



Attachment 4.1H - Environmental Monitoring Worksheet

Period: 3/16/2017 - 31/03/2017

Location	Test	Freq	Limit	Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
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min max

NRR = No Result Recorded

Site: Albion Park Quarry

Environment Protection Licence No.	122
Site Name (As it appears on the licence)	Albion Park Quarry
Site Address (As it appears on the licence)	Albion Park Quarry Woollybutt Drive ALBION PARK RAIL NSW 2527
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=31016&SYSUID=1&LICID=122

Water

Point 2	Test	Freq	Limit	Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
	pH	After 90mm rain	6.5	8.5	pH	7/3/2017	Y	7/3/2017	14/07/2017	8.1	
	Oil and Grease	After 90mm rain	0	0	Visible	7/3/2017	Y	7/3/2017	14/03/2017	0	
	TSS	After 90mm rain		50	mg/L	7/3/2017	Y	7/3/2017	14/07/2017	16	

Air

Site 1	Test	Freq	Limit	Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
Site 1	Ash	Monthly		90	2/3/2017	Y	7/3/2017	10/3/2017		2.6	
site 2	Ash	Monthly		90	2/3/2017	Y	7/3/2017	10/3/2017		0.7	
Site 3	Ash	Monthly		90	2/3/2017	Y	7/3/2017	10/3/2017		2.8	
Site 4	Ash	Monthly		90	2/3/2017	Y	7/3/2017	10/3/2017		1.9	

Blasting

Test	Freq	Limit	Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
Per Blast		5	mm/s	9/3/2017	Y	9/3/2017	9/3/2017		0.49	
Per Blast		115	dB	9/3/2017	Y	9/3/2017	9/3/2017		81.6	
Per Blast		5	mm/s	13/03/2017	Y	13/03/2017	13/03/2017		0.31	
Per Blast		115	dB	13/03/2017	Y	13/03/2017	13/03/2017		81.6	
Per Blast		5	mm/s	13/03/2017	Y	13/03/2017	13/03/2017		0.31	
Per Blast		115	dB	13/03/2017	Y	13/03/2017	13/03/2017		81.6	

Site: "Johnniefelds" Marulan Quarry

Environment Protection Licence No.	1371
Site Name (As it appears on the licence)	Marulan Quarry
Site Address (As it appears on the licence)	Marulan Quarry Brayton Road MARULAN NSW 2579
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28960&SYSUID=1&LICID=1371

Blasting

Underdowns	Test	Freq	Limit	Units	Sample Date	NSW Environment Protection Licence Requirement	Date Sample Transferred to Laboratory	Date Sample Results Received by Holcim	Date of Remote Data Download	Result	Comments
	Overpressure	Per Blast		115	dB	Y				NRR	No blasting in the reporting period.
	Vibration	Per Blast		5	mm/s	Y				NRR	

Site: Lynwood Quarry

Environment Protection Licence No.	12939
Site Name (As it appears on the licence)	Lynwood Quarry
Site Address (As it appears on the licence)	Lynwood Quarry 278 Stoney Creek Road, MARULAN NSW 2579
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=29690&SYSUID=1&LICID=12939

Air												
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	19/3/17	Y	20/3/17	24/3/17		7.8	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	25/3/17	Y	28/3/17	31/3/17		1	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	19/3/17	Y	20/3/17	24/3/17		6.6	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	25/3/17	Y	28/3/17	31/3/17		3.5	
Blasting												
B3	Peak Particle Velocity	Per Blast	0	5	mm/sec		Y				NRR	No blasting in the reporting period.
B3	Overpressure	Per Blast	0	115	dB		Y				NRR	

Site: Cooma Road Quarry

Environment Protection Licence No.	1453
Site Name (As it appears on the licence)	Cooma Road Quarry
Site Address (As it appears on the licence)	Cooma Road Quarry Cooma Road Queanbeyan NSW 2620
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28929&SYSUID=1&LICID=1453

Blasting											
Heffernans House	Overpressure	Per blast	0	115	dB	20/3/2017	Y	20/03/2017	20/03/2017		102
	Vibration	Per blast	0	5	mm/s	20/3/2017	Y	20/03/2017	20/03/2017		0.52

Site: Dubbo Quarry

Environment Protection Licence No.	2212
Site Name (As it appears on the licence)	Dubbo Quarry
Site Address (As it appears on the licence)	Sheraton Road, Dubbo, NSW,2830
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28936&SYSUID=1&LICID=2212

Blasting												
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y				NRR	No blasting in the reporting period.
	Vibration	Per blast		10	mm/s		Y				NRR	

Site: Humes - Blacktown

Environment Protection Licence No.	1310
Site Name (As it appears on the licence)	Humes Blacktown
Site Address (As it appears on the licence)	Humes Blacktown Lot 1 Woodstock Ave ROOTY HILL NSW 2766
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeapp/ViewPOEOLicence.aspx?DOCID=28958&SYSUID=1&LICID=1310

Water											
Sediment Basin	TSS	Daily During Discharge		50	mg/L	22/03/2017	Y	22/03/2017	22/03/2017		30
	pH	Daily During Discharge	6.5	8.5	pH	22/03/2017	Y	22/03/2017	22/03/2017		7.3
Sediment Basin	TSS	Daily During Discharge		50	mg/L	23/03/2017	Y	23/03/2017	23/03/2017		35
	pH	Daily During Discharge	6.5	8.5	pH	23/03/2017	Y	23/03/2017	23/03/2017		7.39
Sediment Basin	TSS	Daily During Discharge		50	mg/L	24/03/2017	Y	24/03/2017	24/03/2017		33
	pH	Daily During Discharge	6.5	8.5	pH	24/03/2017	Y	24/03/2017	24/03/2017		7.48
Sediment Basin	TSS	Daily During Discharge		50	mg/L	27/03/2017	Y	27/03/2017	27/03/2017		31
	pH	Daily During Discharge	6.5	8.5	pH	27/03/2017	Y	27/03/2017	27/03/2017		7.35

Site: Teven Quarry

Environment Protection Licence No.	3293
Site Name (As it appears on the licence)	Readymix Teven Quarry
Site Address (As it appears on the licence)	Stokers Lane Teven NSW 2478
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=29168&SYSUID=1&LICID=3293

Blasting											
Wellers Rd	Overpressure	Per blast	0	120	dB	23/03/2017	Y	23/03/2017	23/03/2017		113
	Vibration	Per blast	0	120	mm/s	23/03/2017	Y	23/03/2017	23/03/2017		0.45

Site: Boambee Quarry

Environment Protection Licence No.	7094
Site Name (As it appears on the licence)	Boambee Quarry
Site Address (As it appears on the licence)	Boambee Quarry North Boambee Road BOAMBE NSW 2450
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=31235&SYSUID=1&LICID=7094

Blasting (M4 & L2.1 - To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)												
	Overpressure	Per blast	0	120	dB		Y				NRR	No blasting in the reporting period.
	Vibration	Per blast	0	10	mm/s		Y				NRR	

Site: Tuncurry Sand

Environment Protection Licence No.	13359
Site Name (As it appears on the licence)	Tuncurry Sand Quarry
Site Address (As it appears on the licence)	Tip Road Tuncurry NSW 2428
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30945&SYSUID=1&LICID=13359

Air											
ID #1	Deposited Matter	Monthly	0	4	g/m2/month	10/3/2017	Y	16/03/2017	16/03/2017		0.8

Site: Jandra Quarry

Environment Protection Licence No.	2796
Site Name (As it appears on the licence)	Jandra Quarry
Site Address (As it appears on the licence)	Pacific Highway Possum Brush NSW 2430
Link to Licence on EPA Website	http://www.environment.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=30958&SYSUID=1&LICID=2796

Blasting (To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)											
	Overpressure	Per blast	0	120	dB	27/3	Y	27/03/2017	27/03/2017		109.7
	Vibration	Per blast	0	10	mm/s	27/3	Y	27/03/2017	27/03/2017		1.23