

East Guyong Quarry Information	
Premise Details	Hanson – East Guyong Quarry
Address	3410 Mitchell Highway Byng NSW 2798
Licensee	Hanson Construction Materials Pty Ltd
EPL Number	20190
EPL Location	https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=164181&SY SUID=1&LICID=20190

The monitoring report is to satisfy the requirements of Section 66 (6) of the *Protection of Environment and Operations Act 1997*, to make available, within 14 days of request, any monitoring data that relates to pollution under an Environmental Protection Licence.

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 10406 (EPL020190 – East Guyong Quarry)

This report provides environmental monitoring data for East Guyong Quarry for the period 1 January 2016 to 30 March 2021.

Monitoring data in this report relates to the monitoring undertaken in the reporting period for the following environmental pollutants:

- Deposited Dust (monthly monitoring)
- Blasting
- PM10
- Water discharge
- Noise

Discharge at Point 1, 2, 3, 4 require the following monitoring requirements			
Pollutant	Units of measure	Frequency	Sampling Method
Ash	grams per square metre per month	Monthly	Australian Standard 3580.10.1-1991
Insoluble solids	grams per square metre per month	Monthly	Australian Standard 3580.10.1-1991
Soluble matter	grams per square metre per month	Monthly	Australian Standard 3580.10.1-1991
Total Solid Particles	grams per square metre per month	Monthly	Australian Standard 3580.10.1-1991

Noise (L2)

L2.2 Noise from the premises must not exceed an Laeq (15 minute) noise emission criterion of 35 dB(A) (6am to 10pm) at the boundary (or within 30 metres of the dwelling) of any dwelling at Lot 61 "Briarlea" and Lot 20.

Blast (L3)

L3.1 The overpressure level from blasting operations on the premises must not:

- a) Exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over a period of 12 months;
- and
- b) Exceed 120dB (Lin Peak) at any time.

L3.2 Ground vibration peak particle velocity from the blasting operations at the premises must not:

- a) Exceed 5mm/s for more than 5% of the total number of blasts over a period of 12 months; and
- b) Exceed 10mm/s at any time.

when measured at any point within 1 metre of any affected residential boundary or other noise sensitive location such as a school or hospital

Dust Deposition Gauge Monthly Monitoring

DDG 1 (Sampling Point 1)				DDG 2 (Sampling Point 3)				DDG 3 (Sampling Point 4)				DDG 4 (Sampling Point 7)			
Month and Year	Date data obtained	Total Insoluble Matter g/m2/month	Rolling Annual Average	Month and Year	Date data obtained	Total Insoluble Matter g/m2/month	Rolling Annual Average	Month and Year	Date data obtained	Total Insoluble Matter g/m2/month	Rolling Annual Average	Month and Year	Date data obtained	Total Insoluble Matter g/m2/month	Rolling Annual Average
2021															
December 2021			0.5	December 2021			11.4	December 2021			1.1	December 2021			3.6
November 2021			0.7	November 2021			10.1	November 2021			1.0	November 2021			3.6
October 2021			0.7	October 2021			9.5	October 2021			1.2	October 2021			3.5
September 2021			0.7	September 2021			8.4	September 2021			1.5	September 2021			3.2
August 2021			0.7	August 2021			7.5	August 2021			1.4	August 2021			3.6
July 2021			0.7	July 2021			6.8	July 2021			1.4	July 2021			3.6
June 2021			0.6	June 2021			6.3	June 2021			1.4	June 2021			3.6
May 2021	10/06/2021	0.4	0.6	May 2021	10/06/2021	16.3	5.8	May 2021	10/06/2021	1.8	1.5	May 2021	10/06/2021	0.7	3.7
April 2021	7/05/2021	0.2	0.6	April 2021	7/05/2021	14.3	4.5	April 2021	7/05/2021	1.1	1.5	April 2021	7/05/2021	0.3	3.8
March 2021	4/05/2021	0.7	0.7	March 2021	4/05/2021	13.3	3.9	March 2021	4/05/2021	0.9	1.9	March 2021	4/05/2021	0.9	4.0
February 2021	20/04/2021	0.7	0.7	February 2021	20/04/2021	3.4	2.9	February 2021	20/04/2021	1.3	2.0	February 2021	20/04/2021	2.4	3.6
January 2021	2/03/2021	0.4	1.3	January 2021	2/03/2021	9.7	3.3	January 2021	2/03/2021	0.5	2.5	January 2021	2/03/2021	3.7	3.3
2020															
December 2020	14/01/2021	1.5	1.9	December 2020	14/01/2021	3.6	2.9	December 2020	14/01/2021	0.6	3.1	December 2020	14/01/2021	2.9	3.6
November 2020	14/01/2021	0.9	1.8	November 2020	14/01/2021	5.9	2.7	November 2020	14/01/2021	1.9	3.2	November 2020	14/01/2021	7.8	3.6
October 2020	26/11/2020	0.7	2.1	October 2020	26/11/2020	0.5	2.7	October 2020	26/11/2020	3.5	3.4	October 2020	26/11/2020	5.3	3.5
September 2020	26/11/2020	0.4	2.3	September 2020	26/11/2020	0.6	3.0	September 2020	26/11/2020	0.6	3.4	September 2020	26/11/2020	1.6	3.2
August 2020	23/09/2020	0.6	2.7	August 2020	23/09/2020	0.8	3.2	August 2020	23/09/2020	1.6	3.9	August 2020	23/09/2020	0.8	3.6
July 2020	26/08/2020	0.1	2.7	July 2020	26/08/2020	0.7	3.2	July 2020	26/08/2020	1.2	4.4	July 2020	26/08/2020	0.4	3.6
June 2020	13/08/2020	0.2	2.8	June 2020	13/08/2020	0.3	5.3	June 2020	13/08/2020	3.1	4.8	June 2020	13/08/2020	0.9	3.6
May 2020	20/07/2020	1	2.9	May 2020	20/07/2020	0.5	4.9	May 2020	20/07/2020	1.7	4.6	May 2020	20/07/2020	0.7	3.7
April 2020	2/06/2020	0.6	2.9	April 2020	2/06/2020	7.4	5.0	April 2020	2/06/2020	6.1	4.6	April 2020	2/06/2020	1	3.8
March 2020	22/04/2020	1.2	3.1	March 2020	22/04/2020	1.8	4.5	March 2020	22/04/2020	1.4	4.4	March 2020	22/04/2020	6.7	4.0
February 2020	6/04/2020	8.1	3.1	February 2020	6/04/2020	7.5	4.5	February 2020	6/04/2020	7.9	4.4	February 2020	6/04/2020	5.8	3.6
January 2020	9/03/2020	7	2.6	January 2020	9/03/2020	5	3.9	January 2020	9/03/2020	7	3.9	January 2020	9/03/2020	9.5	3.3
2019															
December 2019	21/01/2020	0.7	2.1	December 2019	21/01/2020	1.9	3.7	December 2019	21/01/2020	1.8	3.5	December 2019	January 2020	3.2	3.0
November 2019	20/12/2019	4.4	2.2	November 2019	20/12/2019	4.8	3.9	November 2019	20/12/2019	4.5	3.8	November 2019	December 2019	5.7	3.2
October 2019	4/12/2019	3.2	2.1	October 2019	4/12/2019	4.2	3.7	October 2019	4/12/2019	3.9	3.8	October 2019	December 2019	2.5	3.0
September 2019	14/10/2019	5.3	1.9	September 2019	14/10/2019	3.3	3.5	September 2019	14/10/2019	6.9	3.7	September 2019	October 2019	5.5	2.8
August 2019	24/09/2019	1.1	1.7	August 2019	24/09/2019	1.4	3.3	August 2019	24/09/2019	7.7	3.3	August 2019	September 2019	1.1	2.5
July 2019	7/08/2019	1.1	1.7	July 2019	7/08/2019	20.6	3.3	July 2019	7/08/2019	5.6	2.8	July 2019	August 2019	1	2.5
June 2019	7/08/2019	0.8	1.7	June 2019	7/08/2019	0.6	1.7	June 2019	7/08/2019	1	2.5	June 2019	August 2019	1.1	3.1
May 2019	27/06/2019	1.2	1.7	May 2019	27/06/2019	1.1	1.7	May 2019	27/06/2019	0.8	2.5	May 2019	June 2019	2.9	3.1
April 2019	20/05/2019	2.7	1.6	April 2019	20/05/2019	1.6	1.9	April 2019	20/05/2019	3.8	2.6	April 2019	May 2019	2.5	3.0
March 2019	13/05/2019	2	1.5	March 2019	13/05/2019	1.5	2.1	March 2019	13/05/2019	2.1	2.5	March 2019	May 2019	2.7	3.0
February 2019	5/03/2019	1.3	1.5	February 2019	5/03/2019	1.2	3.3	February 2019	5/03/2019	1.2	2.4	February 2019	March 2019	1.5	3.0
January 2019	6/02/2019	1.6	1.5	January 2019	6/02/2019	2.4	3.7	January 2019	6/02/2019	2.6	2.3	January 2019	February 2019	5.9	3.2
2018															
December 2018	21/01/2019	N/A	1.4	December 2018	21/01/2019	4.6	3.7	December 2018	21/01/2019	5	2.2	December 2018	January 2019	5.4	2.8
November 2018	21/01/2019	3.1	1.4	November 2018	21/01/2019	2.4	3.4	November 2018	21/01/2019	4.9	1.8	November 2018	January 2019	3.3	2.5
October 2018	4/12/2018	1	1.3	October 2018	4/12/2017	0.7	3.5	October 2018	4/12/2017	2.5	1.5	October 2018	October 2018	0.7	2.4
September 2018	31/10/2018	2.7	1.2	September 2018	31/10/2018	1	3.5	September 2018	31/10/2018	2.1	1.4	September 2018	October 2018	1.8	2.7
August 2018	15/10/2018	1.4	1.0	August 2018	15/10/2018	1.6	3.8	August 2018	15/10/2018	2.3	1.3	August 2018	September 2018	1.4	2.9
July 2018	3/09/2018	0.9	1.0	July 2018	3/09/2018	1.1	4.0	July 2018	3/09/2018	1.7	1.2	July 2018	July 2018	7.6	3.3
June 2018	27/07/2018	0.5	0.9	June 2018	27/07/2018	1.6	3.9	June 2018	27/07/2018	1.2	1.1	June 2018	July 2018	1.4	1.8
May 2018	6/07/2018	0.5	0.9	May 2018	6/07/2018	3.3	4.6	May 2018	6/07/2018	1.7	1.0	May 2018	May 2018	1.7	2.0
April 2018	30/05/2018	1	0.9	April 2018	30/05/2018	4.2	4.4	April 2018	30/05/2018	2.6	1.3	April 2018	May 2018	2.3	2.3
March 2018	18/05/2018	2.4	0.9	March 2018	18/05/2018	15.7	4.4	March 2018	18/05/2018	1.2	1.2	March 2018			
February 2018	12/04/2018	0.9	1.0	February 2018	12/04/2018	5.4	3.2	February 2018	12/04/2018	0.2	1.2	February 2018			

August 2013	6/09/2013	0.2	0.3	August 2013	6/09/2013	0.2	0.9	August 2013	6/09/2013	0.4	0.7				
July 2013	28/08/2013	0.3	0.3	July 2013	28/08/2013	0.2	1.0	July 2013	28/08/2013	0.4	0.8				
June 2013	8/07/2013	0.1	0.3	June 2013	8/07/2013	0.1	1.2	June 2013	8/07/2013	0.8	0.9				
May 2013		0.7	0.3	May 2013		1.2	1.5	May 2013		1	0.9				
April 2013		0.2	0.2	April 2013		2.4	1.7	April 2013		0.9	0.8				
March 2013		0.1	0.1	March 2013		1	1.0	March 2013		0.7	0.7				
February 2013				February 2013				February 2013							
January 2013				January 2013				January 2013							

Blast Monitoring

Date	Time	Blast Location	Blast #	Monitor Location	Air Blast dBL	Ground Vibration (m/s)	Comment	Comment
2021								
24.06.2021		Cadira Vale	7_21		5m/s		115 dBL	
		Hartley Cottage						
		Access road						
		Fairview						
		Cadira						
08.06.2021		Cadira Vale	6_21	0.54	5m/s	99.2	115 dBL	Ok
		Hartley Cottage		0.82		104.8		Ok
		Access road		0.35		110.4		Ok
		Fairview		0		0		No Trigger event
		Cadira		2.79		102.2		Ok
26.05.2021		Cadira Vale	5_21	0	5m/s	0	115 dBL	No Trigger event
		Hartley Cottage		0.08		112.7		Ok
		Access road		0		0		No Trigger event
		Fairview		0.56		103.5		Ok
		Cadira		0.08		111.9		Ok
22.04.2021		Cadira Vale	4_21	0.56	5m/s	103.4	115 dBL	Ok
		Hartley Cottage		0.97		105.6		Ok
		Access road		0		0		No Trigger event
		Fairview		0		0		No Trigger event
		Cadira	1.66	104	ok			
14.04.2021		Cadira Vale	3_21	0	5m/s	0	115 dBL	No Trigger event
		Hartley Cottage		0		0		No Trigger event
		Access road		0.73		103.8		Ok
		Fairview		0.53		104.7		Ok
		Cadira	0.6	96.1	OK			
24.02.2021		Cadira Vale	2_21	0.16	5m/s	108.8	115 dBL	Ok
		Hartley Cottage		0		0		No Trigger event
		Access road		0.58		99		Ok
		Fairview		0.55		105.8		Ok
		Cadira	0	0	No Trigger event			
4.02.2021		Cadira Vale	1_21	0	5m/s	0	115 dBL	No Trigger event
		Hartley Cottage		0.87		102		Ok
		Access road		0		0		No Trigger event
		Fairview		0		0		No Trigger event
		Cadira	2.2	104	Ok			
2020								
18.12.2020		Cadira Vale	20_20/21	0	5m/s	0	115 dBL	No trigger , Popoversize rocks x 2
		Hartley Cottage		0		0		No trigger , Popoversize rocks x 3
		Access road		0		0		No trigger , Popoversize rocks x 4
		Fairview		0		0		No trigger , Popoversize rocks x 5
		Cadira		0		0		No trigger , Popoversize rocks x 6
17.12.2020		Cadira Vale	20_19/15	0.61	5m/s	0.61	115 dBL	Ok
		Hartley Cottage		0.95		0.95		Ok
		Access road		0.73		0.73		Ok
		Fairview		0		0		no trigger
		Cadira		1.08		1.08		Ok
11.12.2020		Cadira Vale	20_17/18	0	5m/s	0	115 dBL	No trigger , Popoversize rocks x 2
		Hartley Cottage		0		0		No trigger , Popoversize rocks x 3
		Access road		0		0		No trigger , Popoversize rocks x 4
		Fairview		0		0		No trigger , Popoversize rocks x 5
		Cadira		0		0		No trigger , Popoversize rocks x 6
10.12.2020		Cadira Vale	20_12/16	0	5m/s	0	115 dBL	no trigger also pop over size rock
		Hartley Cottage		0		0		no trigger also pop over size rock
		Access road		0		0		no trigger also pop over size rock
		Fairview		0		0		no trigger also pop over size rock
		Cadira		0		0		no trigger also pop over size rock
17.11.2020		Cadira Vale	20_14	0	5m/s	112	115 dBL	Ok
		Hartley Cottage		0		0		no trigger
		Access road		1.12		99.1		Ok
		Fairview		0.95		100.2		Ok
		Cadira	0.08	112.8	Ok			
29.10.2020		Cadira Vale	20_13	0.79	5m/s	111	115 dBL	Ok
		Hartley Cottage		0.68		107.6		Ok
		Access road		0		0		no trigger
		Fairview		0.51		111.9		Ok
		Cadira	1.1	105.9	Ok			
22.09.2020		Cadira Vale	20_11	0	5m/s	0	115 dBL	no trigger
		Hartley Cottage		0		0		no trigger
		Access road		0		0		no trigger
		Fairview		1.01		104.7		ok
		Cadira	0	0	ok			
13.08.2020		Cadira Vale	20_10	0.6	5m/s	114.7	115 dBL	Ok
		Hartley Cottage		0		0		no trigger
		Access road		0		0		no trigger
		Fairview		0.66		106.5		Ok

		Cadira		0		0		no trigger
13.08.2020		Cadira Vale	20_09	3.78	5m/s	107.1	115 dBL	Ok
		Hartley Cottage		0		0		no trigger
		Access road		0		0		no trigger
		Fairview		0.59		103.9		Ok
		Cadira		2.73		103.9		Ok
23.07.2020		Cadira Vale	20_08	0.9	5m/s	105.7	115 dBL	no trigger
		Hartley Cottage		0		0		no trigger
		Access road		0.61		102.1		Ok
		Fairview		0.5		104.7		Ok
		Cadira		1.8		93.9		Ok
19.06.2020		Cadira Vale	20_07	0	5m/s	0	115 dBL	no trigger
		Hartley Cottage		0		0		no trigger
		Access road		0		0		no trigger
		Fairview		0		0		no trigger
		Cadira		0		0		no trigger
19.06.2020		Cadira Vale	20_06	0.69	5m/s	109.5	115 dBL	Ok
		Hartley Cottage		0.12		92.3		Ok
		Access road		0.44		102.3		Ok
		Fairview		0.53		103.5		Ok
		Cadira		1.3		100.1		Ok
4.06.2020		Cadira Vale	20_05	4.45	5m/s	106.5	115 dBL	Ok
		Hartley Cottage		0.88		107.5		Ok
		Access road		0		0		no trigger
		Fairview		0		0		no trigger
		Cadira		1.35		105		Ok
9.06.2020		Cadira Vale	20_04	0	5m/s	0	115 dBL	Pop over size, no trigger
		Hartley Cottage		0		0		Pop over size, no trigger
		Access road		0		0		Pop over size, no trigger
		Fairview		0		0		Pop over size, no trigger
		Cadira		0		0		Pop over size, no trigger
16.04.2020		Cadira Vale	20_02	0	5m/s	0	115 dBL	no trigger
		Hartley Cottage		0		0		no trigger
		Access road		0.5		100		Ok
		Fairview		1.37		107		Ok
		Cadira		0.64		101.9		Ok
20.02.2020		Cadira Vale	20_01	3.98	5m/s	111.8	115 dBL	Ok
		Hartley Cottage		0.898		116.1		Exceedance
		Access road		0		0		no trigger
		Fairview		0		0		no trigger
		Cadira		1.3		113		ok
22.01.2020		Cadira Vale	20_03	2.2	5m/s	107	115 dBL	Ok
		Hartley Cottage		0		0		no trigger
		Access road		0		0		no trigger
		Fairview		0.64		108		Ok
		Cadira		0		0		no trigger
2019								
3.12.2019		Cadira Vale	1911	0.51	5m/s	106.5	115 dBL	ok
		Hartley Cottage						No Trigger Activation
		Access road		0.63		114		ok
		Fairview		1.02		103.5		ok
		Cadira						No Trigger Activation
8.11.2019		Cadira Vale	1911	3.96	5m/s	102.8	115 dBL	ok
		Hartley Cottage		0.915		109.6		ok
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
24.10.2019		Cadira Vale	1910	0.62	5m/s	105.5	115 dBL	ok
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0.741		104.9		ok
		Cadira		0		0		No Trigger Activation
26.09.2019		Cadira Vale	1908	1.98	5m/s	104.9	115 dBL	ok
		Hartley Cottage		0.524		107		ok
		Access road		0.582		101.9		ok
		Fairview		0		0		No Trigger Activation
		Cadira		0.648		98.8		At Cadira House
3.09.2019		Cadira Vale	1909	0	5m/s	0	115 dBL	No Trigger Activation
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0.925		103.5		ok
		Cadira		0.813		107		ok
8.07.2019		Cadira Vale	43668	3.77	5m/s	106.5	115 dBL	ok
		Hartley Cottage		0.53		119.2		Exceedance
		Access road		0		0		No Trigger Activation
		Fairview		0.56		108		ok
		Cadira		0		0		No Trigger Activation
7.06.2019		Cadira Vale	1906	0.51	5m/s	109.5	115 dBL	N/C
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0.89		104.2		N/C

		Cadira		0		0		No Trigger Activation
23.05.2019		Cadira Vale	1905	0.76	5m/s	104.9	115 dBL	N/C
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0.51		97.5		N/C
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
03.05.2019		Cadira Vale	1904	0	5m/s	0	115 dBL	No Trigger Activation
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
10.04.2019		Cadira Vale	1903	0	5m/s	0	115 dBL	No Trigger Activation
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
25.03.2019		Cadira Vale	1902	0.76	5m/s	106	115 dBL	N/C
		Hartley Cottage		0.76		107.5		N/C
		Access road		0		0		No Trigger Activation
		Fairview		1.65		101		N/C
		Cadira		0		0		No Trigger Activation
25.02.2019		Cadira Vale	1901	0	5m/s	0	115 dBL	No Trigger Activation
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0.85		102.3		N/C
		Cadira		0		0		No Trigger Activation
21.01.2019		Cadira Vale	1814	0.55	5m/s	97.5	115 dBL	N/C
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		1.37		104.2		N/C
		Cadira		0		0		No Trigger Activation
2018								
19.11.2018		Cadira Vale	1813	2.35	5m/s	103.5	115 dBL	
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0.55		95.9		
		Fairview		1.82		100		
		Cadira		0		0		No Trigger Activation
16.10.2018		Cadira Vale	1812	0.63	5m/s	109.2	115 dBL	
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0.51		110.2		
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
24.09.2018		Cadira Vale	1811	0.76	5m/s	106.9	115 dBL	
		Hartley Cottage		0.51		103.5		
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
22.08.2018		Cadira Vale	1810	0.63	5m/s	110.2	115 dBL	
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
23.07.2018		Cadira Vale	1809	2.36	5m/s	100.4	115 dBL	
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
26.06.2018		Cadira Vale	1807/08	4.93	5m/s	108.2	115 dBL	
		Hartley Cottage		0		0		No Trigger Activation
		Access road		0.69		96		
		Fairview		1.34		101.4		
		Cadira		0		0		No Trigger Activation
28.05.2018		Cadira Vale	1806	2.32	5m/s	106.1	115 dBL	
		Hartley Cottage		0.96		88.2		
		Access road		3.67		103.4		
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
14.05.2018		Cadira Vale	1805	1.83	5m/s	103.7	115 dBL	
		Hartley Cottage		0.41		105.1		
		Access road		0.58		96		
		Fairview		0.56		109.7		
		Cadira		0		0		No Trigger Activation
10.04.2018		Cadira Vale	1804	2.69	5m/s	107.4	115 dBL	
		Hartley Cottage		1.41		85.8		
		Access road		0		0		No Trigger Activation
		Fairview		0		0		No Trigger Activation
		Cadira		0		0		No Trigger Activation
27.02.2018		Cadira Vale	1803	2.82	5m/s	106.5	115 dBL	
		Hartley Cottage		3.82		96.5		
		Access road		0		0		No Trigger Activation
		Fairview		2.5		107.6		

		Cadira		0		0		No Trigger Activation
13.02.2018		Cadira Vale	1802	3.92	5m/s	99.4	115 dBL	
		Hartley Cottage		3.16		84.5		
		Access road		0		0		No Trigger Activation
		Fairview		1.54		101.6		
		Cadira		0		0		Not used
23.01.2018		Cadira Vale	1801	3.45	5m/s	102.5	115 dBL	
		Hartley Cottage		2.84		88		
		Access road		0		0		No Trigger Activation
		Fairview		1.67		107.3		
		Cadira		2.65		85.8		No Trigger Activation
2017								
16.12.2017		BM4175	1715	4.82	5m/s	110.1	115 dBL	-
		BM4188		0.5		84.5		-
		BM4189		0		1		No Trigger Activated
		BM4190		1.73		109.4		-
09.11.2017		BM4175	1714	4.09	5 m/s	114.2	115 dBL	
		BM4188		0.57		84.5		
		BM4189		0		0		No Trigger Activated
		BM4190		0.59		107.8		
06.10.2016		BM4175	1713	4.28	5m/s	109.2	115 dBL	
		BM4188		0.83		108		
		BM4189		0		0		No Trigger Activated
		BM4190		0		0		No Trigger Activated
22.09.2017		BM4175	1711/12	3.45	5 m/s	109.2	115 dBL	
		BM4188		0.48		110.9		
		BM4189		0		0		No Trigger Activated
		BM4190		0		0		No Trigger Activated
29.08.2017		BM4175	1709/10	3.27	5m/s	109	115 dBL	-
		BM4188		0.55		111.7		-
		BM4189		0.17		109.7		-
		BM4190		0.77		104.2		-
05.07.2017		BM4175	1707/08	3.43	5 m/s	107.6	115 dBL	
		BM4188		0.46		110.1		
		BM4189		0		0		No Trigger Activated
		BM4190		0.64		95.1		
06.06.2017		BM4175	1706	3.99	5m/s	113.8	115 dBL	-
		BM4188		0.87		114.1		-
		BM4189		0.41		110.6		-
		BM4190		0.83		106.5		-
09.05.2017		BM4175	1705	4.96	5 m/s	113.4	115 dBL	
		BM4188		1.21		112.1		
		BM4189		0		0		No Trigger Activated
		BM4190		1.26		114		
20.04.2017		BM4175	1704	4.8	5m/s	107.7	115 dBL	-
		BM4188		1.52		109.6		-
		BM4189		0.37		111		-
		BM4190		1.14		105.6		-
22.03.2017		BM4175	1703	4.78	5 m/s	113.2	115 dBL	
		BM4188		1.09		113.5		
		BM4189		0.37		108.7		
		BM4190		1.14		105.6		
22.02.2017		BM4175	1702	4.91	5m/s	105.1	115 dBL	-
		BM4188		1.14		105.3		-
		BM4189		0		0		No Trigger Activated
		BM4190		1.53		108.8		-
24.01.2017		BM4175	1701	4.47	5 m/s	110.1	115 dBL	
		BM4188		1.22		114.3		
		BM4189		0.66		102.7		
		BM4190		1.08		113.6		
2016								
21.12.2016		BM4175	1616	1.4	5m/s	109.4	115 dBL	
		BM4188		1.58		114.9		
		BM4189		2.51		106.8		
		BM4190		1.4		109.4		
29.11.2016		BM4175	1615	4.27	5 m/s	112.3	115 dBL	
		BM4188		1.47		114.3		
		BM4189		1.41		108.7		
		BM4190		1.17		110.6		
13.10.2016		BM4175	1614	4.46	5m/s	87.4	115 dBL	
		BM4188		1.33		111.7		
		BM4189		1.57		88.7		
		BM4190		0.94		114		
1.09.2016		BM4175	1612/13	0	5 m/s	0	115 dBL	No Trigger Activated
		BM4188		0.83		90.5		No Trigger Activated
		BM4189		0		0		No Trigger Activated
		BM4190		0		0		No Trigger Activated
2.08.2016		BM4175	1610/11	0	5m/s	0	115 dBL	No Trigger Activated
		BM4188		1.29		110.3		
		BM4189		0.79		109.7		
		BM4190		1.5		114.8		

1.06.2016	BM4175	1608/9	3.33	5 m/s	106	115 dBL	
	BM4188		0.97		106.7		
	BM4189		0		0		No Trigger Activated
	BM4190		0		0		No Trigger Activated
6.05.2016	BM4175	1607	4.88	5m/s	107.5	115 dBL	
	BM4188		0.96		112.5		
	BM4189		0		0		No Trigger Activated
	BM4190		1.3		112.4		
15.4.2016	BM4175	1606	4.88	5 m/s	107.5	115 dBL	
	BM4188		2.67		100.7		
	BM4189		0.59		98.2		
	BM4190		0		0		No Trigger Activated
2.03.2016	BM4175	1604/05	1.15	5m/s	100.6	115 dBL	
	BM4188		0.82		105.6		
	BM4189		0.8		96		
	BM4190		0.52		110		
27.01.2016	BM4175	1603	1.86	5 m/s	107.5	115 dBL	
	BM4188		0.74		106		
	BM4189		0.82		110.4		
	BM4190		0.99		113.9		
13.01.2016	BM4175	1601/02	2.67	5 m/s	105.7	115 dBL	
	BM4188		1.34		107.3		
	BM4189		0.9		104.9		
	BM4190		0.72		109.1		

Noise Monitoring

Date	Location and Period	Criteria Level (dBA)	Measured noise levels (dBA)			Estimated site contribution (dBA)	Criteria Applies?	Exceedance
			LAeq	LAMAX	LA90			
2021								
	N1 –	43	50	72	37	<37	Y	N/A
	N1 -	43	46	60	39	<39	Y	N/A
	N2 –	50	42	75	36	40	Y	N/A
	N2 -	50	39	58	36	39	Y	N/A
	N1 -	43	38	58	33	34	N	N/A
	N1 -	43	38	60	31	34	N	N/A
	N2 –	50	39	64	33	37	N	N/A
	N2 -	50	37	54	32	36	N	N/A
	N1 –	43	44	58	39	36	Y	N/A
	N1 -	43	43	54	38	35	Y	N/A
	N2 –	50	43	59	39	42	Y	N/A
	N2 -	50	42	61	36	38	Y	N/A
1.04.2021	N1 – 12:15	43	41	60	32	30	N	N/A
	N1 - 12:31	43	40	63	32	31	N	N/A
	N2 – 11:31	50	42	63	29	32	N	N/A
	N2 - 11:48	50	32	50	29	32	N	N/A
2020								
26.11.2020	N1 – 13:46	43	50	72	37	<37	Y	N/A
	N1 - 14:02	43	46	60	39	<39	Y	N/A
	N2 – 12:55	50	42	75	36	40	Y	N/A
	N2 - 12:11	50	39	58	36	39	Y	N/A
15.09.2020	N1 - 11:05	43	38	58	33	34	N	N/A
	N1 - 11:20	43	38	60	31	34	N	N/A
	N2 – 11:53	50	39	64	33	37	N	N/A
	N2 - 12:08	50	37	54	32	36	N	N/A
17.06.2020	N1 – 11:09	43	44	58	39	36	Y	N/A
	N1 - 11:25	43	43	54	38	35	Y	N/A
	N2 – 10:19	50	43	59	39	42	Y	N/A
	N2 - 10:36	50	42	61	36	38	Y	N/A
19.03.2020	N1 – 09:01	43	37	59	31	<30	N	N/A
	N1 - 10:12	43	41	69	33	<32	N	N/A
	N2 – 09:27	50	42	61	36	<40	N	N/A
	N2 - 09:44	50	46	69	33	<38	N	N/A
2019								
28.11.2019	N1 – 08:15	43	35	50	30	<26	Y	N/A
	N1 - 09:18	43	41	64	31	<28	Y	N/A
	N2 – 08:39	50	36	69	29	<29	Y	N/A
	N2 - 08:55	50	41	64	31	<28	Y	N/A
12.11.2019	N1 - 15:14	43	44	54	73	<42	N	N/A
	N1 - 15:31	43	42	49	69	<41	N	N/A
	N2 – 14:20	50	46	52	74	<47	N	N/A
	N2 - 14:35	50	45	50	61	<48	N	N/A
25.06.2019	N1 – 09:04	43	41	47	64	<43	Y	N/A
	N1 - 10:19	43	38	42	60	<36	Y	N/A
	N2 – 09:31	50	38	42	66	<36	Y	N/A
	N2 - 09:47	50	38	42	63	<37	Y	N/A
28.03.2019	N1 – 08:15	43	36	42	60	<38	Y	Nil
	N1 - 08:30	43	35	40	59	<34	N	N/A
	N2 – 09:02	50	32	43	66	<36	N	N/A
	N2 - 09:18	50	33	45	66	<40	N	N/A
	Additional location - 09:47	N/A	50	70	89	40	N/A	N/A
2018								
27.11.2018	N1 – 10:03	43	32	36	65	<32	N	N/A
	N1 - 10:18	43	33	42	62	<30	N	N/A
	N2 – 09:17	50	32	35	55	<32	N	N/A

	N2 - 09:32	50	33	42	62	<30	N	N/A
	Additional location - 10:37	N/A	41	69	87	37	N/A	N/A
13.09.2018	N1 - 09:28	43	32	37	67	<30	Y	Nil
	N1 - 09:43	43	34	39	62	<30	Y	Nil
	N2 - 08:47	50	32	39	68	<30	Y	Nil
	N2 - 09:02	50	34	39	62	<30	N	N/A
26.06.2018	N1 - 09:01	43	42	73	35	<33	N	N/A
	N1 - 10:17	43	40	61	36	<33	N	N/A
	N2 - 09:30	50	39	66	32	<31	N	N/A
	N2 - 09:45	50	37	61	33	<31	N	N/A
	Additional location - 10:37	N/A	69	87	46	<39	N/A	N/A
15.03.2018	N1 - 08:35	43	42	55	39	40	Y	Nil
	N1 - 09:41	43	46	74	40	39	N	N/A
	N2 - 08:59	50	45	67	40	41	N	N/A
	N2 - 09:14	50	43	71	39	40	N	N/A
	Additional location - 10:00	N/A	70	85	49	<35	N/A	N/A
2017								
7.12.2017	N1 -	43	42	59	40	37	N	N/A
	N1 -	43	45	63	41	38	N	N/A
	N2 -	50	44	69	40	38	N	N/A
	N2 -	50	43	70	40	38	N	N/A
20.09.2017	N1 -	43	36	58	32	34	Y	Nil
	N1 -	43	38	57	31	34	Y	Nil
	N2 -	50	37	56	35	39	Y	Nil
	N2 -	50	40	66	34	50	Y	Nil
15.06.2017	N1 -	43	45	62	39	40	Y	Nil
	N1 -	43	38	49	34	39	Y	Nil
	N2 -	50	43	56	39	43	Y	Nil
	N2 -	50	42	54	38	40	Y	Nil
22.03.2017	N1 -	43	55	83	37	35	N	N/A
	N1 -	43	42	62	33	34	Y	N/A
	N2 -	50	40	57	34	36	Y	N/A
	N2 -	50	38	60	35	38	Y	N/A
	Additional location	N/A	69	86	38	37	N	N/A
2016								
29.11.2016	N1 -	43	38	63	33	36	N	N/A
	N1 -	43	47	71	36	39	N	N/A
	N2 -	50	45	64	40	48	N	N/A
	N2 -	50	47	62	42	51	N	N/A

Sampling Point 6 (Water Discharge W1)

Sampling Frequency			Monthly	Monthly	Monthly
100 Percentile Concentration Limit			6.5 to 8.5	30	10
Date Sampled	Date Obtained	Date Published	pH (lab)	Suspended Solids	Oil & Grease
1/09/2016			7.04	8	<5
1/10/2016			7.68	<5	<5
26/06/2020			8.38	<5	<5
25/08/2020			7.87	<5	<5