



# Carbon Based Environmental Pty Limited

ABN 74 102 920 285

## **Rocla Quarry Products Calga Quarry**

### Environmental Monitoring

### Dust Deposition Gauges, Surface and Ground Waters and Meteorological Station

**February 2015**

A handwritten signature in black ink, appearing to read 'Colin Davies'.

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Colin Davies BSc MEIA CENVP  
Environmental Scientist  
Date: 24 March 2015

## Executive Summary

Carbon Based Environmental is contracted by Rocla Quarry Products to conduct environmental monitoring at the Calga Sand Quarry.

The monitoring includes;

- Dust Deposition Gauges;
- Surface Waters;
- Groundwaters; and
- Meteorological Station.

This report was prepared by Carbon Based Environmental and includes the following;

- Dust Deposition results for February 2015;
- Surface Water quality results for February 2015;
- Groundwater depth and quality results for February 2015; and
- Meteorological report for February 2015.

The February 2015 dust deposition results for insoluble solids were generally low and free of major contamination this month. All sites, on a rolling annual average basis, are currently below the Air Quality Management Plan exceedance level of 3.7g/m<sup>2</sup>.month. Results were found to be representative of dust levels as determined by the Australian Standard.

Surface water samples were collected on 3 March 2015 at sites A, B D and F. Site C was inaccessible and was unable to be sampled this month. The samples were collected and analysed for a monthly sampling event. Results show pH within the slightly acidic to neutral range, low Electrical Conductivity, low Total Dissolved Solids and low Total Suspended Solids. Oil and Grease was not detected at any site in February 2015.

Bi-monthly groundwater monitoring was conducted in January 2015 and are next scheduled for March 2015.

Data for February 2015 shows that rainfall recorded at the Rocla Calga Quarry was lower than the Gosford BOM however higher the Peats Ridge long term, mean rainfall for January. The rainfall comparison is provided below:

Rocla Calga Quarry	60.7 mm
BOM Peats Ridge*	NA
BOM Gosford*	93.4 mm
BOM Peats Ridge Long term mean for February*	159.3 mm

\*Data sourced from Bureau of Meteorology (BOM) website ([www.bom.gov.au](http://www.bom.gov.au)). No data was available from the BOM Peats Ridge station for February 2015

**Note:** Differences in the daily rainfall readings between BOM and the Rocla station may occur due to BOM stations reporting rainfall at 9am and the Rocla station recording rainfall at midnight.

## Sampling Program

Rocla Calga Quarry conducts environmental monitoring in accordance to Development Consent, OEH (EPA) licence and Environmental Management Plans. Carbon Based Environmental are contracted to undertake dust deposition gauge, surface and groundwater and meteorological monitoring for the project. Carbon Based Environmental commenced monitoring from the April 2006 monitoring period.

Dust deposition gauges are operated to the Australian Standard AS3580.10.1 “Methods for Sampling and Analysis of Ambient Air Method 10.1 Determination of Particulates—Deposited Matter—Gravimetric Method”. Sampling is undertaken every 30 +/- 2 days and each gauge is analysed for insoluble solids and ash residue. The results are reported as g/m<sup>2</sup>.month.

Surface waters are sampled in accordance with Australian Standards AS5667.1 “Guidance on the Design of Sample Programs, Sampling Techniques and the Preservation and Handling of Samples”, AS5667.6 “Water Quality Sampling—Guidance on sampling of rivers and streams” and AS5667.4 “Water Quality Sampling—Guidance on sampling from lakes, natural and man-made”. Surface water monitoring sites include local streams and dams. Basic analysis including pH, Electrical Conductivity, Total Suspended Solids, Total Dissolved Solids and Total Oil and Grease is conducted monthly at Sites A and F (dams) and when Sites B, C and D are flowing. Additional samples are collected when daily rainfall exceeds 50mm.

Groundwaters are sampled in accordance with Australian Standards AS5667.1 “Guidance on the Design of Sample Programs, Sampling Techniques and the Preservation and Handling of Samples” and AS5667.11 “Water Quality Sampling—Guidance on sampling of ground waters”. Groundwater monitoring sites are sampled bi-monthly for depth and water quality. Groundwater monitoring loggers continuously record water levels in a selection of bores.

Meteorological monitoring is conducted at the quarry and displayed on the site computer with a real time display. Wind parameters are measured according to Australian Standard AS 2923 “Ambient Air— Guide for Measurement of Horizontal Wind for Air Quality Applications”.

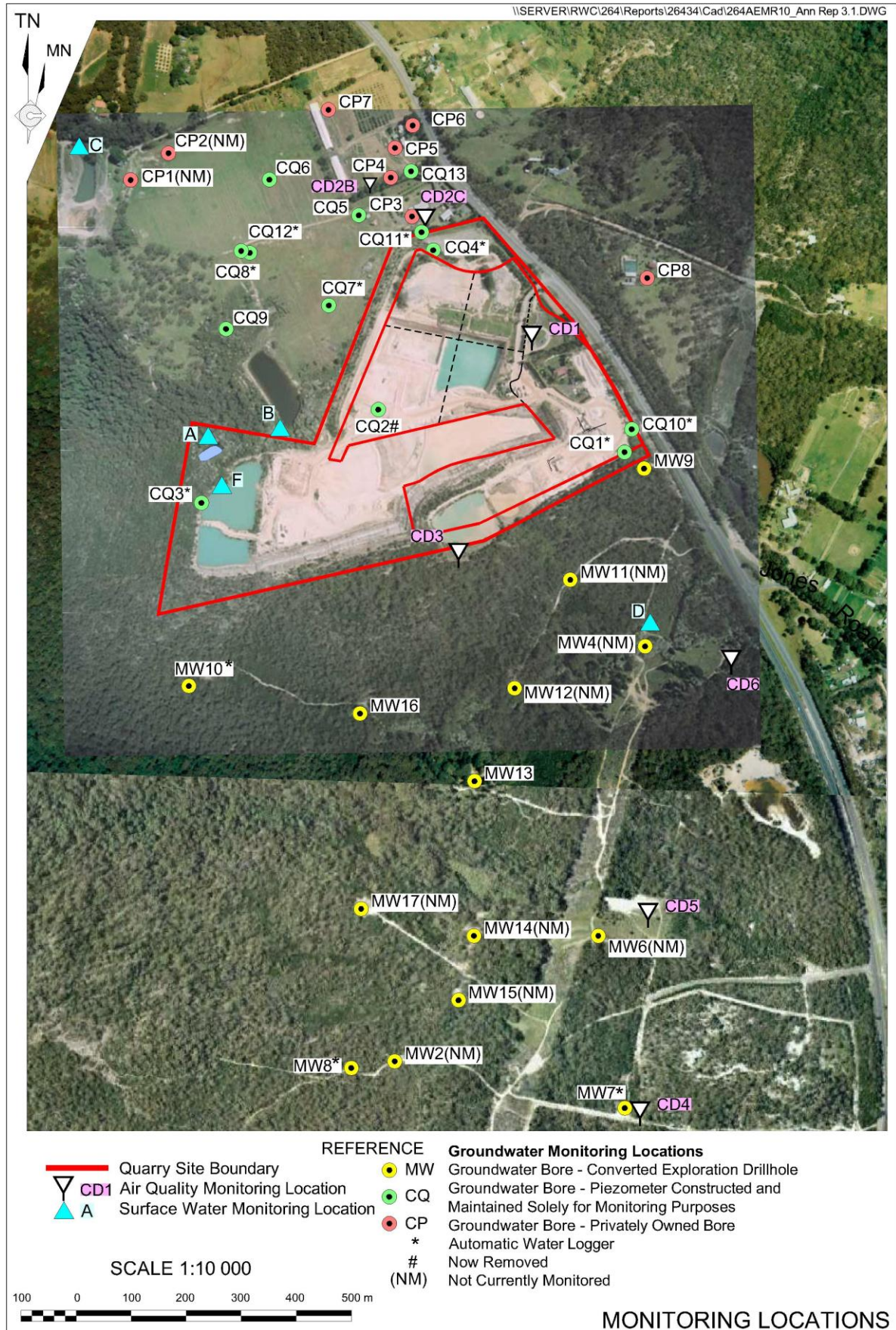
The weather stations have the following sensor configuration;

Air temperature

- Humidity
- Rainfall
- Atmospheric pressure
- Evaporation
- Solar radiation
- Wind speed
- Wind direction

Carbon Based Environmental continued to operate the monitoring equipment and utilise site collections at their existing locations.

The locations of monitoring points are provided in **Figure 1**.



**Figure 1:** Rocla Calga Quarry environmental monitoring locations

## 2.0 Monthly Results

### 2.1 Dust Deposition Gauges

**Table 1** displays the results for February 2015 and the project 12 month rolling average. Results are in g/m<sup>2</sup>.month.

**Table 1: Dust Deposition results: 3 February 2015 – 3 March 2015 (28 days)**

Site	Monthly Insoluble Solids g/m <sup>2</sup> .month	Monthly Ash Residue g/m <sup>2</sup> .month	Monthly Combustible Matter g/m <sup>2</sup> .month	Monthly Ash Residue/ Insoluble Solids %	Rolling Annual Average Insoluble Solids g/m <sup>2</sup> .month
<b>CD1</b>	1.6	0.9	0.7	56	1.1
<b>CD2c</b>	1.5	0.7	0.8	47	1.3
<b>CD3</b>	0.7	0.2	0.5	29	1.4
<b>CD4</b>	0.7	0.5	0.2	71	0.7
<b>CD5</b>	0.4	0.1	0.3	25	0.5
<b>CD6</b>	0.5	0.2	0.3	40	0.7

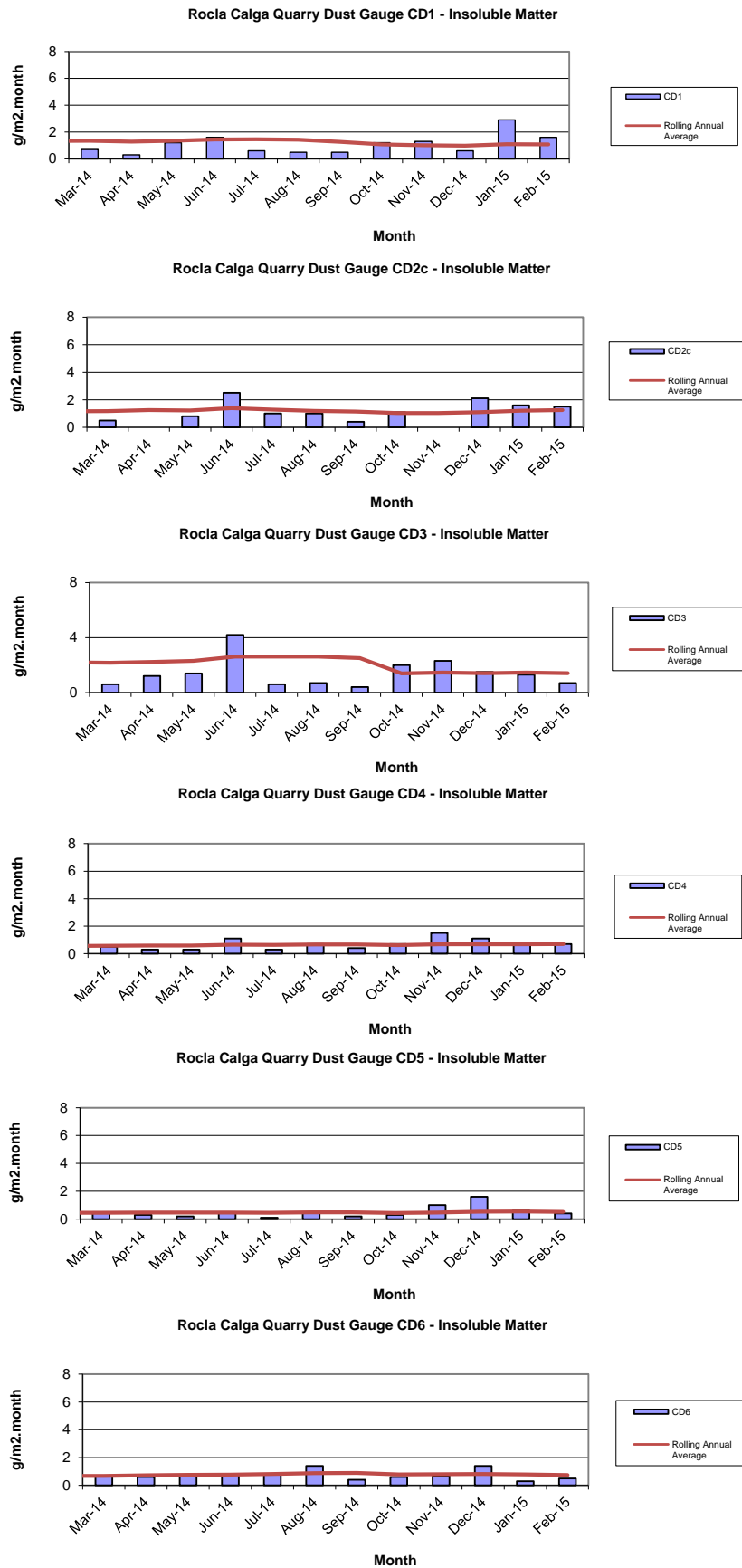
Insoluble Solids marked with an \* indicate an excessively contaminated gauge. Contamination can include bird droppings, vegetation (such as plant matter, algae, pollen and seeds) and insects. Results in bold indicate insoluble solids levels above 3.7 g/m<sup>2</sup>.month; the Development Consent's annual average amenity criteria at residential locations. The current rolling annual average is calculated from March 2014 to February 2015.

NA= Not Available.

CD1 was installed on the 1 May 2006. CD2a was discontinued at the start of August 2006 due to quarry operations "mining out" the site of the gauge. The replacement gauge, Site CD2b, was located in a position adjacent to the boundary between B. Kashouli and F. & J. Gazzana in conformance with the Air Quality Management Plan. CD4 was installed on 3 October 2006, to gauge air quality impacts to the south of the site operations, as were CD5 and CD6 which were installed on the 14 December 2006. CD2b was discontinued at the end of January 2010 due to contamination of the gauge by non-quarry related vehicle movements on a track adjacent to the gauge. The replacement gauge, CD2c, was located on a rehabilitated section of land between the extraction area and adjacent resident.

Dust deposition charts for all dust gauge sites appear in **Figure 2** below. The laboratory analysis is provided in **Appendix 1**.

**Figure 2: Dust Deposition Charts**



## 2.2 Surface Water Monitoring

Monthly surface water monitoring was conducted on the 3 March 2015 and results are listed in **Table 2**. The laboratory analysis sheets are provided in **Appendix 1**.

**Table 2: Monthly surface water monitoring – February grab sample results**

Site	Observed Flow Rate	Water Colour	Turbidity	pH	EC (µS/cm)	TDS (mg/L)	TSS (mg/L)	Oil and Grease (mg/L)
A	Still	Clear	Clear	6.09	70	54	8	<5
B	Still	Clear	Clear	6.95	96	81	45	<5
C	No access							
D	Trickle	Slight	Clear	5.70	102	88	12	<5
F	Still	Clear	Clear	5.85	72	31	7	<5

Samples were collected at sites A, B, D and F. Site C was inaccessible and was unable to be sampled this month. The samples were collected and analysed for a monthly sampling event. Results show pH within the slightly acidic to neutral range, low Electrical Conductivity, low Total Dissolved Solids and low Total Suspended Solids. Oil and Grease was not detected at any site in February 2015.

## 2.3 Groundwater Monitoring

Bi-monthly groundwater monitoring was conducted in January 2015 and are next scheduled for March 2015.

## 2.4 Meteorological Monitoring

The Rocla Calga Quarry weather station data recovery in February 2015 was approximately 100%.

The weather station data follows and includes;

- Monthly data numerical summary;
- Weather charts of air temperature, humidity, heat index and wind chill, atmospheric pressure, solar radiation, evapotranspiration, rain, wind speed and data reception; and
- Wind rose (frequency distribution diagram of wind speed and direction).

Monthly weather statistics from the nearby Bureau of Meteorology (BOM) at Peats Ridge station are no longer available. However, the long term rainfall mean is available via a link on the Gosford BOM Daily Weather Observation page.

Data for February 2015 shows that rainfall recorded at the Rocla Calga Quarry was lower than the Gosford BOM and the Peats Ridge long term, mean rainfall for February.

The rainfall comparison is provided below:

Rocla Calga Quarry	60.7 mm
BOM Peats Ridge*	NA
BOM Gosford*	93.4 mm
BOM Peats Ridge Long term mean for February*	159.3 mm

NA = Not Available

\*Data sourced from Bureau of Meteorology (BOM) website ([www.bom.gov.au](http://www.bom.gov.au)).

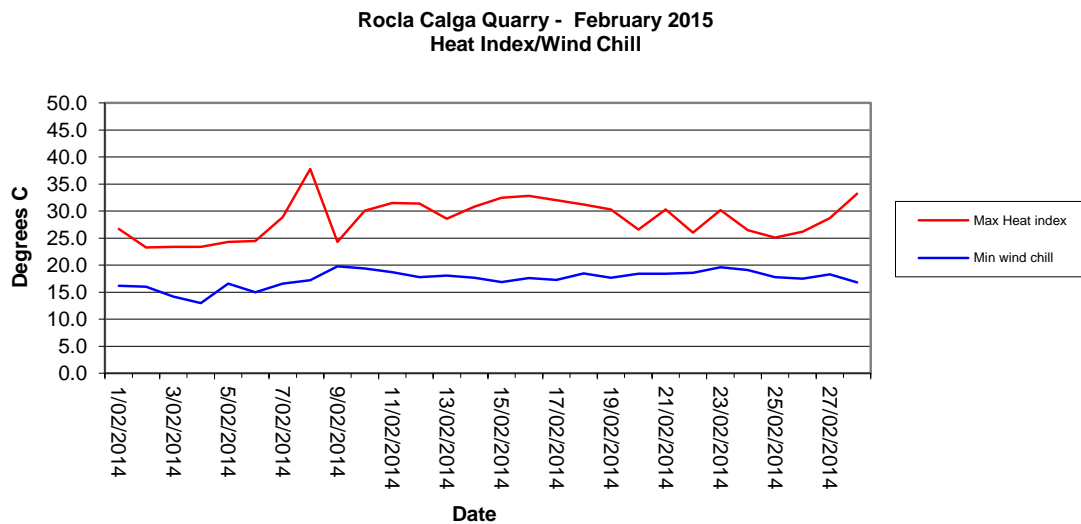
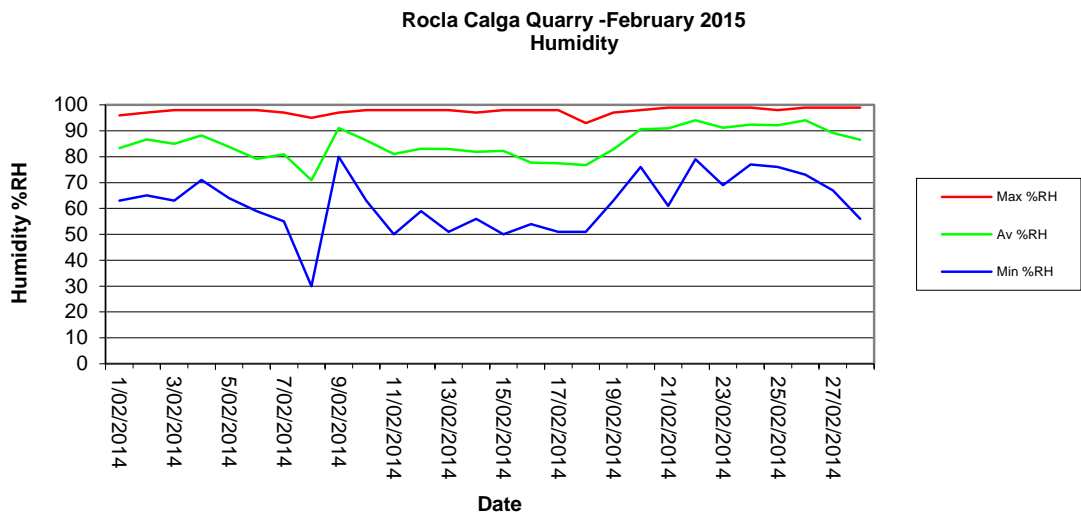
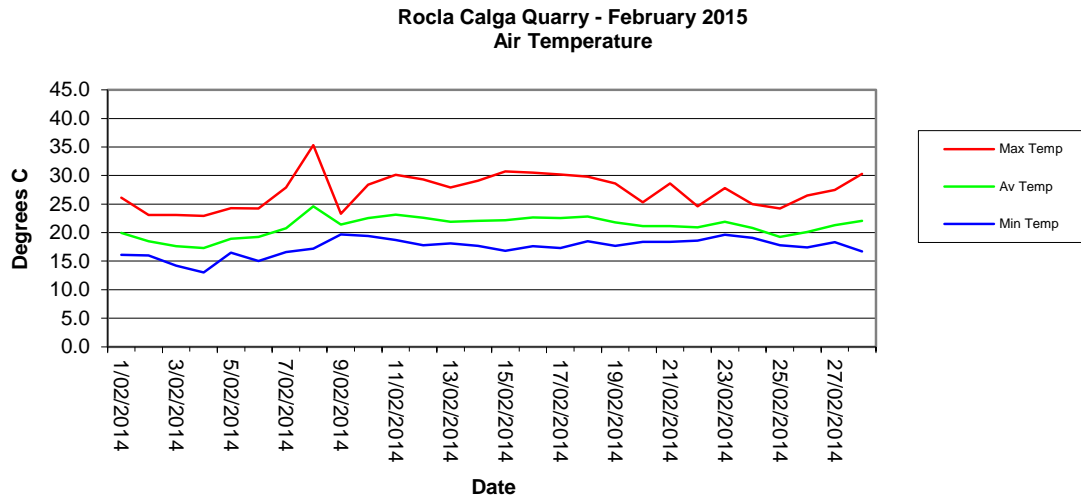
Results are displayed in the following table and figures.

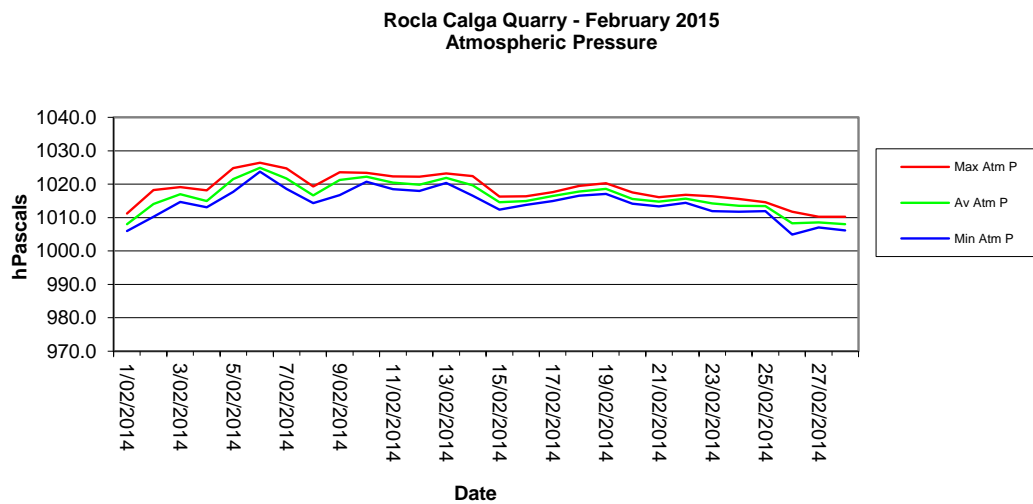
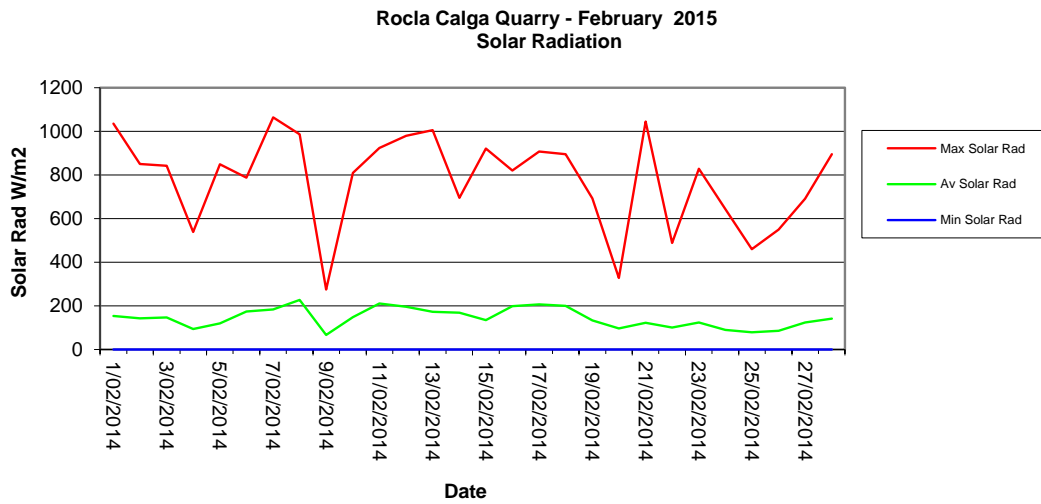
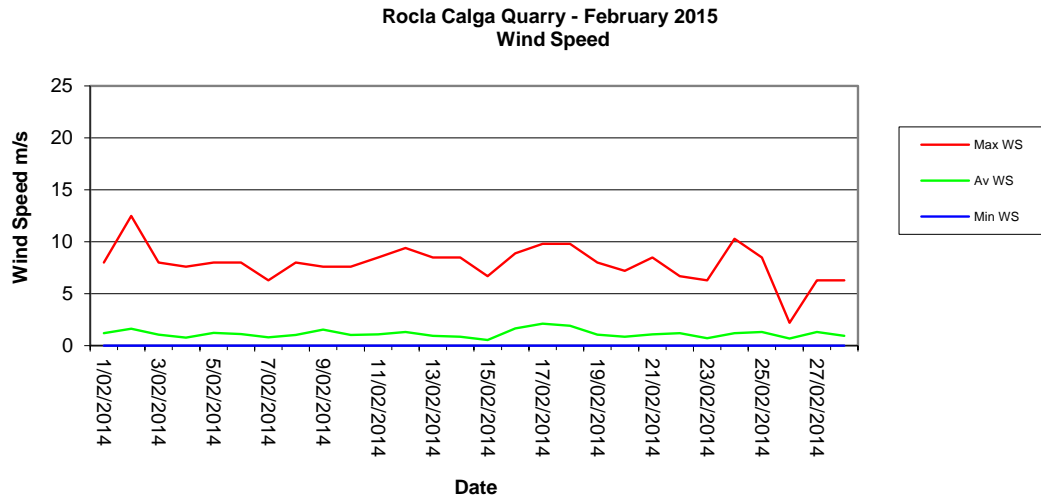
## 2.4.1 Monthly Meteorological Data Summary

Summary Feb-14 Rocla - Calga

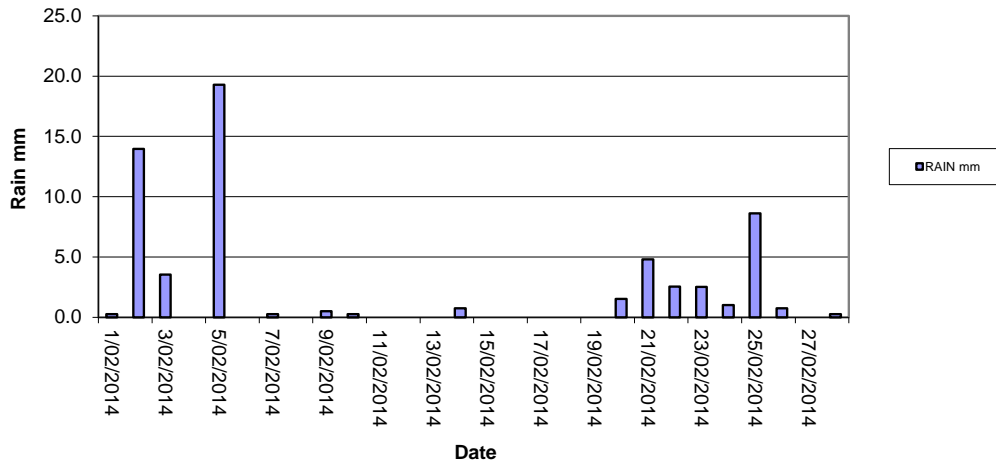
Date	Min Temp	Av Temp	Max Temp	Min %RH	Av %RH	Max %RH	RAIN mm	ET mm	Min WS	Av WS	Max WS	Min wind chill	Max Heat index	Min Atm P	Av Atm P	Max Atm P	Min Solar Rad	Av Solar Rad	Max Solar Rad	Min Data %	Av data %	Max Data %
1/02/2014	16.1	19.9	26.1	63	83	96	0.3	2.7	0	1.2	8	16.2	26.7	1006.0	1008.0	1011.2	0	153.4	1036	96.5	97.6	98
2/02/2014	16.0	18.5	23.1	65	87	97	14.0	2.5	0	1.6	12.5	16.0	23.3	1010.2	1014.0	1018.2	0	142.6	850	84.8	95.2	98
3/02/2014	14.2	17.6	23.1	63	85	98	3.5	2.4	0	1.1	8	14.2	23.4	1014.7	1017.0	1019.1	0	146.5	842	81.9	96.0	98
4/02/2014	13.0	17.3	22.9	71	88	98	0.0	1.7	0	0.8	7.6	13.0	23.4	1013.1	1015.0	1018.1	0	92.8	538	71.1	95.1	98
5/02/2014	16.5	18.9	24.3	64	84	98	19.3	2.2	0	1.2	8	16.6	24.3	1017.7	1021.6	1024.8	0	119.4	849	80.4	94.9	98
6/02/2014	15.0	19.2	24.2	59	79	98	0.0	3.2	0	1.1	8	15.0	24.5	1023.7	1024.9	1026.4	0	173.0	788	89.8	97.1	98
7/02/2014	16.6	20.7	27.9	55	81	97	0.3	3.2	0	0.8	6.3	16.6	28.9	1018.6	1021.7	1024.7	0	183.3	1064	96.8	97.8	98
8/02/2014	17.2	24.6	35.3	30	71	95	0.0	4.5	0	1.1	8	17.2	37.8	1014.3	1016.6	1019.3	0	226.8	986	96.5	97.7	98
9/02/2014	19.7	21.4	23.3	80	91	97	0.5	1.2	0	1.5	7.6	19.8	24.3	1016.7	1021.2	1023.6	0	65.5	274	92.4	97.2	98
10/02/2014	19.4	22.6	28.4	63	86	98	0.3	2.7	0	1.0	7.6	19.4	30.1	1020.7	1022.2	1023.4	0	147.1	809	88.9	97.1	98
11/02/2014	18.7	23.1	30.1	50	81	98	0.0	3.8	0	1.1	8.5	18.7	31.5	1018.5	1020.5	1022.3	0	210.8	924	84.5	96.8	98
12/02/2014	17.8	22.6	29.3	59	83	98	0.0	3.6	0	1.3	9.4	17.8	31.4	1018.0	1019.8	1022.2	0	195.2	980	90.9	97.4	98
13/02/2014	18.1	21.9	27.9	51	83	98	0.0	3.1	0	0.9	8.5	18.1	28.6	1020.4	1021.9	1023.2	0	171.9	1005	87.4	96.4	98
14/02/2014	17.7	22.0	29.1	56	82	97	0.8	3.0	0	0.9	8.5	17.7	30.8	1016.5	1019.7	1022.4	0	168.7	695	71.3	96.4	98
15/02/2014	16.8	22.1	30.7	50	82	98	0.0	2.4	0	0.6	6.7	16.9	32.5	1012.4	1014.5	1016.3	0	134.2	921	95.9	97.7	98
16/02/2014	17.6	22.6	30.5	54	78	98	0.0	3.8	0	1.7	8.9	17.6	32.8	1013.8	1015.0	1016.4	0	198.5	820	95.6	97.6	98
17/02/2014	17.3	22.6	30.2	51	77	98	0.0	4.3	0	2.1	9.8	17.3	32.0	1014.9	1016.5	1017.6	0	205.7	907	91.8	97.5	98
18/02/2014	18.5	22.8	29.8	51	77	93	0.0	4.1	0	1.9	9.8	18.5	31.2	1016.5	1017.8	1019.5	0	199.9	895	87.7	97.1	98
19/02/2014	17.7	21.8	28.6	63	83	97	0.0	2.6	0	1.1	8	17.7	30.3	1017.1	1018.6	1020.3	0	132.1	692	78.1	96.9	98
20/02/2014	18.4	21.1	25.3	76	91	98	1.5	1.6	0	0.9	7.2	18.4	26.6	1014.1	1015.5	1017.5	0	96.5	327	91.5	96.8	98
21/02/2014	18.4	21.1	28.6	61	91	99	4.8	2.1	0	1.1	8.5	18.4	30.3	1013.3	1014.7	1016.1	0	121.6	1045	93.9	97.4	98
22/02/2014	18.6	20.9	24.6	79	94	99	2.5	1.6	0	1.2	6.7	18.6	26.0	1014.4	1015.6	1016.8	0	99.7	488	92.4	97.5	98
23/02/2014	19.6	21.9	27.8	69	91	99	2.5	2.0	0	0.7	6.3	19.6	30.2	1011.9	1014.2	1016.4	0	123.2	828	86.8	97.2	98
24/02/2014	19.1	20.8	25.0	77	92	99	1.0	1.6	0	1.2	10.3	19.1	26.5	1011.7	1013.5	1015.6	0	88.7	644	90.6	97.3	98
25/02/2014	17.8	19.2	24.2	76	92	98	8.6	1.3	0	1.3	8.5	17.8	25.1	1011.9	1013.4	1014.6	0	78.3	460	86.3	96.9	98
26/02/2014	17.4	20.1	26.5	73	94	99	0.8	1.3	0	0.7	2.2	17.5	26.2	1004.9	1008.3	1011.7	0	84.9	549	88	96.8	98
27/02/2014	18.3	21.3	27.5	67	89	99	0.0	2.2	0	1.3	6.3	18.3	28.7	1007.0	1008.5	1010.2	0	123.4	691	91.2	97.2	98
28/02/2014	16.7	22.1	30.3	56	86	99	0.3	2.5	0	1.0	6.3	16.8	33.2	1006.1	1008.0	1010.2	0	140.5	896	89.8	97.6	98
Monthly	13	21.1	35.3	30	85	99	60.7	73.3	0	1.2	12.5	13.0	37.8	1004.9	1016.4	1026.4	0	143.7	1064	71.1	96.9	98

## 2.4.2 Monthly Weather Charts

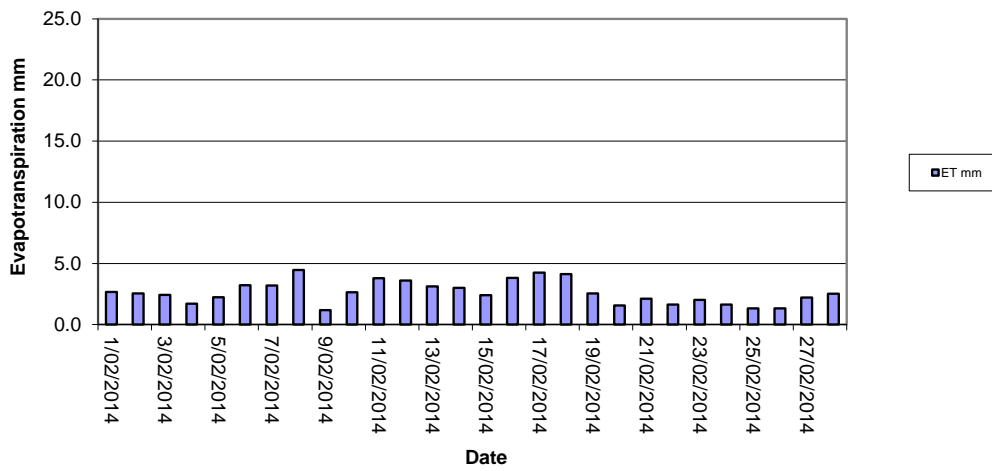




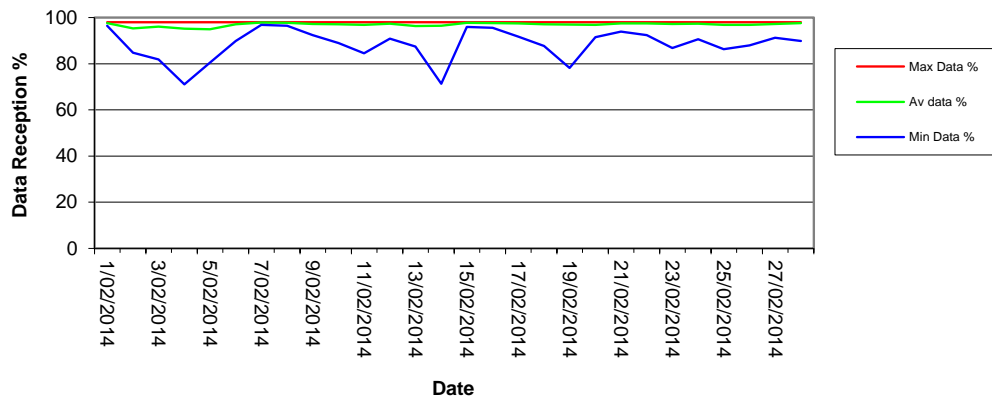
Rocla Calga Quarry - February 2015  
Rainfall



Rocla Calga Quarry - February 2015  
Evapotranspiration



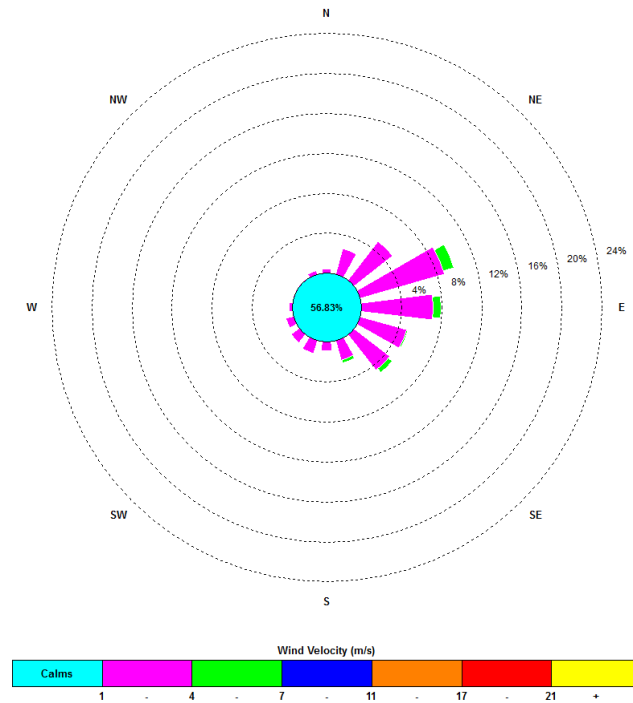
Rocla Calga Quarry - February 2015  
Data Reception



### 2.4.3 Monthly Windrose Plot

Frequency plot of the average wind speed and average direction over each 15 minute sampling period. Wind is considered to be calm when less than a 15 minute average of 1m/s.

00:00, 1 February 2015 – 23:45, 28 February 2015



The predominant winds were from the ENE, with most frequent, strongest winds from the E/ENE. The maximum wind speed was 12.5 m/s from the SE.

# Appendix 1

## Laboratory Certificates

## CERTIFICATE OF ANALYSIS

Work Order	: EN1510674	Page	: 1 of 4
Client	: CARBON BASED ENVIRONMENTAL	Laboratory	: Environmental Division Newcastle
Contact	: MR COLIN DAVIES (cbased)	Contact	: Peter Keyte
Address	: 47 BOOMERANG ST CESSNOCK NSW, AUSTRALIA 2325	Address	: 5/585 Maitland Road Mayfield West NSW Australia 2304
E-mail	: cbased@bigpond.com	E-mail	: peter.keyte@alsglobal.com
Telephone	: +61 49904443	Telephone	: +61 2 4014 2500
Facsimile	: +61 02 49904442	Facsimile	: +61 2 4967 7382
Project	: Rocla Calga Dusts	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 03-Mar-2015 12:05
C-O-C number	: ----	Date Analysis Commenced	: 04-Mar-2015
Sampler	: ----	Issue Date	: 06-Mar-2015 16:43
Site	: ----		
Quote number	: ----	No. of samples received	: 6
		No. of samples analysed	: 6

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with  
ISO/IEC 17025.

### *Signatories*

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

*Signatories*

*Position*

*Accreditation Category*

Barbara Coupland

Quality Officer

Newcastle - Inorganics



## General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

^ = This result is computed from individual analyte detections at or above the level of reporting

∅ = ALS is not NATA accredited for these tests.

- Analysis as per AS3580.10.1-2003. Samples passed through a 1mm sieve prior to analysis. NATA accreditation does not apply for results reported in g/m<sup>2</sup>.mth as sampling data was provided by the client.



## Analytical Results

Sub-Matrix: DUST  
 (Matrix: AIR)

Client sample ID

				CD1 03/02/15 - 03/03/15	CD2c 03/02/15 - 03/03/15	CD3 03/02/15 - 03/03/15	CD4 03/02/15 - 03/03/15	CD5 03/02/15 - 03/03/15
Client sampling date / time				[03-Mar-2015]	[03-Mar-2015]	[03-Mar-2015]	[03-Mar-2015]	[03-Mar-2015]
Compound	CAS Number	LOR	Unit	EN1510674-001	EN1510674-002	EN1510674-003	EN1510674-004	EN1510674-005
				Result	Result	Result	Result	Result
<b>EA120: Ash Content</b>								
Ash Content	----	0.1	g/m <sup>2</sup> .month	0.9	0.7	0.2	0.5	0.1
Ash Content (mg)	----	1	mg	15	12	3	8	2
<b>EA125: Combustible Matter</b>								
Combustible Matter	----	0.1	g/m <sup>2</sup> .month	0.7	0.8	0.5	0.2	0.3
Combustible Matter (mg)	----	1	mg	12	13	8	3	4
<b>EA141: Total Insoluble Matter</b>								
Total Insoluble Matter	----	0.1	g/m <sup>2</sup> .month	1.6	1.5	0.7	0.7	0.4
Total Insoluble Matter (mg)	----	1	mg	27	25	11	11	6



## Analytical Results

Sub-Matrix: DUST  
 (Matrix: AIR)

Client sample ID

				CD6	----	----	----	----
				03/02/15 - 03/03/15	----	----	----	----
				[03-Mar-2015]	----	----	----	----
				EN1510674-006	-----	-----	-----	-----
Compound	CAS Number	LOR	Unit	Result	Result	Result	Result	Result
<b>EA120: Ash Content</b>								
Ash Content	----	0.1	g/m <sup>2</sup> .month	0.2	----	----	----	----
Ash Content (mg)	----	1	mg	3	----	----	----	----
<b>EA125: Combustible Matter</b>								
Combustible Matter	----	0.1	g/m <sup>2</sup> .month	0.3	----	----	----	----
Combustible Matter (mg)	----	1	mg	5	----	----	----	----
<b>EA141: Total Insoluble Matter</b>								
Total Insoluble Matter	----	0.1	g/m <sup>2</sup> .month	0.5	----	----	----	----
Total Insoluble Matter (mg)	----	1	mg	8	----	----	----	----

## CERTIFICATE OF ANALYSIS

Work Order	: <b>ES1504925</b>	Page	: 1 of 3
Client	: <b>CARBON BASED ENVIRONMENTAL</b>	Laboratory	: Environmental Division Sydney
Contact	: MR COLIN DAVIES (cbased)	Contact	: Client Services
Address	: 47 BOOMERANG ST CESSNOCK NSW, AUSTRALIA 2325	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: cbased@bigpond.com	E-mail	: sydney@alsglobal.com
Telephone	: +61 49904443	Telephone	: +61-2-8784 8555
Facsimile	: +61 02 49904442	Facsimile	: +61-2-8784 8500
Project	: ROCLA QUARRY	QC Level	: NEPM 2013 Schedule B(3) and ALS QCS3 requirement
Order number	: ----	Date Samples Received	: 03-MAR-2015
C-O-C number	: ----	Issue Date	: 10-MAR-2015
Sampler	: CBE	No. of samples received	: 4
Site	: ----	No. of samples analysed	: 4
Quote number	: SY/485/14		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. All pages of this report have been checked and approved for release.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results



NATA Accredited Laboratory 825

Accredited for compliance with  
ISO/IEC 17025.

### Signatories

This document has been electronically signed by the authorized signatories indicated below. Electronic signing has been carried out in compliance with procedures specified in 21 CFR Part 11.

#### Signatories

#### Position

#### Accreditation Category

Alison Graham

Supervisor - Inorganic

Newcastle - Inorganics

Ankit Joshi

Inorganic Chemist

Sydney Inorganics



## General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.  
LOR = Limit of reporting  
^ = This result is computed from individual analyte detections at or above the level of reporting

- TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.



## Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)

Client sample ID

Client sampling date / time

				A	B	D	F	----
				[03-MAR-2015]	[03-MAR-2015]	[03-MAR-2015]	[03-MAR-2015]	----
Compound	CAS Number	LOR	Unit	ES1504925-001	ES1504925-002	ES1504925-003	ES1504925-004	----
<b>EA005: pH</b>								
pH Value	----	0.01	pH Unit	6.09	6.95	5.70	5.85	----
<b>EA010P: Conductivity by PC Titrator</b>								
Electrical Conductivity @ 25°C	----	1	µS/cm	70	96	102	72	----
<b>EA015: Total Dissolved Solids</b>								
Total Dissolved Solids @180°C	----	10	mg/L	54	81	88	31	----
<b>EA025: Suspended Solids</b>								
Suspended Solids (SS)	----	5	mg/L	8	45	12	7	----
<b>EP020: Oil and Grease (O&amp;G)</b>								
Oil & Grease	----	5	mg/L	<5	<5	<5	<5	----