source: Quarry Manager</p> <p>This condition has been complied with since this condition was imposed. Source: Quarry Manager</p>
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit</p>			
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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L6 Hours of Operation (Cont'd)</b>			
L6.2 (Cont'd)	<p>iv. Records must be kept for all trucks returning to the premises after the hours of 6:00pm Monday to Friday and 3:00pm Saturdays which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises.</p> <p><i>Note: These records may take the form of weighbridge records and security camera date stamps.</i></p> <p>v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15am Monday.</p> <p><i>Permissible Times for Vehicles Leaving the Premises</i></p> <p>g) No trucks or heavy machinery are to leave the premises prior to 6:30am Monday to Friday or 7:00am Saturdays.</p> <p><i>Hours of Operation for Asphalt Plant</i></p> <p><i>Note: Greater Taree City Council has issued development consent for the asphalt plant to operate on a 24 hours per day basis under certain circumstances. The conditions below reflect that consent.</i></p> <p>h) The exception to operational hours described in clauses a) to g) above is the operational hours of the asphalt plant in the circumstances set out below:</p> <p>i. The asphalt plant and associated truck movements are permitted to operate 24 hours per day during the period 6:30am Monday to 10:00pm Friday for a maximum of 60 days in any one calendar year. (For the purposes of this licence the calendar year is the same as the report period year).</p> <p>ii. The licensee must notify the Manager Hunter Region of the EPA when each night operations will be undertaken by email at <a href="mailto:newcastlerequest@environment.nsw.gov.au">newcastlerequest@environment.nsw.gov.au</a>, prior to the night time operations being undertaken.</p> <p>i) Trucks containing returned loads of product and trucks owned or operated by the licensee which are normally garaged at the premises and involved in the delivery of asphalt during the 60 days per year of night time asphalt plant operations may enter the premises after 10:00pm Friday only in the following circumstances;</p> <p>i. The truck left the premises loaded with product prior to 10:00pm Friday.</p> <p>ii. The truck travelled directly to the delivery site by the most direct route.</p>	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>NA</p>	<p>Source: Quarry Manager.</p> <p>This condition has been complied with since this condition was imposed. Source: Quarry Manager</p> <p>The asphalt plant operated on 11 mornings for approximately 1.5 hours before standard starting time and on 12 nights for approximately 3-9 hours after 6:00pm (see <b>Appendix 2 – Table 1</b>).</p> <p>Notifications are sent concurrently to surrounding residents, Council and EPA. Examples of letters are retained on site. Source: Quarry Manager</p> <p>No trucks returned loaded to the quarry outside approved hours of operation during the reporting period. Source: Quarry Manager</p>
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit			
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**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L6 Hours of Operation (Cont'd)</b>			
L6.2 (Cont'd)	<p>iii. The truck travelled directly back to the premises from the delivery site by the most direct route.</p> <p>iv. Records must be kept for all trucks returning to the premises after 10:00pm Friday which records the time the truck left the premises, the load carried, the delivery site, the customer details, and the time the truck returned to the premises.</p> <p><i>Note: These records may take the form of weighbridge records and security camera date stamps.</i></p> <p>v. No trucks are permitted to enter the premises between 12 midnight Saturdays and 6:15am Monday.</p> <p><i>Hours of Operation for Maintenance Activities</i></p> <p>j) Maintenance of equipment strictly in the workshop or plant areas is permitted between the hours of 6:00am to 9:00pm Monday to Saturday. Any maintenance carried out within these hours but outside the quarrying activities hours set out in clause a) must be inaudible at any residence (except residences owned by the licensee).</p>	Yes	Documentation sighted (records of maintenance hours in <b>Appendix 2 – Table 1</b> ).
	<p><i>No Activities on Sundays or Public Holidays</i></p> <p>k) No works, maintenance, truck or machinery movements in or out of the premises are permitted on Sundays or Public Holidays.</p>	Yes	As recorded in <b>Appendix 2 – Table 1</b> .
	<p><i>Extension of Hours of Operation in Emergency and Other Circumstances</i></p> <p>l) The hours of operation of the quarrying activities as set out in clause a) above can only be extended for an emergency or for circumstances involving the upgrading of the Pacific Highway, on a short term basis, with Council approval. A licence variation is not required in these circumstances under the following conditions:</p> <p>i. The Licensee must notify the EPA Manager Hunter Region by facsimile on (02) 4908 6810 of the intention to apply to council to extend the quarry's operational hours and the circumstances surrounding the application.</p> <p>ii. The Licensee must notify the EPA Manager Hunter Region by facsimile on (02) 4908 6810 of the Council's decision in written form.</p> <p>iii. The Licensee must keep a log of all such extension for inspection if required.</p>	<p>NA</p> <p>NA</p> <p>NA</p>	<p>No notifications were required during the reporting period (<b>Appendix 2 – Table 2</b>).</p> <p>No notifications were required during the reporting period (<b>Appendix 2 – Table 2</b>).</p> <p>No notifications were required during the reporting period (<b>Appendix 2 – Table 2</b>).</p>
Yes* = Compliance established initially – no longer requires compliance assessment			
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### Compliance for Environment Protection Licence 3393 – Period 2015-2016

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>3 Limit Conditions (Cont'd)</b>			
<b>L6 Hours of Operation (Cont'd)</b>			
L6.3	Trucks associated with the waste recycling activities must not enter the premises prior to 7:00am.  <i>Note: the necessity for this condition will be assessed by the EPA after it has been determined if trucks at the premises are causing exceedances of the LAMAX noise limits and/or if all feasible and reasonable noise ameliorative works have been undertaken.</i>	Yes	All trucks delivering waste to the Quarry arrived after 7:00am. Source: Quarry Manager
<b>L7 Potentially offensive odour</b>			
L7.1	The licensee must not cause or permit the emission of offensive odour beyond the boundary of the premises.  <i>Note: Section 129 of the Protection of the Environment Operations Act 1997, provides that the licensee must not cause or permit the emission of any offensive odour from the premises but provides a defence if the emission is identified in the relevant environment protection licence as a potentially offensive odour and the odour was emitted in accordance with the conditions of a licence directed at minimising odour.</i>	Yes	Observation by R. Corkery.
<b>4 Operating Conditions</b>			
<b>O1 Activities must be carried out in a competent manner</b>			
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.	Yes	Source: Quarry Manager and observations of good practices on site by R. Corkery.
<b>O2 Maintenance of plant and equipment</b>			
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.	Yes	Observation by R. Corkery – all bunding and spill containment systems were in place.
<b>O3 Dust</b>			
O3.1	The premises must be maintained in a condition which minimises or prevents the emission of dust from the premises.	Yes	The excellent location of the quarry, its sealed road and regular road watering ensures that air quality incidents relating to the quarry are avoided.
O3.2	Trucks entering and leaving the premises that are carrying loads must be covered at all times, except during loading and unloading.	Yes	Observation by R. Corkery. Source: Quarry Manager.
<b>O4 Processes and management</b>			
O4.1	Stormwater from all areas of the premises, which has the potential to mobilise sediments and other material must be controlled and diverted through the appropriate erosion and sediment control and or pollution control measures/structures.	Yes	Stormwater is managed within the extraction area.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit			
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NYA = Not Yet Applicable			
ND = Not Determined			

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**Table A1.5 (Cont'd)**  
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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>4 Operating Conditions (Cont'd)</b>			
<b>O5 Waste management (Cont'd)</b>			
O5.4	The Licensee must notify Greater Taree City Council and Great Lakes Council within 30 minutes of any rejected waste load leaving the premises, including the name and registration number of waste supplier, why the waste load was rejected, and the proposed fate of that load of waste.	NYA	No rejected waste has been received to date.
O5.5	Any load of waste that is received at the premises, which does not comply with the types of waste allowed to be received at the premises, and has not been returned to the supplier, must be stockpiled separately at the premises. The EPA must be notified within 24 hours of receipt of any such load of waste, including details of why the waste is not permitted to be received and actions the licensee will take to lawfully dispose of such wastes.	NYA	No rejected waste has been received to date.
O5.6	All residual waste by-products from the waste recycling operations conducted on-site (for example paper, cardboard, plastic, timber, steel) must be stored separately in such a manner that it does not cause windblown litter and must be regularly removed from the site for appropriate disposal or recycling. No such materials are permitted to be disposed at the premises.	NYA	No residual waste by-products produced to date.
<b>5 Monitoring and Recording Conditions</b>			
<b>M1 Monitoring records</b>			
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.	Yes	Presented in Licence Annual Returns. Sighted 2014-2015 Annual Return (also see <b>Table 2.6</b> ).
M1.2	All records required to be kept by this licence must be:		All records sighted by R. Corkery
	a) in a legible form, or in a form that can readily be reduced to a legible form;	Yes	All records are kept on site.
	b) kept for at least 4 years after the monitoring or event to which they relate took place; and	Yes	All records are kept on site.
M1.3	c) produced in a legible form to any authorised officers of the EPA who asks to see them.	Yes	All records are available for inspection.
	The following records must be kept in respect of any samples required to be collected for the purposes of this licence:	Yes	Two overflow events occurred during the reporting period (from Dam 3). All required information was recorded.
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.			
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit			
NA = Not Applicable			
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ND = Not Determined			

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>5 Monitoring and Recording Conditions (Cont'd)</b>			
<b>M5 Recording of pollution complaints</b>			
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.	Yes	One complaint was received during the reporting period (see <b>Appendix 2 – Table 12</b> ).
M5.2	The record must include details of the following: a) the date and time of the complaint; b) the manner 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.	Yes	All complaints are appropriately recorded on a standard format (see <b>Appendix 2 – Table 12</b> )
M5.3	The record of a complaint must be kept for at least 4 years after the complaint was made.	Yes	All complaints are retained in the Quarry Administration Office.
M5.4	The record must be produced to any authorised officers of the EPA who asks to see them.	NA	No requests received to date.
<b>M6 Telephone complaints line</b>			
M6.1	Telephone complaints lines must operate during its hours of operation to receive any complaints from members of the public in relation to activities at the premises or by vehicles or mobile plant, unless otherwise specified in the licence.	Yes	The quarry has a complaints telephone number 6554 3597 (tested by R. Corkery 10:20am on 23 September 2016).
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.	Yes	All contacts are provided to the CCC and surrounding neighbours and the complaints line is advertised on the front gate to the quarry.
M6.3	The preceding two conditions do not apply until 3 months after: the date of the issue of this licence.	Noted	
<b>M7 Other monitoring and recording conditions</b>			
<b>Requirement to Monitor Noise</b>			
M7.1	To determine compliance with Condition L3, attended noise monitoring must be undertaken in accordance with the requirements of conditions titles "Noise Limits". a) at each one of the locations listed in the noise limits table; b) annually beginning 1 January each year; c) occur at the time of year when noise levels are expected to be highest, that is, generally winter conditions;	Yes	Three noise monitoring rounds were undertaken by Spectrum Acoustics on 17 September 2015 (daytime), 20 October 2015 (night-time) and 24 November 2015 (evening).
Yes* = Compliance established initially – no longer requires compliance assessment Yes = Compliance established fully during the 2016 audit NA = Not Applicable NYA = Not Yet Applicable ND = Not Determined			

**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>5 Monitoring and Recording Conditions (Cont'd)</b>			
<b>M7 Other monitoring and recording conditions (Cont'd)</b>			
<b>Requirement to Monitor Noise (Cont'd)</b>			
M7.1 (Cont'd)	d) occur at a time corresponding to usual or busy quarry activities; and e) occur during each day, evening and night period as defined in the NSW Industrial Noise Policy; and f) occur at a time corresponding to "normal" or above average production conditions and truck movements.		
M7.2	The requirement to continue this monitoring will be assessed upon request by the licensee and after several noise compliance tests have been conducted.	Noted	
<b>6 Reporting Conditions</b>			
<b>R1 Annual return documents</b>			
R1.1	The licensee must complete and supply to the EPA and Annual Return in the approved form comprising: <ol style="list-style-type: none"> <li>a Statement of Compliance; and</li> <li>a Monitoring and Complaints Summary.</li> <li>a Statement of Compliance – Licence Conditions,</li> <li>a Statement of Compliance – Load based Fee,</li> <li>a Statement of Compliance – Requirement to Prepare Pollution Incident Response Management Plan,</li> <li>a Statement of Compliance – Requirement to Publish Pollution Monitoring Data,</li> <li>a Statement of Compliance – Environmental Management Systems and Practices; and</li> <li>a Statement of Compliance – Environmental Improvement Works.</li> </ol> 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.	Yes	Sighted most recent completed Annual Return – submitted, i.e. for period 17 August 2014 to 16 August 2015.
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below. <i>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.</i>	Noted	
R1.3	Where this licence is transferred from the licensee to a new licensee: <ol style="list-style-type: none"> <li>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</li> </ol>	NA	No transfer has been necessary.
Yes* = Compliance established initially – no longer requires compliance assessment Yes = Compliance established fully during the 2016 audit NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

### Compliance for Environment Protection Licence 3393 – Period 2015-2016

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>6 Reporting Conditions (Cont'd)</b>			
<b>R1 Annual return documents (Cont'd)</b>			
R1.3 (Cont'd)	<p>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.</p> <p><i>Note: An application to transfer a licence must be made in the approved form for this purpose.</i></p>	NA	No transfer has been necessary.
R1.4	<p>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:</p> <p>a) in relation to the surrender of a licence - the date when notice in writing of approval of the surrender is given; or</p> <p>b) in relation to the revocation of the licence - the date from which notice revoking the licence operates.</p>	NA	The licence has not been surrendered or revoked.
R1.5	The Annual Return for the reporting period must be supplied to the EPA 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').	Yes	The Annual Return for 2014 – 2015 was submitted within the 60 day period (18 September 2015). R. Corkery sighted mail despatch record
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.	Yes	All annual returns are stored at the Quarry Administration Office. Sighted by R. Corkery.
R1.7	<p>Within the Annual Return, the Statement of Compliance must be certified and the Monitoring and Complaints Summary must be signed by:</p> <p>a) the licence holder; or</p> <p>b) by a person approved in writing by the EPA to sign on behalf of the licence holder.</p>	NYA	The annual return for 2015-2016 had not been finalised for coverage in this Annual Review.
R1.8	<p>The licensee must supply annually with the Environment Protection Licence Annual Return a plan and table showing as at the licence anniversary date:</p> <ol style="list-style-type: none"> <li>1. The location of all waste stockpiles on the premises;</li> <li>2. The type of waste in each stockpile;</li> <li>3. The height of each stockpile;</li> <li>4. The amount of waste in each stockpiles in tonnes; and</li> <li>5. The total amount of waste in all stockpiles in tonnes and whether the limit of tonnes has been exceeded.</li> </ol>	NYA	The annual return for 2015-2016 had not been finalised for coverage in this Annual Review.
<p>Yes* = Compliance established initially – no longer requires compliance assessment</p> <p>Yes = Compliance established fully during the 2016 audit</p> <p>NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined</p>			



**Table A1.5 (Cont'd)**  
**Compliance for Environment Protection Licence 3393 – Period 2015-2016**

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Condition No.	Relevant Conditional Requirement	Compliance	Basis for Assessment
<b>6 Reporting Conditions (Cont'd)</b>			
<b>R2 Notification of environmental harm</b>			
	<i>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.</i>		
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	NA	No notifiable incidents occurred during the reporting period.
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.	NA	No notifiable incidents occurred during the reporting period.
<b>R3 Written Report</b>			
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.	Yes	The EPA emailed PBM on 3 November 2015 requesting details of the incident that occurred on 5 September 2015 regarding the entry of two Cement Australia delivery trucks before 7:00am, i.e. at 6:30am and 6:40am. Delivery of the written report was requested before 5:00pm on 13 November 2015.
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.	Yes	PBM supplied the requested report on 4 November 2015.
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.	Noted	The request received on 3 November 2015 was generally consistent with these requirements.
Yes* = Compliance established initially – no longer requires compliance assessment			
Yes = Compliance established fully during the 2016 audit			
NA = Not Applicable                      NYA = Not Yet Applicable                      ND = Not Determined			

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# Appendix 2

## Records

(Total No. of pages including blank pages = 40)

Table 1	Record of Hours of Operations
Table 2	Record of Extended Hours of Operations
Table 3	Record of Blasts
Table 4	Blast Monitoring and Complaints
Table 5	Notification of Proposed Blasts to Residents within 2km
Table 6	Record of Secondary Breakage of Oversized Blocks
Table 7	Supply of Materials for Road Maintenance
Table 8	Record of Monitoring
Table 9	Rainfall Recorded
Table 10	Record of On-site Environmental Studies/Inspections
Table 11	Complaints Register
Table 12	Complaints Record Sheets and Complaints
Table 13	Record of Contributions for Maintenance of Possum Brush Road

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POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : JULY 2015

Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *	
		Start	Finish	Start	Finish	Start	Finish	Start	Finish
WED	1 6:30am	6:30am	6:00pm	9:25am	3:30pm	6:00pm	9:36pm		
THU	2 6:30am	6:30am	6:00pm	10:30am	5:00pm	6:00pm	9:05pm		
FRI	3 6:30am	6:30am	6:00pm	10:15am	5:00pm				
SAT	4 7:00am	7:00am	3:00pm	10:45am	12:00pm				
SUN	5								
MON	6 6:30am	6:30am	6:00pm	8:30am	5:00pm				
TUE	7 6:30am	6:30am	6:00pm	8:15am	5:00pm				
WED	8 6:30am	6:30am	6:00pm	9:00am	5:00pm				
THU	9 6:30am	6:30am	6:00pm	8:55am	5:00pm				
FRI	10 6:30am	6:30am	6:00pm	9:10am	5:00pm				
SAT	11 7:00am	7:00am	3:00pm						
SUN	12								
MON	13 6:30am	6:30am	6:00pm	9:30am	2:00pm				
TUE	14 6:30am	6:30am	6:00pm	8:45am	6:00pm				
WED	15 6:30am	6:30am	6:00pm	9:00am	6:00pm				
THU	16 6:30am	6:30am	6:00pm	9:40am	6:00pm				
FRI	17 6:30am	6:30am	6:00pm	7:35am	6:00pm				
SAT	18 7:00am	7:00am	3:00pm	7:50am	12:00pm				
SUN	19								
MON	20 6:30am	6:30am	6:00pm	1:55pm	6:00pm				
TUE	21 6:30am	6:30am	6:00pm	9:35am	6:00pm				
WED	22 6:30am	6:30am	6:00pm	8:15am	6:00pm				
THU	23 6:30am	6:30am	6:00pm	8:00am	6:00pm				
FRI	24 6:30am	6:30am	6:00pm	8:40am	6:00pm				
SAT	25 7:00am	7:00am	3:00pm	8:00am	12:00pm				
SUN	26								
MON	27 6:30am	6:30am	6:00pm	8:40am	6:00pm				
TUE	28 6:30am	6:30am	6:00pm						
WED	29 6:30am	6:30am	6:00pm	8:10am	6:00pm				
THU	30 6:30am	6:30am	6:00pm	7:00am	5:42pm				
FRI	31 6:30am	6:30am	6:00pm	12:00pm	6:00pm				

\*Outside 6:30 am to 6:00 pm Monday to Friday, and 7:00 am to 3:00 pm Saturday

POSSUM BRUSH QUARRY											
TABLE 1: HOURS OF OPERATIONS (Condition 9)											
MONTH : AUGUST 2015											
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *		Start	Finish
		Start	Finish	Start	Finish	Start	Finish	Start	Finish		
SAT	1	7:00am	3:00pm	10:00am	12:00pm	—	—	—	—	—	—
SUN	2	—	—	—	—	—	—	—	—	—	—
MON	3	6:30am	6:00pm	11:00am	6:00pm	—	—	—	—	—	—
TUE	4	6:30am	6:00pm	4:40am	5:00pm	—	—	—	—	—	—
WED	5	6:30am	6:00pm	8:40am	6:00pm	—	—	—	—	—	—
THU	6	6:30am	6:00pm	9:00am	6:00pm	—	—	—	—	—	—
FRI	7	6:30am	6:00pm	9:00am	5:30pm	—	—	—	—	—	—
SAT	8	7:00am	3:00pm	—	—	—	—	—	—	—	—
SUN	9	—	—	—	—	—	—	—	—	—	—
MON	10	6:30am	6:00pm	8:15am	6:00pm	—	—	—	—	—	—
TUE	11	6:30am	6:00pm	9:00am	6:00pm	—	—	—	—	—	—
WED	12	6:30am	6:00pm	9:00am	6:00pm	—	—	—	—	—	—
THU	13	6:30am	6:00pm	8:15am	6:00pm	—	—	—	—	—	—
FRI	14	6:30am	6:00pm	8:20am	5:00pm	—	—	—	—	—	—
SAT	15	7:00am	3:00pm	8:20am	10:00am	—	—	—	—	—	—
SUN	16	—	—	—	—	—	—	—	—	—	—
MON	17	6:30am	6:00pm	7:30am	6:00pm	—	—	—	—	—	—
TUE	18	6:30am	6:00pm	8:50am	6:00pm	—	—	—	—	—	—
WED	19	6:30am	6:00pm	8:45am	6:00pm	—	—	—	—	—	—
THU	20	6:30am	6:00pm	8:20am	5:00pm	—	—	—	—	—	—
FRI	21	6:30am	6:00pm	—	—	—	—	—	—	—	—
SAT	22	7:00am	3:00pm	—	—	—	—	—	—	—	—
SUN	23	—	—	—	—	—	—	—	—	—	—
MON	24	6:30am	6:00pm	11:10am	6:00pm	—	—	—	—	—	—
TUE	25	6:30am	6:00pm	8:05am	6:00pm	—	—	—	—	—	—
WED	26	6:30am	6:00pm	8:15am	6:00pm	—	—	—	—	—	—
THU	27	6:30am	6:00pm	8:05am	6:00pm	—	—	—	—	—	—
FRI	28	6:30am	6:00pm	9:15am	3:00pm	—	—	—	—	—	—
SAT	29	7:00am	3:00pm	—	—	—	—	—	—	—	—
SUN	30	—	—	—	—	—	—	—	—	—	—
MON	31	6:30am	6:00pm	8:10am	6:00pm	—	—	—	—	—	—

\*Outside 6:30 am to 6:00 pm Monday to Friday, and 7:00 am to 3:00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : SEPTEMBER 2015

Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *	
		Start	Finish	Start	Finish	Start	Finish	Start	Finish
TUE	1 6:30am	6:30am	6:00pm	9:00am	6:00pm	-	-		
WED	2 6:30am	6:30am	6:00pm	8:40am	6:00pm	-	-		
THU	3 6:30am	6:30am	6:00pm	8:45am	6:00pm	-	-		
FRI	4 6:30am	6:30am	6:00pm	8:40am	5:00pm	-	-		
SAT	5 7:00am	7:00am	3:00pm	8:00am	10:00am	-	-		
SUN	6								
MON	7 6:30am	6:30am	6:00pm	12:10pm	6:00pm	-	-		
TUE	8 6:30am	6:30am	6:00pm	1:40pm	6:00pm	-	-		
WED	9 6:30am	6:30am	6:00pm	-	-	-	-		
THU	10 6:30am	6:30am	6:00pm	7:10am	6:00pm	-	-		
FRI	11 6:30am	6:30am	6:00pm	1:45pm	6:00pm	-	-		
SAT	12 7:00am	7:00am	3:00pm	7:40am	3:00pm	-	-		
SUN	13								
MON	14 6:30am	6:30am	6:00pm	8:20am	6:00pm	-	-		
TUE	15 6:30am	6:30am	6:00pm	8:00am	5:30pm	6:00pm	9:20pm		
WED	16 6:30am	6:30am	6:00pm	8:05am	6:00pm	-	-		
THU	17 6:30am	6:30am	6:00pm	8:05am	6:00pm	-	-		
FRI	18 6:30am	6:30am	6:00pm	10:05am	5:00pm	-	-		
SAT	19 7:00am	7:00am	3:00pm	-	-	-	-		
SUN	20								
MON	21 6:30am	6:30am	6:00pm	9:00am	6:00pm	-	-		
TUE	22 6:30am	6:30am	6:00pm	8:15am	6:00pm	6:00pm	11:22pm		
WED	23 6:30am	6:30am	6:00pm	8:00am	5:00pm	-	-		
THU	24 6:30am	6:30am	6:00pm	7:25am	5:00pm	-	-		
FRI	25 6:30am	6:30am	6:00pm	1:50am	5:00pm	-	-		
SAT	26 7:00am	7:00am	3:00pm	-	-	-	-		
SUN	27								
MON	28 6:30am	6:30am	6:00pm	9:00am	6:00pm	-	-		
TUE	29 6:30am	6:30am	6:00pm	9:40am	6:00pm	-	-		
WED	30 6:30am	6:30am	6:00pm	8:15am	6:00pm	-	-		

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

POSSUM BRUSH QUARRY												
TABLE 1: HOURS OF OPERATIONS (Condition 9)												
MONTH : OCTOBER 2015												
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *				
		Start	Finish	Start	Finish	Start	Finish	Start	Finish			
THU	1	6:30am	6:00pm	8:30am	6:00pm	—	—	—	—			
FRI	2	6:30am	6:00pm	12:00pm	1:15pm	—	—	—	—			
SAT	3	7:00am	3:00pm	—	—	—	—	—	—			
SUN	4											
MON	5											
TUE	6	6:30am	6:00pm	8:25am	5:00pm	—	—	—	—			
WED	7	6:30am	6:00pm	8:30am	6:00pm	—	—	—	—			
THU	8	6:30am	6:00pm	—	—	—	—	—	—			
FRI	9	6:30am	6:00pm	9:30am	5:00pm	—	—	—	—			
SAT	10	7:00am	3:00pm	9:30am	12:00pm	—	—	—	—			
SUN	11											
MON	12	6:30am	6:00pm	9:00am	6:00pm	—	—	—	—			
TUE	13	6:30am	6:00pm	8:00am	5:50pm	—	—	—	—			
WED	14	6:30am	6:00pm	8:30am	6:00pm	—	—	—	—			
THU	15	6:30am	6:00pm	7:30am	5:50pm	—	—	—	—			
FRI	16	6:30am	6:00pm	9:00am	5:00pm	—	—	—	—			
SAT	17	7:00am	3:00pm	—	—	—	—	—	—			
SUN	18											
MON	19	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—			
TUE	20	6:30am	6:00pm	11:30am	5:00pm	5:00am	6:30am	—	—			
WED	21	6:30am	6:00pm	10:30am	5:00pm	—	—	—	—			
THU	22	6:30am	6:00pm	9:50am	4:00pm	—	—	—	—			
FRI	23	6:30am	6:00pm	10:30am	5:00pm	—	—	—	—			
SAT	24	7:00am	3:00pm	—	—	—	—	—	—			
SUN	25											
MON	26	6:30am	6:00pm	10:25am	4:30pm	—	—	—	—			
TUE	27	6:30am	6:00pm	7:50am	5:00pm	—	—	—	—			
WED	28	6:30am	6:00pm	9:30am	5:00pm	—	—	—	—			
THU	29	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—			
FRI	30	6:30am	6:00pm	8:00am	4:30pm	5:00am	6:30am	—	—			
SAT	31	7:00am	3:00pm	—	—	—	—	—	—			

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : NOVEMBER 2015											
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *			
		Start	Finish	Start	Finish	Start	Finish	Start	Finish		
SUN	1										
MON	2	6:30am	6:00pm	9:00am	5:00pm						
TUE	3	6:30am	6:00pm	10:00am	5:00pm						
WED	4	6:30am	6:00pm	8:00am	5:00pm						
THU	5	6:30am	6:00pm	10:00am	4:30pm						
FRI	6	6:30am	6:00pm								
SAT	7	7:00am	3:00pm								
SUN	8										
MON	9	6:30am	6:00pm	8:25am	5:00pm						
TUE	10	6:30am	6:00pm	9:45am	5:00pm						
WED	11	6:30am	6:00pm	9:45am	5:00pm						
THU	12	6:30am	6:00pm	8:25am	5:00pm						
FRI	13	6:30am	6:00pm								
SAT	14	7:00am	3:00pm	9:30am	12:00pm						
SUN	15										
MON	16	6:30am	6:00pm	8:00am	5:00pm						
TUE	17	6:30am	6:00pm	8:15am	5:00pm						
WED	18	6:30am	6:00pm	8:15am	4:00pm						
THU	19	6:30am	6:00pm	8:10am	5:00pm						
FRI	20	6:30am	6:00pm	10:45am	5:00pm						
SAT	21	7:00am	3:00pm	7:50am	12:00pm						
SUN	22										
MON	23	6:30am	6:00pm	12:20pm	5:00pm						
TUE	24	6:30am	6:00pm	3:00pm	5:00pm						
WED	25	6:30am	6:00pm	8:15am	5:00pm						
THU	26	6:30am	6:00pm	2:10pm	5:00pm						
FRI	27	6:30am	6:00pm	7:50am	5:00pm						
SAT	28	7:00am	3:00pm								
SUN	29										
MON	30	6:30am	6:00pm								

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday



POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : DECEMBER 2015

Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *	
		Start	Finish	Start	Finish	Start	Finish	Start	Finish
TUE	1 6:30am	6:30am	6:00pm	7:50am	5:00pm	—	—	—	—
WED	2 6:30am	6:30am	6:00pm	8:50am	5:00pm	—	—	—	—
THU	3 6:30am	6:30am	6:00pm	—	—	—	—	—	—
FRI	4 6:30am	6:30am	6:00pm	—	—	—	—	—	—
SAT	5 7:00am	7:00am	3:00pm	—	—	—	—	—	—
SUN	6	—	—	—	—	—	—	—	—
MON	7 6:30am	6:30am	6:00pm	11:10am	2:00pm	—	—	—	—
TUE	8 6:30am	6:30am	6:00pm	10:40am	5:00pm	6:10am	6:30am	—	—
WED	9 6:30am	6:30am	6:00pm	11:00am	5:00pm	4:45am	6:30am	—	—
THU	10 6:30am	6:30am	6:00pm	8:10am	5:00pm	5:05am	6:30am	—	—
FRI	11 6:30am	6:30am	6:00pm	8:25am	5:00pm	5:10am	6:30am	—	—
SAT	12 7:00am	7:00am	3:00pm	—	—	—	—	—	—
SUN	13	—	—	—	—	—	—	—	—
MON	14 6:30am	6:30am	6:00pm	1:30pm	5:00pm	—	—	—	—
TUE	15 6:30am	6:30am	6:00pm	8:50am	5:00pm	6:00am	6:30am	—	—
WED	16 6:30am	6:30am	6:00pm	10:30am	4:00pm	—	—	—	—
THU	17 6:30am	6:30am	6:00pm	8:20am	5:00pm	—	—	—	—
FRI	18 6:30am	6:30am	6:00pm	8:40am	5:00pm	—	—	—	—
SAT	19 7:00am	7:00am	3:00pm	—	—	—	—	—	—
SUN	20	—	—	—	—	—	—	—	—
MON	21 6:30am	6:30am	6:00pm	10:05am	3:00pm	—	—	—	—
TUE	22 6:30am	6:30am	6:00pm	10:05am	5:00pm	—	—	—	—
WED	23 6:30am	6:30am	6:00pm	10:00am	12:00pm	—	—	—	—
THU	24 Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
FRI	25 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H
SAT	26 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H
SUN	27	—	—	—	—	—	—	—	—
MON	28 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H
TUE	29 Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
WED	30 Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed
THU	31 Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed	Closed

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : JANUARY 2016													
POSSUM BRUSH QUARRY													
TABLE 1: HOURS OF OPERATIONS (Condition 9)													
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *					
		Start	Finish	Start	Finish	Start	Finish	Start	Finish				
FRI	1	P.H	Closed	P.H	Closed	P.H	Closed	P.H	Closed	P.H	Closed		
SAT	2	P.H	Closed	P.H	Closed	P.H	Closed	P.H	Closed	P.H	Closed		
SUN	3												
MON	4	6:30am	6:00pm	6:30am	4:35am	1:30pm	—	—	—	—	—		
TUE	5	6:30am	6:00pm	6:30am	7:50am	2:30pm	—	—	—	—	—		
WED	6	6:30am	6:00pm	6:30am	4:35am	3:00pm	—	—	—	—	—		
THU	7	6:30am	6:00pm	6:30am	9:20am	12:00pm	—	—	—	—	—		
FRI	8	6:30am	6:00pm	6:30am	10:45am	5:00pm	—	—	—	—	—		
SAT	9	7:00am	3:00pm	7:00am	7:30am	12:00pm	—	—	—	—	—		
SUN	10												
MON	11	6:30am	6:00pm	6:30am	8:00am	5:00pm	—	—	—	—	—		
TUE	12	6:30am	6:00pm	6:30am	10:15am	5:00pm	—	—	—	—	—		
WED	13	6:30am	6:00pm	6:30am	8:30am	5:00pm	—	—	—	—	—		
THU	14	6:30am	6:00pm	6:30am	9:45am	4:30pm	—	—	—	—	—		
FRI	15	6:30am	6:00pm	6:30am	1:50pm	4:30pm	—	—	—	—	—		
SAT	16	7:00am	3:00pm	7:00am	10:00am	12:00pm	—	—	—	—	—		
SUN	17												
MON	18	6:30am	6:00pm	6:30am	12:00pm	5:00pm	—	—	—	—	—		
TUE	19	6:30am	6:00pm	6:30am	8:05am	5:00pm	—	—	—	—	—		
WED	20	6:30am	6:00pm	6:30am	8:40am	5:00pm	—	—	—	—	—		
THU	21	6:30am	6:00pm	6:30am	10:30am	5:00pm	—	—	—	—	—		
FRI	22	6:30am	6:00pm	6:30am	8:15am	5:00pm	—	—	—	—	—		
SAT	23	7:00am	3:00pm	7:00am	8:00am	11:30am	—	—	—	—	—		
SUN	24												
MON	25	—	—	—	—	—	—	—	—	—	—		
TUE	26	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H		
WED	27	6:30am	6:00pm	6:30am	—	—	8:50pm	9:40pm	—	—	—		
THU	28	6:30am	6:00pm	6:30am	12:15pm	5:00pm	—	—	—	—	—		
FRI	29	6:30am	6:00pm	6:30am	8:05am	5:00pm	—	—	—	—	—		
SAT	30	7:00am	3:00pm	7:00am	—	—	—	—	—	—	—		
SUN	31												

Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : FEBRUARY 2016											
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *			
		Start	Finish	Start	Finish	Start	Finish	Start	Finish		
MON	1 6:30am	6:30am	6:00pm	7:30am	5:00pm	—	—				
TUE	2 6:30am	6:30am	6:00pm	7:30am	12:30pm	—	—				
WED	3 6:30am	6:30am	6:00pm	8:15am	5:00pm	—	—				
THU	4 6:30am	6:30am	6:00pm	—	—	—	—				
FRI	5 6:30am	6:30am	6:00pm	3:05pm	5:00pm	—	—				
SAT	6 7:00am	7:00am	3:00pm	—	—	—	—				
SUN	7										
MON	8 6:30am	6:30am	6:00pm	8:10am	4:30pm	—	—				
TUE	9 6:30am	6:30am	6:00pm	—	—	—	—				
WED	10 6:30am	6:30am	6:00pm	1:00pm	5:00pm	—	—				
THU	11 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—				
FRI	12 6:30am	6:30am	6:00pm	10:00am	5:00pm	—	—				
SAT	13 7:00am	7:00am	3:00pm	—	—	—	—				
SUN	14										
MON	15 6:30am	6:30am	6:00pm	7:10am	5:00pm	—	—				
TUE	16 6:30am	6:30am	6:00pm	2:00pm	5:00pm	5:20am	6:30am				
WED	17 6:30am	6:30am	6:00pm	7:50am	5:00pm	5:15am	6:30am				
THU	18 6:30am	6:30am	6:00pm	9:45am	2:00pm	5:15am	6:30am				
FRI	19 6:30am	6:30am	6:00pm	10:15am	5:00pm	—	—				
SAT	20 7:00am	7:00am	3:00pm	10:30am	2:00pm	—	—				
SUN	21										
MON	22 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—				
TUE	23 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—				
WED	24 6:30am	6:30am	6:00pm	9:45am	5:00pm	—	—				
THU	25 6:30am	6:30am	6:00pm	8:00am	5:00pm	—	—				
FRI	26 6:30am	6:30am	6:00pm	11:00am	5:30pm	—	—				
SAT	27 7:00am	7:00am	3:00pm	7:45am	11:30am	—	—				
SUN	28										
MON	29 6:30am	6:30am	6:00pm	11:00am	5:00pm	—	—				

\*Outside 6:30 am to 6:00 pm Monday to Friday, and 7:00 am to 3:00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : MARCH 2016											
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *			
		Start	Finish	Start	Finish	Start	Finish	Start	Finish		
TUE	1 6:30am	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—		
WED	2 6:30am	6:30am	6:00pm	10:00am	5:00pm	—	—	—	—		
THU	3 6:30am	6:30am	6:00pm	12:00pm	5:30pm	—	—	—	—		
FRI	4 6:30am	6:30am	6:00pm	11:30am	5:00pm	—	—	—	—		
SAT	5 7:00am	7:00am	5:00pm	8:10am	12:00pm	—	—	—	—		
SUN	6										
MON	7 6:30am	6:30am	6:00pm	9:15am	5:00pm	—	—	—	—		
TUE	8 6:30am	6:30am	6:00pm	9:00am	5:00pm	—	—	—	—		
WED	9 6:30am	6:30am	6:00pm	8:15am	5:00pm	—	—	—	—		
THU	10 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—		
FRI	11 6:30am	6:30am	6:00pm	—	—	—	—	—	—		
SAT	12 7:00am	7:00am	5:00pm	—	—	—	—	—	—		
SUN	13										
MON	14 6:30am	6:30am	6:00pm	11:30am	5:00pm	8:00pm	3:00am	—	—		
TUE	15 6:30am	6:30am	6:00pm	10:30am	5:00pm	8:00pm	3:00am	—	—		
WED	16 6:30am	6:30am	6:00pm	8:15am	5:00pm	8:00pm	3:00am	—	—		
THU	17 6:30am	6:30am	6:00pm	9:30am	5:00pm	6:00pm	5:00am	—	—		
FRI	18 6:30am	6:30am	6:00pm	8:30am	5:00pm	5:30am	6:30am	—	—		
SAT	19 7:00am	7:00am	5:00pm	8:00am	12:00pm	—	—	—	—		
SUN	20										
MON	21 6:30am	6:30am	6:00pm	9:00am	5:00pm	—	—	—	—		
TUE	22 6:30am	6:30am	6:00pm	8:15am	5:00pm	—	—	—	—		
WED	23 6:30am	6:30am	6:00pm	8:10am	5:00pm	—	—	—	—		
THU	24 6:30am	6:30am	6:00pm	9:15am	5:00pm	—	—	—	—		
FRI	25 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H		
SAT	26 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H		
SUN	27										
MON	28 P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H		
TUE	29 6:30am	6:30am	6:00pm	8:40am	5:00pm	—	—	—	—		
WED	30 6:30am	6:30am	6:00pm	8:35am	5:00pm	—	—	—	—		
THU	31 6:30am	6:30am	6:00pm	8:05am	5:00pm	—	—	—	—		

\*Outside 6:30 am to 6:00 pm Monday to Friday, and 7:00 am to 3:00 pm Saturday

POSSUM BRUSH QUARRY

TABLE 1: HOURS OF OPERATIONS (Condition 9)

MONTH : APRIL 2016											
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *		Start	Finish
		Start	Finish	Start	Finish	Start	Finish	Start	Finish		
FRI	1 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—
SAT	2 7:00am	7:00am	3:00pm	8:00am	12:00pm	—	—	—	—	—	—
SUN	3										
MON	4 6:30am	6:30am	6:00pm	7:45am	5:00pm	—	—	—	—	—	—
TUE	5 6:30am	6:30am	6:00pm	7:30am	5:00pm	—	—	—	—	—	—
WED	6 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—
THU	7 6:30am	6:30am	6:00pm	9:15am	5:00pm	—	—	—	—	—	—
FRI	8 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—
SAT	9 7:00am	7:00am	3:00pm	8:—	—	—	—	—	—	—	—
SUN	10										
MON	11 6:30am	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—
TUE	12 6:30am	6:30am	6:00pm	6:30am	5:00pm	—	—	—	—	—	—
WED	13 6:30am	6:30am	6:00pm	4:00pm	5:00pm	—	—	—	—	—	—
THU	14 6:30am	6:30am	6:00pm	6:45am	5:00pm	—	—	—	—	—	—
FRI	15 6:30am	6:30am	6:00pm	8:15am	3:00pm	—	—	—	—	—	—
SAT	16 7:00am	7:00am	3:00pm	8:30am	12:00pm	—	—	—	—	—	—
SUN	17										
MON	18 6:30am	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—
TUE	19 6:30am	6:30am	6:00pm	8:15am	5:00pm	—	—	—	—	—	—
WED	20 6:30am	6:30am	6:00pm	11:00am	5:00pm	—	—	—	—	—	—
THU	21 6:30am	6:30am	6:00pm	8:15am	5:00pm	—	—	—	—	—	—
FRI	22 6:30am	6:30am	6:00pm	12:00pm	5:00pm	—	—	—	—	—	—
SAT	23 7:00am	7:00am	3:00pm	—	—	—	—	—	—	—	—
SUN	24										
MON	25	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H	P.H
TUE	26 6:30am	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—
WED	27 6:30am	6:30am	6:00pm	10:30am	5:00pm	—	—	—	—	—	—
THU	28 6:30am	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—
FRI	29 6:30am	6:30am	6:00pm	10:30am	5:00pm	—	—	—	—	—	—
SAT	30 7:00am	7:00am	3:00pm	—	—	—	—	—	—	—	—

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

POSSUM BRUSH QUARRY												
TABLE 1: HOURS OF OPERATIONS (Condition 9)												
MONTH : MAY 2016												
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *				
		Start	Finish	Start	Finish	Start	Finish	Start	Finish			
SUN	1											
MON	2	6:30am	6:00pm									
TUE	3	6:30am	6:00pm	10:20am	3:00pm							
WED	4	6:30am	6:00pm	10:00am	5:00pm							
THU	5	6:30am	6:00pm	8:30am	5:00pm							
FRI	6	6:30am	6:00pm	10:00am	5:00pm							
SAT	7	7:00am	3:00pm									
SUN	8											
MON	9	6:30am	6:00pm									
TUE	10	6:30am	6:00pm	7:30am	5:00pm							
WED	11	6:30am	6:00pm									
THU	12	6:30am	6:00pm	8:15am	5:00pm							
FRI	13	6:30am	6:00pm	8:00am	5:00pm							
SAT	14	7:00am	3:00pm									
SUN	15											
MON	16	6:30am	6:00pm	8:30am	5:00pm							
TUE	17	6:30am	6:00pm	9:30am	5:00pm							
WED	18	6:30am	6:00pm	8:15am	5:00pm							
THU	19	6:30am	6:00pm	9:15am	2:30pm							
FRI	20	6:30am	6:00pm									
SAT	21	7:00am	3:00pm									
SUN	22											
MON	23	6:30am	6:00pm	12:00pm	5:00pm							
TUE	24	6:30am	6:00pm	8:00am	5:00pm							
WED	25	6:30am	6:00pm	1:00pm	5:00pm							
THU	26	6:30am	6:00pm	7:30am	5:00pm							
FRI	27	6:30am	6:00pm	8:45am	5:00pm							
SAT	28	7:00am	3:00pm	10:00am	12:00pm							
SUN	29											
MON	30	6:30am	6:00pm	11:00am	4:00pm							
TUE	31	6:30am	6:00pm	11:15am	5:00pm							

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday



POSSUM BRUSH QUARRY												
TABLE 1: HOURS OF OPERATIONS (Condition 9)												
MONTH : JUNE 2016												
Date	Time Gate Opened	Quarry Activities		Processing - Crusher		Asphalt Night Works		Maintenance *		PH	PH	PH
		Start	Finish	Start	Finish	Start	Finish	Start	Finish			
WED	1	6:30am	6:00pm	7:30am	5:00pm	—	—	—	—	—	—	—
THU	2	6:30am	6:00pm	7:15am	5:00pm	—	—	—	—	—	—	—
FRI	3	6:30am	6:00pm	8:30am	4:30pm	—	—	—	—	—	—	—
SAT	4	7:00am	3:00pm	—	—	—	—	—	—	—	—	—
SUN	5	—	—	—	—	—	—	—	—	—	—	—
MON	6	6:30am	6:00pm	9:00am	5:00pm	—	—	—	—	—	—	—
TUE	7	6:30am	6:00pm	12:30pm	5:00pm	—	—	—	—	—	—	—
WED	8	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—	—
THU	9	6:30am	6:00pm	12:10pm	5:00pm	—	—	—	—	—	—	—
FRI	10	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—	—
SAT	11	7:00am	3:00pm	—	—	—	—	—	—	—	—	—
SUN	12	—	—	—	—	—	—	—	—	—	—	—
MON	13	—	—	—	—	—	—	—	—	—	—	—
TUE	14	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—	—
WED	15	6:30am	6:00pm	8:30am	5:00pm	—	—	—	—	—	—	—
THU	16	6:30am	6:00pm	8:15am	5:00pm	—	—	—	—	—	—	—
FRI	17	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—	—
SAT	18	7:00am	3:00pm	—	—	—	—	—	—	—	—	—
SUN	19	—	—	—	—	—	—	—	—	—	—	—
MON	20	6:30am	6:00pm	8:10am	5:00pm	—	—	—	—	—	—	—
TUE	21	6:30am	6:00pm	8:50am	5:00pm	—	—	—	—	—	—	—
WED	22	6:30am	6:00pm	8:20am	5:00pm	—	—	—	—	—	—	—
THU	23	6:30am	6:00pm	8:10am	5:00pm	—	—	—	—	—	—	—
FRI	24	6:30am	6:00pm	8:45am	5:00pm	—	—	—	—	—	—	—
SAT	25	7:00am	3:00pm	—	—	—	—	—	—	—	—	—
SUN	26	—	—	—	—	—	—	—	—	—	—	—
MON	27	6:30am	6:00pm	8:00am	5:00pm	—	—	—	—	—	—	—
TUE	28	6:30am	6:00pm	7:40am	5:00pm	—	—	—	—	—	—	—
WED	29	6:30am	6:00pm	9:30am	5:00pm	—	—	—	—	—	—	—
THU	30	6:30am	6:00pm	8:10	5:00pm	—	—	—	—	—	—	—

\*Outside 6.30 am to 6.00 pm Monday to Friday, and 7.00 am to 3.00 pm Saturday

## POSSUM BRUSH QUARRY

TABLE 2: RECORD OF EXTENDED HOURS OF OPERATION (Condition 10)

Period: 1 July 2015 to 30 June 2016

[illegible]

(Period: 1 July 2015 to 30 June 2016)

[illegible]

A2-16

## POSSUM BRUSH QUARRY

**TABLE 4: BLAST MONITORING AND COMPLAINTS** (*Conditions 13, 14 and 15*)

(Period: 1 July 2015 to 30 June 2016)

[illegible]

## POSSUM BRUSH QUARRY

**TABLE 5: NOTIFICATION OF PROPOSED BLASTS TO RESIDENTS WITHIN 2 km  
(Condition 17)**

(Period: 1 July 2015 to 30 June 2016)

Proposed Blast		Resident Name	How Advised	Time Advised	Personnel
Date	Time				
29/7/15	12:00pm	Mr B Kelliher	Via Post	24/7/15	L. Pechnik
"	"	Mrs Mrs Craythorne	"	"	"
"	"	Mrs Taylor	"	"	"
"	"	Mr Whitten	"	"	"
"	"	Mr Winn	"	"	"
"	"	Mr Brown	"	"	"
11/9/15	12:00pm	Mr B Kelliher	Via Post	8/9/15	L. Pechnik
"	"	Mrs Mrs Craythorne	"	"	"
"	"	Mrs Taylor	"	"	"
"	"	Mr Whitten	"	"	"
"	"	Mr Winn	"	"	"
"	"	Mr Brown	"	"	"
10/10/15	12:00pm	Mr Kelliher	Via Post	6/10/15	L. Pechnik
"	"	Mrs Mrs Craythorne	"	"	"
"	"	Mrs Taylor	"	"	"
"	"	Mr Whitten	"	"	"
"	"	Mr Winn	"	"	"
"	"	Mr Brown	"	"	"

## POSSUM BRUSH QUARRY

**TABLE 5: NOTIFICATION OF PROPOSED BLASTS TO RESIDENTS WITHIN 2 km  
(Condition 17)**

(Period: 1 July 2015 to 30 June 2016)

Proposed Blast		Resident Name	How Advised	Time Advised	Personnel
Date	Time				
28/1/16	12:00pm	Mr Kelliner	Via email	27/1/16 2:10:30am	L Pecnik
		Mr & Mrs Craythorne	Phone call	"	"
		Mrs Taylor	Via email	"	"
		Mr Whittor	"	"	"
		Mr Winn	"	"	"
		Mr Brown	"	"	"
1/4/16	2:00pm	Mr Kelliner	Via Email	30/3/16 2:30pm	L Pecnik
		Mr & Mrs Craythorne	Phone Call	"	"
		Mrs Taylor	Via Email	"	"
		Mr Whittor	"	"	"
		Mr Winn	"	"	"
		Mr Brown	"	"	"
24/6/16	Between 12:00pm-3:00pm	Mr Kelliner	Via Email	24/6/16 2:12:00pm	L Pecnik
"	"	Mr & Mrs Craythorne	Phone Call	"	"
"	"	Mrs Taylor	Via Email	"	"
"	"	Mr Whittor	"	"	"
"	"	Mr Winn	"	"	"
"	"	Mr Brown	"	"	"



Prefix	Surname	First Name/s	Street No	Street Name	Suburb	State	Post Code
Mr	Kelliher	B	PO	Box 687	TAREE	NSW	2430
Mr & Mrs	Craythorn	Mark & Dana	175	Possum Brush Road	POSSUM BRUSH	NSW	2430
Mrs	Taylor	Trudy	395	Possum Brush Road	POSSUM BRUSH	NSW	2430
Mr	Whitton	Graham	271	Possum Brush Road	POSSUM BRUSH	NSW	2430
Mr	Winn	B	5	St Peters Close	POSSUM BRUSH	NSW	2430
Mr	Brown	Donald	7	St Peters Close	POSSUM BRUSH	NSW	2430

24<sup>th</sup> July 2014

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Wednesday 29<sup>th</sup> July 2015 at approximately 12.00 pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager

8<sup>th</sup> September 2014

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Friday 11<sup>th</sup> September 2015 at approximately 12.00 pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager

6<sup>th</sup> October 2015

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Tuesday 10<sup>th</sup> October 2015 at approximately 12.00 pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager

27<sup>th</sup> January 2016

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Friday 28<sup>th</sup> January 2016 at approximately 12.00 pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager

30<sup>th</sup> March 2016

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Friday 1<sup>st</sup> April 2016 at approximately 2.00 pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager



22<sup>nd</sup> June 2016

Mr B Kelliher  
PO Box 687  
TAREE NSW 2430

Dear Brendan,

**BLAST NOTIFICATION**

Please be advised that a Blast is due to take place at Pacific Blue Metal Pty Ltd on Friday 24<sup>th</sup> June 2016 at approximately between 12.00 pm and 3:00pm.

Please don't hesitate to contact us if you require any further information.

Sincerely,

Charlie Kennett  
General Manager

**TABLE 6: RECORD OF SECONDARY BREAKAGE OF OVERSIZED BLOCKS**  
*(Condition 23)*

(Period : 1 July 2015 to 30 June 2016)

Page of Pages

[illegible]

## POSSUM BRUSH QUARRY

**TABLE 7: SUPPLY OF MATERIALS FOR ROAD MAINTENANCE**  
*(Condition 34)*

(Period: 1 July 2015 to 30 June 2016)

[illegible]

## POSSUM BRUSH QUARRY

**TABLE 8: RECORD OF MONITORING (Condition 2.P1.3)**

(Period: 1 July 2015 to 30 June 2016)

### WATER QUALITY

Date Sampled	Locations	Results Received	Comments
5/1/16	DAM 3	11/1/16	SEE REPORT
6/6/16	DAM 3	9/6/16	SEE REPORT

### NOISE

Date Measured	Locations	Comments
17/4/15	S ST PETERS CL, 175 POSSUM BRUSH SS POSSUM BRUSH RD	SEE REPORT
20/10/15	S ST PETERS CLOSE, 175 POSSUM BRUSH, SS POSSUM BRUSH RD	SEE REPORT
24/11/15	S ST PETERS CLOSE, 175 POSSUM BRUSH RD, SS POSSUM BRUSH RD	SEE REPORT

### DUST

Date	Locations	Results Received	Comments

## POSSUM BRUSH QUARRY

TABLE 9: RAINFALL RECORDED (mm) 2014/2015 (Condition 24)

	2015						2016					
	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June
1	4	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	6	1	22	0	0	0	6	0.5
3	0	0	4	0	3	19	42	0	0	0	0	0
4	0	0	2	0	8.5	0	34	0	4	2.5	0	0
5	0	0	0	P.H.	22.5	0	101.5	21	0	0	0	0
6	0	0	0	0	4	0	33	0	0	0	0	157
7	1	0	5	0	0	0	9.5	0	0.5	0	0	0
8	0	0	0	0.5	0	0	15	33	0	2	0	0
9	0	0	0	0.5	22	0	0	0	1.8	0	0	0
10	0	0	2	0	0	1	0	0	0	0	0	0
11	0	0	4	0	0	1	0	0	0	2	0	0
12	0	0	0	2	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	P.H.
14	3	0	0	9.5	0	0	0	0	0	4	0	2
15	0	0	0	0	0	0	2	0	3	0	0	0
16	0	0	0	0	64	0	0	1	4	0	0	0
17	0	0	0	0	3	30	0	0	2	0	0	0
18	0	0	28.5	0	0	0	35	1	0.5	8.5	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0
20	3	0	0	0	0	0	0	0	0	0	0	18.5
21	0.5	0	11	0	0	0	0	0	0	0	0	0
22	0	0	3	11.5	0	0	2	8.5	0	0	0	0
23	0	0	6	18	0	0	0	0	0	0	0	0
24	0	11	25	0	0	0	0	0	0	0	0	0
25	0	7	0	0	0	0	1/4	0	P.H.	P.H.	0	0
26	0	0	0	1.5	0	0	P.H.	0	P.H.	22	0	0
27	2	0	0	2.5	0	0	37.5	0	P.H.	1	0	3
28	0	0	7	9.5	0	0	1	0	P.H.	0.5	0	0.5
29	0	0	0	0	0	0	12.5	65.5	0	0	0	0
30	0	0	0	0	1	0	0	0	28.5	0	0	0
31	0	0	0	0	0	0	0	0	2	0	0	0
Total	13.5	18	97.5	84.5	134	116	335.5	206.5	46	42.5	6	1281.5

**POSSUM BRUSH QUARRY**

**TABLE 10: RECORD OF ON-SITE ENVIRONMENTAL STUDIES / INSPECTIONS**

(Period: 1 July 2015 to 30 June 2016)

Date	Person On-Site	Purpose	Comments
11/7/15	NATA	AUDIT	LABORATORY
11/7/15	SILVESTER TAN	LABORATORY BUILDING	FOR CONSTRUCTION
	GLCC	INSPECTION	CERTIFICATE
29/7/15	R STAFF	FIRE INSPECTION	NORTH COAST FIRE
17/8/15	R MCCORMICK	RMS AUDIT	QUARRY & LAB
	RMS		INSPECTION / AUDIT.
20/8/15	JOHN MCCOTT	Safety Audit	OH & S. / SITE
	DPL		
25/8/15	PAT MAYOH	ISO AUDIT	PBMG LMS.
25/8/15	SILVESTER TAN	LABORATORY BUILDING	CONSTRUCTION
	GLCC	INSPECTION	CERTIFICATE
26/8/15	PAT MAYOH	ISO AUDIT	PBMG LMS.
29/8/15	PBM OPEN	QUARRY INSPECTION	STAGE 2 OF
	DAY TO		CONSENT.
	NEIGHBOURS		
2/9/15	CCC	CCC MEETING	
3/9/15	SILVESTER TAN	LABORATORY BUILDING	CONSTRUCTION CERTIFICATE
	GLCC	INSPECTION	
7/9/15	TEM WRAY	WILDLIFE CORRIDOR	WEED CONTROL
	T MCFUOY	& SOM BUFFER	
7/9/15	THEIR - QBE	INSURANCE INSPECTION	RISK ASSESSMENTS
8/9/15	TEM WRAY	WILDLIFE CORRIDOR	WEED CONTROL
	T MCFUOY	& SOM BUFFER	BUSH REGEN



**POSSUM BRUSH QUARRY**

**TABLE 10: RECORD OF ON-SITE ENVIRONMENTAL STUDIES / INSPECTIONS**

(Period: 1 July 2015 to 30 June 2016)

Date	Person On-Site	Purpose	Comments
14/9/15	TIM WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	TOM McEVoy	"	SOM BUFFER
15/9/15	TIM WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T McEVoy	"	SOM BUFFER
15/9/15	ROB CORKELEY	EMR	AUDIT
16/9/15	TIM WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T McEVoy	"	SOM BUFFER
17/9/15	TIM WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T McEVoy	"	SOM BUFFER
20/10/15	L WEBSTER	TOUR CERTIFY	OH & S.
1/12/15	Leah COOR	DPE	INSPECTION STAGE 2
	STANHOPE M	"	CONSENT.
8/12/15	J VAUGHAN	NATIA	LAB AUDIT.
9/12/15	PARKSITING	"	
	THAMERIA	"	
9/12/15	R AKHURST	EPA	INSPECTION
	M MOORE	EPA	"
10/12/15	R STAFF	FIRE INSPECTION	NORTH COAST FIRE
14/12/15	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T McEVoy	"	SOM BUFFER
15/12/15	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T McEVoy	"	SOM BUFFER

## POSSUM BRUSH QUARRY

**TABLE 10: RECORD OF ON-SITE ENVIRONMENTAL STUDIES / INSPECTIONS**

(Period: 1 July 2015 to 30 June 2016)

Date	Person On-Site	Purpose	Comments
16/12/15	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
18/12/15	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
12/1/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
3/1/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
14/1/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
21/3/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
23/3/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
24/3/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
29/3/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
31/3/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY	"	SOM BUFFER
1/4/16	T WRAY	BUSH REGEN	WILDLIFE CORRIDOR
	T M'EVONY		SOM BUFFER

## POSSUM BRUSH QUARRY

**TABLE 10: RECORD OF ON-SITE ENVIRONMENTAL STUDIES / INSPECTIONS**

(Period: 1 July 2015 to 30 June 2016)

[illegible]

## POSSUM BRUSH QUARRY

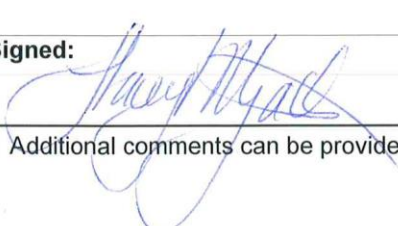
### TABLE 11: COMPLAINTS REGISTER

(Period: 1 July 2015 to 30 June 2016)

[illegible]

## POSSUM BRUSH QUARRY

TABLE 12: COMPLAINTS RECORD SHEET \*

Complaint No. <u>01/15-16</u>	
<b>Time and date of complaint:</b> 06:27hrs Thursday 23 June 2016	
<b>Complaint received by: (who / how?)</b> Email address: office@pacificbluemetal.com.au	
<b>Name of Complainant:</b> Louise Smith.	
<b>Date / Time of the Activity Concerned:</b> 06:05hrs Thursday 23 June 2016	
<b>Nature of the Complaint:</b> Loud squealing brakes on same Truck and Dog as it brakes to turn off Pacific Highway onto Possum Possum Brush Road every morning.	
<b>Investigation Results:</b> Truck and Dog with offending brakes identified. Truck rego BV91ZF.	
<b>Measures Required to Overcome Concern (if required):</b> Brakes of BV91ZF inspected. Dolly brake lining found to have lip in it. All replaced. Brakes of all other trucks systematically inspected and adjusted if necessary.	
<b>Response / Commitment(s) to Complainant:</b> See attached chain of emails.	
<b>Complainant Satisfied:</b> Yes - see attached chain of emails.	
<b>Signed:</b> 	<b>Date:</b> 13 <sup>th</sup> July 2016

\* Additional comments can be provided on the back of this sheet

**From:** [Louise Wakeling Smith](#)  
**To:** [Stacey Tyack](#)  
**Subject:** Re: Squealing brakes  
**Date:** Friday, July 1, 2016 10:10:05 AM

---

Hi Stacey  
It is strangely quiet this morning  
Thank you  
Louise

Sent from my iPad

> On 30 Jun 2016, at 2:26 PM, Stacey Tyack <qse@pacificbluemetal.com.au> wrote:  
>  
> Hi Louise,  
>  
> I have spoken to our Head Mechanic who is systematically inspecting the brakes of all our trucks today and tomorrow.  
> I will let you know the outcome of the process when he is complete.  
>  
> Regards, Stacey  
>  
> -----Original Message-----  
> From: Louise Wakeling Smith [<mailto:louisewakelingsmith@gmail.com>]  
> Sent: Thursday, June 30, 2016 7:23 AM  
> To: Stacey Tyack  
> Subject: Re: Squealing brakes  
>  
> Hi Stacey  
>  
> Perhaps you should have the brakes of all the trucks looked at. Between 6.30 and 7.20 this morning, there have been 3 vehicles with squealing brakes.  
>  
> Have a great day.  
> Louise  
>  
> Sent from my iPad  
>  
>> On 27 Jun 2016, at 12:48 PM, Stacey Tyack <qse@pacificbluemetal.com.au> wrote:  
>>  
>> Dear Louise,  
>>  
>> Firstly, thank you for bringing to our attention the issue of squealing brakes on one of our vehicles.  
>>  
>> Following your email we investigated the complaint and identified the offending Truck and Dog.  
>>  
>> The brakes of this vehicle were fixed on Friday 24 June 2016.  
>>  
>> I appreciate the time you took to let us know of the noise from the brakes. If you have any further queries or issues please do not hesitate to get in contact either via email at [qse@pacificbluemetal.com.au](mailto:qse@pacificbluemetal.com.au) or phone 6554 3206.  
>>  
>> Kind regards,  
>> Stacey  
>>



>>

>>

>> -----Original Message-----

>> From: Office [<mailto:office@pacificbluemetal.com.au>]

>> Sent: Thursday, June 23, 2016 7:20 AM

>> To: 'Charlie Kennett'

>> Cc: trucks@pacificbluemetal.com.au; 'Charlie Kennett'; 'Admin'; 'Donna Jacobs'; 'Stacey Tyack'

>> Subject: FW: Squealing brakes

>>

>> FYI

>>

>>

>> Regards

>> Laurie Walsh

>> Office Manager

>>

>> Pacific Blue Metal Pty Ltd

>> Great Lakes Aggregates Pty Ltd

>> PO Box 6

>> NABIAC NSW 2312

>>

>> Ph: 02 6554 3206

>> Fax: 02 6554 3250

>>

>>

>>

>>

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>>

>>

>>

>> -----Original Message-----

>> From: Louise Wakeling Smith [<mailto:louisewakelingsmith@gmail.com>]

>> Sent: Thursday, June 23, 2016 6:27 AM

>> To: office@pacificbluemetal.com.au

>> Subject: Squealing brakes

>>

>>

>>

>> Good morning

>>

>> My husband and I live on the corner of Pacific Highway and Possum Brush Road. We are used to the trucks roaring past on the highway all hours of the night and day, and we are used to seeing quarry trucks running back and forth.

>>

>> What we do find offensive is the screeching of brakes as they approach the intersection. Every time we hear this we say to each other that we must contact you, but then life goes on and we don't. I have even mentioned it to my hairdresser (Sarah) a few years ago and she was going to tell her father who manages the quarry.

>>

>> But this morning when I was saying goodbye to my husband as he left for work, at 6.05am a truck and dog heading north on the Pacific Highway, applied his brakes before the intersection to turn into Possum Brush Road and the screech was deafening!!

>>

>> My husband with his attention to detail says it is the same vehicle every time and that it doesn't happen on all of the truck and dogs that use the road. Apparently it is one of the quarries trucks, not a subcontractors vehicle.

>>

>> We appreciate that the trucks run 'what ever time of day or night they wish', however Possum Brush Road is a

rural residential area and it would be greatly appreciated if you would ensure the maintenance on the vehicles is attended to, so that we do not have to endure this noise at 'what ever time of day or night they wish'. If the trucks ran within business hours, this would not be of such a concern to us.

>>

>> Please have a little respect for the residents of Possum Brush Road, your neighbours, and attend to the proper maintenance of the brakes on your vehicles?

>>

>> Kind regards

>> Louise Smith

>>

>>

>>

>>

>> -----

>> Connection by White Pages®

>>

>>

>> Sent from my iPad=

>

# POSSUM BRUSH QUARRY

**TABLE 13: RECORD OF CONTRIBUTIONS FOR MAINTENANCE OF POSSUM BRUSH ROAD**  
(Condition 36)

Month Ending	Tonnes	Amount Paid*	Date Paid	Authorised by
Friday, July 31, 2015	40,434.04	\$4,447.74	15-September-2015	C. Kennett
Monday, August 31, 2015	31,333.59	\$3,446.69	20-October-2015	C. Kennett
Wednesday, September 30, 2015	40,736.32	\$4,481.00	15-November-2015	C. Kennett
Saturday, October 31, 2015	19,883.51	\$2,187.19	15-December-2015	C. Kennett
Monday, November 30, 2015	30,520.83	\$3,357.29	15-January-2016	C. Kennett
Thursday, December 31, 2015	13,245.21	\$1,456.97	15-February-2016	C. Kennett
Sunday, January 31, 2016	6,219.88	\$984.19	15-April-2016	C. Kennett
Monday, February 29, 2016	25,823.19	\$2,840.55	15-April-2016	C. Kennett
Thursday, March 31, 2016	22,423.22	\$2,466.55	15-May-2016	C. Kennett
Saturday, April 30, 2016	18,087.83	\$1,989.66	15-June-2016	C. Kennett
Tuesday, May 31, 2016	23,728.56	\$2,610.14	15-July-2016	C. Kennett
Thursday, June 30, 2016	14,417.61	\$1,585.94	15-August-2016	C. Kennett
Totals	286,853.79	\$31,853.91		

# Appendix 3

## Minutes of Community Consultative Committee Meetings

- 2 September 2015
- 14 December 2015

(Total No. of pages including blank pages = 8)

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<b>Attendees:</b>	Clr David West (Chair)	GTCC
	Petula Bowden	GTCC
	Arnna Fotheringham	GTCC
	Charlie Kennett	Pacific Blue Metal Quarry (PBMQ)
	Stacey Tyack	Pacific Blue Metal Quarry (PBMQ)
	Don Brown	Community Representative
	Trudy Taylor	Community Representative
<b>Minute Taker:</b>	Maree Schubert	GTCC



	<p>happening at the quarry and that they will be moving forward with Stage 2 which is a progression of the existing consent. Trudy said the community really enjoyed the day. Don said it was very well done.</p> <p>e. Don asked about the 200,000 tonne limit. Charlie said the Dept of Planning wants to have a 500,000 tonne limit as the trigger level and it would take away averages. Charlie said he is nominating an average and based on projections the quarry won't exceed 500,000 per annum.</p> <p>Charlie said there are no quarries within this Council area producing over the 500,000 tonne limit, but there are two quarries doing so in neighbouring Councils. He said a quarry producing under the 500,000 tonne limit is not considered large.</p> <p>Trudy said if production doesn't increase truck movements won't increase so that is acceptable. Charlie said output will increase a little maybe 220,000 to 240,000 tonne average. He said some years 400,000 tonne went out the gate and recently July was the biggest month they have ever had and there have been no issues.</p> <p>f. Charlie advised as part of Stage 2 additional traffic and noise monitoring would need to be carried out.</p> <p>Trudy asked if noise would increase near her property and Charlie said it should decrease. He said Area B will be brought down to the same level and is unlikely that noise would increase. The wildlife corridor would remain the same.</p> <p><b>Action: Charlie will forward the plan to Don, Trudy and Arnna.</b></p> <p>g. Charlie advised that as part of the EPA Pollution Incident Response Plan he has to nominate that there was a fire at the quarry in the lab in May. He said one portion of a demountable building was burnt out and that has been replaced and a Council Building Inspector will be undertaking the final inspection tomorrow.</p> <p>h. Cllr West expressed how pleased he is with how everything is working. PBMQ staff, Council and the community are working well together to address any problems as they arise.</p>	<p>Noted</p> <p>Noted</p> <p>Charlie</p> <p>Noted</p>
5.	Meeting Closed – 10am	



**Minutes of Community Consultative Committee  
Meeting for Pacific Blue Metal Quarry, Possum Brush  
held 14 December 2015 at Taree Council commencing  
at 9.30am**

File No: S680

<b>Attendees:</b>	Clr David West (Chair)	GTCC
	Petula Bowden	GTCC
	Arnna Fotheringham	GTCC
	Charlie Kennett	Pacific Blue Metal Quarry (PBMQ)
	Don Brown	Community Representative
	Trudy Taylor	Community Representative
<b>Minute Taker:</b>	Maree Schubert	GTCC

No	Item	Responsible for Action
1.	<b>Apologies:</b> Nil	Noted
2.	<b>Minutes of Last Meeting 2 September 2015</b> Moved. Trudy Taylor Seconded. Clr David West	Minutes Carried
3.	<b>Business Arising from previous minutes</b>  <b>a) Load limit</b>  Don said in the past it looked like 200,000 tonne was the usual average with a peak in 2012 of up to 370,000 tonne but since that time it looks like it has been trending down.  Charlie advised that legislation has changed. With the original consent Department of Planning (DoP) were ok with averages, but with the new modification of development consent things have to be tightened up and there will be a limit set of 500,000 tonne per annum. Charlie said he believes there will be a gradual increase in demand over time.  Note: Dept of Planning have the application for modification of development consent displayed on their website and the public can lodge submissions. <a href="http://majorprojects.planning.nsw.gov.au/index.pl?action=search&amp;page_id=&amp;search=&amp;authority_id=479&amp;search_site_type_id=&amp;reference_table=&amp;status_id=&amp;decider=&amp;from_date=&amp;to_date=&amp;x=25&amp;y=6">http://majorprojects.planning.nsw.gov.au/index.pl?action=search&amp;page_id=&amp;search=&amp;authority_id=479&amp;search_site_type_id=&amp;reference_table=&amp;status_id=&amp;decider=&amp;from_date=&amp;to_date=&amp;x=25&amp;y=6</a>	Noted

4.	<p><b>General Business</b></p> <p><b>a) Environmental Management Report 2015 (EMR)</b></p> <p>Don - nothing much different from the last EMR.</p> <p><b>b) Recycling material</b></p> <p>PBMQ met with EPA last week about waste. There is a new policy which imposes fees on waste that stays on site for more than 12 months. There is a requirement for waste stock piles to be surveyed annually. PBMQ have had it surveyed/flown by a drone and a complete model done.</p> <p>EPA have audited PBMQ three times in the last six months.</p> <p><b>c) Concrete Crushing</b></p> <p>Trudy asked if PBMQ can advise when they are about to do the concrete crushing.</p> <p><b>Action: Charlie will advise neighbours when they are about to undertake concrete crushing.</b></p> <p><b>d) Truck noise</b></p> <p>Trudy said she received a complaint from a neighbour about truck brake noise during the night works. She said this neighbour rang the Mayor. Trudy said she has told neighbours they need to follow the agreed process of ringing the quarry when something happens so Charlie can identify the truck to try to resolve any issues as they arise.</p> <p>Don said there have been ongoing concerns with noise and with the escalation of the quarry, the recycling and the asphalt problems may increase. It was agreed it is worse at different times depending on the wind.</p> <p><b>e) Water Quality</b></p> <p>Don advised Brendan is still concerned about the overflow from dams and what it could be doing to his soil in regard to contamination. Council advised they did approach EPA to ask if testing is needed and the EPA didn't see a need for it as the environmental levels of the water are satisfactory.</p> <p><b>f) Possum Brush Road</b></p> <p>Charlie said Possum Brush Road is a funded road. He said Council and the Quarry has done some repairs, but there is a need for Council to keep an eye on it and use the funding to keep it maintained.</p> <p>There are 3 areas where it really needs fixing. Some parts need</p>	<p>Noted</p> <p>Noted</p> <p>Charlie</p> <p>Noted</p> <p>Noted</p> <p>Noted</p>
----	--	---

	<p>resealing and some potholes continue to degrade, one being where the trucks are turning in and out onto the road from the quarry. PBMQ would like Council to investigate and put a plan in place to do works on the road.</p> <p><b>Action: Council staff to talk to Senior Leader about investigating and planning for road maintenance.</b></p>	Arnna
5.	Meeting Closed – 10.30am	

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# Appendix 4

## Noise Monitoring Reports

(Total No. of pages including blank pages = 12)





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13 October 2015

Ref: 09497/6095

**Mr. Charlie Kennett**

Pacific Blue Metal Pty Limited  
P.O. Box 6  
Nabiac NSW 2312

**RE: POSSUM BRUSH QUARRY – NOISE MONITORING, SEPTEMBER 2015**

This letter report presents the results of noise monitoring conducted for Pacific Blue Metals at their Possum Brush Quarry on Thursday September 17, 2015 at approximately 5:00 pm.

The noise monitoring was carried out to determine compliance with the Environmental Licence for the quarry (EPL condition L6.1). Noise measurements of fifteen minutes duration were taken in the day time period, with a third-octave band Bruel & Kjaer Observer sound level meter (Type 1). The monitoring locations are shown below in **Figure 1**. The relevant noise limits for each location are shown in **Table 1** (as per condition L6.1).

**Table 1 : Noise Limits – Possum Brush Quarry**

Location	dB(A) Leq (15 min)	dB(A), Lmax
1. 5 St Peters Close	39	45
2. 175 Possum Brush Rd	38	45
3. 55 Possum Brush Rd	37	45

Measured noise levels are summarised in **Table 2**. An analysis of the data was undertaken using Bruel & Kjaer Evaluator software which, when referenced to site observations, enables the identification of noise not related to the quarry and the calculation of the contribution of quarry noise to overall received noise levels. The respective estimated noise contributions are shown in brackets in Table 2.





Possum Brush Quarry Noise Monitoring September 2015

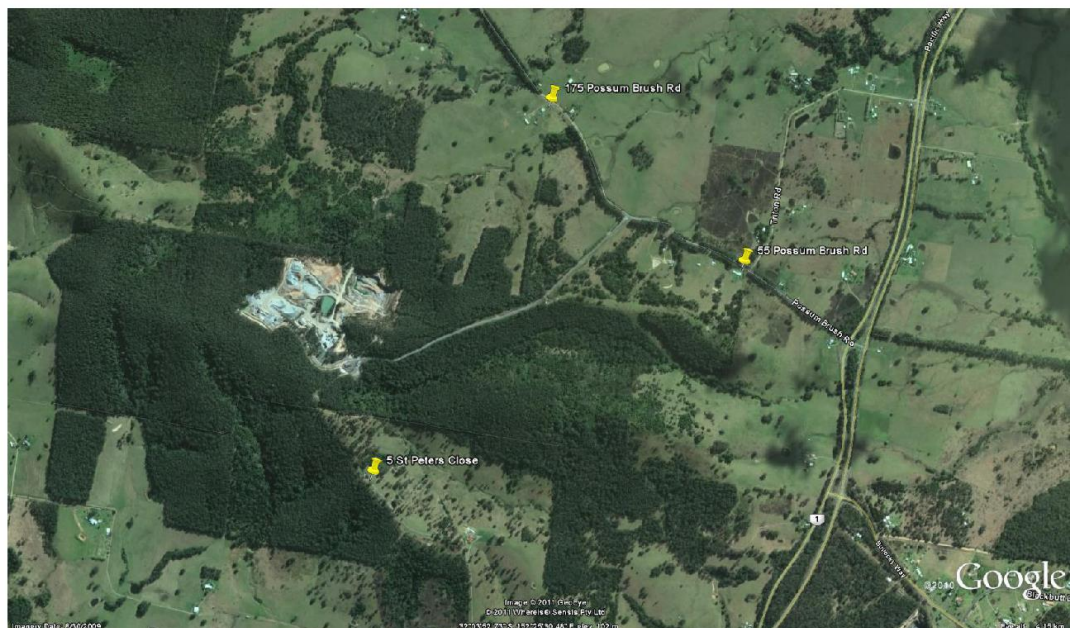


Figure 1 Noise Monitoring Locations

Table 2 : Noise Monitoring Results – 17 September 2015

Location	Wind Speed/dir	dB(A), LAeq	Comments
5 St Peters Close 5:42 pm	1.0ms/W	44	Distant traffic (42), birds (38), water pump (33), <b>Quarry inaudible</b>
175 Possum Brush Rd 4:55 pm	1.0ms/W	40	Birds (38), distant traffic (35), <b>Quarry (25)</b>
55 Possum Brush Rd 5:16 pm	1.0ms/W	49	Birds (48), distant traffic (42), <b>Quarry inaudible</b>

The results shown in Table 2 indicate that, under the operational and atmospheric conditions at the time, noise emissions from the quarry did not exceed the relevant noise criteria at any monitoring location at any time during the survey.

No trucks were audible entering or exiting the quarry during the entire monitoring period and noise from the quarry was only audible at 175 Possum Brush Rd. The audible noise was a low level hum and occasional engine revs from the operating on-site machinery.

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please do not hesitate to contact the undersigned.





Yours faithfully,  
SPECTRUM ACOUSTICS PTY LIMITED

A handwritten signature in black ink, appearing to read "Ross Hodge". The signature is fluid and cursive, with the first name "Ross" and last name "Hodge" clearly distinguishable.

Ross Hodge  
Acoustical Consultant





23 October 2015

Ref: 09497/6108

**Mr. Charlie Kennett**  
Pacific Blue Metal Pty Limited  
P.O. Box 6  
Nabiac NSW 2312

**RE: POSSUM BRUSH QUARRY – NOISE MONITORING, OCTOBER 2015**

This letter report presents the results of noise monitoring conducted for Pacific Blue Metals at their Possum Brush Quarry on Tuesday October 20, 2015 starting at approximately 6:00 am. The monitoring was timed to coincide with the operation of the asphalt plant and the transport of asphalt from the site during the night time period.

The noise monitoring was carried out to determine compliance with the Environmental Licence for the quarry (EPL condition L6.1). Noise measurements of fifteen minutes duration were taken with a third-octave band Bruel & Kjaer Observer sound level meter (Type 1). The monitoring locations are shown below in **Figure 1**. The relevant noise limits for each location are shown in **Table 1** (as per condition L6.1).

**Table 1 : Noise Limits – Possum Brush Quarry**

Location	dB(A) Leq (15 min)	dB(A), Lmax
1. 5 St Peters Close	39	45
2. 175 Possum Brush Rd	38	45
3. 55 Possum Brush Rd	37	45

Measured noise levels are summarised in **Table 2**. An analysis of the data was undertaken using Bruel & Kjaer Evaluator software which, when referenced to site observations, enables the identification of noise not related to the quarry and the calculation of the contribution of quarry noise to overall received noise levels. The respective calculated noise contributions are shown in brackets in Table 2.







Possum Brush Quarry Noise Monitoring October 2015



Figure 1 Noise Monitoring Locations

Table 2 : Noise Monitoring Results –20 October 2015

Location	Wind Speed/dir	dB(A), LAeq	Comments
5 St Peters Close 6:03 am	0.4ms/SW	43	Birds (41), distant traffic (39), <b>Quarry barely audible<sup>1</sup></b>
175 Possum Brush Rd 6:25 am	0.5ms/SW	46	Distant traffic (44), birds (41), <b>Quarry inaudible</b>
55 Possum Brush Rd 6:43 am	0.5ms/SW	46	Distant traffic (45), birds (40), <b>Quarry inaudible</b>

1. Quarry noise is that of trucks on access road

The results shown in Table 2 indicate that, under the operational and atmospheric conditions at the time, noise emissions from the quarry did not exceed the relevant noise criteria at any monitoring location at any time during the survey.

The asphalt plant commenced operation at approximately 5:00 am, with trucks being loaded after this intermittently. At 6:03 am the noise was measured at the residence at 5 St. Peters Close. The asphalt plant was not audible at this location. A truck left the site at approximately 6:15 am and this truck was briefly audible on occasions as it travelled on the quarry access road, but it was not measurable. Birds and traffic on the Pacific Highway were dominant throughout the measurement.

At 175 Possum Brush Road the noise from the asphalt plant was not audible. Noise from traffic on the Pacific Highway and birds dominated the measurement. No trucks from the quarry were audible from this measurement location.

At 55 Possum Brush Road the asphalt plant and associated trucks were not audible. Noise from traffic on the Pacific Highway and birds were again dominant at this measurement location.







---

**Possum Brush Quarry Noise Monitoring October 2015**

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please do not hesitate to contact the undersigned.

Yours faithfully,

**SPECTRUM ACOUSTICS PTY LIMITED**

A handwritten signature in black ink, appearing to read "T. McCormick".

**Tristan McCormick**  
Acoustical Consultant





26 November 2015

Ref: 09497/6175

**Mr. Charlie Kennett**

Pacific Blue Metal Pty Limited  
P.O. Box 6  
Nabiac NSW 2312

**RE: POSSUM BRUSH QUARRY – NOISE MONITORING, NOVEMBER 2015**

This letter report presents the results of noise monitoring conducted for Pacific Blue Metals at their Possum Brush Quarry on Tuesday November 24, 2015 starting at approximately 6:00 pm. The monitoring was timed to coincide with the operation of the asphalt plant and the transport of asphalt from the site during the evening period.

The noise monitoring was carried out to determine compliance with the Environmental Licence for the quarry (EPL condition L6.1). Noise measurements of fifteen minutes duration were taken with a third-octave band Bruel & Kjaer Observer sound level meter (Type 1). The monitoring locations are shown below in **Figure 1**. The relevant noise limits for each location are shown in **Table 1** (as per condition L6.1).

**Table 1 : Noise Limits – Possum Brush Quarry**

Location	dB(A) Leq (15 min)	dB(A), Lmax
1. 5 St Peters Close	39	45
2. 175 Possum Brush Rd	38	45
3. 55 Possum Brush Rd	37	45

Measured noise levels are summarised in **Table 2**. An analysis of the data was undertaken using Bruel & Kjaer Evaluator software which, when referenced to site observations, enables the identification of noise not related to the quarry and the calculation of the contribution of quarry noise to overall received noise levels. The respective calculated noise contributions are shown in brackets in Table 2.





Possum Brush Quarry Noise Monitoring November 2015

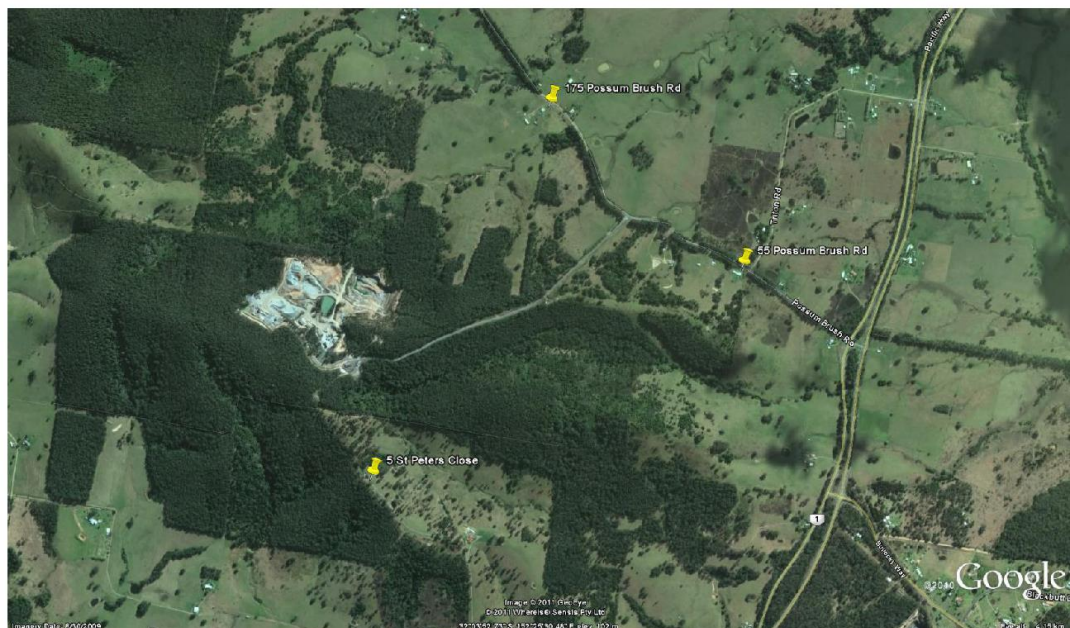


Figure 1 Noise Monitoring Locations

Table 2 : Noise Monitoring Results –24 November 2015

Location	Wind Speed/dir	dB(A), LAeq	Comments
5 St Peters Close 5:58 pm	3.2ms/NE	44	Birds (41), distant traffic (40), wind (32), <b>Quarry (26)</b>
175 Possum Brush Rd 6:24 pm	2.1ms/NE	38	Distant traffic (36), birds (34), <b>Quarry inaudible</b>
55 Possum Brush Rd 6:43 am	1.8ms/NE	46	Distant traffic (44), birds (42), <b>Quarry inaudible</b>

The results shown in Table 2 indicate that, under the operational and atmospheric conditions at the time, noise emissions from the quarry did not exceed the relevant noise criteria at any monitoring location at any time during the survey.

The asphalt plant commenced operation at approximately 5:00 pm, with trucks being loaded after this intermittently. At 5:58 pm the noise was measured at the residence at 5 St. Peters Close. The asphalt plant was audible at this location. A truck left the site at approximately 6:05 am and this truck was briefly audible on occasions as it travelled on the quarry access road, but it was not measurable. Birds and traffic on the Pacific Highway were dominant throughout the measurement.

At 175 Possum Brush Road the noise from the asphalt plant was not audible. Noise from traffic on the Pacific Highway and birds dominated the measurement. No trucks from the quarry were audible from this measurement location.

At 55 Possum Brush Road the asphalt plant and associated trucks were not audible. Noise from traffic on the Pacific Highway and birds were again dominant at this measurement location.





---

**Possum Brush Quarry Noise Monitoring November 2015**

We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please do not hesitate to contact the undersigned.

Yours faithfully,

**SPECTRUM ACOUSTICS PTY LIMITED**

A handwritten signature in black ink, appearing to read 'T. McCormick'.

**Tristan McCormick**  
Acoustical Consultant



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# Appendix 5

## Return for Extractive Materials – 2014/2015

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Department  
of Industry  
Resources & Energy

Form S 1

RETURN FOR EXTRACTIVE MATERIALS: YEAR ENDED 30 JUNE 2015

Quote RIMS ID in all correspondence

Quarry Id: 6047	Rims ID: 400043	<b>Inquiries please telephone:</b> (02) 4931 6434 <b>Completed or Nil Returns</b> Fax - (02) 4931 6788 Email – <a href="mailto:mineral.royalty@industry.nsw.gov.au">mineral.royalty@industry.nsw.gov.au</a> Postal Address (see address below)
Operators Name: PACIFIC BLUE METAL PTY LTD Address: PO BOX 6 NABIAC NSW 2312		
Email: <a href="mailto:charlie@pacificbluemetal.com.au">charlie@pacificbluemetal.com.au</a>		<i>Please amend name, postal address and location of mine or quarry if incorrect or incomplete</i>
Quarry Name: PACIFIC BLUE METAL PTY LTD Quarry Address: 113 POSSUM BRUSH RD		

2  
0  
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-  
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1  
5

The return should be completed and forwarded to the **STATISTICAL OFFICER, NSW DEPARTMENT OF INDUSTRY RESOURCES AND ENERGY, PO BOX 344, HUNTER REGION MAIL CENTRE NSW 2310** on or before **30 November, 2015**. If completion of the return is unavoidably delayed, an application for extension of time should be requested **before** the due date. If no work was done during the year, a **NIL** return must be forwarded.

The return should relate to the **above quarrying establishment**, and should cover the operations of quarrying and treatment (such as crushing, screening, washing etc.) carried out at or near the quarry. A return is required even if the operations are solely of a developmental nature, and whether the area being worked is held under a mining title or otherwise.

Adrian Delany, Director Industry Coordination

Please complete the following information to assist in identifying the location of the Quarry

Typical Geology - Hard Rock \_\_\_\_\_

Nearest Town to Quarry - Nabiac \_\_\_\_\_

Local Council Name - Greater Taree City Council \_\_\_\_\_

Deposited Plan and Lot Number/s of Quarry - Lot 109 D.P 753195 \_\_\_\_\_

Email Address of Operator - [charlie@pacificbluemetal.com.au](mailto:charlie@pacificbluemetal.com.au) \_\_\_\_\_

Name of Owner or Licensee - Pacific Blue Metal Pty Ltd \_\_\_\_\_

Postal Address of Licensee - PO Box 6 Nabiac 2312 \_\_\_\_\_

Licence/Lease Number/s (if any)

From Mineral Resources NSW (Industry & Investment NSW) - N/A \_\_\_\_\_

From Department of Lands or other Department - N/A \_\_\_\_\_

If any output was obtained from land NOT held under licence from the above Departments, state the Name/s and Address/es of the Owners of the land - N/A \_\_\_\_\_

- To the best of my knowledge, the particulars which have been entered in this return are correct and no blank spaces have been left where figures should have been inserted.

• SIGNATURE of PROPRIETOR or MANAGER  DATE - 08/10/2015 \_\_\_\_\_

• PERSON to be contacted if queries arise regarding this return – CHARLES KENNETT \_\_\_\_\_

• NAME (Block letters) – CHARLES KENNETT \_\_\_\_\_ Telephone -02 6554 3206 \_\_\_\_\_

SALES During 2014-2015

Production information may be published in aggregated form for statistical reporting. However, production data for individual operations is kept strictly confidential.

Product	Description	Quantity Tonnes
<b>Virgin Materials</b>		
• <b>Crushed Coarse Aggregates</b>		
Over 75mm		12812.60
Over 30mm to 75mm		1309.00
5mm to 30mm		22183.81
Under 5mm		1746.59
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		159229.00
Other Unprocessed Materials		10498.74
<b>Recycled Materials</b>		
• <b>Crushed Coarse Aggregates</b>		
Over 75mm		
Over 30mm to 75mm		
5mm to 30mm		
Under 5mm		
Natural Sand		
Manufactured Sand		
Prepared Road Base & Sub Base		
Other Unprocessed Materials		
• <b>River Gravel</b>		
Over 30mm		
5mm to 30mm		
Under 5mm		
• <b>Construction Sand</b>	Excluding Industrial	
• <b>Industrial Sand</b>		
Foundry, Moulding		
Glass		
Other (Specify)		
• <b>Dimension Stone</b>	Building, Ornamental, Monumental	
Quarried in Blocks		
Quarried in Slabs		
• <b>Decorative Aggregate</b>	Including Terrazzo	
• <b>Loam</b>	Soil for Topdressing, Garden soil, Horticultural purposes)	
• <b>TOTAL SITE PRODUCTION</b>		<b>207779.74</b>
• <b>Gross Value (\$) of all Sales</b>		
• <b>Type of Material</b>	GREY WACKE	
• <b>Number of Full-Time Equivalent (FTE) Employees</b>	Employees: 11	Contractors: 1

Please Note: A return for clay based products can be obtained by contacting the inquiry number.

# Appendix 6

## Regeneration Activities Report – 2015/2016

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## POSSUM BRUSH QUARRY REGENERATION ACTIVITIES REPORT

### 2015/2016

Report No: 02



**Plate 1:** View of a Bush Turkey nest that has moved into habitat corridor after lantana thicket removal

#### Tasks Undertaken:

- Inspect Habitat corridor A for evidence of quarterly weed control as per Environmental Management Plan.
- Inspect Habitat corridor A for native flora succession /rehabilitation.
- Inspect Habitat corridor B for evidence of quarterly weed control as per Environmental Management Plan.
- Inspect Habitat corridor B for native flora succession/rehabilitation.
- Inspect Buffer zones around perimeters of Habitat corridors A and B for evidence of weed control as per Environmental Management Plan.
- Inspect Habitat corridor fences external and internal.
- Inspect corridor/ fire breaks/buffers for excessive fuel loads directly related to Habitat Corridors integrity.
- Perouse previous studies and contractors reports.



- Written and photographed documentation.
- Meeting with sites owner.

**Comments:** For comments on tasks undertaken see Comment Attachments (01)

**Obligations for PBM as per Environmental Management Plan and this report:**

**Area A Habitat Corridor:**

- Continued bio security controls to minimise the threat of Myrtle Rust (*Uredo rangelii*) as well as infestations of other non-native flora.
- Continued suppression of non-native floras within area A see identified weed list (Appendix 01).
- Maintain external fences.
- Maintain clear fire breaks and minimise fuel loads around perimeter.
- Maintain the understanding that quarry operations should not adversely affect the integrity of the Habitat Corridor.

**Area B Habitat Corridor:**

- Continued bio security controls to minimise the threat of Myrtle Rust (*Uredo rangelii*) as well as infestations of other non-native flora.
- Continued suppression of non-native floras within area B see identified weed list (Appendix 01).
- Maintain external fences.
- Removal of flora compromising the integrity of external fence.
- Remove remaining segments of internal fences.
- Maintain fire breaks and minimise fuel loads around perimeter.
- Maintain the understanding that quarry operations should not adversely affect the integrity of the Habitat Corridor.

**Buffer Zone Area1 West Boundary:**

- Maintain the understanding with neighbours that there operations could and should not adversely affect the integrity of the Habitat Corridors.
- Maintain external fences.
- Maintain fire breaks and minimise fuel loads along perimeter.



**Plate 2:** Completed fence line trees removed/fire break

**Buffer Zone Areas 2 North Boundary, 3 East Boundary:**

- Farming with best practices maintained as not to adversely affect the integrity of the Habitat corridors.
- Maintain external fences.
- Maintain fire breaks and minimise fuel loads along perimeter.





**Plate 3&4:** Buffer areas 2 & 3 mulched back for pasture use

**Buffer Zone Area 4 South Boundary:**

- Continual suppression of non-native floras see identified weed list (Appendix 01).
- Maintain the understanding that operations in this area should not adversely affect the integrity of the Habitat Corridor.
- Maintain external fences.
- Minimise fuel loads along perimeter.
- Continued bio security controls to minimise the threat of Myrtle Rust (*Uredo rangelii*) as well as infestations of other non-native flora.

**Buffer Zone Area 5 Quarry North Face Boundary:**

- Continual suppression of non-native floras see identified weed list (Appendix 01).
- Maintain external fences.
- Maintain fire breaks and minimise fuel loads around perimeter.
- Maintain the understanding that quarry operations should not adversely affect the integrity of the Buffer Zone.
- Continued bio security controls to minimise the threat of Myrtle Rust (*Uredo rangelii*) as well as infestations of other non-native flora.





**Plate 5:** Looking across mulched area towards quarry buffer area 5

**Comments: Attachment (01)**

**Area A**

- There has been a Bush Regeneration contractor on site in area a controlling non-native flora. From onsite inspections the non-native flora populations have been dramatically decreased to the point that no large seed producing non-native targeted flora was located. The seasonal visits by the Bush Regeneration Contractor has been highly effective.
- Natural succession of native flora species is evident with a great population of seedlings and maturing seedlings flourishing since non-native flora populations have been controlled and the last report was documented.

**Area B**

- There has been a Bush Regeneration contractor on site in area B controlling non-native floras. . From onsite inspections the non-native flora populations have been dramatically decreased to the point that no large seed producing non-native targeted flora was

located. The seasonal visits by the Bush Regeneration Contractor has been highly effective (No lantana thickets found).

- Natural succession of native flora species is evident with a considerable population of seedlings flourishing since non-native flora populations have been controlled.
- NOTE: Before site B was fenced to join the existing Habitat Corridor a track was put in place by way of an excavator utilising a mulch head to gain reasonable access for Bush Regeneration activities, this area has shown a massive resurgence of native flora both pioneer species and other forms. The area mulched was predominantly scattered wattle with a heavy lantana infestation.



**Plate 6:** Mulched area resurgence of native Brush Kurrajong Report 1, 2015



**Plate 7:** Brush Kurrajong comparison picture 2016

### **Fences**

- The majority of external fences are new and existing fences are in good order (all trees have been removed from fence lines).
- During site inspection it was noted that segmented parts of an internal fence in area B still remain these should be removed also to allow native fauna to travers site freely. It has been stated these sections will be removed as time permits, Pers com: Mr C Kennett.

### **Fuel Loads**

- Weed control has created minimal fuel load and should compost at a reasonable rate.  
(On inspection the weeds controlled have composted nicely).

- It is clear that the forest structure within the corridor is of rainforest origin and will not cope with a major fire event, therefore minimal fuel loads are advised to be maintained around and within the habitat corridor as well as clear fire breaks this has been achieved where warranted and maintained.

#### **Buffer Zone Area 1**

- This area is somewhat out of the control of PBM as it is private property owned by other individuals. Noted there has been recent aerial weed control on some of the adjacent land to the west. (Sighted aerial spraying whilst gathering data).
- External fencing and firebreaks in place (Note there are some wind rows of hard wood logs along western fence line that could be recovered by the neighbour to minimise fuel loads in this zone).

#### **Buffer Zone Areas 2 North Boundary, 3 East Boundary:**

- It is evident these areas have been reinstated. These areas will be maintained as pasture. Pers com: Mr C Kennett.
- With best practices maintained as not to adversely affect the integrity of the Habitat corridors.
- External fencing and firebreaks in place.

#### **Buffer Zone Area 4 South Boundary:**

- This area has been added to the buffer zone of Quarry as to mitigate the vectoring of non-native flora species into habitat corridor.
- Evident weed control has taken place.
- External fence in place.
- This area should be monitored for excessive fuel loads as it directly links the habitat corridor to a large ridge line that is predominantly large Eucalyptus species and is the only area with no firebreak in place. (Minimal fuel loads sighted).
- Ecological burning may be an option in this area outside the habitat corridor and buffer zone at opportunistic times to reduce fuel loads/fire hazards and encroaching lantana down ridge lines.

#### **Buffer Zone Area 5 Quarry North Face Boundary:**

- New external fencing and firebreaks are in place.
- Evident weed control has taken place.



**Bio-Controls:**

- Perusing on ground reports and risk assessments supplied by current contractor shows bio-controls are in place and being adhered to. This will minimise the risks of contamination in and off site of Myrtle Rust, (*uredo rangellii* ) and non-native flora seeds.



**Plate 8:** Contractor washing vehicle and clothing change

**Attachment: (02)**

**ACTIVITY TABLE: 01**

Activity May 2015/June 2016	Status
Secondary weed control all sites	Complete
Ongoing Weed control all sites	In progress 120 hrs. quarterly seasonal maintenance
External fences/Firebreaks	Complete
Removal of internal fencing	Incomplete/Majority removed completion to be achieved as time allows
Implementation of Bio-Security	Active in accordance with NSW DPI
Pasture reinstatement Buffer Zones 3 and 4	Complete

**WEED CONTROL MANAGEMENT PLAN TIME TABLE 2015/2016/2017**

AUG 2015	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total. <b>Completed</b>
NOV 2015	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total. <b>Completed</b>
FEB 2016	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total. <b>Completed</b>
MAY 2016	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total. <b>Completed</b>
AUG 2016	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total. <b>Completed</b>
NOV 2016	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total.
FEB 2017	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total.
MAY 2017	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total.
AUG 2017	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total.
NOV2017	One week weed control, 5 x 8hr days x 3 bush regenerators = 120 hrs total.

**To continue:**

Mapping: Attachment (03)



Weed control areas (Area a, Area b, Buffer 4, Buffer 5)

Buffer 1: Neighbouring farm land

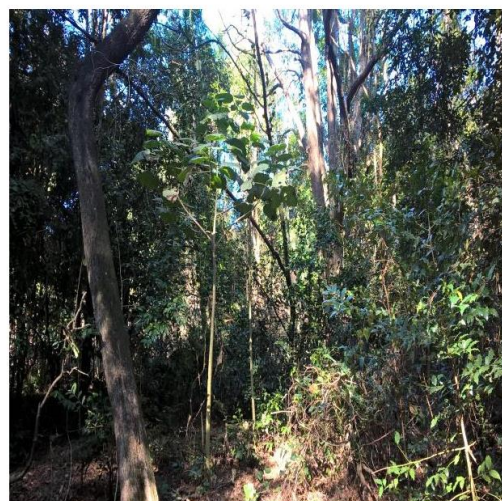
Buffer 2, 3: Mulched and transformed to pasture complete



**Attachment: (04)**

**Final Comments:**

- PBM Quarry has used considerable resources on the current action plan.
- The overall weed control done has the habitat corridor looking impressive the native flora reestablishment is remarkable and native fauna resurgence is more evident than last documented.
- The current regeneration plan in place is progressing towards the goal of a closed forest canopy that will minimise non-native flora resurgence which is evident whilst traversing the site.
- Giant Stinging Trees have been vectored into corridor and have grown significantly since last documented.



**Plate 9 & 10:** Giant Stinging Trees x 3 under controlled camphor laurels, undetermined vector

Plate 9 report 1 2015, Plate 10 comparison picture 2016





**Plate 11:** Native Hibiscus colonising in area A where lantana thicket was removed



**Plate 12:** Red cedar seedlings flourishing in areas A and B





**Plate 13:** Contractor working on a lantana thicket 2014/2015



**Plate 14:** Comparison picture of the same area with native flora flourishing      Pictures by T.Wray



## Appendix 01

### SITE WEED LIST

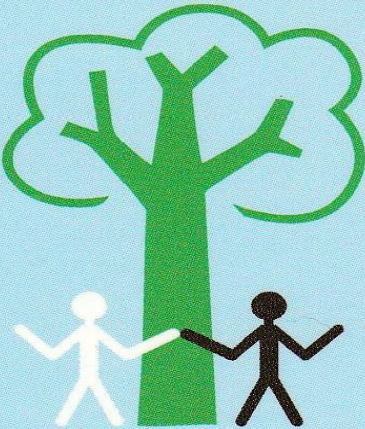
#### COMMON NAMES

Pink Lantana	
Camphor Laurel	
Moth Vine	
Wild Tobacco	
Black Berry	
White Passion Flower	
Broad Leafed Paspalum	
Winter Senna	
Crofton Weed	
Mist Flower	
Green Cestrum	
Brazilian Night Shade	
Fire Weed	
Bush Lemon	
Stinging Nettle	
Purple Top	
Noogoora Burr	
Cassia	
Rhodes Grass	
Narrow Leaf Cotton	
Whisky Grass	
Kikuyu Grass	

\* There are possibly other weeds occurring on site.

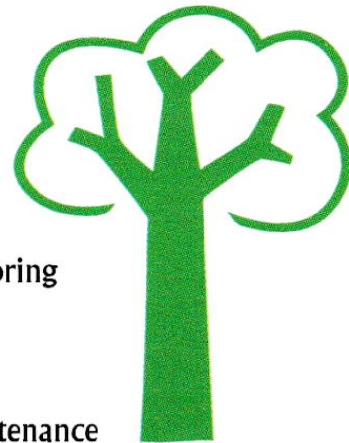
Report prepared by Irreplaceable Bush Regeneration Indigenous Services  
(IBIS) on the 21/08/2016.

# Irreplaceable Bush Regeneration Indigenous Services



Endorsed by respected Elders of the Biripi Nation – Closing the Gap

1. Bush Regeneration / Healthcare
2. Flora establishment / maintenance
3. Weed control / maintenance
4. Riparian works / maintenance
5. Erosion control / maintenance
6. Fauna studies / Trapping
7. Environmental vermin control / monitoring
8. Ecological Analysis / Reports
9. Indigenous site Analysis / monitoring
10. Ecological burning / controls / reports
11. Bush walking trail establishment / maintenance



**P** 0437 409 373 | **E** ibis7875@hotmail.com | **ABN** 79469650703

## Appendix 02

### References :

On site contractor work reports

Google Earth Imagery 2015

Google Search Engine

[www.dpi.nsw.gov.au/biosecurity/plant/myrtle-rust](http://www.dpi.nsw.gov.au/biosecurity/plant/myrtle-rust)

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