Attachment 4.1H - Environmental Monitoring Worksheet

Period: 16/09/2018 - 30/09/2018

Location	Test	Freq	Limit min	Limit max	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

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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=54925&SYSUID=1&LICID=122

Location	Test	Freq	Limit min	Limit max	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
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								**Time of Blast**				
93RL		Per Blast		5	mm/s		Y				**0.57**	
		Per Blast		115	dB		Y				**105**	
		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: "Johhniefelds" 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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32923&SYSUID=1&LICID=1371				
Blasting								**Time of Blast**				
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**	
Underdowns	Overpressure	Per Blast		115	dB		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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=105521&SYSUID=1&LICID=12939

Air												
DD 5	Insoluble Solids	Monthly	0	4	mg/m2/month	17/9/18	Y	17/9/18	24/9/18		**3/1/00**	
DD 8	Insoluble Solids	Monthly	0	4	mg/m2/month	17/9/18	Y	17/9/18	24/9/18		**0/1/00**	
DD 11	Insoluble Solids	Monthly	0	4	mg/m2/month	17/9/18	Y	17/9/18	24/9/18		**1/1/00**	
DD 12	Insoluble Solids	Monthly	0	4	mg/m2/month	17/9/18	Y	17/9/18	24/9/18		**0/1/00**	
DD 13	Insoluble Solids	Monthly	0	4	mg/m2/month	17/9/18	Y	17/9/18	24/9/18		**1.70**	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	22/9/18	Y	24/9/18	27/9/18		**14.40**	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	0/1/00	Y	12:00:00 AM	12:00:00 AM		**NRR**	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3	0/1/00	Y	12:00:00 AM	12:00:00 AM		**NRR**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	22/9/18	Y	24/9/18	27/9/18		**15.10**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	0/1/00	Y	12:00:00 AM	12:00:00 AM		**NRR**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3	0/1/00	Y	12:00:00 AM	12:00:00 AM		**NRR**	
Blasting								**Time of Blast**				
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	18/09/2018	Y	10:59:00 AM			**0.00**	
B4 - Resident	Overpressure	Per Blast	0	115	dB	18/09/2018	Y	10:59:00 AM			**0.00**	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	18/09/2018	Y	10:59:00 AM			**0.00**	
B5 - Resident	Overpressure	Per Blast	0	115	dB	18/09/2018	Y	10:59:00 AM			**0.00**	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	18/09/2018	Y	10:59:00 AM			**0.81**	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	18/09/2018	Y	10:59:00 AM			**0.81**	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	20/09/2018	Y	12:38:00 PM			**0.00**	
B4 - Resident	Overpressure	Per Blast	0	115	dB	20/09/2018	Y	12:38:00 PM			**0.00**	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	20/09/2018	Y	12:38:00 PM			**0.00**	
B5 - Resident	Overpressure	Per Blast	0	115	dB	20/09/2018	Y	12:38:00 PM			**0.00**	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	20/09/2018	Y	12:38:00 PM			**0.00**	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	20/09/2018	Y	12:38:00 PM			**0.00**	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B4 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B5 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B4 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	
B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B5 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B4 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B4 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	

B5 - Resident	Peak Particle Velocity	Per Blast	0	5	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B5 - Resident	Overpressure	Per Blast	0	115	dB	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Rail	Peak Particle Velocity	Per Blast	0	25	mm/sec	0/1/00	Y	12:00:00 AM			**NRR**	
B6 - Pipeline	Peak Particle Velocity	Per Blast	0	100	mm/sec	0/1/00	Y	12:00:00 AM			**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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=32932&SYSUID=1&LICID=1453

Water												
Barracks Creek	pH	Monthly	6.5	8.5	pH		Y				**NRR**	
	Total O&G	Monthly	0	10	mg/L		Y				**NRR**	
	Susp. Solids	Monthly	0	50	mg/L		Y				**NRR**	
Blasting								**Time of Blast**				
Heffernans House	Overpressure	Per blast	0	115	dB	21/9/2018	Y				**107.7**	
	Vibration	Per blast	0	5	mm/s	21/9/2018	Y				**0.43**	
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**	
Heffernans House	Overpressure	Per blast	0	115	dB		Y				**NRR**	
	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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=42179&SYSUID=1&LICID=2212

Blasting								**Time of Blast**				
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y				**NRR**	
	Vibration	Per blast		10	mm/s		Y				**NRR**	
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y				**NRR**	
	Vibration	Per blast		10	mm/s		Y				**NRR**	
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y				**NRR**	
	Vibration	Per blast		10	mm/s		Y				**NRR**	
WARRENS HOUSE	Overpressure	Per blast		120	dB		Y				**NRR**	
	Vibration	Per blast		10	mm/s		Y				**NRR**	

Site: Dunloe Sands Quarry

Environment Protection Licence No.	**13077**
Site Name (As it appears on the licence)	Dunloe Sands Quarry
Site Address (As it appears on the licence)	Pottsville-Mooball Road, Mooball NSW 2483
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=134905&SYSUID=1&LICID=13077

Water - *Frequency is as per 'Special Frequency 1' referred to in Condition M2.3 of EPL												
Silt Pond discharge monitoring point	Discharge pH	<24 hours prior to overflow event*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 1)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0

0	Discharge pH	Overflow (Day 2)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 3)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 4)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 5)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge TSS	<24 hours prior to overflow event*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 1)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 2)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 3)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 4)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 5)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Oil and Grease	<24 hours prior to overflow event*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 1)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 2)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 3)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 4)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 5)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
Dredge Pond discharge monitoring point	Discharge pH	<24 hours prior to overflow event*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 1)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 2)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 3)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 4)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge pH	Overflow (Day 5)*	6.5	8.5	pH	0/1/00	Y				**NRR**	0
0	Discharge TSS	<24 hours prior to overflow event*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 1)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 2)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 3)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 4)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Discharge TSS	Overflow (Day 5)*	0	50	mg/L	0/1/00	Y				**NRR**	0
0	Oil and Grease	<24 hours prior to overflow event*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 1)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 2)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 3)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 4)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
0	Oil and Grease	Overflow (Day 5)*	0	0	0=Not Visible; 1=Visible	0/1/00	Y				**NRR**	0
Groundwater	0	0					0	**0**	0	0	0	
DLP1	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
DLP2	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
DLP3	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
DLP5	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0

0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
DLP6	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
DLP7	Ammonia	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Chloride	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Electrical conductivity	Yearly	-	-	µm/cm	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Oil and Grease	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	pH	Yearly	-	-	pH	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Standing Water Level	Yearly	-	-	m	0/1/00	Y		0/1/00	0/1/00	**NRR**	0
0	Sulfate	Yearly	-	-	mg/L	0/1/00	Y		0/1/00	0/1/00	**NRR**	0

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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=35038&SYSUID=1&LICID=1310

Water

Sediment Basin	TSS	Daily During Discharge		50	mg/L	18/9	Y				**27**	
	pH	Daily During Discharge	6.5	8.5	pH	18/9	Y				**7.4**	
Sediment Basin	TSS	Daily During Discharge		50	mg/L	19/9	Y				**16**	
	pH	Daily During Discharge	6.5	8.5	pH	19/9	Y				**7.36**	
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**	
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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=85921&SYSUID=1&LICID=3293

Water

Water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	17/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	17/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	17/9/18	Y	0/1/00	0/1/00	0/1/00	3/1/00
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	17/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	17/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Licenced Discharge Point 2	**TSS**	**Special Frequency 1**	0	50	mg/L	17/9/18	Y	0/1/00	0/1/00	0/1/00	2/1/00
Water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	18/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	18/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	18/9/18	Y	0/1/00	0/1/00	0/1/00	11/1/00
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	18/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	18/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Licenced Discharge Point 2	**TSS**	**Special Frequency 1**	0	50	mg/L	18/9/18	Y	0/1/00	0/1/00	0/1/00	2/1/00
Water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	25/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	25/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	25/9/18	Y	0/1/00	0/1/00	0/1/00	24/1/00
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	25/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	25/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Licenced Discharge Point 2	**TSS**	**Special Frequency 1**	0	50	mg/L	25/9/18	Y	0/1/00	0/1/00	0/1/00	2/1/00
Water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	26/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	26/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	26/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	26/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	26/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Licenced Discharge Point 2	**TSS**	**Special Frequency 1**	0	50	mg/L	26/9/18	Y	0/1/00	0/1/00	0/1/00	6/1/00
water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	27/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	27/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	27/9/18	Y	0/1/00	0/1/00	0/1/00	8/1/00
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	27/9/18	Y	0/1/00	0/1/00	0/1/00	7/1/00
Licenced Discharge Point 2	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	27/9/18	Y	0/1/00	0/1/00	0/1/00	0/1/00
Licenced Discharge Point 2	**TSS**	**Special Frequency 1**	0	50	mg/L	27/9/18	Y	0/1/00	0/1/00	0/1/00	6/1/00
Water Discharge Point 1	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Water Discharge Point 1	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Water Discharge Point 1	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point 2	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**pH**	**Special Frequency 1**	6.5	8.5	pH	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**Oil&Grease**	**Special Frequency 1**	0	1	Visible	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR
Licenced Discharge Point	**TSS**	**Special Frequency 1**	0	50	mg/L	0/1/00	Y	0/1/00	0/1/00	0/1/00	NRR

Noise

168 Weller's Road, Teven (or Receiver No. 2 in Consent)	**Daytime - LAeq (15 min)**	Yearly	0	37	dB (A)		Y				**NRR**	
168 Weller's Road, Teven (or Receiver No. 2 in	**Evening (6am-10pm Mon - Sun) - LAeq (15 min)**	Yearly	0	35	dB (A)		Y				**NRR**	
Blasting								**Time of Blast**				
Any point - 1 metre of any affected residential	**Overpressure**	**Per Blast**	**0**	**115**	**dB**	0/1/00	Y	0/1/00	0/1/00	0/1/00	**NRR**	
Any point - 1 metre of any affected residential	**Peak Particle Velocity**	**Per Blast**	**0**	**5**	**mm/sec**	0/1/00	Y	0/1/00	0/1/00	0/1/00	**NRR**	
Any point - 1 metre of any affected residential	**Overpressure**	**Per Blast**	**0**	**115**	**dB**	0/1/00	Y	0/1/00	0/1/00	0/1/00	**NRR**	
Any point - 1 metre of any affected residential	**Peak Particle Velocity**	**Per Blast**	**0**	**5**	**mm/sec**	0/1/00	Y	0/1/00	0/1/00	0/1/00	**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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=108484&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)								**Time of Blast**				
	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**	
	Overpressure	Per blast	0	120	dB		Y				**NRR**	
	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://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=47350&SYSUID=1&LICID=13359

Water												
ID#2 Surface H20 "Lake 1"	Aresnic	Quarterly	0		mg/L		Y				**NRR**	
	Conductivity	Quarterly	0		µS/cm		Y				**NRR**	
	Copper	Quarterly	0		mg/L		Y				**NRR**	
	Iron	Quarterly	0		mg/L		Y				**NRR**	
	pH	Quarterly	0		pH		Y				**NRR**	
	Zinc	Quarterly	0		mg/L		Y				**NRR**	
ID#3 Surface H20 "Lake 2"	Aresnic	Quarterly	0		mg/L		Y				**NRR**	
	Conductivity	Quarterly	0		µS/cm		Y				**NRR**	
	Copper	Quarterly	0		mg/L		Y				**NRR**	
	Iron	Quarterly	0		mg/L		Y				**NRR**	
	pH	Quarterly	0		pH		Y				**NRR**	
	Zinc	Quarterly	0		mg/L		Y				**NRR**	
ID#4 Surface H20 "Lake 3"	Aresnic	Quarterly	0		mg/L		Y				**NRR**	
	Conductivity	Quarterly	0		µS/cm		Y				**NRR**	
	Copper	Quarterly	0		mg/L		Y				**NRR**	
	Iron	Quarterly	0		mg/L		Y				**NRR**	
	pH	Quarterly	0		pH		Y				**NRR**	
	Zinc	Quarterly	0		mg/L		Y				**NRR**	
ID#5 Surface H20 "Lake 4"	Aresnic	Quarterly	0		mg/L		Y				**NRR**	

	Conductivity	Quarterly	0		µS/cm		Y				NRR	
	Copper	Quarterly	0		mg/L		Y				NRR	
	Iron	Quarterly	0		mg/L		Y				NRR	
	pH	Quarterly	0		pH		Y				NRR	
	Zinc	Quarterly	0		mg/L		Y				NRR	
Air												
ID #1	Depositied Matter	Monthly	0	4	g/m2/month		Y				**NRR**	

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)	Pacfic Highway Possum Brush NSW 2430
Link to Licence on EPA Website	http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=87197&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								
DD 2	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				**NRR**	
DD 3	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				**NRR**	
DD 4	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				**NRR**	
HVAS 1	Insoluble Solids	Monthly	0	4	mg/m2/month		Y				**NRR**	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3		Y				**NRR**	
HVAS 1	PM10	24hr (every 6 days)	0	50	µg/m3		Y				**NRR**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				**NRR**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				**NRR**	
HVAS 2	PM10	24hr (every 6 days)	0	50	µg/m3		Y				**NRR**	
Blasting (To determine compliance with L3, measurements to be taken at any point within 1 metre of residential boundary)								**Time of Blast**				
	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**	
	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**	