



Newman Quarrying
Slys Quarry, Tullymorgan-Jackybulbin Road, Mororo
Annual Review

December 2018

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Abbreviations

Abbreviations	Terms
AQMP	Air Quality Management Plan
BMP	Blast Management Plan
BRMP	Biodiversity and Rehabilitation Management Plan
CoA	Conditions of Approval
CVC	Clarence Valley Council
EIS	Environmental Impact Statement
EMS	Environmental Management Strategy
EPL	Environmental Protection Licence
HMP	Heritage Management Plan
LGA	Local Government Area
Newman Quarrying	Newman Quarrying Pty Ltd
NMP	Noise Management Plan
SEPP	State Environmental Planning Policy
SWMP	Soil and Water Management Plan
TMP	Traffic Management Plan
TSS	Total suspended solids
WMP	Waste Management Plan

1. Introduction

Newman Quarrying Pty Ltd (Newman Quarrying) operate a sandstone quarry known as Sly's Quarry at Tullymorgan-Jackybulbin Road, Mororo, NSW. Sly's Quarry is located at Lot 2 DP 1055044, approximately 2.6 km west of the Pacific Highway, in the Clarence Valley Local Government Area (LGA). The location of the site is presented in Figure 1-1. The primary purpose of the quarry is to supply quarry materials required for current and proposed Pacific Highway works, and for supply to local councils and contractors.

Newman Quarrying have been operating since the early 1990's, however the site has reportedly been used as a quarry since the 1950's. On 5 May 2016, development consent and Conditions of Approval (CoA) (SSD 6624) were granted for the expansion of the quarry, with details as follows:

- Expand main quarry pit (Site A) by 11.1 hectares to 18 hectares
- Close and rehabilitate other quarry pits (Sites B and C)
- Extraction depth 44 m AHD
- Increase the extraction rate up to 500,000 tonnes per annum
- Estimated resource 7,000,000 tonnes
- Estimated operating period 15-40 years with approval to 31 May 2041

1.1 Approvals and licences

Table 1-1 summarises the key approvals currently held by Newman Quarrying which are relevant to the operations at Sly's Quarry.

Table 1-1 Key approvals, consents and licences

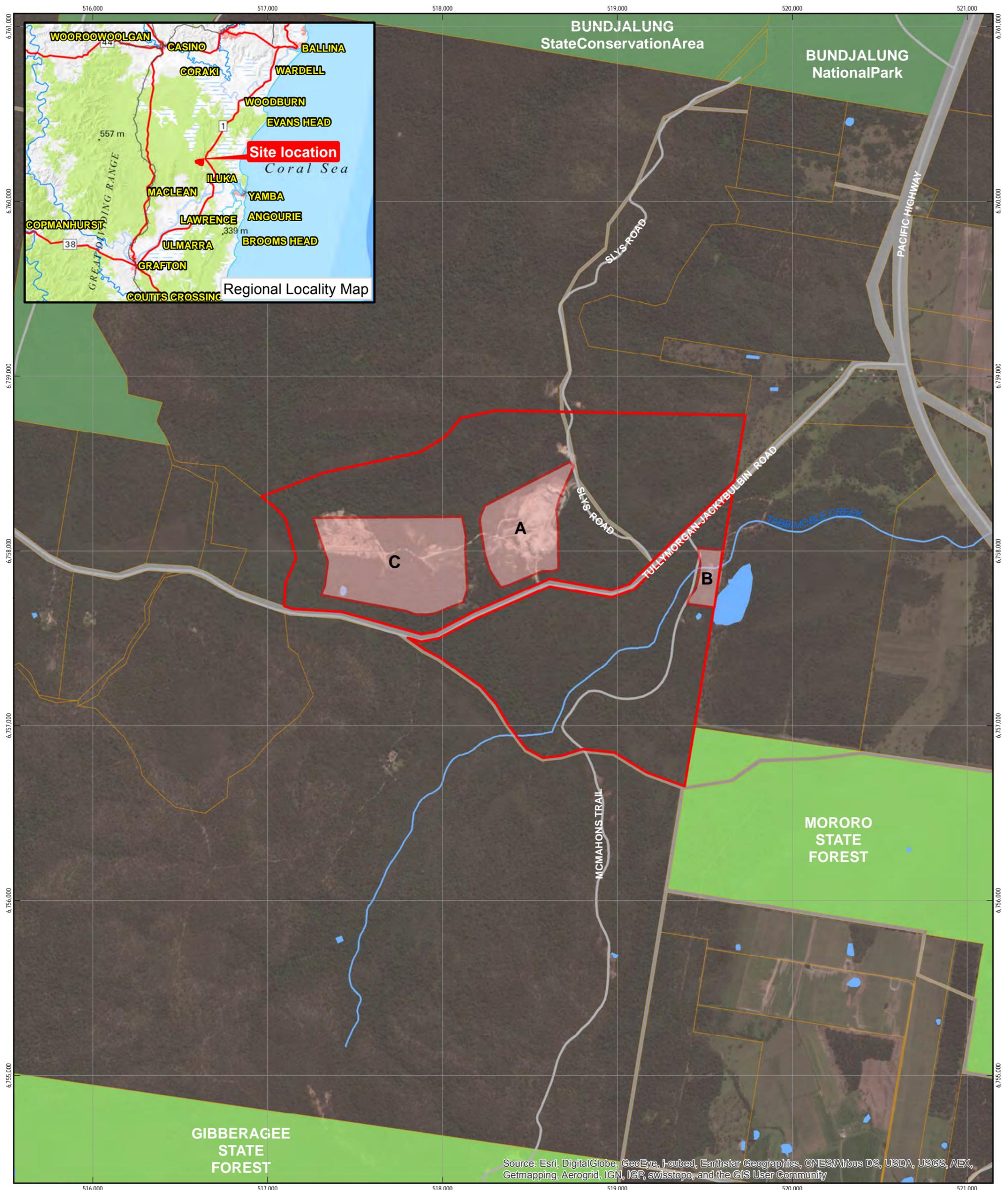
Description	Date granted/ commencement date	Expiry/duration
Project Approvals		
Development Consent (SSD 6624)	5 May 2016. Modified 19 October 2017	31 May 2041
Environmental Protection Licences		
EPL 11649	12 June 2002. Licence varied 10 October 2017	In perpetuity (Anniversary 1 January) until surrendered

1.2 Quarry contacts

Table 1-2 provides contact details for key personnel who are responsible for the environmental management of Sly's Quarry.

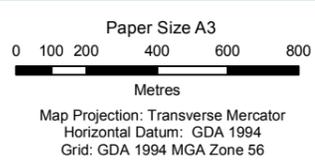
Table 1-2 Sly's Quarry Contacts

Quarry Owner/Manager:	Mark Newman
Company:	Newman Quarrying Pty Ltd
Address:	Tullymorgan-Jackybulbin Road, Mororo
Phone:	0427 822 667
Email:	newmanquarrying@gmail.com



LEGEND

	Current Quarry Areas		Road		Waterbody
	Lot 2 DP 1055044		Lot		Natural Parks
			Waterways		State Forest



Newman Quarrying
Sly's Quarry Environmental Impact Statement

Job Number | 22-17528
Revision | A
Date | 11 Dec 2014

Site location

Figure 1-1

1.3 Purpose and scope of this report

This Annual Review has been prepared to satisfy the Conditions of Development Consent (SSD 6624), in particular Condition 10 of Schedule 5. The requirements of the Development Consent, relevant to the Annual Review, are shown in Table 1-3. The Annual Review covers the period from the 1 July 2017 until 30 June 2018 (herein referred to as the reporting period).

This Annual Review provides a summary of actual operational and environmental management activities undertaken at Sly's Quarry during the reporting period. The Annual Review also addresses any complaints made during the reporting period.

The Annual Review has been prepared generally in accordance with the *Annual Review Guideline* (2015) where practicable.

Table 1-3 Annual Review Requirements

Licence, Approval or Guideline	Section Reference	Requirement	Reference in this report										
Development consent and CoA SSD 6624	Schedule 2, Condition 16	The Applicant must: (a) provide annual quarry production data to DRG 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).	Appendix A										
	Schedule 2, Condition 19	The Applicant must pay to Council an annual financial contribution toward the maintenance of Tullymorgan-Jackybulbin Road. The contribution must be determined in accordance with the Maclean Shire Council S.94 Contribution Plan for Maintenance of Quarry Roads, November 1994, or any subsequent relevant contributions plan adopted by Council. The annual contribution must be paid to Council prior to 31 July each year and reported in the Annual Review required in condition 9 of Schedule 5.	Appendix B										
	Schedule 3, Condition 1	The Applicant must comply with the operating hours set out in Table 1. <i>Table 1: Operating Hours</i> <table border="1" data-bbox="657 1317 1342 1563"> <thead> <tr> <th>Activity</th> <th>Permissible Hours</th> </tr> </thead> <tbody> <tr> <td>Employee arrival</td> <td> <ul style="list-style-type: none"> From 6:30 am Monday to Saturday inclusive From 7:30 am Sundays or public holidays if engaged in maintenance, site security or other similar activities </td> </tr> <tr> <td>Quarrying operations including loading and dispatch of laden trucks</td> <td> <ul style="list-style-type: none"> 7 am to 6 pm Monday to Friday 7 am to 1 pm Saturday 7 am to 4 pm Saturday if fulfilling a contract for the supply of quarry products to the Pacific Highway update project (SSD 4963)* At no time on Sundays or public holidays </td> </tr> <tr> <td>Blasting</td> <td> <ul style="list-style-type: none"> 9 am to 3 pm Monday to Friday (except public holidays) </td> </tr> <tr> <td>Maintenance</td> <td> <ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence </td> </tr> </tbody> </table> <p>*Note: Evidence of contracts that cover those periods during which extended Saturday afternoon operating hours are undertaken must be reported in the Annual Review required by condition 9 of Schedule 5.</p>	Activity	Permissible Hours	Employee arrival	<ul style="list-style-type: none"> From 6:30 am Monday to Saturday inclusive From 7:30 am Sundays or public holidays if engaged in maintenance, site security or other similar activities 	Quarrying operations including loading and dispatch of laden trucks	<ul style="list-style-type: none"> 7 am to 6 pm Monday to Friday 7 am to 1 pm Saturday 7 am to 4 pm Saturday if fulfilling a contract for the supply of quarry products to the Pacific Highway update project (SSD 4963)* At no time on Sundays or public holidays 	Blasting	<ul style="list-style-type: none"> 9 am to 3 pm Monday to Friday (except public holidays) 	Maintenance	<ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence 	Not applicable – the quarry has not operated on Saturday afternoons during the reporting period
	Activity	Permissible Hours											
	Employee arrival	<ul style="list-style-type: none"> From 6:30 am Monday to Saturday inclusive From 7:30 am Sundays or public holidays if engaged in maintenance, site security or other similar activities 											
Quarrying operations including loading and dispatch of laden trucks	<ul style="list-style-type: none"> 7 am to 6 pm Monday to Friday 7 am to 1 pm Saturday 7 am to 4 pm Saturday if fulfilling a contract for the supply of quarry products to the Pacific Highway update project (SSD 4963)* At no time on Sundays or public holidays 												
Blasting	<ul style="list-style-type: none"> 9 am to 3 pm Monday to Friday (except public holidays) 												
Maintenance	<ul style="list-style-type: none"> May be conducted at any time, provided that these activities are not audible at any privately-owned residence 												
Schedule 3, Condition 36	The Applicant must: a) manage on-site sewage treatment and disposal in accordance with the requirements of its EPL, and to the satisfaction of the EPA and Council; b) minimise the waste generated by the development; c) ensure that the waste generated by the development is appropriately stored, handled, and disposed of; and d) report on waste management and minimisation in the Annual Review, to the satisfaction of the Secretary.	Section 6.7											
Schedule 5,	Annual Review	Entire Report											

Licence, Approval or Guideline	Section Reference	Requirement	Reference in this report
	Condition 10	By the end of September each year, or other timing as may be agreed by the Secretary, the Applicant must review the environmental performance of the development to the satisfaction of the Secretary. This review must:	
		a) describe the development (including any rehabilitation) that was carried out in the previous financial year, and the development that is proposed to be carried out over the current financial year;	Section 4
		b) include a comprehensive review of the monitoring results and complaints records of the development over the previous financial year, which includes a comparison of these results against the: <ul style="list-style-type: none"> • relevant statutory requirements, limits or performance measures / criteria; • requirements of any plan or program required under this consent; • monitoring results of previous years; and • relevant predictions in the Environmental Impact Statement (EIS); 	Section 5 and 7
		c) identify any non-compliance over the past financial year, and describe what actions were (or are being) taken to ensure compliance;	Section 8
		d) identify any trends in the monitoring data over the life of the development;	Section 5
		e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	Section 8
		f) describe what measures will be implemented over the current financial year to improve the environmental performance of the development.	Section 5

1.4 Limitations

This report has been prepared by GHD for Newman Quarrying Pty Ltd and may only be used and relied on by Newman Quarrying Pty Ltd for the purpose agreed between GHD and the Newman Quarrying Pty Ltd.

GHD otherwise disclaims responsibility to any person other than Newman Quarrying Pty Ltd arising in connection with this report. GHD also excludes implied warranties and conditions, to the extent legally permissible.

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

The opinions, conclusions and any recommendations in this report are based on conditions encountered and information reviewed at the date of preparation of the report. GHD has no responsibility or obligation to update this report to account for events or changes occurring subsequent to the date that the report was prepared.

The opinions, conclusions and any recommendations in this report are based on assumptions made by GHD described in this report. GHD disclaims liability arising from any of the assumptions being incorrect.

GHD has prepared this report on the basis of information provided by Newman Quarrying Pty Ltd and others who provided information to GHD (including Government authorities)], which GHD has not independently verified or checked beyond the agreed scope of work. GHD does not accept liability in connection with such unverified information, including errors and omissions in the report which were caused by errors or omissions in that information.

The opinions, conclusions and any recommendations in this report are based on information obtained from, and testing undertaken at or in connection with, specific sample points. Site conditions at other parts of the site may be different from the site conditions found at the specific sample points.

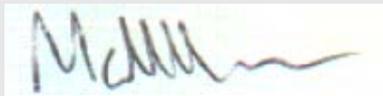
Investigations undertaken in respect of this report are constrained by the particular site conditions, such as the location of buildings, services and vegetation. As a result, not all relevant site features and conditions may have been identified in this report.

Site conditions (including the presence of hazardous substances and/or site contamination) may change after the date of this Report. GHD does not accept responsibility arising from, or in connection with, any change to the site conditions. GHD is also not responsible for updating this report if the site conditions change.

2. Certification

Certification of this Annual Review is provided in Table 2-1.

Table 2-1 Annual Review certification

Feature	Details
Name of operation	Slys Quarry
Name of operator	Newman Quarrying Pty Ltd
Development consent/project approval #	SSD 6624
Name of holder of development consent/project approval	Newman Quarrying Pty Ltd
Mining lease #	NA
Name of holder of mining lease	NA
Water licence #	NA
Name of holder of water licence	NA
MOP/RMP start date	NA
MOP/RMP end date	NA
Annual Review start date	01 July 2017
Annual Review end date	30 June 2018
<p>I, Mark Newman, certify that this annual review is a true and accurate record of the compliance status of Slys Quarry for the period 01 July 2017 to 30 June 2018 and that I am authorised to make this statement on behalf of Newman Quarrying Pty Ltd.</p> <p><i>Note.</i></p> <p>a) The Annual Review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, \$1 million and for an individual, \$250,000.</p> <p>b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or \$22,000, or both).</p>	
Name of authorised reporting officer	Mark Newman
Title of authorised reporting officer	Director
Signature of authorised reporting officer	
Date	07/12/2018

3. Statement of compliance

The statement of compliance as at the end of the reporting period is provided in Table 3-1. Table 3-2 provides more detail in regards to the non-compliances, including the compliance status, in accordance with Table 3-3.

Table 3-1 Statement of compliance

Were all conditions of the relevant approvals complied with	
SSD 6624	No
EPL 11649	Yes

Table 3-2 Non-compliances

Relevant approval	Condition	Condition description	Compliance status	Comment	Where addressed in Annual Review
SSD 6624,	Schedule 3, Condition 15	Implementing Air Quality Management Plan	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 3, Condition 21	Implementing Soil and Water Management Plan	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 3, Condition 25	Implementing Traffic Management Plan	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 5, Condition 1	Environmental Management Strategy	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 3, Condition 11	Implementing the Blast Management Plan	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 3, Condition 41	Implementing the Bushfire Management Plan	Non-compliant	Raised in the IEA	Table 8-1
	Schedule 2, Condition 19	Payment of contribution fees	Non-compliant	Section 9	Section 9

	Schedule 5, Condition 13	Information to be provided on the website	Non-compliant	Section 9	Section 9
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Table 3-3 Compliance status

Risk level	Colour code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: <ul style="list-style-type: none"> • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

4. Quarry operations

4.1 Past 12 months

During the reporting period, the quarry has continued to extract material from the north of Stage 1, which has included clearing of approximately 1 hectare of vegetation. Extraction has involved a process of blasting, crushing, screening and stockpiling as described in the *Environmental Impact Statement* (GHD, 2015) submitted with the development application.

In the reporting period, there have been 13 blasts, as shown in Table 4-1. Table 4-1 also shows the volume and tonnes extracted from the quarry during each blast. This shows the material extracted during the reporting period was within the approved limit of 500,000 tonnes.

Table 4-1 Blast and production summary

Date	Time	Volume (m ³)	Tonnes
4/07/2017	11 am	6,239.22	15,598.05
31/07/2017	2 pm	21,250.60	53,126.5
23/08/2017	2.53 pm	22,143.68	55,359.2
27/10/2017	2.30 pm	11,163.52	27,908.8
9/11/2017	1.55 pm	17,133.95	42,834.875
7/12/2017	1.56 pm	10,423.68	26,059.2
16/01/2018	1.09 pm	8,672.50	21,681.25
8/02/2018	10.19 am	11,818.97	29,547.425
2/03/2018	2.03 pm	12,479.67	31,199.175
22/03/2018	2.18 pm	13,164.06	32,910.15
12/04/2018	1.21 pm	12,822.36	32,055.9
14/05/2018	12.35 pm	12,217.14	30,542.85
20/06/2018	12.55 pm	10,100.00	25,250
Total		169,629.35	424,073.38

Other activities during the reporting period include:

- Installed nest boxes.
- Environmental monitoring.
- Increased basin size.
- Rehabilitation of Area C, as per the approved Rehabilitation Plan.
- Completed upgrade of quarry intersection.
- Paid Council contributions.
- Submitted BioBanking Agreement to OEHL for assessment.

4.2 Next 12 months

In the next 12 months, activities at the quarry are anticipated to include:

- Finish extraction from Stage 1.
- Start extraction from Stage 2 (south).
- Total expected extraction of 480,000 tonnes.
- Finalise BioBanking Agreement and establish BioBank site.
- Monitoring rehabilitation of Area C.
- Ongoing environmental monitoring.

5. Actions from previous Annual Review

The actions identified during the previous Annual Review for implementation during the current Annual Review reporting period are presented in Table 5-1, along with the current status.

Table 5-1 Status of actions from previous Annual Review

Action required from previous Annual Review	Requested by	Action taken by the Operator	Reference
All air quality monitoring will be undertaken in accordance with the AQMP	Operator	All air quality monitoring has been undertaken in accordance with the AQMP	Section 6.3
All monitoring will be undertaken in accordance with the SWMP	Operator	All monitoring has been undertaken in accordance with the SWMP	Section 6.4
Newman Quarrying will follow the BRMP and implement the appropriate mitigation measures to minimise impacts of clearing to flora and fauna at the site	Operator	All requirements of the BRMP were implemented during the clearing	Section 6.5
Newman Quarrying will maintain a table to record the volumes of waste being disposed at landfill and recycled	Operator	Newman Quarrying recorded waste information	Section 6.7
A table identifying actions as an outcome of previous reviews	DPE	This table lists the actions from previous reviews and their current status	Table 5-1
Provide detailed monitoring trends	DPE	Monitoring trends are summarised below	Section 0
Provide analysis between predicted and action impacts in the results	DPE	A comment comparing predicted to actual impacts is provided below	Section 0

6. Environmental monitoring

6.1 Noise

6.1.1 Environmental management

Operational noise is managed by Newman Quarrying in accordance with the approved Noise Management Plan (NMP). The NMP covers all operational activities with the potential to generate noise at Sly's Quarry. It details specific noise management and mitigation measures, outlines monitoring and reporting requirements and provides clear definition of the roles and responsibilities for noise management. The objectives of the NMP are:

- Ensure full compliance with the relevant legislative requirements and CoA.
- No exceedance of the operational noise limits.
- No justified complaints from adjacent residents in relation to noise generation.
- No out of hours work.

Newman Quarrying proactively implements a range of noise mitigation measures for operational activities at Sly's Quarry. During the reporting period these included, but were not limited to the following:

- Ensuring machines were operated at low speed and were switched off when not being used.
- Progressive replacement of components of the existing fleet found to be generating excessive noise.
- Maintaining plant and equipment to manufacturer's standards.
- Scheduling noisy activities between 7 am and 6 pm where possible.
- Closing all engine covers while equipment is operating.
- Avoiding dropping materials from height and avoiding metal to metal contact on material.

Newman Quarrying engaged acoustic specialists to undertake attended noise monitoring quarterly, in accordance with the NMP.

6.1.2 Environmental performance

Quarterly attended noise monitoring surveys were carried out by GHD in August 2017, February 2018 and May 2018. The noise monitoring locations are R3 and Roadside shown in Table 6-1. The Roadside location is to assess the road traffic noise.

Table 6-1 Noise monitoring locations

Receiver ID	Approximate distance and direction from quarry	Elevation above sea level ¹	Reason for selecting location
R3	1.4 km SW	40 m	EPL requirement
Roadside	1.6 km E	25 m	CoA road traffic noise requirement

Note: ¹ The quarry site is approximately 40 metres above sea level

Project specific noise criteria are outlined in EPL 11649 and CoA SSD 6624. The operational noise limits of Sly's Quarry are 35 dB(A) L_{eq} (15 minutes) for day, evening and night. The adopted Road Noise Policy (RNP) criteria in the NMP is 55 dB(A).

The results of the monitoring are reported in individual *Compliance Noise Monitoring* reports, prepared by GHD. A summary of the attended noise monitoring results are provided in Table 6-2. The road traffic noise monitoring results are presented in Table 6-3.

Table 6-2 Summary of attended noise monitoring results at R3

Monitoring date	Sly's Quarry LAeq(period) dB(A)	Complies?
Noise criteria dB(A)	35	
August 2017	27	Yes
November 2017	25	Yes
February 2018	Inaudible	Yes
May 2018	34	Yes

In previous years, the noise monitoring results at R3 have been less than 35dB(A), so the monitoring results during this reporting period are consistent. The predicted noise levels from the quarry at R3 were between 32 to 35 dB(A), so the average actual results are less than the predicted.

Table 6-3 Calculated 1 hour road traffic noise, dB(A)

Monitoring date	Measured LAeq, 1 hour (roadside), dB(A)	Predicted LAeq, 1 hour at R2 facade, dB(A)	Complies?
RNP LAeq, 1 hour criteria		55	
August 2017	60	58	No
November 2017	61	55	Yes
February 2018	58	52	Yes
May 2018	60	51	Yes

An exceedance of the road noise criteria was experienced in August 2017. Since this monitoring event, CadnaA noise modelling software has been used to predict noise levels which is more accurate as it takes into account terrain effects, atmospheric absorption and ground absorption. Based on the measured result in November 2017, the August 2017 monitoring result would have complied if CadnaA was used to predict the noise levels.

The predicted road traffic noise was between 49 and 52 dB(A) and previous years results were between 51dB(A) and 54dB(A), so the average actual results are similar to the predicted and previous years results.

6.1.3 Improvements and initiatives

Due to the road noise levels being close to the criteria, the Compliance Noise Monitoring reports have recommended:

- Trucks slow down when driving past residential receivers.
- Survey of trucks to determine which trucks should be prioritised for maintenance or silencing.

The NMP and CoA will continue to be implemented at Sly's Quarry over the next reporting period.

6.2 Blasting

6.2.1 Environmental management

Blast operations at Sly's Quarry are managed in accordance with the Blast Management Plan (BMP), which covers blasting activities associated with the quarry and appropriate mitigation measures. The objectives of blast management at Sly's Quarry are:

- Ensure full compliance with the relevant legislative requirements and CoA.
- No exceedance of the blasting criteria.
- No justified complaints from adjacent residents in relation to blasting and vibrations.

In order to meet these objectives Newman Quarrying proactively implements a range of mitigation measures for blasting activities at Sly's Quarry. During the reporting period these included:

- Only undertaking blasting operations between 09:00 and 15:00 Monday to Friday.
- Providing all sensitive receivers at least 24 hours notice when blasting operations were undertaken.

Newman Quarrying completed blast monitoring in accordance with the CoA and BMP.

6.2.2 Environmental performance

Blast monitoring was undertaken for all blasts at Sly's Quarry during the reporting period. Monitoring was undertaken from Receiver 3, as outlined in the EPL. Receiver 3 is located approximately 1.5 km south of the quarry boundary.

Project specific blast criteria are outlined in EPL 11649 and CoA SSD 6624. A summary of the blast criteria is provided in Table 6-4.

Table 6-4 Sly's Quarry blast criteria

Receiver	Airblast overpressure (dB(Lin 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

A total of 13 blasts were undertaken during the reporting period and none registered during the monitoring. A summary of the blast monitoring is provided in Table 6-5.

Table 6-5 Summary of blast monitoring

Date	Time	Vibration (mm/s)	Pressure (dBL)	Complies
Blast criteria		5	115	
Trigger value		0.4	106	
4/07/2017	11.00 am	Not triggered	Not triggered	Yes
31/07/2017	2.00 pm	Not triggered	Not triggered	Yes
23/08/2017	2.53 pm	Not triggered	Not triggered	Yes
27/10/2017	2.30 pm	Not triggered	Not triggered	Yes
9/11/2017	1.55 pm	Not triggered	Not triggered	Yes
7/12/2017	1.56 pm	Not triggered	Not triggered	Yes
16/01/2018	1.09 pm	Not triggered	Not triggered	Yes
8/02/2018	10.19 am	Not triggered	Not triggered	Yes

2/03/2018	2.03 pm	Not triggered	Not triggered	Yes
22/03/2018	2.18 pm	Not triggered	Not triggered	Yes
12/04/2018	1.21 pm	Not triggered	Not triggered	Yes
14/05/2018	12.35 pm	Not triggered	Not triggered	Yes
20/06/2018	12.55 pm	Not triggered	Not triggered	Yes

Based on the predicted results in the EIS, presented in Figure 6-1, the actual results are less. This is similar to previous years results when most did not trigger and the others were less than the criteria.

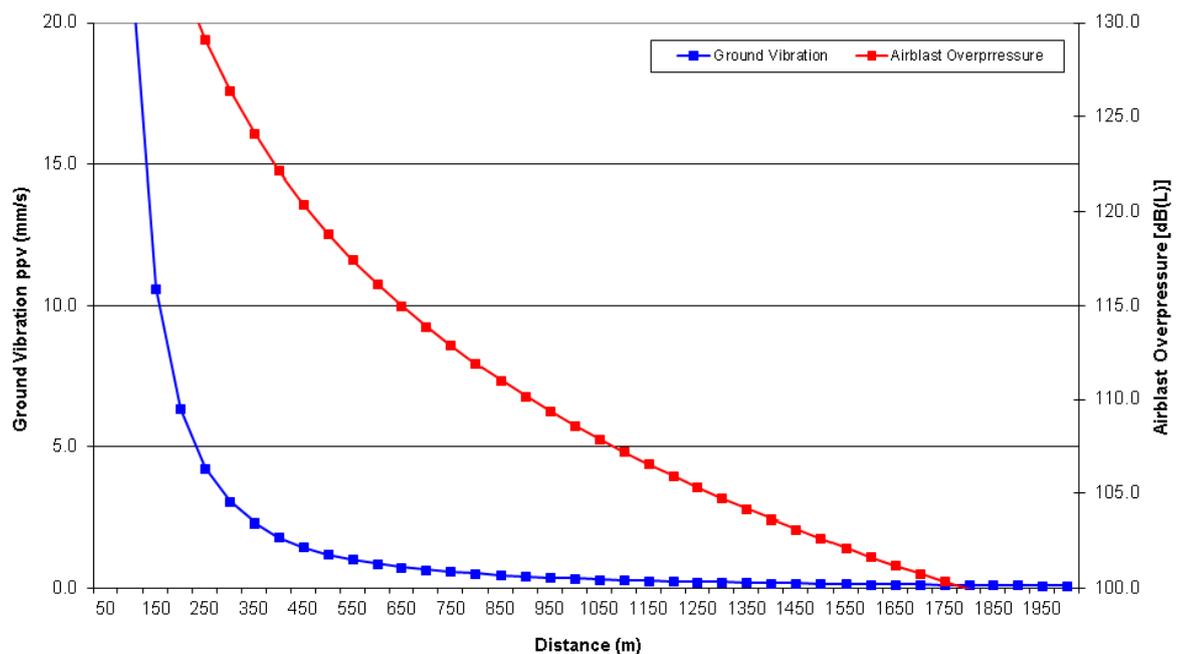


Figure 6-1 EIS estimated ground vibration and airblast overpressure levels from blasting

6.2.3 Improvements and initiatives

Given that no exceedances of the blast criteria were recorded in the reporting period, no improvements are considered necessary. Monitoring and mitigation measures identified in the CoA, EPL and BMP will continue to be implemented.

6.3 Air quality

6.3.1 Environmental management

Air quality at Sly's Quarry is managed in accordance with the Air Quality Management Plan (AQMP), CoA and EPL. The objectives of the AQMP are:

- Minimise and manage potential air quality/dust impacts from the development in accordance with relevant legislative requirements and CoA.
- Control dust and exhaust emissions of plant and equipment from quarrying activities.
- Achieve particulate matter and dust concentrations that meet the approved air quality criteria.
- No visible offsite dust emissions as a result of site operations.
- No justifiable complaints related to air quality attributable to site operation.

6.3.2 Environmental performance

Air quality was monitored during the reporting period in accordance with the AQMP. This involved monitoring PM10, total suspended particulates (TSP) and deposited dust.

The dust monitoring was conducted at two locations as outlined in Table 6-6.

Table 6-6 Monitoring locations

Site	Parameter Measured
DML1	Particulate Matter (PM10)
	Total Suspended Particulate (TSP)
	Dust Deposition (DDG)
DML2	Dust Deposition (DDG)

The results of the PM10 and TSP monitoring are reported in *Dust Impact Assessment (GHD 2018)*, and below is a summary, along with a comparison of actual versus predicted results.

As shown by Figure 6-2 there were a number of PM10 exceedances recorded, however following a detailed analysis of the cause of the PM10 exceedances in the *Dust Impact Assessment (GHD 2018)*, it is not believed any of the exceedances can be attributed to the quarry operation.

It is difficult to compare the predicted PM10 results with actual results because the predicted PM10 concentrations were at the receivers, while the actual monitoring location was located closer to the quarry. The predicted PM10 concentrations at receivers with controls was 1ug/m³ with an adopted background PM10 concentration of 15ug/m³. The actual results are, on average, greater than this but, if the additional distance to the receivers is considered, the actual results are similar to the predicted.

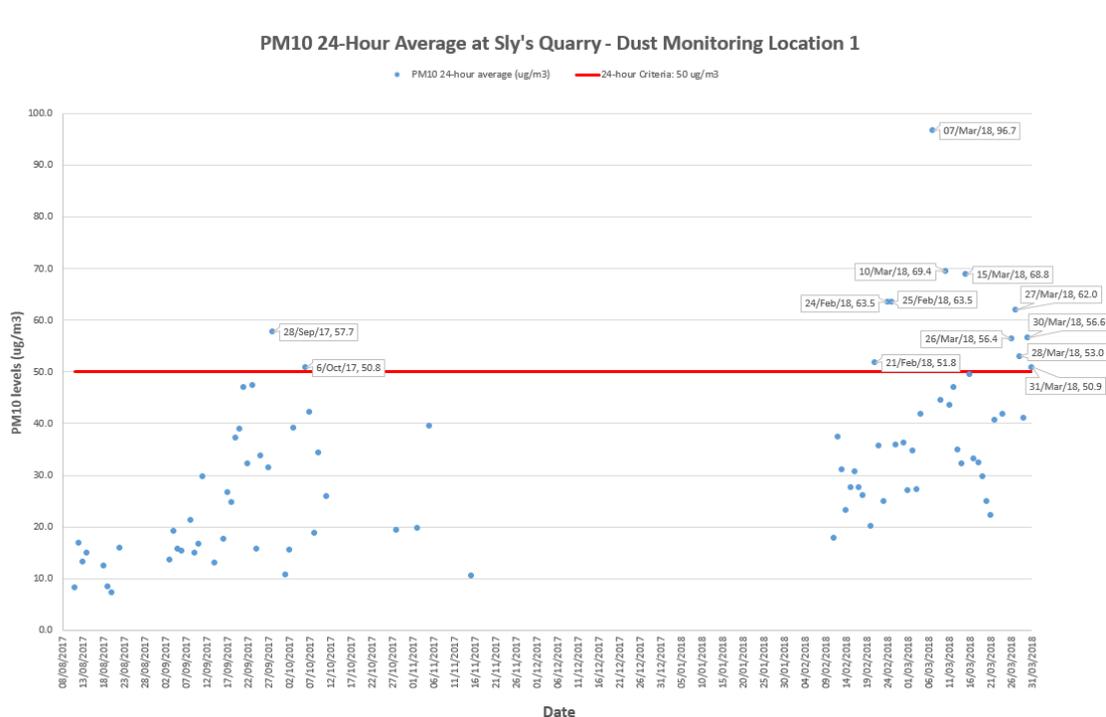


Figure 6-2 PM10 24-Hour Average at Sly's Quarry - Dust Monitoring Location 1

The 24-hour TSP results are shown in Figure 6-3, which shows the 24-hour TSP values all lie below the annual criterion level and as such provide a good indication that the annual criterion is currently being achieved.

Similar to PM10, the actual versus predicted TSP results are difficult to compare due to the different monitoring locations. The predicted TSP concentration was between <1 and 3 with a

assumed background of 30 ug/m3. Based on this the average actual results are a bit higher but when the different monitoring locations are considered, the actual results are similar to the predicted.

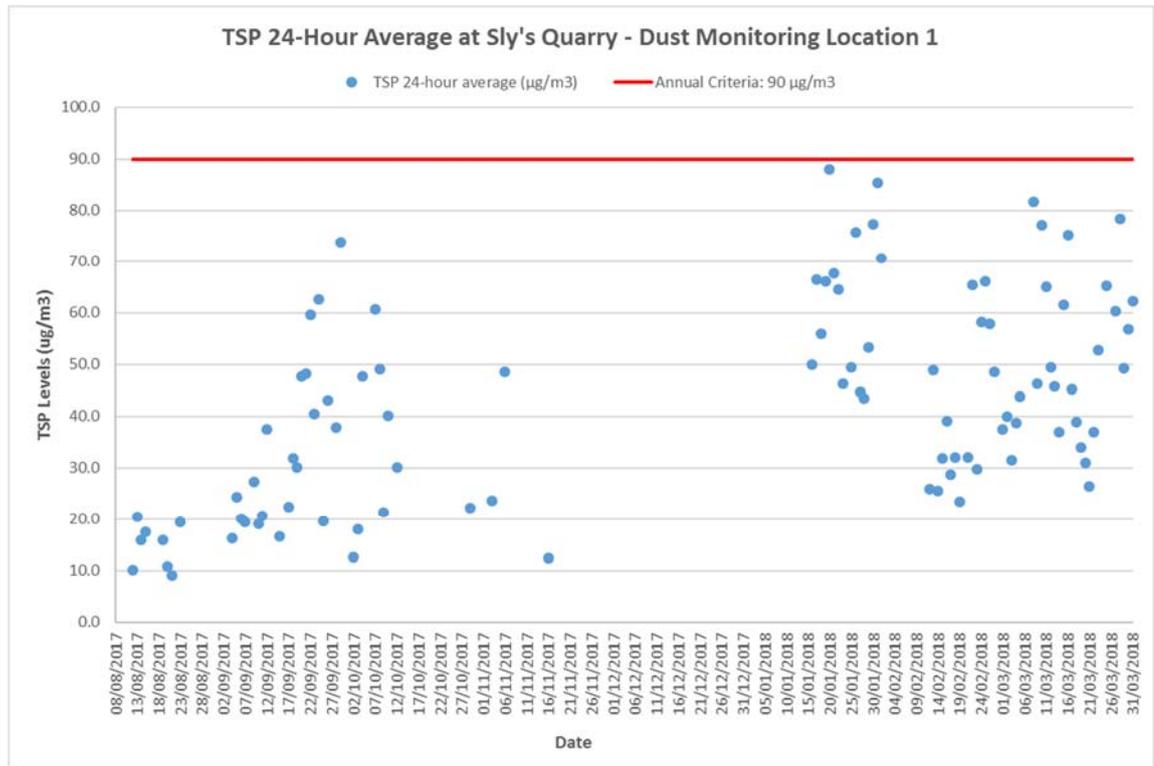


Figure 6-3 TSP 24-Hour Average at Sly's Quarry - Dust Monitoring Location 1

The dust deposition results presented in Table 6-7 shows compliance with the criteria. The predicted dust deposition rates were between 0.01 to 0.02g/m²/month at the sensitive receivers, so the actual results are relatively consistent with the predicted.

Table 6-7 Dust deposition monitoring results

Date	DML1	Complies	DML2	Complies
Criteria	4 g/m ² /month		4 g/m ² /month	
9/8-8/9 17	<0.1	Yes	<0.1	Yes
9/9- 8/10/17	3.9*	Yes	0.3	Yes
9/10-8/11/17	<0.1	Yes	<0.1	Yes
9/11/17 - 8/12/17	0.4	Yes	<0.1	Yes
9/12/17 - 8/1/18	2.6	Yes	2.6	Yes
9/1/18-8/2/18	<0.1	Yes	2.4	Yes
9/2/18-8/3/18	<0.1	Yes	<0.1	Yes
9/3/18-8/4/18	0.9	Yes	0.6	Yes
9/4/18 - 8/5/18	<0.1	Yes	<0.1	Yes
9/5/18 - 8/6/18	<0.1	Yes	<0.1	Yes
9/6/18 - 8/7/18	<0.1	Yes	<0.1	Yes
9/7/18 - 8/8/18	<0.1	Yes	<0.1	Yes

* DML1 bottle had been tampered with, funnel stolen and lots of leaves and rubbish in the bottle

6.3.3 Improvements and initiatives

Monitoring and mitigation measures identified in the CoA, EPL and AQMP will continue to be implemented.

6.4 Soil and water quality

6.4.1 Environmental management

Soil and water quality at Sly's Quarry are managed in accordance with the Soil and Water Management Plan (SWMP), which outlines appropriate mitigation measures for soil, surface water and groundwater management. The objectives of soil and water management at Sly's Quarry are:

- Ensure full compliance with the relevant legislative requirements and CoA.
- Meet EPL water discharge parameters for all planned discharges.
- Ensure training on soil and water management is provided to all relevant personnel through site inductions.

In order to meet these objectives Newman Quarrying implements a range of mitigation measures and monitoring requirements as outlined in the SWMP, which included:

- Daily weather monitoring.
- Daily rainfall monitoring.
- Weekly monitoring of erosion and sediment controls, and following rain.
- Baseline monitoring following rain.
- Basin monitoring when discharging.
- Basin capacity monitoring following rain.
- Spill kit checks monthly and following use.
- Quarterly groundwater monitoring.

Newman Quarrying completed water quality monitoring in accordance with the EPL.

6.4.2 Environmental performance

Basin monitoring

Monitoring was undertaken for total suspended solids (TSS), pH and oil and grease at the outlet of the main basin (MP1) prior to discharging. This location is the EPL monitoring point. The criteria outlined in the SWMP and EPL is presented in Table 6-8.

Table 6-8 Basin monitoring criteria

Pollutant	Concentration/Limit
Oil and grease	Nil visible
pH	6.5-8.5
Total suspended solids (TSS)	50 mg/L

Results of the basin monitoring are summarised in Table 6-9. This shows the water quality complied with the EPL criteria prior to discharging, as predicted in the EIS. The results are reasonably consistent with the previous years, with most results less than 50mg/L and between a pH of 7 and 8.

Table 6-9 Summary of basin monitoring results

Date	Rain		Discharging	TSS (mg/L)	pH	Oil	Treated?	Discharged
	24 hrs	5 Days						
Criteria				50	6.5-8.5	Nil		
3.7.17	0	28	no	13	7.2	no	no	yes
20.7.17	0	5	no	24	7.9	no	no	yes
01.11.17	0	0	no	9	7.8	no	no	yes
21.11.17	10.5	25.5	no	20	7.7	no	no	yes
6.12.17	37	45.5	no	24	6.5	no	n/a	yes
3.1.18	19.5	27	no	9	6.23	no	no	no
12.1.18	0	2	no	47	7.53	no	no	yes
29.1.18	14.7	60.9	no	7	8.12	no	no	yes
6.3.18	38.7	47.7	no	67	7.53	no	yes	no
15.3.18	28.5	37.5	no	12	7.53	no	no	yes
23.4.18	29.1	36.9	no	18	7.89	no	no	yes
8.5.18	10	10	no	23	7.7	no	no	yes
15.6.18	0	6	no	7	7.37	no	no	yes

Surface water

Surface water sampling was collected at WQ1 and WQ2 following greater than 10mm of rain in a 24 hour period. A total of 33 samples were collected during the reporting period. A summary of the results are presented in Table 6-10. This shows the water quality at the two monitoring locations were relatively consistent. The water quality is also relatively good, which is as predicted in the EIS.

There was greater than 20% difference between the TSS concentrations at the two monitoring locations relatively regularly but there was no trend (i.e., WQ1 results were greater than WQ2 and at other times WQ2 results were greater than WQ1) and the concentrations are relatively low, so this was not considered an issue.

Table 6-10 Baseline surface water monitoring results summary

Site	TSS (mg/L)		pH		Oil (visible)	
	WQ1	WQ2	WQ1	WQ2	WQ1	WQ2
Median	5.5	7.0	6.3	6.2	None	None
Maximum	17.0	26.0	6.8	6.7	None	None
Minimum	<1	<1	6.1	5.9	None	None

Groundwater

Quarterly groundwater monitoring was undertaken at the three groundwater wells. A summary of the results is presented in Table 6-11. This shows pH at the three wells is relatively consistent and has reduced over the monitoring period. Conductivity is also relatively consistent, although GW3 conductivity increased during the February 2018 sampling event. GW3 was dry for the May 2018 sampling event. It is difficult to confirm the reason for the increased conductivity concentration but may be a result of the dry weather and the upstream migration of saline water in the surrounding environment. The quarry has not intercepted groundwater, so as predicted by the EIS, the groundwater quality is not expected to be influenced by quarry activities.

Table 6-11 Quarterly groundwater monitoring results

Date	Rain		GW1		GW2		GW3	
	24 hrs	5 days	pH	Cond	pH	Cond	pH	Cond

1.9.17	0	0	5.8	153	5.7	256	6.1	165
30.11.17	18	18	5.7	209	5.8	298	5.1	250
19.2.18	0	0	5.61	136	5.36	235	4.8	615
21.5.18	0	0	5.48	113	5.2	222	Dry	Dry

Groundwater levels have also been monitored at the three groundwater wells with an automatic data logger. The data logger records the water level at hourly intervals and a summary of the levels are provided in Figure 6-4. This shows all three well's ground water levels have decreased over the reporting period, most likely in response to the lack of rainfall. The fluctuation in groundwater level of all three wells appear to be relatively consistent, although GW2 appears to have greater fluctuations than GW1 and GW3. As predicted in the EIS, the quarry has not intercepted the groundwater nor does it appear to impact on groundwater level.

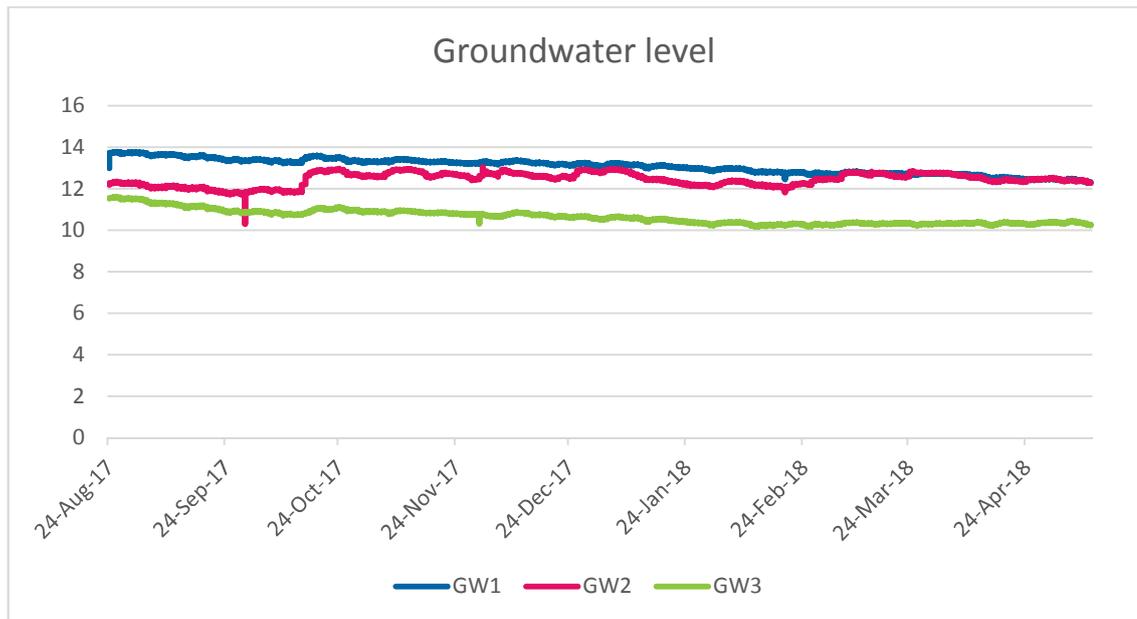


Figure 6-4 Groundwater levels

6.4.3 Improvements and initiatives

Newman Quarrying will continue to follow the SWMP and implement the appropriate mitigation measures and monitoring.

6.5 Biodiversity and rehabilitation

6.5.1 Environmental management

Biodiversity and rehabilitation at Sly's Quarry is managed in accordance with the Biodiversity and Rehabilitation Management Plan (BRMP) and CoA. The targets outlined in the BRMP include:

- Ensure full compliance with the relevant legislative requirements and CoA.
- No fauna fatalities.
- No unapproved disturbance of vegetation.
- No new occurrences of weeds or pathogens on-site.

6.5.2 Environmental performance

Newman Quarrying has implemented the mitigation measures outlined in the BRMP, including:

- Restricting vehicle movements to daylight hours.
- Implementing speed limits at the site.
- Revegetating Area C in accordance with the Rehabilitation Plan
- Clearly marked the limits of clearing.
- Installed nest boxes in accordance with the Nest Box Management Plan.
- Cleared approximately 1 hectare within Stage 1 and completed the pre and post clearing surveys.
- Submitted the BioBanking Agreement to OEHL for assessment.

Due to the minimal clearing, the actual impacts are considered to be less than those predicted but greater than the previous reporting period when no clearing occurred. Detailed monitoring of the revegetation of Area C has not been completed previously but from opportunistic observations and Figure 6-5, the natural revegetation appears to have progressed with plants growing and additional species observed, as shown in Figure 6-6 and Figure 6-7. Some areas are slow to revegetate and may require assistance if natural revegetation continues to fail in the next few years.



Figure 6-5 Aerial photograph of Area C rehabilitation between 5/10/2013 (left) and 25/10/2018 (right)



Figure 6-6 Area C rehabilitation - eastern edge looking west



Figure 6-7 Area C rehabilitation - western edge looking east

6.5.3 Improvements and initiatives

Newman Quarrying will continue to follow the BRMP and implement the appropriate mitigation measures to minimise impacts on biodiversity.

The BioBanking Agreement is also expected to be completed and implemented, which will require the establishment of a BioBank site.

6.6 Heritage

6.6.1 Environmental management

Management of both historical and Aboriginal cultural heritage at Sly's Quarry is in accordance with the Heritage Management Plan (HMP) and CoA. The targets outlined in the HMP are to:

- Ensure full compliance with the relevant legislative requirements and CoA.
- No damage to heritage items.
- All site staff and contractors trained on unexpected finds protocol.

6.6.2 Environmental performance

During the reporting period, Newman Quarrying has followed the protocols outlined in the HMP. As predicted in the EIS, no unexpected finds of historical or Aboriginal heritage items have been recorded during the reporting period.

6.6.3 Improvements and initiatives

The HMP and CoA will continue to be implemented at Sly's Quarry over the next reporting period.

6.7 Waste

6.7.1 Environmental management

Waste at Sly's Quarry is managed in accordance with the Waste Management Plan (WMP), CoA and EPL. The objectives of the WMP are to:

- Ensure full compliance with the relevant legislative requirements and CoA.
- Waste generation minimised through the hierarchy of waste management priorities.
- Separable waste bins provided.

The WMP encouraged using the waste management hierarchy of avoid, reuse/recycle and then dispose to mitigate the impacts of waste from a number of sources, including excavated material, green waste, general construction waste, contaminated soil, liquid waste, wastewater, biological waste and domestic waste.

6.7.2 Environmental performance

The following mitigation measures were implemented by Newman Quarrying during the reporting period to manage waste on-site:

- Re-using excess materials.
- Recycling metal, waste oil and old batteries.
- Appropriate storage of chemicals and fuels in bunded areas with 110% capacity.
- Diverting clean water from the site.
- Routine weekly inspection to ensure the site is clean and tidy.

A summary of the type and quantity of wastes generated by the quarry are presented in Table 6-12. The volumes of waste were not predicted in the EIS, however the type of wastes and disposal option is generally as predicted.

Table 6-12 Waste records

Waste	Amount	Management option
General rubbish	30 m ³	Landfill
Scrap steel	14.55 tonnes	Recycled
Cardboard	12 m ³	Recycled
Oil	3,000 L	Recycled
Hydrocarbon bin	80 kg	Landfill

6.7.3 Improvements and initiatives

Newman Quarrying will continue to implement the waste mitigation measures and conditions outlined in the WMP, CoA and EPL.

6.8 Traffic

6.8.1 Environmental management

Traffic and transport at Sly's Quarry is managed in accordance with the Traffic Management Plan (TMP), CoA and EPL. The objectives of the TMP are:

- Ensure full compliance with the relevant legislative requirements and CoA.
- No justified complaints related to site traffic.
- No road damage from quarry vehicle movements beyond normal wear and tear.

6.8.2 Environmental performance

In order to meet these objectives Newman Quarrying implemented the following mitigation measures during the reporting period:

- Implementation of a code of conduct.
- Upgrading the access and Tullymorgan-Jackybulbin Road intersection.
- Installation of a rumble grid at the weighbridge.
- No more than 150 laden trucks dispatched from the quarry on any day.

Newman Quarrying present a truck movement summary on their website, which is summarised in Table 6-13. Truck movements were compliant with the CoA and TMP.

Table 6-13 Truck movement summary

DAY	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
1ST	0	77	74	0	8	11		42	75		66	22
2ND	0	89	17	0	17	30		18	108		55	30
3RD	84	92	0	0	52	0		0	30	147	70	0
4TH	94	64	88	29	51	73	2	0	0	125	47	25
5TH	115	20	78	61	0	118		54	43	61	15	24
6TH	114	0	90	59	2	95		90	46	115	0	23
7TH	102	82	100	0	88	121		102	73	27	46	1
8TH	92	94	14	0	107	98	15	42	134		7	1
9TH	0	89	0	27	144	70	12	68	86	67	36	0
10TH	109	92	0	115	128	0	80	17	50	102	65	0
11TH	88	93	90	116	37	90	135	0		97	90	0
12TH	90	58	117	13	0	150	89	71	87	100	36	40

DAY	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
13TH	106	0	104	111	127	129	12	141	60	34	0	13
14TH	94	117	71	16	137	75	0	121	38	2	84	84
15TH	91	120	84	0	68	76	73	135	57		55	99
16TH	0	90	11	32	51	0	53	87	81	76	67	47
17TH	94	115	0	18	26	0	28	18	49	43	59	0
18TH	94	19	58	106	0	8	60	0		19	77	147
19TH	112	0	102	107	0	1	84	59	120	39	1	103
20TH	86	0	101	126	64	0	20	115	131	24	0	84
21ST	115	36	71	0	75	0	0	79	121	22	14	110
22ND	37	16	30	0	63	0	100	77	141	0	68	107
23RD	0	37	18	40	91	0	39	28	111	39	23	55
24TH	64	13	0	12	93	0	68	0	31	6	45	0
25TH	100	41	70	79	37	0	58	0	0	0	47	122
26TH	110	23	58	110	0	0	0	148	98	14	0	133
27TH	88	0	52	148	102	0	0	117	146	18	0	27
28TH	93	69	63	42	76	0	0	84	144	23	21	45
29TH	0	39	0	0	72	0	105		36	0	75	67
30TH	0	25	0	142	59	0	70		0	30	120	
31ST	89	52		91		0	62				98	

The traffic impacts were generally consistent with those predicted, however truck numbers have increase compared to the previous reporting periods due to the approval of the modification on 19 October 2017.

6.8.3 Improvements and initiatives

Newman Quarrying will continue to implement the traffic mitigation measures and conditions outlined in the TMP, CoA and EPL.

7. Complaints

In accordance with the CoA, an Environmental Management Strategy (EMS) was prepared, which included details of a complaints handling process for the quarry. In accordance with the EMS, a complaints telephone line was established, with the number advertised on the Sly's Quarry entrance and on the Newman Quarrying website. The EMS requires all complaints to include:

- 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 in relation to the complaint, including any follow-up contact with the complainant.
- If no action was taken, the reason why no action was taken.

Newman Quarrying records all complaints regarding quarry operations, in accordance with the EMS. The complaints are publically available on their website.

During the reporting period no complaints were received.

8. Independent audit

An independent environmental audit (IEA) of the Sly's Quarry Expansion was conducted in August 2017 by Tim Fitzroy of Tim Fitzroy & Associates, Dr Melissa Van Zwieten (Ecologist), Tim Ruge (Environmental Engineer) and Dr John Heilig (Vibration). The audit concluded that:

Sly's Quarry was being developed generally in accordance with the project description and predictions outlined in the Environmental Impact Assessment for the Sly's Quarry Expansions, March 2015. The operation of the Sly's Quarry at the date of this audit, generally demonstrates compliance with the Development Consent conditions, and the Environment Protection Licence conditions.

The non-compliances were considered low risk and related to:

- Air quality monitoring
- Water quality monitoring
- Groundwater monitoring
- Bunding
- Waste oil and battery storage
- Bushfire management

Table 8-1 provides the IEA recommendations and Newman Quarrying response. All responses have now been implemented.

Table 8-1 Response to IEA recommendations

Condition	Recommendation	Response
SSD 6624, Schedule 3, Condition 15	Air Quality Monitoring is to be undertaken in accordance with AQMP and EPL 11649 requirements and report provided as per DA consent SSD 6624 and EPL 11649 condition	There was a delay to the installation of the dust monitoring equipment due to obtaining a reasonable price for and the availability of the equipment. The monitoring equipment was installed on 10 August 2017 and the results will be reported in the next Annual Review and on the Newman Quarrying website, when available.
SSD 6624, Schedule 3, Condition 21	A spill safe system is used to capture spillage when dispensing waste oil to the underground tank. The system should include bollards to protect it from vehicle damage.	Newman Quarrying will install a spill safe system on the waste oil underground tank by the end of 2017.
SSD 6624, Schedule 3, Condition 21	A leak detection system is to be implemented to manage the structural integrity of the underground waste oil tank	This issue was also raised during a recent EPA inspection. EPA have agreed to Newman Quarrying test pitting around the perimeter of the tank every 12 months to detect leaks.
SSD 6624, Schedule 3, Condition 25	The intersection upgrade is to be completed with installation of required signage	The intersection upgrade has been completed and the signs were installed on 18 September 2017.

Condition	Recommendation	Response
SSD 6624, Schedule 3, Condition 21	Groundwater bore construction details and the results of monitoring reported as per DA consent SSD 6624 and EPL 11649 conditions.	The three groundwater wells required in the SWMP were installed on 02 August 2017, generally in accordance with the Minimum Construction Requirements for Water Bores in Australia (NUDLC, 2011). The wells have since been developed, purged, water level loggers installed and monitoring undertaken. The results will be reported in the next Annual Review and on the Newman Quarrying website, when available.
SSD 6624, Schedule 3, Condition 21	A designated, impervious bunded facility should be provided for cleaning and/or maintenance of vehicles, plant or equipment that discharges to a suitably designed wastewater treatment and dispersal system.	Newman Quarrying will install a designated, impervious bunded area with an oil and water separator by the end of 2017.
SSD 6624, Schedule 3, Condition 21	Staff are to be trained in the use of spill safe equipment.	Newman Quarrying will train all staff in the use of spill kits by the end of 2017 and training will be included in the induction.
SSD 6624, Schedule 5, Condition 1	Site induction and ongoing training in environmental awareness and the requirements of the various environmental management plans be implemented to staff, contractors and visitors as appropriate.	Newman Quarrying have requested GHD to provide environmental awareness training by the end of 2017 and will include relevant environmental requirements in the site induction.
SSD 6624, Schedule 3, Condition 25	It is recommended the non-compliances regarding the intersection upgrade are addressed as soon as possible. These works involve: Widening the batter slightly in accordance with a Council request Installing a Give Way sign at the exit from the site and installing truck warning signs on Tullymorgan-Jackybulbin Road in accordance with the design drawing in Appendix B of the TMP.	The intersection upgrade has been completed and the signs were installed on 18 September 2017.
SSD 6624, Schedule 3, Condition 21	It is recommended that the operator: commence baseline water quality monitoring as detailed in the SWMP Relocate the stored batteries to the workshop or a suitably enclosed, roofed area.	Newman Quarrying will commence the baseline water quality monitoring at the next rainfall event (note: there has not been a >10 mm rainfall event since June). The results will be reported in the next Annual Review and on the Newman Quarrying website, when available. Newman Quarrying now stores used batteries undercover.
SSD 6624, Schedule 3, Condition 11	The quarry manager maintains a record of blast initiation dates and times independent of the drill and blast contractor.	Newman Quarrying will record blast details for all future blasts.

Condition	Recommendation	Response
SSD 6624, Schedule 3, Condition 11	Consideration be given to adjusting the configuration of the blast monitoring equipment to permit continuous recording (histogram capability) to verify ground vibration and air overpressure results for those occasions where the blast has not generated levels exceeding the threshold values. Further lowering of the threshold levels is not however proposed.	The blasting contractor has made the adjustment to the monitoring equipment. All future blasts will be monitored as recommended with a summary of the results presented on the Newman Quarrying website and included in the next Annual Review report.
SSD 6624, Schedule 3, Condition 21	The licensee is required to install and maintain a rainfall depth measuring device in the final basin.	It is unclear what this EPL condition relates to but a marker has since been placed in the sediment basin.
SSD 6624, Schedule 3, Condition 41	Bushfire awareness induction is to be provided to new staff members, contractors, visitors and site users.	Newman Quarrying will undertake emergency response training for all staff by the end of 2017, which will include bushfire response. Bushfire awareness will also be included in the induction.

9. Incidents and non-compliance

9.1 Incidents

No incidents occurred during the reporting period.

9.2 Non compliance

As identified in Section 3, there were some non-compliances during the reporting period. Most of the non-compliances were raised in the IEA and, as discussed in Section 8, have now been resolved. The other non-compliances raised in Section 3 are addressed in Table 9-1.

Table 9-1 Non compliance

Condition	Details of non-compliance	Response
SSD 6624 - Schedule 2, Condition 19	The condition requires payment of Council contributions by 31 July each year. However the receipt from Council is dated 20 August 2018	<p>Newman Quarrying contacted Council on 11 July 2018 by email to confirm how to calculate the contribution.</p> <p>Newman Quarrying followed this up with a phone call on 27 July 2018 and another email on 30 July 2018.</p> <p>Newman Quarrying called Council again on 14 August 2018 but still didn't get confirmation.</p> <p>On 15 August 2018 Newman Quarrying visited Council and left a cheque for \$8,584.95 with a letter explaining how this amount was calculated.</p> <p>Council later issued the receipt dated 20 August 2018.</p> <p>Copies of the emails are provided in Appendix B.</p> <p>While technically this is a non-compliance, it is considered Newman Quarrying did attempt to make the payment in compliance with the condition but Council were unresponsive.</p>
SSD 6624 - Schedule 5, Condition 13	The condition requires monitoring information to be available on the website and the information to be kept up to date	<p>The surface water and groundwater monitoring results were on the website, although dated. The noise, blasting and dust monitoring information was reported in the Annual Review.</p> <p>Newman Quarrying have since uploaded the noise, blasting and dust monitoring information on the website and updated the surface water and groundwater monitoring data.</p>

9.3 Regulatory agency actions

In response to the first IEA, DPE issued a Show Cause letter, dated 25 October 2017, in relation to:

- Schedule 3, Condition 13 and 15 (Air Quality Monitoring)
- Schedule 3, Condition 21 (Surface and Groundwater Monitoring)
- Schedule 3, Condition 41 (Bushfire Management)
- Schedule 5, Condition 2 (Environmental Management)

After providing a representation to DPE, Newman Quarrying were issued a Penalty Notice in relation to Schedule 3, Condition 10 and 13(d) on 28 November 2017. It is considered the

reference in the Penalty Notice to Condition 10 is an error because it was not referred to in the Show Cause letter or discussed further in the Penalty Notice.

In respect to compliance with Schedule 3, Condition 13, the air quality monitoring has since been implemented and completed, as discussed in Section 6.3.

10. Conclusion

This Annual Review has been completed for Sly's Quarry, on behalf of Newman's Quarrying, in accordance with the CoAs (SSD 6624), to assess environmental compliance at the site from 01 July 2017 to 30 June 2018.

The primary quarry operations undertaken during the reporting period included:

- Extraction, processing and sale of material
- Installing nest boxes
- Environmental monitoring
- Rehabilitation of Area C, as per the approved Rehabilitation Plan
- Complete upgrade of quarry intersection
- Paid Council contributions
- Submitting the BioBanking Agreement to OEH for assessment

Activities proposed for the next reporting period include:

- Continuing the extraction, processing and sale of material
- Finalising BioBanking Agreement and establish BioBank site
- Monitoring rehabilitation of Area C
- Ongoing environmental monitoring

An assessment of the environmental monitoring completed at Sly's Quarry was undertaken, with compliance against CoA SSD 6624, EPL 11649 and the relevant management plans also assessed. Generally, environmental management at Sly's Quarry, during the reporting period, was as predicted, consistent with previous reporting periods and compliant.

Environmental management will continue to comply with the CoA of SSD 6624, EPL 11649 and the relevant management plans.

11. References

GHD 2015. *Environmental Impact Statement*. May 2015.

GHD 2017. *Air Quality Management Plan*. May 2017.

GHD 2017. *Biodiversity and Rehabilitation Management Plan*. May 2017.

GHD 2017. *Blast Management Plan*. May 2017.

GHD 2017. *Environmental Management Strategy*. May 2017.

GHD 2017. *Heritage Management Plan*. May 2017.

GHD 2017. *Noise Management Plan*. May 2017.

GHD 2017. *Soil and Water Management Plan*. May 2017.

GHD 2017. *Traffic Management Plan*. May 2017.

GHD 2017. *Waste Management Plan*. May 2017.

NSW Government 2015, *Post-approval requirements for State Significant mining developments – Annual Review Guideline*.

Appendices

Appendix A – Production data



RETURN FOR EXTRACTIVE MATERIALS: YEAR ENDED 30 JUNE 2018

Quote RIMS ID in all correspondence

Quarry Id: _____ Rims ID: <u>400567</u> Operators Name: <u>NEWMAN QUARRIES PTY LTD</u> Address: <u>PO Box 292 YAMBA NSW 2464</u> Email: <u>newmanquarrying@gmail.com</u> Quarry Name: <u>Sty's Quarry</u> Quarry Address: <u>Jacky Rubin Rd</u>	Inquiries please telephone: (02) 4063 6713 Completed or Nil Returns Email – mineral.royalty@planning.nsw.gov.au Postal Address (see address below)	2017-2018
<i>Please amend name, postal address and location of mine or quarry if incorrect or incomplete</i>		

The return should be completed and forwarded to the **MANAGER ASSESSMENT COORDINATION, RESOURCE OPERATIONS, NSW PLANNING & ENVIRONMENT, PO BOX 344 HUNTER REGION MAIL CENTRE NSW 2310** on or before **31 October 2018**. 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.

Director Titles Assessments

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

Typical Geology SANDSTONE

Nearest Town to Quarry MACLEAN

Local Council Name Clarence Valley Council

Deposited Plan and Lot Number/s of Quarry LOT 2 DP 1055044

Email Address of Operator newmanquarrying@gmail.com

Name of Owner or Licensee MARK NEWMAN

Postal Address of Licensee PO BOX 292, YAMBA 2464

Licence/Lease Number/s (if any)
 From Mineral Resources NSW (Industry & Investment NSW) N/A
 From Department of Lands or other Department SSD 6624

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 25-9-18
- PERSON to be contacted if queries arise regarding this return MARK NEWMAN
- NAME (Block letters) MARK NEWMAN Telephone 0427822667

SALES During 2017-2018

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
Virgin Materials		
• Crushed Coarse Aggregates		—
Over 75mm	collyle + 75mm	192,623.04
Over 30mm to 75mm	A Aggregate crusher	1168.66
5mm to 30mm	2-20 Agg.	700.28
Under 5mm	—	—
Natural Sand	—	—
Manufactured Sand	WASHED SAND -7mm	1688.46
Prepared Road Base & Sub Base		249,293.67
Other Unprocessed Materials	—	—
Recycled Materials		
• Crushed Coarse Aggregates	—	—
Over 75mm	—	—
Over 30mm to 75mm	—	—
5mm to 30mm	—	—
Under 5mm	—	—
Natural Sand	—	—
Manufactured Sand	—	—
Prepared Road Base & Sub Base	—	—
Other Unprocessed Materials	—	—
• River Gravel	—	—
Over 30mm	—	—
5mm to 30mm	—	—
Under 5mm	—	—
• Construction Sand	Excluding Industrial	17458.90
• Industrial Sand	—	—
Foundry, Moulding	—	—
Glass	—	—
Other (Specify)	—	—
• Dimension Stone	Building, Ornamental, Monumental	—
Quarried in Blocks		18008.69
Quarried in Slabs	—	—
• Decorative Aggregate	Including Terrazzo	—
• Loam	Soil for Topdressing, Garden soil, Horticultural purposes)	—
• TOTAL SITE PRODUCTION		476,941.66
• Gross Value (\$) of all Sales	\$ 5,723,287.92	
• Type of Material	SANDSTONE PRODUCT.	
• Number of Full-Time Equivalent (FTE) Employees	Employees: 12	Contractors 1

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

Appendix B – Council contributions



clarence
VALLEY COUNCIL

ABN: 85864095684

Locked Bag 23
Grafton NSW 2460

Tax Invoice
Official Receipt

20/08/2018 **Receipt No:** 779163

To: Newman quarrying Pty Ltd
PO Box 292
YAMBA NSW 2464

Applic	Reference	Amount
GL Receipt		
GL S94QuryRdsJacky		\$8,584.95
1 - Annual S94 Contribution		

Transaction Total: **\$8,584.95**
Includes GST of: **\$0.00**

Amounts Tendered

Cash	\$0.00
Cheque	\$8,584.95
Db/Cr Card	\$0.00
Money Order	\$0.00
Agency	\$0.00
Total	\$8,584.95
Rounding	\$0.00
Change	\$0.00
Nett	\$8,584.95

You are a valued customer of Clarence Valley Council. We thank you for your payment

Please Note: The print quality of this receipt will diminish over time.

A surcharge of 0.6% applies to payments by Credit Card

Printed 20/08/2018 1:59:42PM

Gmail

@clarence.nsw.gov.au



4 of about 65

s94 cpi increase



mark newman <newmanquarrying@gmail.com>
to council

Wed, Jul 11, 7:56 AM

Hi,

Im just trying to calculate my quarry s94 payment for this year, can you tell me the cpi increase calculation from 1994 to now as I have to pay to the maclean shire council 1994 road levy standard calculation.

Regards



Reply

Forward

Gmail

@clarence.nsw.gov.au



2 of about 65



2018 s94 maclean shire area calculation



mark newman <newmanquarrying@gmail.com>

Mon, Jul 30, 5:04 AM



to Patrick

Hi Pat,

Ive emailed council twice with no response, can you tell me the current s94 contribution for the average annual cost per km of road maintenance please so I can pay my fees.

Regards



Mark Newman
Owner/Director

NEWMAN QUARRYING PTY.LTD

ACN 067 605 323 / ABN 32 067 605 323

PO BOX 292, Yamba 2464

PH 0427822667

newmanquarrying@gmail.com

15/7/18

To Whom it may concern,

Please see attached our cheque to pay our annual s94 contribution. This amount has been calculated using the formula in your s94 plan the following way.

L = 2km of council road from our gate to Pacific Hwy

T = 476,941.66t sold /5t per axle (as s94 plan states) = 95,388.34 esa's used

M = \$4,007.15 as per s94 plan

Q = 95,388.34 esa's used

Formula (l x m) / t x Q

$2 \times \$4,007.15 = \$8,014.30 / 95,388.34 = \$0.09 \times 95,388.34 = \$8,584.95$

Please feel free to contact me if you need any further information.

Regards

Mark Newman

Director

GHD Pty Ltd
230 Harbour Drive
COFFS HARBOUR NSW 2450
T: 02 6650 5600 F: 02 4979 9988 E: cfsmail@ghd.com

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Document Status

Rev	Author	Reviewer		Approved for Issue		
		Name	Signature	Name	Signature	Date
0	S Martin	B Luffman		S Lawer		26/09/2018
1	B Luffman	S Lawer		S Lawer		07/12/2018

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