

GALES-KINGSCLIFF

PTY LTD
ABN: 75 093 540 080

Annual Review

for the

Cudgen Lakes Sand Quarry

1 July 2013 to 30 June 2014

Compiled by:



R.W. CORKERY & CO. PTY. LIMITED

GALES-KINGSCLIFF

PTY LTD
ABN: 75 093 540 080

Annual Review

for the

Cudgen Lakes Sand Quarry

Compiled for:

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Ref No. 617/28

12 September 2016



R. W. CORKERY & CO. PTY. LIMITED

TITLE BLOCK

Name of Operation	Cudgen Lakes Sand Quarry
Name of Operator	Not operational
Development consent / project approval #	Project Approval 05_0103
Name of holder of development consent / project approval	Gales-Kingscliff Pty Ltd
Mining Lease #	Not Applicable
Name of holder of mining lease	Not Applicable
Water licence #	30BL179511
Name of holder of water licence	Gales-Kingscliff Pty Ltd
MOP/RMP start date	Not Applicable
MOP/RMP end date	Not Applicable
Annual Review start date	01/07/13
Annual Review end date	30/06/14
<p>I, Stephen Segal, certify that this audit report is a true and accurate record of the compliance status of the Cudgen Lakes Sand Quarry for the period 1 July 2013 to 30 June 2014 and that I am authorised to make this statement of behalf of Gales-Kingscliff Pty Ltd.</p> <p><i>Note.</i></p> <p>a) <i>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.</i></p> <p>b) <i>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); Section 307A, 307B and 307C (false or misleading application/information/documents – maximum penalty 2 years imprisonment or \$22,000, or both).</i></p>	
Name of authorised reporting officer	Stephen Segal
Title of authorised reporting officer	Managing Director
Signature of authorised reporting officer	
Date	12 September 2016

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CONTENTS

	Page
1. STATEMENT OF COMPLIANCE	1
2. INTRODUCTION.....	2
2.1 OVERVIEW OF OPERATIONS	2
2.2 SCOPE AND FORMAT	2
2.3 KEY PERSONNEL CONTACT DETAILS	2
3. APPROVALS	6
4. OPERATIONS SUMMARY	7
4.1 EXTRACTION OPERATIONS	7
4.2 OTHER OPERATIONS DURING THE REPORTING PERIOD	7
4.3 NEXT REPORTING PERIOD	8
5. ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW	9
6. ENVIRONMENTAL PERFORMANCE.....	10
7. WATER MANAGEMENT	11
8. REHABILITATION	13
8.1 REHABILITATION PERFORMANCE DURING THE REPORTING PERIOD	13
8.2 ACTIONS FOR THE NEXT REPORTING PERIOD	13
9. COMMUNITY	15
10. INDEPENDENT AUDIT	16
11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD	17
12. ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD.....	18

APPENDICES

Appendix 1: Compliance Review.....	A1-1
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FIGURES

Figure 2.1 Locality Plan.....	3
Figure 2.2 Approved Quarry Site Layout.....	4
Figure 2.3 Surrounding Land Ownership, Residences and Registered Groundwater Bores	5
Figure 7.1 Water Quality Monitoring 2010 - 2014	12
Figure 8.1 Status of Rehabilitation	14



CONTENTS

Page

TABLES

Table 1.1	Statement of Compliance	1
Table 1.2	Non-compliances	1
Table 3.1	Cudgen Lakes Sand Quarry – Consents, Leases and Licences	6
Table 4.1	Production Summary.....	7
Table 6.1	Environmental performance	10
Table 7.1	Water Quality Monitoring Results 2010 – 2014	11
Table 8.1	Rehabilitation Summary	13



1. STATEMENT OF COMPLIANCE

The compliance status of relevant approvals was reviewed for the reporting period and is summarised in **Table 1.1**. It was determined that there were three non-compliances during the reporting period. The non-compliances recorded during the reporting period have been ranked according to the risk matrix included in **Table 1.2**.

Table 1.1
Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	Yes / No
Project Approval 05_0103	No
Environment Protection Licence 12385	Yes
Water Licence 30BL179511	Yes

Table 1.2
Non-compliances

Relevant Approval	Condition	Condition Description (summary)	Compliance Status	Comment	Where Addressed in Annual Review
PA 05_0103	2(3)	Surrender existing approvals within 18 months of Project Approval.	Non-compliant	DA 96/518 surrendered to (then) DP&I within 18 months. However, DA required to be surrendered to Council.	Section 11, Appendix 1
	5(5)	Submit AEMRs annually from date of Project Approval.	Non-compliant	The 2013/2014 Annual Review was not submitted within the required 12 month timeframe.	Section 11, Appendix 1
	5(10)	Within 1 month of the approval of any plans, audit or AEMR, provide a copy to Council and relevant agencies and make available on Company website.	Non-compliant	The approved 2009/2010 AEMR was not placed on the Company website within 1 month of approval.	Section 11, Appendix 1

Compliance Status Key

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).

2. INTRODUCTION

2.1 OVERVIEW OF OPERATIONS

The Cudgen Lakes Sand Quarry is located at Cudgen approximately 1km south of the Tweed River and 8km south of the New South Wales/Queensland Border (see **Figure 2.1**). Project Approval 05_0103 was granted 16 June 2009. The approved layout of the operations is shown in **Figure 2.2** whilst surrounding land ownership, residences and registered groundwater bores are shown in **Figure 2.3**. To date operations have not yet commenced.

2.2 SCOPE AND FORMAT

This Annual Review for the Cudgen Lakes Sand Quarry (“the Quarry”) has been compiled by R.W. Corkery & Co. Pty. Limited on behalf of Gales-Kingscliff Pty Ltd (“the Company”).

This is the fourth Annual Review submitted for the Quarry, following one Annual Environmental Management Report, and is applicable for the period 01 July 2013 to 30 June 2014 (“the reporting period”). The information presented within this Annual Review has been compiled based on information compiled by R.W. Corkery & Co. Pty. Limited and provided by the Company.

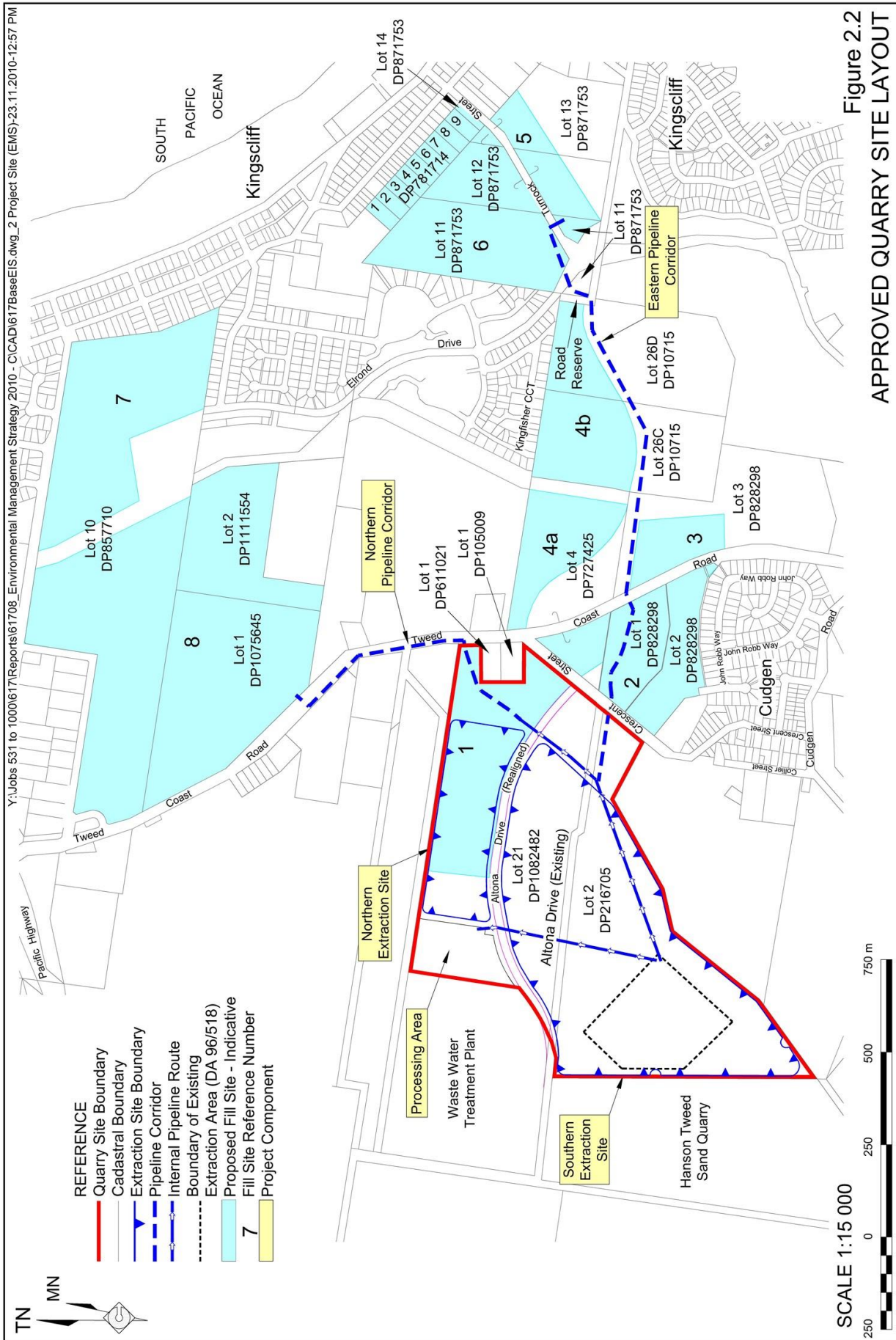
It should be noted that this Annual Review has been prepared based upon the approval and licencing requirements applicable for the reporting period, however, the report generally follows the format and content requirements identified in the *Annual Review Guideline* dated October 2015 since this applies at the time the report was actually prepared.

2.3 KEY PERSONNEL CONTACT DETAILS

The key personnel contact names, position and phone numbers are as follows.

Name	Position	24 Hour Contact
Stephen Segal	Managing Director	0414 322 455
Jeff Holloway	Site Caretaker	0402 427 938





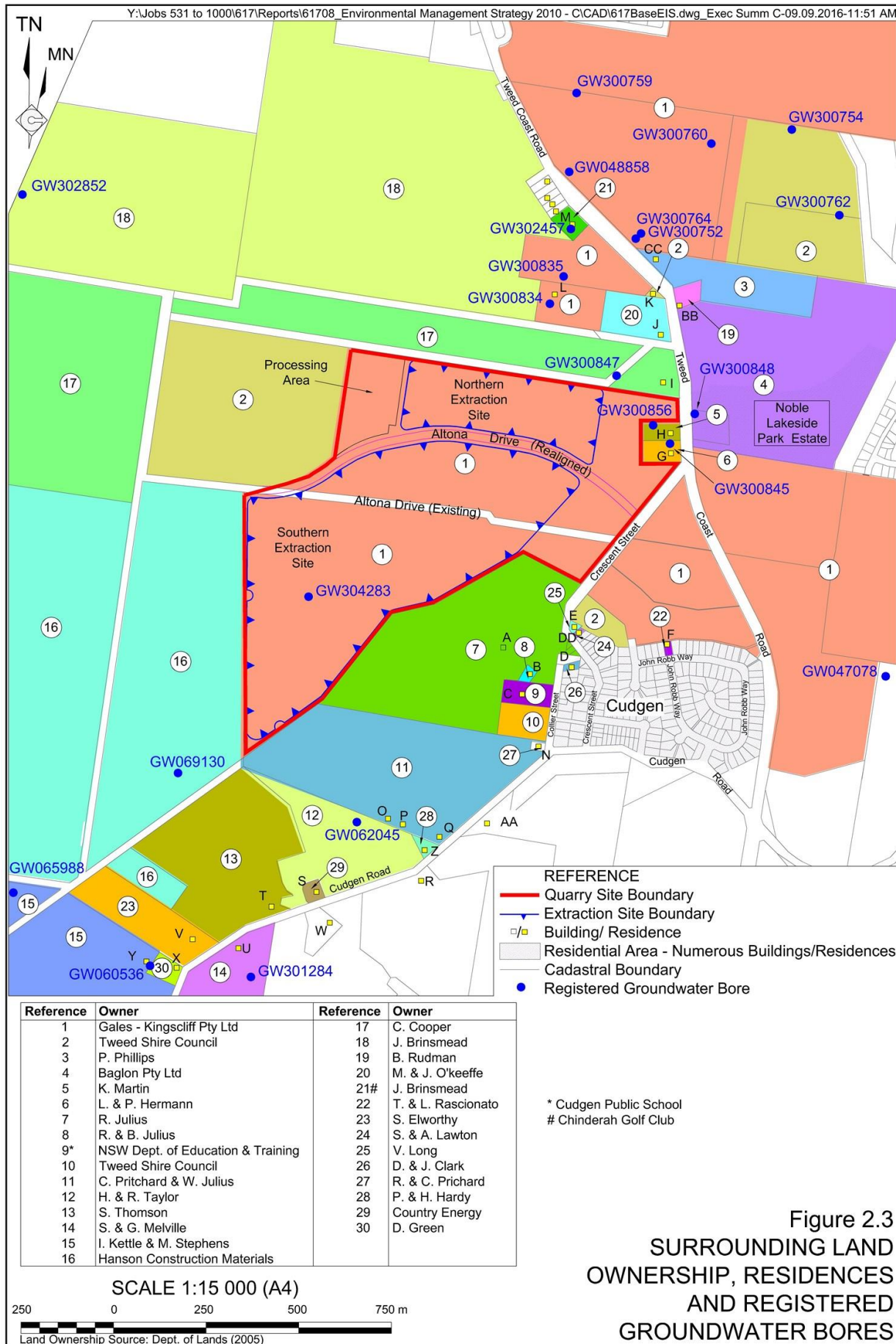


Figure 2.3
SURROUNDING LAND
OWNERSHIP, RESIDENCES
AND REGISTERED
GROUNDWATER BORES

3. APPROVALS

The Quarry will operate in accordance with the approvals listed in **Table 3.1**. There were no changes or modifications to these approvals during the reporting period.

Table 3.1
Cudgen Lakes Sand Quarry – Consents, Leases and Licences

Consent/Lease/Licence	Issue Date	Expiry Date	Details / Comments
Project Approval 05_0103	16/06/2009	01/07/2029	Issued by the (then) Department of Planning.
Environment Protection Licence 12385	18/11/2005	Not Applicable	Issued by NSW Environment Protection Authority. Renewed annually.
Water Licence 30BL179511	13/10/2013	12/10/2018	Issued by the (then) NSW Department of Water & Energy for DA 96/518.

4. OPERATIONS SUMMARY

4.1 EXTRACTION OPERATIONS

No extraction operations were undertaken during the reporting period. **Table 4.1** provides the production summary.

Table 4.1
Production Summary

Material	Approved limit (specify source)	Previous reporting period (actual)	This reporting period (actual)	Next reporting period (forecast)
Waste Rock / Overburden	NA	0	0	0
ROM Coal / Ore	NA	0	0	0
Coarse Reject	NA	0	0	0
Fine Reject (Tailings)	NA ¹	0	0	0
Saleable Product (transported by road)	300,000t [PA 05_0103 Condition 2(7)]	0	0	0
Total Extraction	650,000m ³ [PA 05_0103 Condition 2(6)]	0	0	0
Imported VENM	45,000t [PA 05_0103 Condition 2(8)]	0	0	0
Notes: 1. Whilst fines will be generated through sand washing and returned to the extraction ponds, there are no approval limits applicable to this material.				

4.2 OTHER OPERATIONS DURING THE REPORTING PERIOD

No other operational activities were undertaken during the reporting period.

Non-operational activities during the reporting period included quarterly water quality monitoring of the initial dredge pond (see Section 7) and the approval of the following management plans on 14 May 2014 by the Department of Planning & Environment.

- Environmental Management Strategy.
- Environmental Monitoring Program.
- Noise Monitoring Program.
- Air Quality Monitoring Program.
- Soil and Water Management Plan.
- Aboriginal Cultural Heritage Management Plan.

Copies of the approved management plans have been placed on the Company website.

4.3 NEXT REPORTING PERIOD

Land Preparation and Construction

No land preparation or construction activities are planned during the next reporting period.

Extraction

No extraction activities are planned during the next reporting period.

Rehabilitation

No areas will become available for rehabilitation during the next reporting period.

Monitoring

Quarterly water quality monitoring of the initial dredge pond will continue in accordance with EPL 12385.

Community Consultation and Liaison

No specific community consultation or liaison activities are planned for the next reporting period.

5. ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

The 2013/2014 Annual Review was submitted concurrently with the 2012/2013 Annual Review. Therefore, no actions from the 2012/2013 Annual Review have been raised to date.



6. ENVIRONMENTAL PERFORMANCE

A summary of environmental performance for the principal environmental aspects is provided in **Table 6.1**. Given there were no operational activities, no complaints and no related monitoring of these aspects, no specific management measures were deemed necessary and no trends have been identified.

Table 6.1
Environmental performance

Aspect	Approval criteria / EIS prediction	Performance during the reporting period	Trend/key management implications	Implemented/proposed management actions
Noise	47dB(A) day & evening. 44dB(A) shoulder.	No operational activities were undertaken and no complaints were received.	No trends identifiable. Currently no management implications.	No specific management measures implemented or currently proposed.
Blasting	Blasting is not an approved activity.	No blasting undertaken.	Nil.	Nil.
Air Quality	PM ₁₀ 24hr = 50ug/m ³ PM ₁₀ Annual = 30ug/m ³ TSP Annual = 90ug/m ³ Dep Dust Annual = 4g/m ² /month	No operational activities were undertaken and no complaints were received.	No trends identifiable. Currently no management implications.	No specific management measures implemented or currently proposed.
Biodiversity	Establish rehabilitation bond. No significant impacts predicted.	No operational activities or activities relating to biodiversity aspects occurred.	No trends identifiable. Currently no management implications.	No specific management measures implemented or currently proposed.
Heritage	Prepare Aboriginal Cultural Heritage Management Plan. No items of heritage have been located.	No operational activities occurred and no heritage items were identified or disturbed.	No trends identifiable. Currently no management implications.	No specific management measures implemented or currently proposed.

7. WATER MANAGEMENT

Water Licence 30BL179511 was issued under the *Water Act 1912* for operations approved under DA 96/518 and does not specify maximum water take / entitlement volumes. Given that no operational activities occurred during the reporting period and no water was actively removed from the initial dredge pond, no water take has occurred. It is noted that consultation with the NSW Office of Water as part of the Soil and Water Management Plan (prepared under PA 05_0103) confirms that evaporation is not required to be accounted for in the calculated water loss / entitlement for this operation.

Water quality monitoring within the initial dredge pond (EPL Point 1 – see **Figure 8.1**) continued during the reporting period in accordance with the requirements of EPL 12385. A summary of the monitoring results is provided in **Table 7.1** and displayed graphically in **Figure 7.1**.

Table 7.1
Water Quality Monitoring Results 2010 – 2014

(Date sampled)*	Dissolved Oxygen	pH	Redox Potential	Salinity	Temperature
Units	mg/L	-	millivolts	µS/cm	°C
EPL 12385 Limits	None Specified				
PA 05_0103 Objectives	>6	6.5-8.5	Not Specified	<3,000	Not Specified
21-Jan-10	8.71	8.13	61	471	25.7
06-Apr-10	7.01	7.71	-31	425	21.3
13-Aug-10	5.92	7.07	-73	392	18.3
22-Oct-10	6.13	7.83	-56	412	23.9
04-Feb-11	8.41	8.57	62	492	27.1
17-May-11	7.41	8.19	31	426	23.1
07-Jul-11	7.35	7.95	-10	397	19.7
17-Oct-11	6.05	7.8	18	310	24.7
16-Feb-12	7.17	8.91	77	336	28.7
01-May-12	6.53	7.91	62	371	22.8
23-Aug-12	7.21	8.37	83	420	21.7
30-Oct-12	7.36	8.46	71	322	26.2
23-Jan-13	8.90	8.00	81	379	29.2
02-Apr-13	6.20	7.60	68	356	23.7
21-Jun-13	6.18	7.90	57	389	21.7
25-Sep-13	5.30	7.21	48	480	24.6
21-Jan-14	7.2	8.43	97	451	28.3
07-Apr-14	5.7	7.21	37	372	25.7
Average	6.93	7.96	38	400	24.2
Minimum	5.30	7.07	-73	310	18.3
Maximum	8.90	8.91	97	492	29.2
Red values indicate exceedance of applicable limits.			*All samples are measured using field instrumentation		
Grey shaded results relevant to this reporting period					

During the reporting period all values remained within specified objectives except for two dissolved oxygen values slightly (0.3 to 0.7mg/L) below the dissolved oxygen objective. These slight exceedances are not considered likely to have resulted in any adverse environmental effects and are within the range of dissolved oxygen (0.36mg/L to 13.3mg/L) previously recorded in surrounding surface water drains. Given that the intent is to aim to meet these objectives and no operational activities have occurred, other than continued monitoring, no action is currently considered necessary.

There appears to be an approximately seasonal trend for all measured parameters, however, as no operations were undertaken, there is no influence on the parameters from quarry activities.

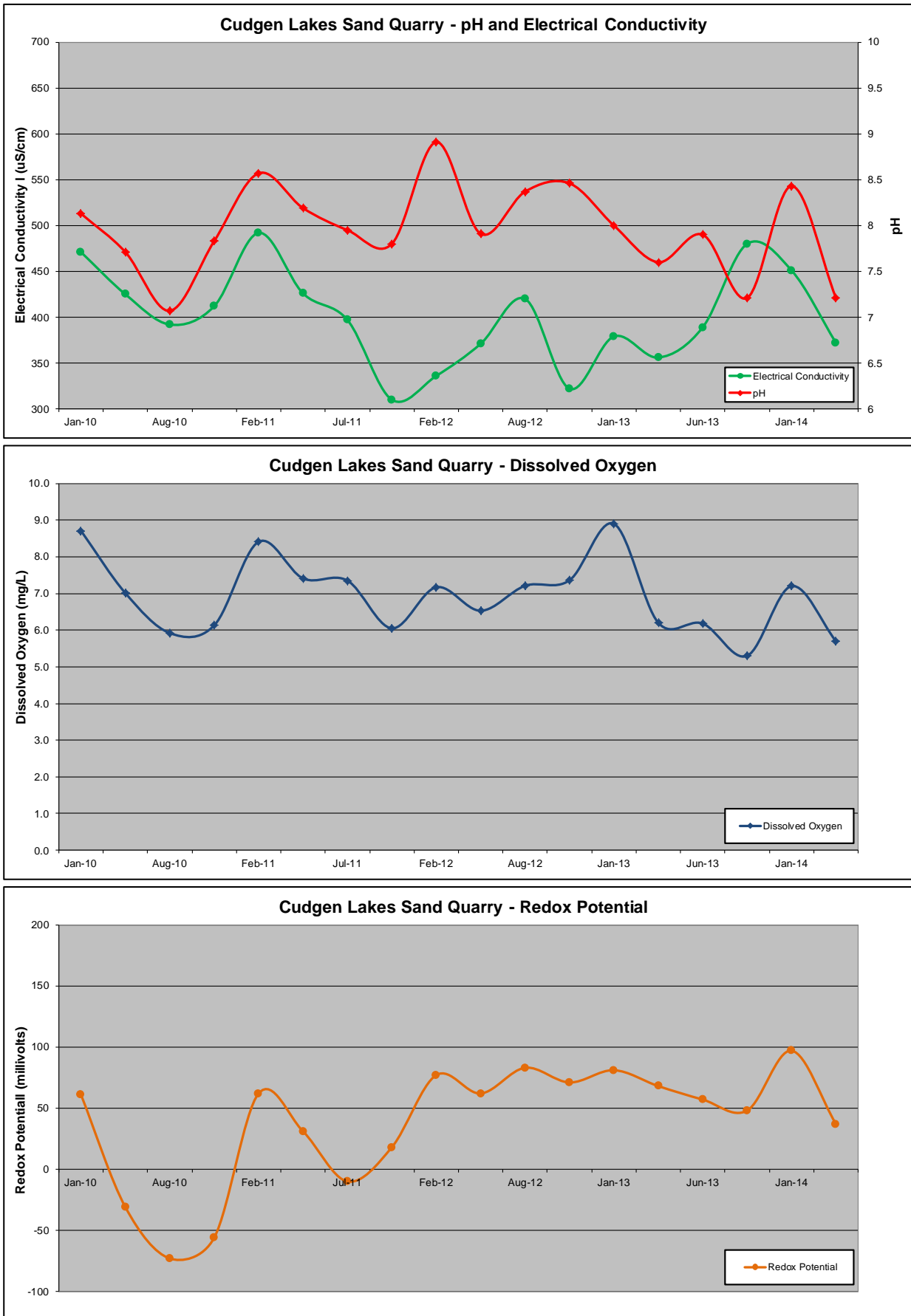


Figure 7.1 Water Quality Monitoring 2010 - 2014

8. REHABILITATION

8.1 REHABILITATION PERFORMANCE DURING THE REPORTING PERIOD

Figure 8.1 shows the status of disturbance and rehabilitation at the end of the reporting period whilst Table 8.1 provides a summary of the disturbance and rehabilitation areas.

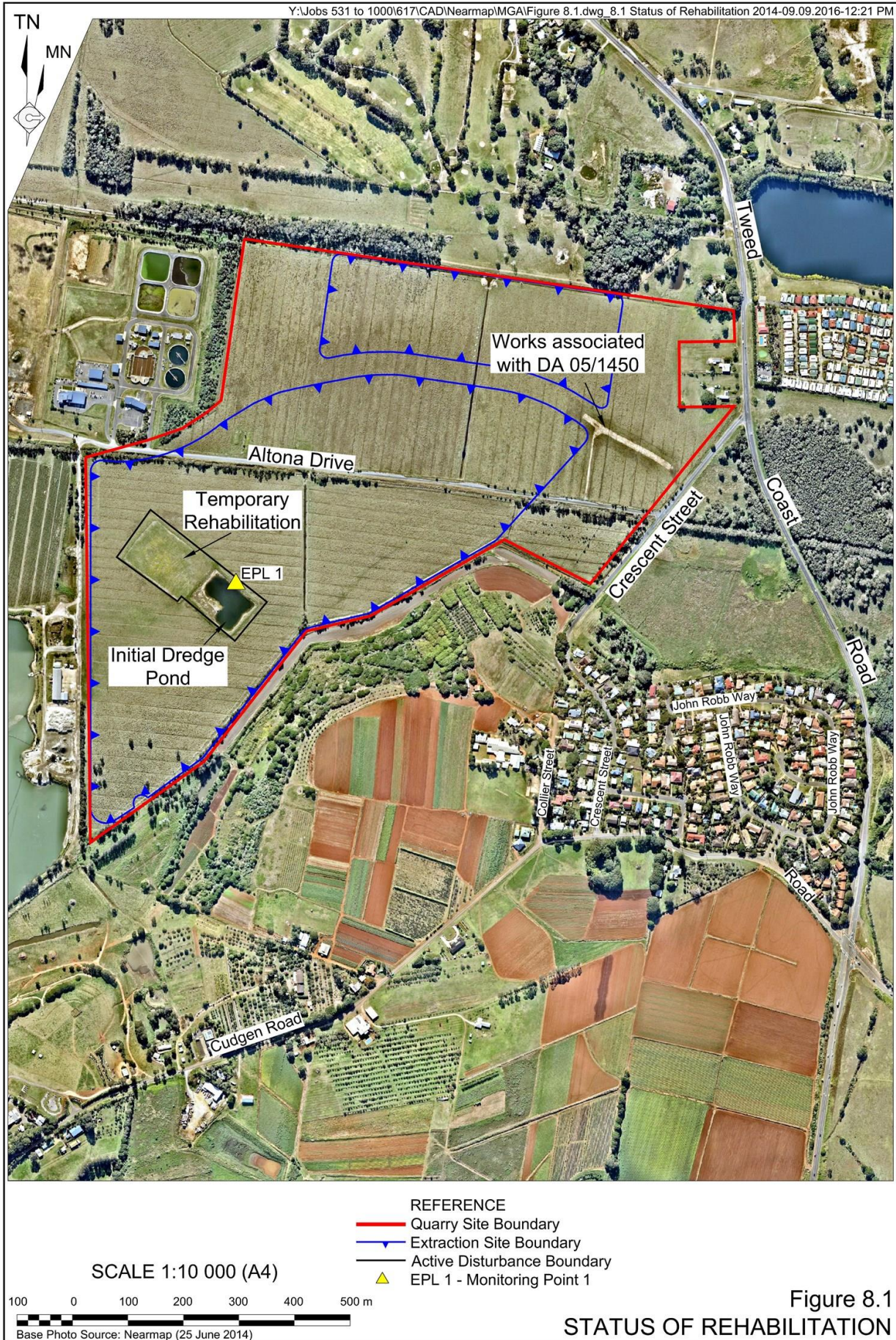
Table 8.1
Rehabilitation Summary

Quarry Area Type	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)
	Year 4 (ha)	Year 5 (ha)	Year 6 (ha)
Total Quarry footprint	2.5 ¹	2.5 ¹	2.5 ¹
Total active disturbance	2.5 ¹	2.5 ¹	2.5 ¹
Land being prepared for rehabilitation	0	0	0
Land under active rehabilitation	0	0	0
Completed rehabilitation	0	0	0
Notes:			
1. Relates to initial dredge pond and grassed sand stockpile completed during 2006 under DA 96/518 (now surrendered).			

Disturbance on site currently consists of the initial dredge pond and grassed (temporarily rehabilitated) sand stockpile completed under DA 96/518. No temporary or permanent rehabilitation activities were undertaken during the reporting period. A small area of disturbance is also present in relation to the physical commencement of DA 05/1450 for the realignment of Altona Drive. As these works are managed under separate approval, they are not further discussed in this report.

8.2 ACTIONS FOR THE NEXT REPORTING PERIOD

No specific rehabilitation actions or trials are planned for the next reporting period and no areas will become available for final rehabilitation.



9. COMMUNITY

No complaints were received during the reporting period and no complaints have been received in previous reporting periods.

No specific community engagement activities or actions occurred during the reporting period in relation to the Quarry.



10. INDEPENDENT AUDIT

No independent audit was undertaken during the reporting period. The first independent audit is required within 2 years of the commencement of quarrying operations. Quarry operations did not commence during the reporting period and are not planned to commence during the next reporting period.

11. INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

During the reporting period there were no:

- reportable incidents or exceedances; or
- official cautions, warning letters, penalty notices or prosecution proceedings.

A total of three non-compliances were recorded against Project Approval 05_0103 (see **Table 1.2**). Further detail relating to these non-compliances is provided as follows.

Condition 2(3) – Surrender Existing Approvals

The Company surrendered DA 96/518 to the (then) NSW Department of Planning & Infrastructure on 14/12/10 (i.e. within the required 18 months). However, the Department requested that the development consent be surrendered to Tweed Shire Council. Correspondence from Council dated 07/09/16 confirms that Council holds no record of the development consent being surrendered and the Company held no record. Therefore the Company also formally surrendered DA 96/518 to Council on 12/09/16.

Condition 5(5) – Submit AEMRs Annually from Date of Approval

The 2013/2014 Annual Review (this report) was not submitted within the required 12 month timeframe. The report was submitted 12/09/16 and was formatted to comply with the October 2015 *Annual Review Guideline*.

Condition 5(10) – Circulation / Website Publishing of Approved Plans / Reports

The approved 2009/2010 AEMR was circulated within the required timeframe, however, it was not placed on the Company website within 1 month of approval. The report has now been placed on the Company website. Copies of approved management plans have now also been provided to relevant government agencies.

12. ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

As discussed in Section 4.3, no land preparation, construction, quarry operations, rehabilitation activities or community engagement activities are planned during the next reporting period.

Quarterly water quality monitoring of the initial dredge pond will continue in accordance with EPL 12385.

No other specific measures are currently deemed necessary to improve environmental or community performance.

Appendices

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Appendix 1: Compliance Review



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Appendix 1

Compliance Review

Table A: Project Approval 05_0103

Table B: Statement of Commitments

Table C: Environment Protection Licence 12385

Table D: Water Licence 30BL179511

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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 5 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*																																		
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																																						
Cumulative Noise Criteria																																						
4.	<p>The Proponent shall take all reasonable and feasible measures to ensure that noise generated by the project combined with the noise generated by other industrial development does not exceed the following amenity criteria on any privately owned land, to the satisfaction of the Director-General:</p> <ul style="list-style-type: none"> • L_{Aeq} (11 hour) 50 dB(A) – Day; • L_{Aeq} (4 hour) 45 dB(A) – Evening; and • L_{Aeq}(9 hour) 40 dB(A) – Night. 	Not Yet Applicable	Operations have not yet commenced.	A, D																																		
Hours of Operation																																						
5.	<p>The Proponent shall comply with the operating hours in <i>Table 2</i>.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;"><i>Activity</i></th> <th style="text-align: center;"><i>Day</i></th> <th style="text-align: center;"><i>Time</i></th> </tr> </thead> <tbody> <tr> <td rowspan="3">Site establishment, sand or soil extraction by excavator, dry processing, product transport by road, VENM receipts, other quarry related activities, maintenance (if audible at neighbouring residences)</td> <td>Monday – Friday</td> <td>7:00am to 6:00pm</td> </tr> <tr> <td>Saturday</td> <td>7:00am to 1:00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td rowspan="3">Sand extraction by dredging and pumping to the processing plant, wet processing.</td> <td>Monday – Friday</td> <td>7:00am to 10:00pm</td> </tr> <tr> <td>Saturday</td> <td>7:00am to 4:00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td rowspan="3">Sand extraction by dredging and pumping to fill sites.</td> <td>Monday – Friday</td> <td>7:00am to 6:30pm</td> </tr> <tr> <td>Saturday</td> <td>7:00am to 1:00pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td rowspan="3">Operation of dredge to fill pipeline with water or pipeline flushing</td> <td>Monday – Friday</td> <td>6.30am to 7.00pm</td> </tr> <tr> <td>Saturday</td> <td>6.30am to 1.30pm</td> </tr> <tr> <td>Sunday and Public Holidays</td> <td>Nil</td> </tr> <tr> <td>Maintenance (if inaudible at neighbouring residences)</td> <td>Any day</td> <td>Any time</td> </tr> </tbody> </table> <p><i>Table 2: Operating Hours</i></p>	<i>Activity</i>	<i>Day</i>	<i>Time</i>	Site establishment, sand or soil extraction by excavator, dry processing, product transport by road, VENM receipts, other quarry related activities, maintenance (if audible at neighbouring residences)	Monday – Friday	7:00am to 6:00pm	Saturday	7:00am to 1:00pm	Sunday and Public Holidays	Nil	Sand extraction by dredging and pumping to the processing plant, wet processing.	Monday – Friday	7:00am to 10:00pm	Saturday	7:00am to 4:00pm	Sunday and Public Holidays	Nil	Sand extraction by dredging and pumping to fill sites.	Monday – Friday	7:00am to 6:30pm	Saturday	7:00am to 1:00pm	Sunday and Public Holidays	Nil	Operation of dredge to fill pipeline with water or pipeline flushing	Monday – Friday	6.30am to 7.00pm	Saturday	6.30am to 1.30pm	Sunday and Public Holidays	Nil	Maintenance (if inaudible at neighbouring residences)	Any day	Any time	Not Yet Applicable	Operations have not yet commenced.	A, D
<i>Activity</i>	<i>Day</i>	<i>Time</i>																																				
Site establishment, sand or soil extraction by excavator, dry processing, product transport by road, VENM receipts, other quarry related activities, maintenance (if audible at neighbouring residences)	Monday – Friday	7:00am to 6:00pm																																				
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Maintenance (if inaudible at neighbouring residences)	Any day	Any time																																				
Continuous Improvement																																						
6.	<p>The Proponent shall:</p> <ul style="list-style-type: none"> (a) implement all reasonable and feasible best practice noise mitigation measures; (b) investigate ways to reduce the noise generated by the project; and (c) report on these investigations and the implementation and effectiveness of these measures in the AEMR, to the satisfaction of the Director-General. 	Not Yet Applicable	Operations have not yet commenced.	A, D																																		

* D = Documentation sighted

A = Advised by Company

O = On-site Observation



Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 7 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
AIR QUALITY				
Impact Assessment Criteria (Cont'd)				
	<i>Note: Deposited dust is 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 Particulates - Deposited Matter - Gravimetric Method.</i>			
Dust Monitoring Program				
9.	The Proponent shall prepare and implement a Dust Monitoring Program for the project to the satisfaction of the Director-General. This program must: a) be submitted to the Director-General for approval prior to carrying out any development on the site; and b) include details of how the air quality performance of the project would be monitored, and include a protocol for evaluating compliance with the relevant air quality criteria in this approval.	Not Yet Applicable	Operations have not yet commenced and therefore plan has not yet been implemented. The Air Quality Monitoring Program was approved by the Department 14/05/14. Sections 3, 5 and 6 of the Air Quality Monitoring Program.	A, D
SOIL AND WATER				
Discharges				
10.	Except as may be expressly provided for by an EPL, the Proponent shall not discharge any water from the project or ancillary operational areas. The Proponent shall ensure that the extraction pits subject to sand excavation are maintained and operated to prevent discharges of any surface water.	Compliant	No discharges have occurred from the initial dredge pond created under former DA 96/518. No further extraction operations have occurred to date.	A
* D = Documentation sighted		A = Advised by Company		O = On-site Observation

Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*																																																												
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)																																																																
Water Quality Objectives																																																																
11.	The Proponent shall aim to meet the water quality objectives in <i>Table 6</i> for water in the dredge pond and in groundwater adjacent the dredge pond, unless otherwise approved by the Director-General.	Compliant	Whilst slight exceedance of one sample pH was recorded within the existing initial dredge pond, it is considered that the intent of the condition, 'aiming' to meet the objectives, has been met.	D																																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Pollutant</th> <th style="text-align: center;">Unit of Measure</th> <th style="text-align: center;">Water Quality Objectives</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">Turbidity</td><td style="text-align: center;">NTU</td><td style="text-align: center;">5 - 20</td></tr> <tr><td style="text-align: center;">pH</td><td style="text-align: center;">pH</td><td style="text-align: center;">6.5 – 8.5</td></tr> <tr><td style="text-align: center;">Oil and Grease</td><td style="text-align: center;">mg/L</td><td style="text-align: center;">10</td></tr> <tr><td style="text-align: center;">Salinity</td><td style="text-align: center;">µS/cm</td><td style="text-align: center;"><3,000</td></tr> <tr><td style="text-align: center;">Dissolved oxygen</td><td style="text-align: center;">mg/L</td><td style="text-align: center;">>6</td></tr> <tr><td style="text-align: center;">Chlorophyll-a</td><td style="text-align: center;">µg/L</td><td style="text-align: center;">2-10</td></tr> <tr><td style="text-align: center;">Faecal coliforms</td><td style="text-align: center;">Median No./100mL</td><td style="text-align: center;"><1000</td></tr> <tr><td style="text-align: center;">Enterococci</td><td style="text-align: center;">Median No./100mL</td><td style="text-align: center;"><230</td></tr> <tr><td style="text-align: center;">Algae and blue-green algae</td><td style="text-align: center;">No. of cells/mL (M.aeruginosa)</td><td style="text-align: center;"><50,000</td></tr> <tr><td></td><td style="text-align: center;">mm³/L (total biovolume)</td><td style="text-align: center;"><4</td></tr> <tr><td style="text-align: center;">Sodium</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><500</td></tr> <tr><td style="text-align: center;">Potassium ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><40</td></tr> <tr><td style="text-align: center;">Magnesium ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><100</td></tr> <tr><td style="text-align: center;">Chloride ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><1000</td></tr> <tr><td style="text-align: center;">Sulphate ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><800</td></tr> <tr><td style="text-align: center;">Bicarbonate ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><400</td></tr> <tr><td style="text-align: center;">Soluble Iron ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><20</td></tr> <tr><td style="text-align: center;">Soluble aluminium ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><0.5</td></tr> <tr><td style="text-align: center;">Ammonium ion</td><td style="text-align: center;">mg/L</td><td style="text-align: center;"><20</td></tr> </tbody> </table>					Pollutant	Unit of Measure	Water Quality Objectives	Turbidity	NTU	5 - 20	pH	pH	6.5 – 8.5	Oil and Grease	mg/L	10	Salinity	µS/cm	<3,000	Dissolved oxygen	mg/L	>6	Chlorophyll-a	µg/L	2-10	Faecal coliforms	Median No./100mL	<1000	Enterococci	Median No./100mL	<230	Algae and blue-green algae	No. of cells/mL (M.aeruginosa)	<50,000		mm ³ /L (total biovolume)	<4	Sodium	mg/L	<500	Potassium ion	mg/L	<40	Magnesium ion	mg/L	<100	Chloride ion	mg/L	<1000	Sulphate ion	mg/L	<800	Bicarbonate ion	mg/L	<400	Soluble Iron ion	mg/L	<20	Soluble aluminium ion	mg/L	<0.5	Ammonium ion	mg/L	<20
Pollutant	Unit of Measure	Water Quality Objectives																																																														
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<p><i>Table 6: Water Quality Objectives</i></p> <p>Notes:</p> <ul style="list-style-type: none"> The objectives for dissolved oxygen, turbidity and algae are relevant to surface water only. The Department acknowledges that short term exceedances of these objectives may occur during natural events such as heavy rainfall or flooding. The Department acknowledges that pre-existing water quality may not meet the objectives for some analytes, including salinity. The Proponent shall strive to meet the water quality objectives through implementation of the Soil and Water Management Plan (see condition 0 below), as far as is reasonable and feasible and within the Proponent's control, to the satisfaction of the Director-General. 																																																																
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 11 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
Management and Monitoring (Cont'd)				
21.	<p>The Erosion and Sediment Control Plan shall:</p> <p>a) be consistent with the relevant requirements of Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, 2004 (Landcom), and Council's codes including its Code of Practice for Soil and Water Management on Construction Sites, Development Design Specification D7 – Stormwater Quality and Tweed Urban Stormwater Quality Management Plan, except that should an inconsistency occur between these documents, the higher standard shall apply;</p> <p>b) identify activities that could cause soil erosion and generate sediment;</p> <p>c) describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters;</p> <p>d) describe the location, function, and capacity of erosion and sediment control structures; and</p> <p>e) describe what measures would be implemented to maintain these structures over time.</p>	Compliant	<p>Section 3.3 of SWMP.</p> <p>Section 3.3 of SWMP.</p> <p>Section 3.3 of SWMP.</p> <p>Section 3.3 of SWMP.</p> <p>Section 3.4 of SWMP.</p>	D
22.	<p>The Acid Sulfate Soil Management Plan shall:</p> <p>a) be consistent with the NSW Acid Sulphate Soil Advisory Committee's Acid Sulfate Soil Manual; and</p> <p>b) define procedures for managing the potential acid sulfate soils on the site, including sample testing and procedures.</p>	Compliant	<p>Section 4.1 of SWMP.</p> <p>Sections 4.3 and 4.4 of SWMP.</p>	D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 15 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
Landscape Management Plan (Cont'd)				
	<p>c) detailed performance and completion criteria for the rehabilitation and stabilisation of the site;</p> <p>d) consideration of outcomes if VENM material received for backfilling is less than optimum;</p> <p>e) a detailed description of how the performance of the rehabilitation of the site would be monitored over time to achieve the stated objectives;</p> <p>f) a detailed description of what measures would be implemented over the next 5 years to rehabilitate and manage the landscape of the site and revegetation areas including the procedures to be implemented for:</p> <ul style="list-style-type: none"> • progressively rehabilitating and stabilising areas disturbed by quarrying; • implementing revegetation and regeneration within the disturbance areas; • protecting areas outside the disturbance areas, including vegetation adjoining pipelines; • managing impacts on fauna, including measures to enable Wallum Froglet to cross the eastern pipeline; • controlling terrestrial and aquatic weeds and pests; • controlling access; and • reducing the visual impacts of the project; <p>g) a description of the potential risks to successful rehabilitation and/or revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and</p> <p>h) details of who is responsible for monitoring, reviewing, and implementing the plan.</p>		<p>Section 2.5 of the Landscape Management Plan.</p> <p>Section 2.4.6 of the Landscape Management Plan.</p> <p>Section 2.6 of the Landscape Management Plan.</p> <p>Sections 2.3 & 2.4 of the Landscape Management Plan.</p> <p>Section 2.7 of the Landscape Management Plan.</p> <p>Section 2.8 of the Landscape Management Plan.</p>	
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 17 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
Rehabilitation Bond (Cont'd)				
32.	<p>Within 6 months of each Independent Environmental Audit (see condition 6 of schedule 5) excluding the inaugural audit, unless the Director-General directs otherwise, the Proponent shall review, and if necessary revise, the sum of the rehabilitation bond to the satisfaction of the Director-General. This review must consider:</p> <p>a) the effects of inflation;</p> <p>b) any changes to the total area of disturbance; and</p> <p>c) the performance of the rehabilitation and revegetation to date.</p>	Not Yet Applicable	No independent audits have been completed to date.	A
ABORIGINAL CULTURAL HERITAGE				
Aboriginal Cultural Heritage Management Plan				
33.	<p>The Proponent shall prepare and implement an Aboriginal Cultural Heritage Management Plan to the satisfaction of the Director-General. This plan must:</p> <p>a) be prepared in consultation with the relevant Aboriginal communities;</p> <p>b) be submitted to the Director-General for approval prior to carrying out any development; and</p> <p>c) include a:</p> <ul style="list-style-type: none"> • description of the Aboriginal cultural heritage induction protocol for employees; • description of the process for Aboriginal inspection of excavations for the northern pipeline corridor; • description of the measures that would be implemented if any new Aboriginal objects or skeletal remains are discovered during the project either within or beyond the area of disturbance; and • description of the process for identifying a long-term storage location should Aboriginal relics be discovered within the project site requiring salvage. 	Not yet Applicable	<p>Operations have not yet commenced and therefore plan has not yet been implemented.</p> <p>Prepared in consultation with Tweed-Byron LALC (correspondence dated 01/03/11) and approved by the Department 14/05/14.</p> <p>Aboriginal Cultural Heritage Management Plan (ACHMP) submitted to DoP 09/02/11.</p> <p>Section 7 of the ACHMP.</p> <p>Section 8 of the ACHMP.</p> <p>Section 10 and Appendix 1 of the ACHMP.</p> <p>Section 12 of the ACHMP.</p>	A, D
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 18 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
TRAFFIC AND TRANSPORTATION				
Road Works				
34.	<p>Prior to despatch of sand by road, the Proponent shall:</p> <p>a) upgrade the intersection of Tweed Coast Road and Crescent Street for right turning vehicles to AUSTRROADS CHR treatment; and</p> <p>b) upgrade the intersection of Tweed Coast Road and Crescent Street for left turning vehicles to AUSTRROADS Figure 6.24 left turn treatment, to the satisfaction of Council.</p> <p><i>Note: In the event that the Tweed Coast Road is upgraded prior to the commencement of the despatch of sand by road, the Proponent shall pay \$105,000 (indexed annually by CPI) to Tweed Shire Council as a contribution to intersection works on Tweed Coast Road and Crescent Street for trucks entering onto Tweed Coast Road from Crescent Street.</i></p>	Not Yet Applicable	Product despatch has not yet commenced.	A
Road Haulage				
35.	<p>Trucks are not permitted to enter the site prior to 7.00am on any day.</p> <p><i>Note: This condition does not apply to delivery of material if that delivery is required by police or other authorities for safety reasons, and/or the operation or personnel or equipment are endangered. In such circumstances, notification is to be provided to DECC and the affected residents as soon as possible, or within a reasonable period in the case of emergency.</i></p>	Not Yet Applicable	Road haulage has not yet commenced.	A
36.	<p>The Proponent shall prepare and implement a Traffic Safety Plan for the project to the satisfaction of the Director-General. This plan must:</p> <p>a) be prepared in consultation with the RTA and Tweed Shire Council;</p> <p>b) include measures to minimise the risk to other road users from project-related vehicles on public roads during construction and operation, including vehicles proceeding across Altona Drive between the southern and northern parts of the site;</p> <p>c) prohibit trucks departing the site from turning right from Crescent Street to Tweed Coast Road; and</p> <p>d) be submitted to the Director-General prior to commencing construction work.</p>	Not Yet Applicable	Construction works have not yet commenced.	A
<p>* D = Documentation sighted A = Advised by Company O = On-site Observation</p>				

Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 19 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
Road Haulage (Cont'd)				
37.	Product and VENM trucks are not to utilise Altona Drive west of the site or Crescent Street south of Altona Drive, except for the purpose of delivery or collection local to those streets.	Not Yet Applicable	Product and VENM transportation has not yet commenced.	A
38.	The Proponent shall ensure that all loaded vehicles: a) entering or leaving the site have their loads covered; and b) leaving the site are cleaned of materials that may fall on the road before they are allowed to leave the site.	Not Yet Applicable	Product and VENM transportation has not yet commenced.	A
Parking				
39.	The Proponent shall provide sufficient parking on-site for all project-related traffic and visitors, in accordance with Council's parking codes and to the satisfaction of the Director-General. No on street parking shall be undertaken.	Not Yet Applicable	Operations have not yet commenced.	A, D
VISUAL IMPACT Visual Amenity				
40.	The Proponent shall minimise the visual impacts of the project to the satisfaction of the Director-General.	Not Yet Applicable	Operations have not yet commenced.	A
41.	The Proponent shall establish and subsequently maintain the vegetation screen around the extraction area within 12 months of the date of this approval. <i>Note: The vegetation screen shall be detailed in the Landscape Management Plan required under condition 28.</i>	Compliant	Vegetation screening was previously planted adjacent to Tweed Coast Road and Crescent Street, fencing installed to exclude cattle and slashing of grass undertaken within the fenced off area to assist tree growth.	A
Lighting Emissions				
42.	The Proponent shall: a) take all practicable measures to mitigate off-site lighting impacts from the project; and b) ensure that all external lighting associated with the project complies with <i>Australian Standard AS4282 (INT) 1995 – Control of Obtrusive Effects of Outdoor Lighting</i> , to the satisfaction of the Director-General.	Not Yet Applicable	Operations have not yet commenced.	A, D
Advertising				
43.	The Proponent shall not erect or display any advertising structure(s) or signs on the site without the written approval of the Director-General. <i>Note: This does not include business identification, traffic management and safety or environmental signs.</i>	Compliant	No advertising or signs have been erected within the Quarry Site.	A
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 20 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 3 ENVIRONMENTAL PERFORMANCE CONDITIONS (Cont'd)				
WASTE MANAGEMENT				
44.	The Proponent shall minimise the amount of waste generated by the project to the satisfaction of the Director-General.	Not Yet Applicable	Operations have not yet commenced.	A, D
EMERGENCY AND HAZARDS MANAGEMENT				
Dangerous Goods				
45.	The Proponent shall ensure that the storage, handling, and transport of dangerous goods are conducted in accordance with the relevant <i>Australian Standards</i> , particularly AS1940 and AS1596, and the <i>Dangerous Goods Code</i> .	Not Yet Applicable	No dangerous goods are currently stored or transported to the Quarry Site.	A
Safety				
46.	The Proponent shall secure the project to ensure public safety to the satisfaction of the Director-General.	Compliant	The boundary of the Quarry Site is currently fenced with agricultural fencing.	A
Bushfire Management				
47.	The Proponent shall: a) ensure that the project is suitably equipped to respond to any fires on-site; and b) assist the rural fire service and emergency services as much as possible if there is a fire on-site.	Not Yet Applicable	Operations have not yet commenced and no quarry infrastructure is present on-site.	A, D
PRODUCTION DATA				
48.	The Proponent shall: a) provide annual production data to the DPI using the standard form for that purpose; and b) include a copy of this data in the AEMR.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
SCHEDULE 4 ADDITIONAL PROCEDURES				
Notification of Landowners				
1.	If the results of monitoring required in Schedule 3 identify that impacts generated by the project are greater than the relevant impact assessment criteria, then the Proponent shall notify the Director-General, affected landowners, and/or existing or future tenants accordingly, and provide quarterly monitoring results to each of these parties until the results show that the project is complying with the relevant criteria.	Not Yet Applicable	Whilst slight exceedances of the dissolved oxygen objectives were recorded within the existing initial dredge pond, it is considered that the intent of the condition, 'aiming' to meet the objectives, has been met. No other monitoring or exceedance.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 21 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 4 ADDITIONAL PROCEDURES (Cont'd)				
Independent Review				
2.	<p>If a landowner considers that the project is exceeding the impact assessment criteria in Director-General in writing for an independent review of the impacts of the project on his/her land.</p> <p>If the Director-General is satisfied that an independent review is warranted, the Proponent shall within 3 months of the Director-General advising that an independent review is warranted:</p> <p>a) consult with the landowner to determine his/her concerns;</p> <p>b) commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General to conduct monitoring on the land, to determine whether the project is complying with the relevant criteria in schedule 3, and identify the source(s) and scale of any impact on the land, and the project's contribution to this impact; and</p> <p>c) give the Director-General and landowner a copy of the independent review.</p>	Not Yet Applicable	Request for independent review has not been received to date.	A
3.	<p>If the independent review determines that the project is complying with the relevant criteria in schedule 3, then the Proponent may discontinue the independent review with the approval of the Director-General.</p>	Not Yet Applicable	Request for independent review has not been received to date.	A
4.	<p>If the independent review determines that the project is not complying with the relevant criteria in schedule 3, and that the project is primarily responsible for this non-compliance, then the Proponent shall:</p> <p>a) implement all reasonable and feasible measures, in consultation with the landowner, to ensure that the project complies with the relevant criteria; and</p> <p>b) conduct further monitoring to determine whether these measures ensure compliance; or</p> <p>c) secure a written agreement with the landowner to allow exceedances of the relevant criteria in schedule 3, to the satisfaction of the Director-General.</p>	Not Yet Applicable	Request for independent review has not been received to date.	A
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 22 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 4 ADDITIONAL PROCEDURES (Cont'd)				
Independent Review (Cont'd)				
	If the additional monitoring referred to above subsequently determines that the project is complying with the relevant criteria in schedule 3, or the Proponent and landowner enter into a negotiated agreement to allow these exceedances, then the Proponent may discontinue the independent review with the approval of the Director-General.			
5.	<p>If the landowner disputes the results of the independent review, either the Proponent or the landowner may refer the matter to the Director-General for resolution.</p> <p>If the matter cannot be resolved within 21 days, the Director-General shall refer the matter to an Independent Dispute Resolution Process (see Appendix 4).</p>	Not Yet Applicable	Request for independent review has not been received to date.	A
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS				
Environmental Management Strategy				
1.	<p>The Proponent shall prepare and implement an Environmental Management Strategy for the project to the satisfaction of the Director-General. This strategy must:</p> <p>a) be submitted to the Director-General prior to starting quarrying operations on the site;</p> <p>b) provide the strategic context for environmental management of the project;</p> <p>c) identify the statutory requirements that apply to the project;</p> <p>d) describe in general how the environmental performance of the project would be monitored and managed;</p> <p>e) describe the procedures that would be implemented to:</p> <ul style="list-style-type: none"> • keep the local community and relevant agencies informed about the construction, operation and environmental performance of the project; • receive, handle, respond to, and record complaints; • resolve any disputes that may arise during the life of the project; • respond to any non-compliance; 	Not Yet Applicable	<p>Quarrying operations have not yet commenced .</p> <p>The revised Environmental Management Strategy (EMS) was approved 14/05/14.</p> <p>Section 1.2 of the EMS.</p> <p>Section 3.0 of the EMS.</p> <p>Section 5.0 of the EMS.</p> <p>Section 6.1 of the EMS.</p> <p>Section 6.2 of the EMS.</p> <p>Section 6.3 of the EMS.</p> <p>Section 7.0 of the EMS.</p>	A, D
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS (Cont'd)				
Annual Reporting				
5.	<p>Within 12 months of the date of this approval, and annually thereafter, the Proponent shall submit an AEMR to the Director-General and relevant agencies including Council. This report must:</p> <ul style="list-style-type: none"> a) identify the standards and performance measures that apply to the project; b) describe the works carried out in the last 12 months; c) describe the works that will be carried out in the next 12 months; d) include a summary of the complaints received during the past year, and compare this to the complaints received in previous years; e) include a summary of the monitoring results for the project during the past year; f) include an analysis of these monitoring results against the relevant: <ul style="list-style-type: none"> • impact assessment criteria/limits; • monitoring results from previous years; and • predictions in the EA; g) identify any trends in the monitoring results over the life of the project; h) identify any non-compliance during the previous year; i) describe what actions were, or are being, taken to ensure compliance; and j) list the sources of VENM material received at the site and the tonnage of materials received from each source during the period to which the AEMR refers. 	Administrative Non-Compliance	<p>The first AEMR was submitted 15/06/10 (i.e. within 12 months of this approval 16/06/09). This AEMR was accepted by DP&I on 28/06/10.</p> <p>The 2013/2014 Annual Review was submitted 12/09/16, i.e. exceeding the annual requirement. Notably, no operations were undertaken during that Annual Review period.</p>	D
<p>* D = Documentation sighted A = Advised by Company O = On-site Observation</p>				



**Table A (Cont'd)
Compliance Review – Project Approval 05_0103**

Page 25 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS (Cont'd)				
Independent Environmental Audit				
6.	<p>Within 2 years of the start of quarrying operations on site, and every 5 years thereafter, unless the Director-General directs otherwise, the Proponent shall commission and pay the full cost of an Independent Environmental Audit of the project. This audit must:</p> <p>a) be conducted by a suitably qualified, experienced, and independent person(s) whose appointment has been approved by the Director-General;</p> <p>b) include consultation with the relevant agencies;</p> <p>c) assess the environmental performance of the project, and its effects on the surrounding environment;</p> <p>d) assess whether the project is complying with the relevant standards, performance measures and statutory requirements;</p> <p>e) review the adequacy of any strategy/plan/program required under this approval; and, if necessary,</p> <p>f) recommend measures or actions to improve the environmental performance of the project, and/or any strategy/plan/program required under this approval.</p>	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
7.	Within 1 month of completion of each Independent Environmental Audit, the Proponent shall submit a copy of the audit report to the Director-General and relevant agencies, with a response to all of the recommendations in the audit report.	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
8.	Following each Independent Environmental Audit, the Proponent shall review and if necessary revise each of the environmental management and monitoring strategies/plans/programs in schedules 3 and 5, to the satisfaction of the Director-General. The revised strategies/plans/programs shall be submitted to the Director-General within 6 months of completing the audit.	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
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Table A (Cont'd)
Compliance Review – Project Approval 05_0103

Page 26 of 26

Cond. No.	Conditional Requirement	Compliance	Comments	Basis*
SCHEDULE 5 ENVIRONMENTAL MANAGEMENT AND MONITORING CONDITIONS (Cont'd)				
Community Consultative Committee				
9.	<p>Prior to starting quarrying operations on the site, the Proponent shall establish a CCC for the project. This CCC must be established and operated in accordance with the <i>Guideline for Establishing and Operating Community Consultative Committees for Mining Developments</i>, and to the satisfaction of the Director-General.</p> <p><i>Note: With the approval of the Director-General, the Proponent may combine the CCC with the CCC for the Hanson Tweed sand extraction operation.</i></p>	Not Yet Applicable	Quarrying operations have not yet commenced.	A, D
Access to Information				
10.	<p>Within 1 month of the approval of any plan/strategy/program required under this approval (or any subsequent revision of these plans/strategies/programs), or the completion of any independent environmental audit or AEMR the Proponent shall:</p> <p>a) provide a copy of the relevant document/s to Council and relevant agencies; and</p> <p>b) ensure that a copy of the relevant document/s is made publicly available on site and/or at the Proponent's regional office and on the Proponent's website, to the satisfaction of the Director-General.</p>	Administrative Non-Compliance	<p>The approved 2009/2010 AEMR was not made available on the Company website within 1 month of approval.</p> <p>A copy was subsequently uploaded.</p> <p>Copies of the approved management plans have been placed on the Company website. Copies of the approved plans have also been provided to relevant government agencies, however, not within the 1 month timeframe.</p>	D
11.	<p>During the project, the Proponent shall:</p> <p>a) make a summary of monitoring results required under this approval publicly available at the Proponent's regional office and on the Proponent's website; and</p> <p>b) update these results regularly (at least every 3 months), to the satisfaction of the Director-General.</p>	Not Yet Applicable	<p>Monitoring as outlined within Schedule 3 has not yet commenced.</p> <p>It is noted that quarterly water quality monitoring undertaken in accordance with EPL 12385 is updated annually on the Company website.</p>	A
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B
Compliance Review – Statement of Commitments (SoC)

Page 1 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Area of Activities				
1.1	Survey and mark the boundaries of the areas of disturbance.	See Table A Schedule 3 Condition 1		
Sand Extraction and Processing				
2.1	Ensure extraction batters for all long-term boundaries are formed no steeper than 1:5 (V:H).	Not Yet Applicable	Extraction has not yet commenced	A, D
2.2	Ensure the extraction rate is contained to limit initial drawdown levels (see Commitments 7.1 and 7.3).	Not Yet Applicable	Extraction has not yet commenced	A, D
2.3	Ensure total extraction rates do not exceed 650 000m ³ per year.	See Table A Schedule 2 Condition 6		
2.4	Ensure no more than 200 000m ³ (300,000 tonnes) of sand is processed per year.	See Table A Schedule 2 Condition 7		
Operating Hours				
3.1	Undertake all site establishment activities between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.2	Undertake all sand extraction (dredging to processing area) and processing between 7:00am and 10:00pm Monday to Friday and 7:00am to 4:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.3	Undertake all sand extraction (dredging to fill sites) between 7:00am to 6:30pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.4	Undertake all soil removal and sand extraction (excavation) between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.5	Undertake all product distribution and VENM receipt between 7:00am and 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.6	Undertake audible site maintenance between 7:00am to 6:00pm Monday to Friday and 7:00am to 1:00pm Saturdays.	See Table A Schedule 3 Condition 5		
3.7	Undertake inaudible site maintenance at any time.	See Table A Schedule 3 Condition 5		
Waste Management				
4.1	Dispose all recyclables and general waste in appropriate waste receptacles.	Not Yet Applicable	Operations have not yet commenced and no wastes have been generated.	A, D
4.2	Place all oversize materials within the VENM(a) receival area.	Not Yet Applicable	Operations have not yet commenced.	A, D
4.3	Intern any oversize materials suspected of being acid generating to settle beneath at least 8m of water.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B (Cont'd)
Compliance Review – Statement of Commitments

Page 2 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Rehabilitation				
5.1	Progressively backfill the northern extraction pond to the natural ground level.	Not Yet Applicable	Operations have not yet commenced.	A, D
5.2	Progressively backfill selected finalised sections of the southern extraction pond to create wetland areas.	Not Yet Applicable	Operations have not yet commenced.	A, D
5.3	Stabilise all earthworks and disturbed areas no longer required for Project-related activities in order to minimise erosion and sedimentation, dust lift-off and to reduce visual intrusion.	Not Yet Applicable	Operations have not yet commenced.	A, D
5.4	Conduct ongoing annual rehabilitation monitoring and maintenance.	Not Yet Applicable	Operations have not yet commenced.	A, D
5.5	Cross-rip all unsealed roads and remove all buildings and structures not required for the final land use.	Not Yet Applicable	Operations have not yet commenced.	A, D
5.6	Prepare a Rehabilitation Management Plan.	See Table A Schedule 3 Condition 29.		
Flooding and Drainage				
6.1	Construct and maintain shallow spillways (approximate elevation 1.3m AHD) within the bunds surrounding the extraction ponds at the eastern and western extent of the bunding adjacent the deepest part of the extraction pond.	Not Yet Applicable	Operations have not yet commenced.	A, D
6.2	Remove sections of bunding once floodwaters have peaked to allow floodwaters trapped behind the bunds to drain freely to the western drainage channel as the flood recedes.	Not Yet Applicable	Operations have not yet commenced.	A, D
6.3	Fill the processing area approximately 0.75m to 1.0m above natural ground level (1.55m AHD to 1.8m AHD) to prevent inundation of the processing area during local catchment floods.	Not Yet Applicable	Operations have not yet commenced.	A, D
6.4	Block the entrance to the processing area with sand relocated from on-site stockpiles prior to a forecast Tweed River overbank flood to reduce the level of inundation within the processing area.	Not Yet Applicable	Operations have not yet commenced	A, D
6.5	Maintain drainage paths outside of the bunded and filled areas to allow floodwaters to drain freely.	Not Yet Applicable	Operations have not yet commenced.	A, D
6.6	Prepare a flood evacuation plan to ensure that personnel respond appropriately to a warning of an imminent Tweed River overbank flood.	Not Yet Applicable	Operations have not yet commenced.	A, D
6.7	Realign the western drainage channel parallel to and south of Altona Drive to provide a more efficient drain and allow faster drainage of floodwaters towards the Tweed River.	Not Yet Applicable	Altona Drive has not yet been realigned.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

**Table B (Cont'd)
Compliance Review – Statement of Commitments**

Page 3 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Groundwater				
7.1	Commence extraction within the southern extraction pond at an equivalent rate of 100 000m ³ per year and progressively ramp up in increments of up to 100 000m ³ .	Not Yet Applicable	Operations have not yet commenced.	A, D
7.2	Ensure the maximum extraction rate within the southern extraction pond does not exceed 450 000m ³ per year during the first two years of operations or until a sufficient size extraction pond is created to allow extraction at a rate of 650 000m ³ per year.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.3	Adjust sand extraction rates to ensure that groundwater drawdown levels remain within the predicted limits.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.4	Install a height gauge within the Southern Extraction Pond so that water levels can be monitored daily to m AHD.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.5	Undertake standard monitoring for pH, EC, temperature, REDOX potential and groundwater level (m AHD) at the monitoring locations nominated in the Groundwater Monitoring Plan.	Not Yet Applicable	Operations have not yet commenced. A Groundwater Monitoring Plan has been included in the SWMP.	A, D
7.6	Undertake comprehensive monitoring for pH, EC, temperature, REDOX potential, groundwater level (m AHD), dissolved oxygen, calcium, magnesium, sodium, potassium, bicarbonate, sulfate, chloride, filterable iron, aluminium and arsenic. Monitoring will be undertaken by a suitably qualified or trained person at the monitoring locations nominated in the Groundwater Monitoring Plan and analysis undertaken at a NATA accredited laboratory.	Not Yet Applicable	Operations have not yet commenced. A Groundwater Monitoring Plan has been included in the SWMP.	A, D
7.7	Continue groundwater monitoring following the cessation of extraction and placement of VENM.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.8	Regularly review monitoring data.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.9	Provide a summary of the monthly / quarterly data relevant to each bore to the respective landowners.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.10	Compile an annual summary of all monitoring results and forward to DWE as part of the annual return for the site.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.11	Coordinate all monitoring activities with those already underway by Hanson Construction Materials and Australian Bay Lobster to ensure meaningful analyses can be obtained from all monitoring on the flood plain.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.12	Consult with each likely affected landowner and investigate complaints of poor water quality in neighbouring dams/bores.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.13	<p>Undertake a more detailed sampling and analysis program to identify the source of the drawdown or contamination in the event the following is detected.</p> <ul style="list-style-type: none"> • Deterioration in groundwater quality outside of the effects of drought or flood due to on-site activities. • Significant variations in groundwater level outside drought or flood conditions due to on-site activities. • Formation of a cone of depression or a groundwater mound that extends beyond the site boundary. 	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B (Cont'd)
Compliance Review – Statement of Commitments

Page 4 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Groundwater (Cont'd)				
7.14	Negotiate an agreement with each affected landholder in the event water quality or quantity is adversely affected to either: <ul style="list-style-type: none"> • deepen the existing bore or install a replacement bore; • pay a cash compensation equal to the assessed cost of deepening the bore; • provide an alternative water supply, such as from the extraction ponds or groundwater bore registered to the Proponent; or • provide an appropriately sized rainwater storage tank to enhance property water storage. 	Not Yet Applicable	Operations have not yet commenced.	A, D
7.15	Investigate and secure a suitable alternative water supply (or other form of compensation) for R.W. Julius commensurate with the agreed legal water usage from groundwater supplies from Lot 1 DP598073.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.16	Monitor, using data loggers, water levels and water usage rates within the dams on the R. Julius property that would potentially be affected.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.17	Implement the provision of an alternative water supply or other agreed compensation.	Not Yet Applicable	Operations have not yet commenced.	A, D
7.18	Provide copies of any negotiated agreements to the Department of Planning and Department of Water and Energy for their records.	Not Yet Applicable	Operations have not yet commenced.	A, D
Surface Water				
8.1	Reduce sand extraction and temporarily cease VENM placement if a significant deterioration in extraction pond water quality occurs, until the source is identified and appropriate amelioration measures are implemented.	Not Yet Applicable	Operations have not yet commenced.	A, D
8.2	Regularly monitor surface water to provide an accurate assessment of the adequacy of practices implemented as part of the operation.	Not Yet Applicable	Operations have not yet commenced.	A, D
Acid Sulfate Soils and Sediments, Soil Contamination and Agricultural Suitability				
9.1	Convey return water (from both the wash plant and fill sites) in a manner which ensures fines / silts remain in suspension and do not settle in the return pipelines. If a pipeline is not used, undertake sluicing in a manner that ensures turbulent flow and sufficient velocity to prevent the deposition of fines material within the drainage line.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.2	Return all separated fines to the extraction ponds for final placement with the return outlet located at a minimum 3m below the water surface within the extraction ponds.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.3	Settle silts/fines arising from processing a minimum depth (typically 8m) below the surface of the southern extraction pond.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B (Cont'd)
Compliance Review – Statement of Commitments

SoC No.	Commitment	Compliance	Comments	Basis*
Acid Sulfate Soils and Sediments, Soil Contamination and Agricultural Suitability (Cont'd)				
9.4	Do not extract residual clay material from the base of the sand resource.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.5	Ensure a suitably qualified or trained person assesses imported material (VENM) in accordance with the ASSMAC guidelines and confirms its classification as VENM prior to acceptance at the Project Site.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.6	Place VENM(b), received at the premises which is intended to be: <ul style="list-style-type: none"> dredged or interned within the southern extraction pond to settle at a minimum of 8m below the surface water; or placed within the northern extraction area a minimum depth of -2.0m AHD; within a nominated period.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.7	Compile a site specific Acid Sulfate Soil and Sediment Management Plan for the Project in accordance with relevant legislation and in consultation with government agencies, in particular DWE and DECC. Ensure the management plan covers both the management of acid generation during extraction operations and the management of potentially acid generating VENM(b).	See Table A Schedule 3 Condition 22		
9.8	Retain records of monitoring on site together with the application rates of the alkaline amendment used as neutralising agents. Provide these records to statutory authorities upon request.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.9	Obtain documentation for each truck load of VENM(b) received at the Project Site that demonstrates that the excavation of VENM(b) and its transport and handling has been conducted in accordance with the NSW ASS Manual to prevent the generation of acid.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.10	Submit to the DECC(EPA) an annual return (in accordance with the issued Environment Protection Licence) which outlines the results of all required monitoring.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.11	Retain documentation for each truck load of VENM(b) received at the site which indicates: <ul style="list-style-type: none"> the details of the originating site (name, address, owner and developer, contact details); the details of the transportee (name, address, contact details, vehicle registration); date and time of the extraction of the VENM(b); pH of the VENM(b) at the time of its extraction, and at the time immediately prior to its placement underwater; and the name of the person (certified practicing soil scientist) who assessed the material and classified it as VENM(b). 	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B (Cont'd)
Compliance Review – Statement of Commitments

SoC No.	Commitment	Compliance	Comments	Basis*
Acid Sulfate Soils and Sediments, Soil Contamination and Agricultural Suitability (Cont'd)				
9.12	Ensure verification of neutralising agent application volumes and verification results are available.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.13	Treat stripped topsoil/loam at determined rates prior to use in earth bunds or rehabilitation.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.14	Treat and validate washed sand where required.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.15	Collect and analyse soil samples at a rate of 4 per hectare.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.16	Incorporate an alkaline amendment into the topsoil / loam at the calculated rate (based on the results of sampling).	Not Yet Applicable	Operations have not yet commenced.	A, D
9.17	Complete the validation sampling of treated soil at a rate one sample per 1 000m ³ .	Not Yet Applicable	Operations have not yet commenced.	A, D
9.18	Construct bunding around the extraction and processing areas to control drainage.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.19	Ensure all surface water and runoff from the extraction and processing areas drains or is pumped into the extraction ponds.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.20	Process extracted material via a hydrocyclone (such as would be used within the wash plant) or similar to hydraulically separate the fines (potentially containing pyrite) from the sand resource (except when material has been treated to ameliorate acid potential).	Not Yet Applicable	Operations have not yet commenced.	A, D
9.21	Treat all material not processed using a hydrocyclone or similar with alkaline amendments.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.22	Undertake validation testing of extracted sand and stripped topsoil/loam as described in Table 4.9 of the Environmental Assessment and in accordance with the NSW ASS Manual (ASSMAC, 1998) and amended laboratory methods.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.23	Audit the effectiveness of the operational safeguards and monitoring by an external environmental consultant.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.24	Test the pH of the water into which the VENM(b) is placed to ensure it is not less than 6.5 at any time.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.25	Undertake monitoring as outlined in Table 4.10 of the Environmental Assessment in relation to VENM(b) receipt and processing / internment.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.26	Test the pH of the VENM(b) immediately prior to under-water disposal / backfilling to ensure the pH is not less than 5.5.	Not Yet Applicable	Operations have not yet commenced.	A, D
9.27	Undertake internal environmental audits of VENM(b) receipt and treatment during the initial stages of the operation to ensure appropriate treatment is being conducted and records are up to date.	Not Yet Applicable	Operations have not yet commenced.	A, D

* D = Documentation sighted
 A = Advised by Company
 O = On-site Observation



Table B (Cont'd)
Compliance Review – Statement of Commitments

Page 10 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Noise				
13.1	Acoustically treat the dredge including the enclosure of the engine with acoustic louvres and install a high performance muffler.	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
13.2	Undertake a series of tests prior to commissioning the sand processing plant to ensure compliance with the noise limits at all locations and confirm that the equipment to be used on the Project Site have sound power levels comparable to those used within the noise modelling assessment.	Not Yet Applicable	Processing operations have not yet commenced.	A, D
13.3	Install an acoustic fence on the processing area bund (see Figure 2.6) to increase the height of the noise barrier on the southern side of the processing area.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.4	Enclose the noisier components of the equipment to promote noise reduction of the plant.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.5	Fit all mobile vehicles on the site with broadband type reversing beepers or alternative safety devices such as strobe lights and / or cameras.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.6	Regularly service all equipment on site to ensure sound power levels of each item remains at or below that nominated for noise modelling purposes.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.7	Maintain the internal road network to an acceptable standard to limit body noise from empty trucks.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.8	Strictly adhere to all approved hours of operation.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.9	Undertake a program of noise monitoring to confirm that noise emission levels from the site establishment and construction period are within acceptable limits at the surrounding assessment locations.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.10	Undertake an ongoing monitoring program to demonstrate that noise emissions from the Project Site are within the Project specific noise limits at the surrounding assessment locations.	Not Yet Applicable	Operations have not yet commenced.	A, D
13.11	Regularly review the extent of noise monitoring throughout the life of the Project to ensure meaningful data is being collected.	Not Yet Applicable	Operations have not yet commenced.	A, D
Air Quality				
14.1	Install water sprays to control dusts generated during screening and dry processing.	Not Yet Applicable	Processing operations have not yet commenced.	A, D
14.2	Undertake progressive rehabilitation / stabilisation of available areas of disturbance (e.g. finalised sections or backfilled areas of the extraction ponds).	Not Yet Applicable	Extraction operations have not yet commenced.	A, D
14.3	Clean accumulated tracked road mud, dry dusts, sand or spillages on Altona Drive using a street sweeper.	Not Yet Applicable	Transport operations have not yet commenced.	A
14.4	Cover product trucks loads to prevent wind-borne losses and spillages.	Not Yet Applicable	Transport operations have not yet commenced.	A
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table B (Cont'd)
Compliance Review – Statement of Commitments

Page 12 of 12

SoC No.	Commitment	Compliance	Comments	Basis*
Visibility (Cont'd)				
16.4	Maintain the Project Site in a clean and tidy condition at all times.	Compliant	Quarry Site, although not operational, is maintained in a clean and tidy condition.	A
16.5	Implement air quality controls (see Commitment No. 14).	See Table B Commitment No. 14		
16.6	Position and direct floodlights or other lighting to minimise light emissions, with lighting not required at any given time not used.	Not Yet Applicable	Operations have not yet commenced.	A, D
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table C
Compliance Review – Environmental Protection Licence 12385

Cond. No.	Commitment	Compliance	Comments	Basis*						
1. Administrative Controls										
A1 What the licence authorises and regulates										
A1.1	<p>This licence authorises the carrying out of the scheduled development work listed below at the premises listed in A2:</p> <p>Consent to remove 400 000 cubic metres of sand over a 7ha area and hydraulic transportation to a fill site used for development.</p>	Compliant	No other scheduled development works undertaken during the reporting period.	A						
A1.2	<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 border="1" data-bbox="308 913 898 1048"> <thead> <tr> <th data-bbox="308 913 472 981">Scheduled Activity</th> <th data-bbox="472 913 719 981">Fee Based Activity</th> <th data-bbox="719 913 898 981">Scale</th> </tr> </thead> <tbody> <tr> <td data-bbox="308 981 472 1048">Extractive Activities</td> <td data-bbox="472 981 719 1048">Water-based extractive activity</td> <td data-bbox="719 981 898 1048">0 - 30000 m3 extracted</td> </tr> </tbody> </table>	Scheduled Activity	Fee Based Activity	Scale	Extractive Activities	Water-based extractive activity	0 - 30000 m3 extracted	Compliant	No extraction occurred during the reporting period (i.e. extraction did not exceed the licenced scale).	A, D
Scheduled Activity	Fee Based Activity	Scale								
Extractive Activities	Water-based extractive activity	0 - 30000 m3 extracted								
A1.3	The licensee must not carry on any scheduled activities until the scheduled development works are completed, except as elsewhere provided in this licence.	Compliant	No scheduled activities were undertaken during the reporting period.	A						
A2 Premises or plant to which this licence applies										
A2.1	<p>The licence applies to the following premises:</p> <table border="1" data-bbox="308 1223 898 1451"> <thead> <tr> <th data-bbox="308 1223 898 1256">Premises Details</th> </tr> </thead> <tbody> <tr> <td data-bbox="308 1256 898 1290">CUDGEN LAKES</td> </tr> <tr> <td data-bbox="308 1290 898 1323">CRESCENT STREET</td> </tr> <tr> <td data-bbox="308 1323 898 1357">CUDGEN</td> </tr> <tr> <td data-bbox="308 1357 898 1391">NSW 2487</td> </tr> <tr> <td data-bbox="308 1391 898 1451">LOT 2 DP 216705, LOT 1 DP 828298, LOT 2 DP 828298</td> </tr> </tbody> </table>	Premises Details	CUDGEN LAKES	CRESCENT STREET	CUDGEN	NSW 2487	LOT 2 DP 216705, LOT 1 DP 828298, LOT 2 DP 828298	Noted	-	-
Premises Details										
CUDGEN LAKES										
CRESCENT STREET										
CUDGEN										
NSW 2487										
LOT 2 DP 216705, LOT 1 DP 828298, LOT 2 DP 828298										
A3 Information supplied to the EPA										
A3.1	<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>c) 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>d) the licence information form provided by the licensee to the EPA to assist the EPA in connection with the issuing of this licence.</p>	Compliant	No operations were undertaken during the reporting period (and therefore no inconsistencies have arisen).	A, D						
<p>* D = Documentation sighted A = Advised by Company O = On-site Observation</p>										



Table C (Cont'd)
Compliance Review – Environmental Protection Licence 12385

Cond. No.	Commitment	Compliance	Comments	Basis*								
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 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.	Noted	-	-								
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. Water and Land	Noted	Monitoring undertaken at this point.	D								
	<table border="1"> <thead> <tr> <th>EPA Id. No.</th> <th>Type of Monitoring Point</th> <th>Type of Discharge Point</th> <th>Location Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Water Quality Monitoring</td> <td></td> <td>Dredge Pond</td> </tr> </tbody> </table>				EPA Id. No.	Type of Monitoring Point	Type of Discharge Point	Location Description	1	Water Quality Monitoring		Dredge Pond
	EPA Id. No.				Type of Monitoring Point	Type of Discharge Point	Location Description					
1	Water Quality Monitoring		Dredge Pond									
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.	Compliant	No pollution of waters is deemed to have occurred during the reporting period.	A, D								
L2 Noise limits												
L2.1	Noise from the dredge pond must not exceed an LAeq(15 minute) noise emission criterion of 46 dB(A) during 7am to 5pm Monday to Friday and 7am to 1pm on Saturdays. Where LAeq means the equivalent continuous noise level – the level of noise equivalent to the energy-average of noise levels occurring over a measurement period, except as expressly provided by this licence.	Compliant	As no operational activities occurred during the reporting period, no exceedance of noise criterion will have occurred.	A, D								
L2.2	Noise from the premises is to be measured at the nearest noise sensitive receiver to determine compliance with this condition. Note: Noise generated from the fill site must be managed according to the licensee's Construction Noise Management Plan (Ron Rumble Pty Ltd, October 2005).	Not Applicable	As no operational activities occurred during the reporting period, no noise monitoring was required.	A, D								
L3 Hours of operation												
L3.1	Activities covered by this licence must only be carried out between the hours of 0700 and 1800 Monday to Friday, and 0700 and 1300 Saturday, and at no time on Sundays and Public Holidays.	Compliant	No licenced activities occurred (within or outside of the approved hours).	A								
* D = Documentation sighted A = Advised by Company O = On-site Observation												

Table C (Cont'd)
Compliance Review – Environmental Protection Licence 12385

Page 4 of 8

Cond. No.	Commitment	Compliance	Comments	Basis*
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.	Compliant	The monitoring records have been retained as required.	D
M1.2	All records required to be kept by this licence must be: a) in a legible form, or in a form that can readily be reduced to a legible form; b) kept for at least 4 years after the monitoring or event to which they relate took place; and c) produced in a legible form to any authorised officer of the EPA who asks to see them.	Compliant	Monitoring has been retained in a legible form for more than 4 years. No requests from an EPA officer were received.	A, D
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.	Compliant	Monitoring records contain all required information.	D
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:	Compliant	Monitoring undertaken in accordance with these requirements.	D
M2.2	Water and/ or Land Monitoring Requirements.			
	Pollutant	Units of measure	Frequency	Sampling Method
	Dissolved Oxygen	milligrams per litre	Quarterly	In situ
	pH	pH	Quarterly	In situ
	Redox potential	millivolts	Quarterly	In situ
	Salinity	millisiemens per centimetre	Quarterly	In situ
	Temperature	degrees Celsius	Quarterly	In situ
		Compliant	All required analytes were sampled at the frequency required using in situ methods.	D
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.	Not Applicable	No discharges or application of water occurred during the reporting period.	A
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table C (Cont'd)
Compliance Review – Environmental Protection Licence 12385

Page 6 of 8

Cond. No.	Commitment	Compliance	Comments	Basis*
6 Reporting Conditions				
R1 Annual return documents				
R1.1	The licensee must complete and supply to the EPA an Annual Return in the approved form comprising: a) a Statement of Compliance; and b) a Monitoring and Complaints Summary. 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.	Compliant	The completed annual return for the period 18 November 2012 to 17 November 2013 was received by the EPA on 16 January 2014.	D
R1.2	An Annual Return must be prepared in respect of each reporting period, except as provided below.	Compliant	The completed annual return for the period 18 November 2012 to 17 November 2013 was received by the EPA on 16 January 2014.	D
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.	Not Applicable	The licence has not been transferred.	D
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.	Not Applicable	The licence has not been surrendered.	D
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').	Compliant	The completed annual return for the period 18 November 2012 to 17 November 2013 was received by the EPA on 16 January 2014.	D
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.	Compliant	Copies of annual returns retained for more than 4 years.	A
* D = Documentation sighted A = Advised by Company O = On-site Observation				

Table C (Cont'd)
Compliance Review – Environmental Protection Licence 12385

Cond. No.	Commitment	Compliance	Comments	Basis*
6 Reporting Conditions (Cont'd)				
R1 Annual return documents (Cont'd)				
R1.7	Within the Annual Return, the Statement 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.	Compliant	The Annual Return was signed by the licenced holder.	A
R1.8	A person who has been given written approval to certify a certificate of compliance under a licence issued under the <i>Pollution Control Act 1970</i> is taken to be approved for the purpose of this condition until the date of first review of this licence. Note: The term "reporting period" is defined in the dictionary at the end of this licence. Do not complete the Annual Return until after the end of the reporting period. Note: An application to transfer a licence must be made in the approved form for this purpose.	Noted	-	-
R2 Notification of environmental harm				
R2.1	Notifications must be made by telephoning the Environment Line service on 131 555.	Noted	-	-
R2.2	The licensee must provide written details of the notification to the EPA within 7 days of the date on which the incident occurred. Note: The licensee or its employees must notify all relevant authorities of incidents causing or threatening material harm to the environment immediately after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act.	Not Applicable	No reportable incidents occurred during the reporting period.	A, D
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.	Not Applicable	No requests received.	A
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Table C (Cont'd)
Compliance Review – Environmental Protection Licence 12385

Page 8 of 8

Cond. No.	Commitment	Compliance	Comments	Basis*
6 Reporting Conditions (Cont'd)				
R3 Written report (Cont'd)				
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.	Not Applicable	No requests received.	A
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.	Not Applicable	No requests received.	A
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.	Not Applicable	No requests received.	A
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.	Yes	A copy is retained by the site caretaker.	A
G1.2	The licence must be produced to any authorised officer of the EPA who asks to see it.	Not Applicable	No requests received.	A
G1.3	The licence must be available for inspection by any employee or agent of the licensee working at the premises.	Yes	A copy is retained by the site caretaker and is available upon request.	A
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Table D
Compliance Review – Water Licence 30BL179511

Page 1 of 3

Cond. No.	Commitment	Compliance	Comments	Basis*
1.	The licensee must allow authorised officers to NSW Office of Water, and its authorised agents reasonable access to the licensed works with vehicles and equipment at any time for the purposes of: <ul style="list-style-type: none"> Inspecting the said work. Taking samples of any water or material in the work and testing the samples. 	Compliant	No access known to have occurred during reporting period.	A
2.	If the licensee proposes to cease using the work, they must notify NSW Office of Water of their intention to do so, in writing at least three months in advance.	Not Applicable	The Company did not propose to cease using the work during the reporting period.	A
3.	In the event that any notice is given pursuant to Condition 2, the licensee must submit a proposal to the department indicating how the licensed work is to be sealed and rendered safe.	Not Applicable	As above	A
4.	The licensee must carry out any works directed to be carried out by NSW Office of Water for remediation of the site caused by contamination of soil/groundwater, or changes to the works structure, including: capping, slope, bank stabilisation and revegetation upon completion of filling operations. Monitoring of the site is required for a period of 3 years or a period as may be agreed to by NSW Office of Water.	Not Applicable	No directions received during the reporting period.	A
5.	The authorised work shall not be used for the discharge of polluted water into a river or lake otherwise than in accordance with the conditions of a licence granted under the <i>Protection of the Environment Operations Act 1997</i> . A copy of the licence to discharge is to be provided to NSW Office of Water.	Compliant	The initial dredge pond has not been used to discharge polluted water.	A
6.	The licensee must not enlarge the work extension beyond the following dimensions: 270 metres long, 200 metres wide and 8.5 metres in depth. The location of the licensed work is shown on Figure 2 of the Gilbert & Sutherland correspondence dredge pond detail held at the Department's Grafton office.	Compliant	The initial dredge pond is less than the maximum allowable dimensions.	D
7.	The licensee must manage the work in such a way that the natural water levels are maintained in the acid sulfate soils of the surrounding environment.	Compliant	No dredging or other water extracting operations occurred during the reporting period.	A
8.	The licensee must manage the work in such a way that by-products from any acid sulfate soils placed in the work do not escape into the groundwater systems surrounding the work.	Compliant	No acid sulfate soils were placed within the initial dredge pond during the reporting period.	A
9.	The licensed work must not be filled with silts and fines from the sand mining operation to a level higher than 6.5 metres below 0.0 AHD (Australian Height Datum).	Compliant	No silts or fines have been placed within the initial dredge pond.	A
10.	At all times, the silts and fines in the excavated work must be covered by at least 6.5 metres of water	Not Applicable	No silts or fines have been placed within the initial dredge pond.	A

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A = Advised by Company

O = On-site Observation



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