



Attachment 4.1H - Environmental Monitoring Worksheet

Period: 1/12/2017 - 15/12/17

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
			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 1	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	
Point 2	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	
Point 1	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	
Point 2	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	
Point 1	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	
Point 2	pH	After 90mm rain	6.5	8.5	pH	Y					NRR	
	Oil and Grease	After 90mm rain	0	0	Visible	Y					NRR	
	TSS	After 90mm rain		50	mg/L	Y					NRR	

Air

Point 3	Ash	Monthly		90		Y					NRR	
Point 4	Ash	Monthly		90		Y					NRR	
Point 5	Ash	Monthly		90		Y					NRR	
Point 6	Ash	Monthly		90		Y					NRR	

Blasting

RL93	Fixed monitor	Per Blast	0	5	mm/s	7/12/2017	Y				0.6	
RL93	Fixed monitor	Per Blast	0	115	dB	7/12/2017	Y				77	
		Per Blast		5	mm/s		Y				NRR	
		Per Blast		115	dB		Y				NRR	
		Per Blast		5	mm/s		Y				NRR	
		Per Blast		115	dB		Y				NRR	
		Per Blast		5	mm/s		Y				NRR	
		Per Blast		115	dB		Y				NRR	
		Per Blast		5	mm/s		Y				NRR	

Site: "Johnniefelds" Marulan Quarry

Environment Protection Licence No.	1371
Site Name (As it appears on the licence)	Marulan Quarry

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			min	max								

NRR = No Result Recorded

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	Overpressure	Per Blast		115	dB		Y				NRR	No blasting for this period.
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	Vibration	Per Blast		5	mm/s		Y				NRR	
Underdowns	Overpressure	Per Blast		115	dB		Y				NRR	
	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												
DD 5	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				NRR	
DD 8	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				NRR	
DD 11	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				NRR	
DD 12	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				NRR	
DD 13	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				NRR	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	2/12/2017	Y	4/12/2017	12/12/2017		3.00	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	8/12/2017	Y	11/12/2017	19/12/17		8.40	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	14/12/17	Y	15/12/17	22/12/17		28.00	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	2/12/2017	Y	4/12/2017	12/12/2017		8.40	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	8/12/2017	Y	11/12/2017	19/12/17		3.10	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	14/12/17	Y	15/12/17	22/12/17		3.20	

Blasting												
										Time of Blast		
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	5/12/2017	Y	12:15:00 PM	5/12/2017		0.00	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	5/12/2017	Y	12:15:00 PM	5/12/2017		2.86	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	5/12/2017	Y	12:15:00 PM	5/12/2017		0.00	
B3 - Resident	Overpressure	Per Blast	0	115	dB	5/12/2017	Y	12:15:00 PM	5/12/2017		0.00	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	7/12/2017	Y	3:06:00 PM	7/12/2017		0.62	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	7/12/2017	Y	3:06:00 PM	7/12/2017		1.26	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	7/12/2017	Y	3:06:00 PM	7/12/2017		0.00	
B3 - Resident	Overpressure	Per Blast	0	115	dB	7/12/2017	Y	3:06:00 PM	7/12/2017		0.00	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	14/12/2017	Y	3:18:00 PM	14/12/2017		1.18	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	14/12/2017	Y	3:18:00 PM	14/12/2017		2.43	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	14/12/2017	Y	3:18:00 PM	14/12/2017		0.00	

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			min	max								
											NRR = No Result Recorded	
B3 - Resident	Overpressure	Per Blast	0	115	dB	14/12/2017	Y	3:18:00 PM	14/12/2017		0.00	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec		Y				NRR	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec		Y				NRR	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec		Y				NRR	
B3 - Resident	Overpressure	Per Blast	0	115	dB		Y				NRR	
B1 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec		Y				NRR	
B2 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec		Y				NRR	
B3 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec		Y				NRR	
B3 - Resident	Overpressure	Per Blast	0	115	dB		Y				NRR	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B4 - Resident	Overpressure	Per Blast	0	115	dB	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B5 - Resident	Overpressure	Per Blast	0	115	dB	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	6/12/2017	Y	11:48:00 AM	6/12/2017		0.00	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	12/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B4 - Resident	Overpressure	Per Blast	0	115	dB	12/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	12/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B5 - Resident	Overpressure	Per Blast	0	115	dB	12/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	15/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	15/12/2017	Y	1:37:00 PM	12/12/2017		0.00	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	15/12/2017	Y	1:13:00 PM	15/12/2017		0.00	
B4 - Resident	Overpressure	Per Blast	0	115	dB	15/12/2017	Y	1:13:00 PM	15/12/2017		0.00	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	15/12/2017	Y	1:13:00 PM	15/12/2017		0.00	
B5 - Resident	Overpressure	Per Blast	0	115	dB	15/12/2017	Y	1:13:00 PM	15/12/2017		0.00	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	15/12/2017	Y	1:13:00 PM	15/12/2017		0.86	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	15/12/2017	Y	1:13:00 PM	15/12/2017		0.86	

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/prpocapp/ViewPOEOLicence.aspx?DOCID=28929&SYSUID=1&LICID=1453

Water												
Barracks Creek	pH	Monthly	6.5	8.5	pH	1/12/2017	Y				7.4	
	Total O&G	Monthly	0	10	mg/L	1/12/2017	Y				<1	
	Susp. Solids	Monthly	0	50	mg/L	1/12/2017	Y				6	
Blasting												
Heffernans House	Overpressure	Per blast	0	115	dB		Y				NRR	No blasting for this period.
	Vibration	Per blast	0	5	mm/s		Y				NRR	
Heffernans House	Overpressure	Per blast	0	115	dB		Y				NRR	
	Vibration	Per blast	0	5	mm/s		Y				NRR	
Heffernans House	Overpressure	Per blast	0	115	dB		Y				NRR	
	Vibration	Per blast	0	5	mm/s		Y				NRR	

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			min	max								
Heffernans House	Overpressure	Per blast	0	115	dB		Y				NRR	NRR = No Result Recorded
	Vibration	Per blast	0	5	mm/s		Y				NRR	

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/ViewPOELlicence.aspx?DOCID=29036&SYSUID=1&LICID=2212

Blasting

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
Quarry Property at same radius as Warren House	Overpressure	Per blast	120	dB	12/12/2017	Y				92.8	Warren has sold out to Regional Hardrock and they are not interested in us monitoring blasting there.
	Vibration	Per blast	10	mm/s	12/12/2017	Y				1.31	They do not want us to enter.
	Overpressure	Per blast	120	dB		Y				NRR	
	Vibration	Per blast	10	mm/s		Y				NRR	
	Overpressure	Per blast	120	dB		Y				NRR	
	Vibration	Per blast	10	mm/s		Y				NRR	
	Overpressure	Per blast	120	dB		Y				NRR	
	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/ViewPOELlicence.aspx?DOCID=28958&SYSUID=1&LICID=1310

Water

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
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	
Sediment Basin	TSS	Daily During Discharge	50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH	Y				NRR	

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			min	max								
											NRR = No Result Recorded	
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR	
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR	
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR	
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR	
Sediment Basin	TSS	Daily During Discharge		50	mg/L		Y				NRR	
	pH	Daily During Discharge	6.5	8.5	pH		Y				NRR	

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/prpoeapp/ViewPOEOLicence.aspx?DOCID=29168&SYSUID=1&LICID=3293

Water												
ID #1	pH	Weekly	6.5	8.5	pH	4/12/2017	Y				6.92	
ID #1	pH	Weekly	6.5	8.5	pH	11/12/2017	Y				7.01	
ID #1	Oil&Grease	Yearly during discharge (August)	0	10	mg/L		Y				NRR	
ID #1	TSS	Yearly during discharge (August)	0	50	mg/L		Y				NRR	

Noise												
144 Stokers Lane - Murphy's Residence	dB(A) L Aeq 15 min	Not specified	0	46	dB		Y				NRR	

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/prpoeapp/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	7/12/2017	Y				104.4	Shot 187 - OB. RL125
	Vibration	Per blast	0	10	mm/s	7/12/2017	Y				1.26	Shot 187 - OB. RL125
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	

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			min	max								
											NRR = No Result Recorded	

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

Water

ID#2 Surface H2O "Lake 1"	Arsenic	Quarterly	0		mg/L		Y				NRR	
	Conductivity	Quarterly	0		µS/cm	22/11/2017	Y				191	
	Copper	Quarterly	0		mg/L		Y				NRR	
	Iron	Quarterly	0		mg/L		Y				NRR	
	pH	Quarterly	0		pH	22/11/2017	Y				7.6	
	Zinc	Quarterly	0		mg/L		Y				NRR	
ID#3 Surface H2O "Lake 2"	Arsenic	Quarterly	0		mg/L		Y				NRR	
	Conductivity	Quarterly	0		µS/cm	22/11/2017	Y				285	
	Copper	Quarterly	0		mg/L		Y				NRR	
	Iron	Quarterly	0		mg/L		Y				NRR	
	pH	Quarterly	0		pH	22/11/2017	Y				7.8	
	Zinc	Quarterly	0		mg/L		Y				NRR	
ID#4 Surface H2O "Lake 3"	Arsenic	Quarterly	0		mg/L		Y				NRR	
	Conductivity	Quarterly	0		µS/cm	22/11/2017	Y				337	
	Copper	Quarterly	0		mg/L		Y				NRR	
	Iron	Quarterly	0		mg/L		Y				NRR	
	pH	Quarterly	0		pH	22/11/2017	Y				8	
	Zinc	Quarterly	0		mg/L		Y				NRR	
ID#5 Surface H2O "Lake 4"	Arsenic	Quarterly	0		mg/L		Y				NRR	
	Conductivity	Quarterly	0		µS/cm	22/11/2017	Y				401	
	Copper	Quarterly	0		mg/L		Y				NRR	
	Iron	Quarterly	0		mg/L		Y				NRR	
	pH	Quarterly	0		pH	22/11/2017	Y				8	
	Zinc	Quarterly	0		mg/L		Y				NRR	

Air

ID #1	Deposited Matter	Monthly	0	4	g/m2/month	19/12/17	Y				1.1	
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Site: Jandra Quarry

Environment Protection Licence No.	2796
Site Name (As it appears on the licence)	Jandra Quarry

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			min	max								
											NRR = No Result Recorded	
							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/prpoeapp/ViewPOEOLicence.aspx?DOCID=30958&SYSUID=1&LICID=2796				
Water												
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH		Y				NRR	
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR	
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR	
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR	
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR	
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH		Y				NRR	
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR	
ID #1	Discharge TSS	2 X Daily during discharge	0	50	mg/L		Y				NRR	
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR	
ID #1	Discharge Turbidity	2 X Daily during discharge	0		ntu		Y				NRR	
ID #1	Discharge pH	Each overflow event	6.5	8.5	pH		Y				NRR	
DD 1	Insoluble Solids	Monthly	0	4	mg/m2/month	19/12/17	Y				0.6	
DD 2	Insoluble Solids	Monthly	0	4	mg/m2/month	19/12/17	Y				0.5	
DD 3	Insoluble Solids	Monthly	0	4	mg/m2/month	19/12/17	Y				1	
DD 4	Insoluble Solids	Monthly	0	4	mg/m2/month	19/12/17	Y				0.5	
HVAS 1	Insoluble Solids	Monthly	0	4	mg/m2/month	19/12/17	Y				9	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	21/11/2017	Y				4	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	27/11/2017	Y				10	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	3/12/2017	Y				10	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	9/12/2017	Y				18	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	15/12/2017	Y				NRR	
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	13/12/17	Y				102.9	
	Vibration	Per blast	0	10	mm/s	13/12/17	Y				0.52	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
	Overpressure	Per blast	0	120	dB		Y				NRR	
	Vibration	Per blast	0	10	mm/s		Y				NRR	
Annual Blasting Requirements (Calculated each month on a cummulative basis)												
	Overpressure	Monthly (Cummulative)	115	120	dB		Y				NRR	
	Vibration	Monthly (Cummulative)	5	10	mm/s		Y				NRR	