

CBased Environmental Pty Limited ABN 62 611 924 264



Calga Quarry

Environmental Monitoring

Dust Deposition Gauges, Surface and Ground Waters and Meteorological Station

December 2016

Colin Davies BSc MEIA CENVP

Environmental Scientist Date: 30 January 2017

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Executive Summary

CBased Environmental is contracted by Hanson 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 CBased Environmental and includes the following:

- Dust Deposition results for December 2016;
- Surface Water quality results for December 2016; and
- Meteorological report for December 2016.

The December 2016 dust deposition results for insoluble solids were generally low and free of major contamination. All sites, on a rolling annual average basis, are currently below the Air Quality Management Plan exceedance level of 3.7g/m².month. Results were found to be representative of dust levels as determined by the Australian Standard.

Surface water samples were collected at sites A, C1, C2 and F. Site B and D were dry or not flowing and unable to be sampled this month. The samples were collected and analysed for a monthly sampling event. Results show pH within the slightly acidic range, low Electrical Conductivity, low Total Dissolved Solids and low Total Suspended Solids. Oil and Grease was detected at site A and C1 in December 2016.

Bi-monthly groundwater monitoring is next scheduled for January 2017.

Data for December 2016 shows that rainfall recorded at the Calga Quarry was lower than the Gosford BOM mean rainfall and the Peats Ridge long term rainfall for December.

The rainfall comparison is provided below:

Calga Quarry 47.6 mm
BOM Peats Ridge* NA
BOM Gosford* 58.4 mm
BOM Peats Ridge Long term mean for December* 92.4 mm

NA = Not Available

*Data sourced from Bureau of Meteorology (BOM) website (www.bom.gov.au).

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

Sampling Program

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

Dust deposition gauges are operated to the Australian Standard <u>AS3580.10.1</u> "*Methods for sampling and analysis of ambient air method. 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/m².month.

Surface waters are sampled in accordance with Australian Standards <u>AS5667.1</u> "Guidance on the design of sample programs, sampling techniques and the preservation and handling of samples", <u>AS5667.6</u> "Water quality sampling—guidance on sampling of rivers and streams" and <u>AS5667.4</u> "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 <u>AS5667.1</u> "Guidance on the design of sample programs, sampling techniques and the preservation and handling of samples" and <u>AS5667.11</u> "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. Metrological parameters are measured according to Australian Standard <u>AS3580.14</u> "Methods for sampling and analysis of ambient air. Meteorological monitoring for ambient air quality monitoring applications"

The weather stations have the following sensor configuration;

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

CBased 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.

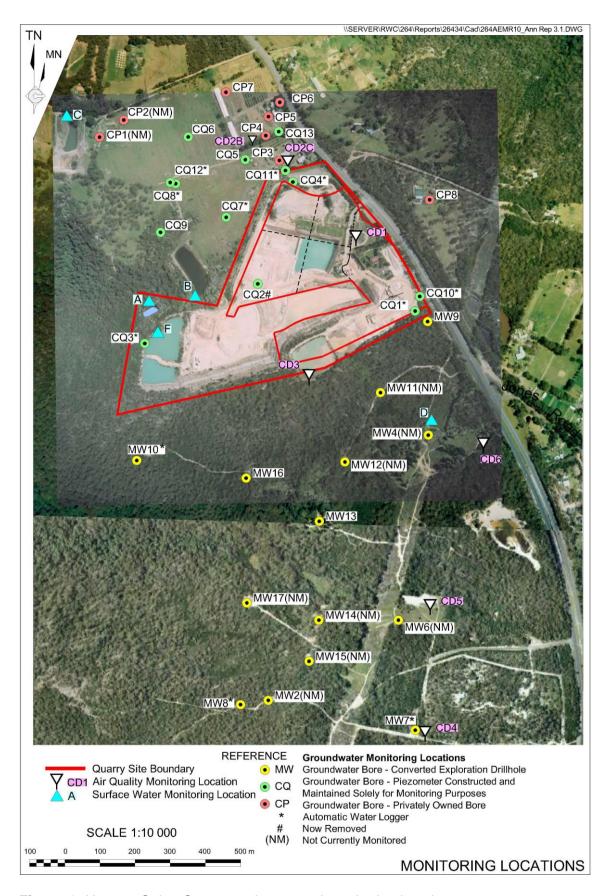


Figure 1: Hanson Calga Quarry environmental monitoring locations

2.0 Monthly Results

2.1 Dust Deposition Gauges

Table 1 displays the results for December 2016 and the project 12-month rolling average. Results are in g/m².month.

Table 1: Dust Deposition results: 2 December 2016 – 3 January 2017 (32 days)

Site	Monthly Insoluble Solids (g/m².month)	Monthly Ash Residue (g/m².month)	Monthly Combustible Matter (g/m².month)	Monthly Ash Residue/ Insoluble Solids %	Rolling Annual Average Insoluble Solids (g/m².month)
CD1	2.9	2.1	0.8	72	1.4
CD2c	1.5	0.9	0.6	60	0.9
CD3	2.1	0.9	1.2	43	1.2
CD4	0.6	0.2	0.4	33	0.6
CD5	0.5	0.3	0.2	60	0.5
CD6	0.7	0.4	0.3	57	0.9

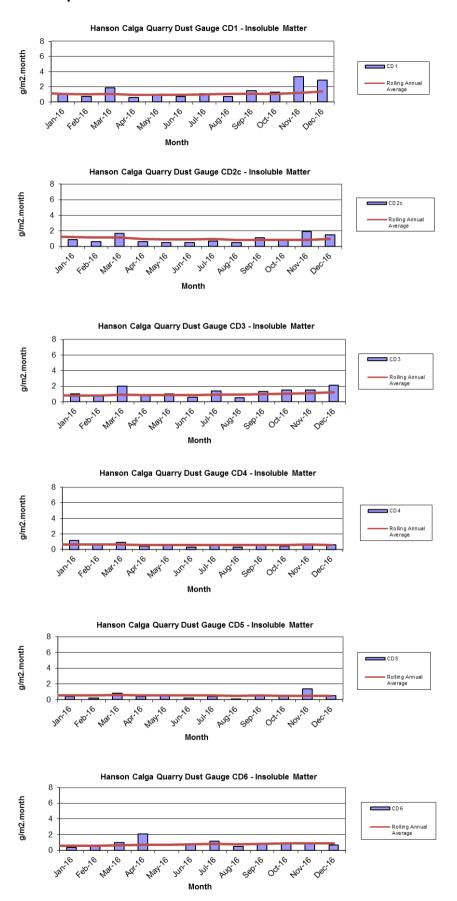
Insoluble Solids marked with an * indicate an excessively contaminated gauge. Contamination can include bird droppings, vegetation (such as plant matter, algae, pollen and seeds) and insects. Results in bold indicate insoluble solids levels above 3.7 g/m².month; the Development Consent's annual average amenity criteria at residential locations. The current rolling annual average is calculated from January 2016 to December 2016.

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 January 2017 and results are listed in **Table 2**. The laboratory analysis sheets are provided in **Appendix 1**.

Table 2: Monthly surface water monitoring - December grab sample results

Site	Observed Flow Rate	Water Colour	Turbidity	рН	EC (μS/cm)	TDS (mg/L)	TSS (mg/L)	Oil and Grease (mg/L)
Α	Still	Clear	L. orange	6.17	88	99	7	10
В				Dry				
C1	Slow	Clear	Clear	6.80	103	70	17	7
C2	Dam	Clear	Clear	6.52	103	53	14	<5
D				Dry				
F	Still	Clear	Clear	6.24	99	71	6	< 5

Samples were collected at sites A, C1, C2 and F. Site B and D were dry or not flowing and unable to be sampled this month. The samples were collected and analysed for a monthly sampling event. Results show pH within the slightly acidic range, low Electrical Conductivity, low Total Dissolved Solids and low Total Suspended Solids. Oil and Grease was detected at site A and C1 in December 2016.

2.2.1 Non-Routine Surface Water Sampling

No non-routine sampling was undertaken during December 2016.

2.3 Groundwater Monitoring

Bi-monthly groundwater monitoring is next scheduled for January 2017.

2.4 Meteorological Monitoring

The Calga Quarry weather station data recovery in December 2016 was approximately 80%. No data was available between the 9 and 12 December and 24 and 26 December 2016.

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 December 2016 shows that rainfall recorded at the Calga Quarry was lower than the Gosford BOM mean rainfall and the Peats Ridge long term rainfall for December.

The rainfall comparison is provided below:

Calga Quarry 47.6 mm
BOM Peats Ridge* NA
BOM Gosford* 58.4 mm
BOM Peats Ridge Long term mean for December* 92.4 mm

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^{*}Data sourced from Bureau of Meteorology (BOM) website (www.bom.gov.au).

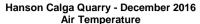
2.4.1 Monthly Meteorological Data Summary

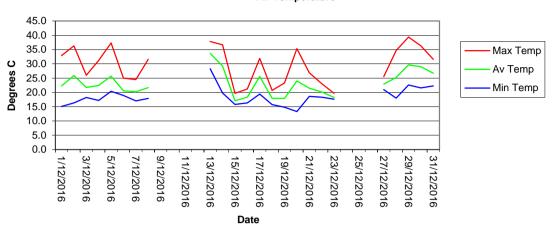
Summary	Dec-16	Hanson - Calga
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Date	Min Temp	Av Temp	Max Temp	Min %RH	Av %RH	Max %RH	RAIN mm	Min WS	Av WS	Max WS	Min wind chill	Max Heat index	Min Atm P	Av Atm P	Max Atm P	Min Data %	Av data %	Max Data %
1/12/2016	15.1	22.3	32.9	25.0	65.9	95.0	5.0	0.0	1.2	8.9	15.1	32.7	1005.7	1007.6	1009.8	86.8	97.4	98.0
2/12/2016	16.3	25.9	36.3	20.0	47.2	83.0	0.0	0.0	0.9	11.2	16.4	35.7	1007.1	1009.2	1013.4	90.4	97.4	98.0
3/12/2016	18.2	21.7	26.0	59.0	76.0	88.0	0.0	0.0	1.2	7.6	18.2	26.8	1012.7	1015.1	1017.1	95.6	97.5	98.0
4/12/2016	17.2	22.4	31.2	49.0	78.8	94.0	0.0	0.0	1.2	8.5	17.2	33.8	1011.5	1014.6	1017.3	88.0	97.7	98.0
5/12/2016	20.4	25.7	37.3	39.0	74.5	95.0	0.2	0.0	0.8	11.6	20.4	43.8	1005.3	1009.6	1014.5	94.5	99.3	100.0
6/12/2016	18.9	20.5	25.0	74.0	91.5	96.0	6.6	0.0	0.1	4.5	19.0	26.6	1011.0	1012.2	1014.0	99.4	100.0	100.0
7/12/2016	17.0	20.2	24.5	68.0	85.4	96.0	3.4	0.0	1.7	8.0	17.1	25.8	1012.9	1014.8	1016.5	98.5	100.0	100.0
8/12/2016	17.9	21.7	31.6	47.0	79.2	92.0	0.0	0.0	0.4	7.2	17.9	34.6	1002.2	1009.6	1014.6	78.4	95.6	100.0
9/12/2016																		
10/12/2016																		
11/12/2016																		
12/12/2016																		
13/12/2016	28.3	33.7	37.8	20.0	29.8	47.0	0.0	0.0	1.8	11.2	28.3	37.3	1006.1	1007.5	1010.9	20.6	95.6	100.0
14/12/2016	19.8	29.2	36.7	19.0	39.9	89.0	0.0	0.0	2.9	13.4	19.8	35.6	1003.2	1005.8	1010.6	93.2	99.8	100.0
15/12/2016	15.8	17.1	19.7	90.0	95.3	97.0	3.6	0.0	0.3	6.7	15.8	20.6	1009.6	1013.0	1015.2	100.0	100.0	100.0
16/12/2016	16.3	18.3	21.2	94.0	96.3	98.0	20.4	0.0	0.1	4.5	16.3	22.9	1004.4	1008.6	1014.5	93.8	99.9	100.0
17/12/2016	19.4	25.6	31.9	34.0	62.1	95.0	6.6	0.0	1.8	10.7	19.4	32.2	1001.6	1003.8	1008.9	92.9	99.9	100.0
18/12/2016	15.7	17.9	20.7	60.0	76.1	89.0	0.0	0.0	1.3	8.9	15.7	20.6	1009.1	1015.2	1019.5	88.0	99.9	100.0
19/12/2016	14.8	17.9	23.3	55.0	78.1	96.0	1.8	0.0	1.5	9.8	14.8	23.7	1012.0	1015.7	1018.9	99.7	100.0	100.0
20/12/2016	13.3	24.0	35.3	26.0	60.1	93.0	0.0	0.0	1.0	12.5	13.3	35.4	999.9	1005.3	1011.8	87.4	99.2	100.0
21/12/2016	18.6	21.5	26.9	50.0	76.1	92.0	0.0	0.0	1.2	9.4	18.6	27.7	1003.4	1008.8	1014.8	94.2	99.9	100.0
22/12/2016	18.3	20.1	23.1	63.0	74.0	87.0	0.0	0.0	1.5	7.6	18.3	23.7	1013.8	1015.1	1016.4	76.0	96.4	100.0
23/12/2016	17.6	18.2	19.7	77.0	83.0	85.0	0.0	0.0	0.7	7.2	17.7	20.5	1014.6	1015.4	1016.0	99.7	100.0	100.0
24/12/2016																		
25/12/2016																		
26/12/2016																		
27/12/2016	21.0	22.8	25.5	70.0	77.7	84.0	0.0	0.0	0.9	5.4	21.0	26.6	1009.2	1009.9	1010.7	100.0	100.0	100.0
28/12/2016	18.0	25.3	34.7	40.0	68.2	94.0	0.0	0.0	1.4	8.9	18.0	38.5	1004.0	1007.2	1010.3	100.0	100.0	100.0
29/12/2016	22.6	29.6	39.4	21.0	46.9	75.0	0.0	0.0	1.4	7.6	22.6	41.0	999.6	1002.5	1004.7	94.8	99.9	100.0
30/12/2016	21.6	29.0	36.3	31.0	48.1	79.0	0.0	0.0	1.1	8.5	21.6	38.6	997.4	999.2	1001.3	100.0	100.0	100.0
31/12/2016	22.3	26.7	31.6	39.0	64.4	87.0	0.0	0.0	1.2	9.8	22.3	35.2	997.9	999.8	1003.7	93.5	99.9	100.0
Monthly	42.2	22.2	20.4	10	70	00	47.6	0	4.0	40.4	42.2	40.0	007.4	1000.4	1010 F	20.6	00.0	100
Monthly	13.3	23.2	39.4	19	70	98	47.6	0	1.2	13.4	13.3	43.8	997.4	1009.4	1019.5	20.6	99.0	100

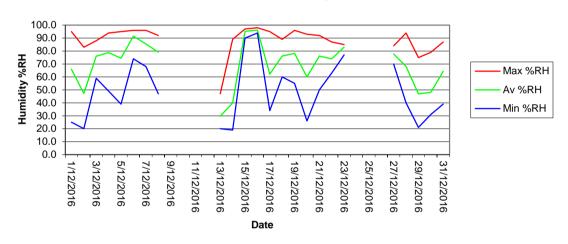
No data

2.4.2 Monthly Weather Charts

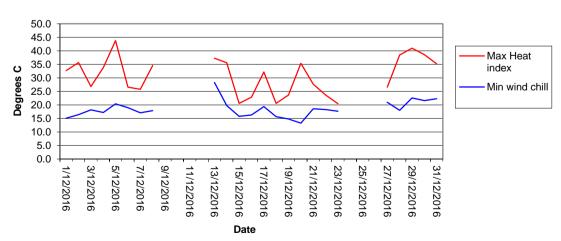




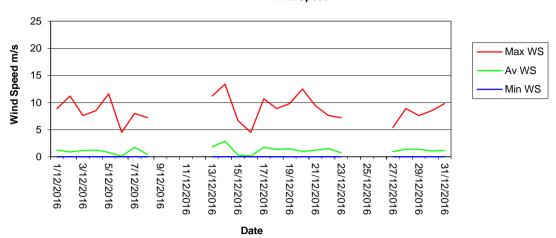
Hanson Calga Quarry - December 2016 Humidity



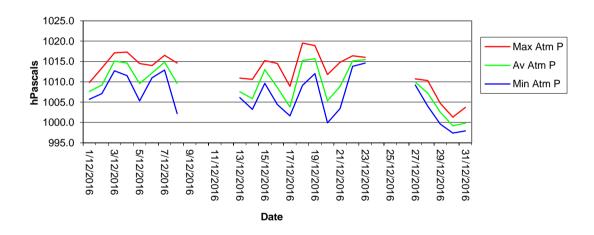
Hanson Calga Quarry - December 2016 Heat Index/Wind Chill



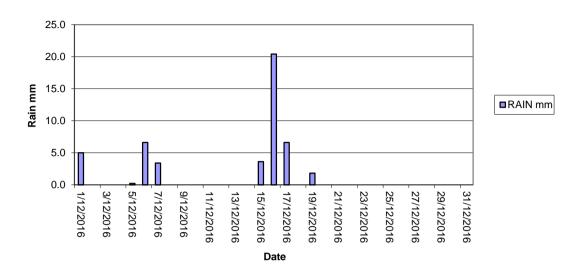
Hanson Calga Quarry - December 2016 Wind Speed



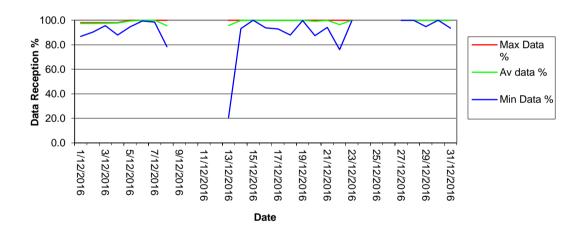
Hanson Calga Quarry - December 2016 Atmospheric Pressure



Hanson Calga Quarry - December 2016 Rainfall

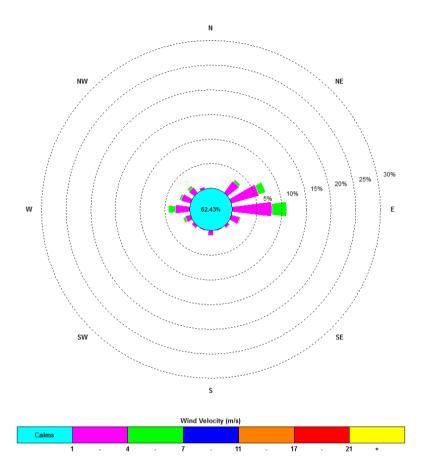


Hanson Calga Quarry - December 2016 Data Reception



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 at less than a 15-minute average of 1m/s.



00:15, 1 December 2016 - 23:45, 31 December 2016

The predominant winds were from the E, with most frequent, strongest winds also from the E. The maximum wind speed was 13.4 m/s from the WSW.

Appendix 1

Field Sheets

Chain of Custody

Laboratory Certificates



CERTIFICATE OF ANALYSIS

Address Contact Client Work Order **47 BOOMERANG ST** EN1700005 MS RENAE MIKKA **CBASED ENVIRONMENTAL PTY LTD** Address Contact Laboratory 5/585 Maitland Road Mayfield West NSW Australia 2304 **Environmental Division Newcastle** 1 of 4

Hanson Calga Dusts +61 49904443 CESSNOCK NSW, AUSTRALIA 2325

SYBQ/222/16 CARBON BASED ENVIRONMENTAL PTY LTD Issue Date Date Analysis Commenced **Date Samples Received** 04-Jan-2017 03-Jan-2017 14:25 +61 2 4014 2500 10-Jan-2017 11:51 部無

Accredited for compliance with ISO/IEC 17025 - Testing Accreditation No. 825

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

General Comments

No. of samples analysed No. of samples received Quote number Sampler C-O-C number Order number Project

Telephone

Analytical Results

Quality Review and Sample Receipt Notification. Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with

Signatories

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

Alison Graham Supervisor - Inorganic Newcastle - Inorganics, Mayfield West, NSW

Work Order Client

Project

2 of 4 EN1700005 CBASED ENVIRONMENTAL PTY LTD

Hanson Calga Dusts



General Comments

developed procedures are employed in the absence of documented standards or by client request. 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

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 no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a

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

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

Key

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

ø = ALS is not NATA accredited for these tests

= Indicates an estimated value.

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/m².mth as sampling data was provided by the client.

Page Work Order Client

3 of 4 EN1700005 CBASED ENVIRONMENTAL PTY LTD Hanson Calga Dusts

Analytical Results

Project

Sub-Matrix: DEPOSITIONAL DUST (Matrix: AIR)		2	Client sample ID	CD1 02/12/16 - 03/01/17	CD2c 02/12/16 - 03/01/17	CD3 02/12/16 - 03/01/17	CD4 02/12/16 - 03/01/17	CD5 02/12/16 - 03/01/17
	Clie	ent sampl	Client sampling date / time	03-Jan-2017 00:00	03-Jan-2017 00:00	03-Jan-2017 00:00	03-Jan-2017 00:00	03-Jan-2017 00:00
Compound	CAS Number LOR	LOR	Unit	EN1700005-001	EN1700005-002	EN1700005-003	EN1700005-004	EN1700005-005
				Result	Result	Result	Result	Result
EA120: Ash Content								
Ash Content		0.1	g/m².month	2.1	0.9	0.9	0.2	0.3
Ash Content (mg)		_	mg	40	17	17	ဃ	5
EA125: Combustible Matter								
Combustible Matter		0.1	g/m².month	0.8	0.6	1.2	0.4	0.2
Combustible Matter (mg)	-	ے	mg	15	12	22	8	4
EA141: Total Insoluble Matter								
Total Insoluble Matter		0.1	g/m².month	2.9	1.5	2.1	0.6	0.5
Total Insoluble Matter (mg)		_	mg	55	29	39	11	

Page Work Order Client

4 of 4
EN1700005
CBASED ENVIRONMENTAL PTY LTD
Hanson Calga Dusts

Project Analytical Results

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	Clie	ent sample ID	CD6 02/12/16 - 03/01/17		I		
Clier	it samplii	ng date / time	03-Jan-2017 00:00				Average even in weith prepared dutil Avel design of America Exhibit Automobilisation prepared.
CAS Number	LOR	Unit	EN1700005-006	-		l	
			Result				1
	0.1	g/m².month	0.4				
	_	mg	&				
-	0.1	g/m².month	0.3				
	1	mg	OT .		-		
	0.1	g/m².month	0.7				
	_	mg	13				
	Clier CAS Number		Slie Slie	Slient sample ID Sling date / time Unit g/m².month mg g/m².month mg g/m².month mg	CD6	CD6	Silent sample ID CD6 O2/12/16 - 03/01/17 O2/12/16 - 03/01/17 O2/12/16 - 03/01/17 O2/12/16 - 03/01/17 O2/17 00:00 O2/17 00:00



CERTIFICATE OF ANALYSIS

Client No, of samples analysed No. of samples received Sampler C-O-C number Order number Work Order Quote number Project Address Contact Telephone ES1700033 SYBQ/222/16 CARBON BASED +61 02 6571 3334 **47 BOOMERANG ST** All Deliverables **CBASED ENVIRONMENTAL PTY LTD** HANSON QUARRY CESSNOCK NSW, AUSTRALIA 2325 Page **Date Analysis Commenced** Date Samples Received Address Contact Laboratory Telephone 1 of 2 03-Jan-2017 **Environmental Division Sydney** 03-Jan-2017 14:25 277-289 Woodpark Road Smithfield NSW Australia 2164 10-Jan-2017 10:24 +61-2-8784 8555 Customer Services ES るの一番 Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Signatories

Quality Review and Sample Receipt Notification. Signatories

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with

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

Neil Martin Ankit Josh Team Leader - Chemistry Inorganic Chemist Chemistry, Newcastle West, NSW Sydney Inorganics, Smithfield, NSW

Page : 2 of 2

Work Order : ES1700033

Client : CBASED ENVIRONMENTAL PTY LTD

Project : HANSON QUARRY



General Comments

developed procedures are employed in the absence of documented standards or by client request. 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

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 no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component.

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

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

 $^{\mathsf{a}}$ = This result is computed from individual analyte detections at or above the level of reporting \emptyset = ALS is not NATA accredited for these tests.

Key

= Indicates an estimated value.

TDS by method EA-015 may bias high for sample 1 due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		0	Client sample ID	Α	Ç	C2	7	-
	Clie	ent samp	Client sampling date / time	03-Jan-2017 11:00	03-Jan-2017 13:00	03-Jan-2017 13:10	03-Jan-2017 10:50	
Compound	CAS Number LOR	LOR	Unit	ES1700033-001	ES1700033-002	ES1700033-003	ES1700033-004	
				Result	Result	Result	Result	
EA005: pH								
pH Value		0.01	pH Unit	6.17	6.80	6.52	6.24	
EA010P: Conductivity by PC Titrator								
Electrical Conductivity @ 25°C	1	_	µS/cm	88	103	103	99	
EA015: Total Dissolved Solids dried at 180 ± 5 °C	±5°C							
Total Dissolved Solids @180°C	1	10	mg/L	99	70	53	71	
EA025: Total Suspended Solids dried at 104 ± 2°C	14 ± 2°C							
Suspended Solids (SS)		ъ	mg/L	7	17	14	o	
EP020: Oil and Grease (O&G)								
Oil & Grease		ū	mg/L	10	7	\$	<5	