

12 September 2023

Ref: 08413/10050

Metromix Pty Ltd 150 Rhondda Road Teralba NSW 2284

AUGUST 2023 NOISE MONITORING RESULTS - TERALBA QUARRY

This letter report presents the results of attended noise monitoring conducted for the Metromix operated Teralba Quarry (TQ) commencing on Wednesday 9th and finishing on Friday 11th of August 2023. Noise monitoring was carried out in accordance with the conditions of the TQ Noise Management Plan (NMP) as shown in extract on page 2 (referenced from EPL 536).

Although the project approval nominates noise criteria at nine locations, EPL 536 nominates only five locations for noise monitoring. Metromix recognises that meaningful monitoring data will continue to be collected from the closest locations to the active operational areas. As a result of this, and as outlined within the approved NMP, for periods when operations are confined to areas south of Rhondda Road, noise monitoring will be undertaken at five locations, as shown below in **Table 1**. Once development of the Northern Extension is commenced, the noise monitoring program will be reviewed and updated to reflect compliance at residences likely to experience noise from that extraction location.

Table 1 lists the address and coordinates of each noise monitoring location detailed in EPL 536. The locations are shown on the figure in **Appendix I**.

Table 1 Noise Monitoring Locations (from EPL 536)						
Monitoring Location	EPL Point	Location Description				
Noise Monitor A	12	22 Awaba Street, Teralba				
Noise Monitor B ¹	13	153 Railway Street, Teralba				
Noise Monitor D	15	26 Rhondda Road, Teralba				
Noise Monitor E	16	57 Victoria Avenue, Teralba				
Noise Monitor H	18	52 School Road, Wakefield				

1. See text in relation to changes to monitoring location

The 'EPL Point' nomenclature detailed in Table 1 will be used throughout this report.

It is noted that during the period when monitoring is undertaken at EPL Point 13, Metromix is required to provide a spotter to record the number of trucks departing from the Quarry and not the Teralba Business Park. Spectrum Acoustics personnel undertook identification of quarry trucks as part of the noise monitoring procedure.

As part of pre monitoring protocols Spectrum Acoustics notified, by letterbox drop, all landowners in the close vicinity of each site of the impending monitoring. The resident at EPL Point 13 has previously told Metromix that they didn't want monitoring to be undertaken near their residence so monitoring was undertaken at a point approximately 30m south (as shown in Appendix I).

The following presents noise related conditions of EPL 536 relevant to the compliance noise monitoring programme.

Condition	Requirement								
L5.2	establ the tal 1 whe	Noise generated at the premises that is measured at each noise monitoring point established under this licence must not exceed the noise levels specified in Column 4 of the table below for that point during the corresponding time periods specified in Column 1 when measured using the corresponding measurement parameters listed in Column POINT 12							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		Day-Shoulder	Day Shoulder-LAeq (15 minute)	-	38				
		Day Evening	Day-LAeq (15 minute) Evening-LAeq (15 minute)		38 37				
	POINT	12,13,15,16,18	3						
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		Night	Night-LAeq (15 minute)	-	35				
		Night	Night-LA1 (1 minute)	-	45				
	POINT	13							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		Day	Day-LAeq (15 minute)	-	46				
		Evening	Evening-LAeq (15 minute)	-	36				
		Day-Shoulder	Day Shoulder-LAeq (15 minute)	-	42				
	POINT	15,16,18							
		Time period	Measurement parameter	Measurement frequency	Noise level dB(A)				
		All hours	LAeq (15 minute)	-	35				
	to the a monitor	bove noise lim ing requirement ments to asse	its. The written evidence	e may be submitted with a d with the landholder. The	nent with a landholder which is subj licence variation to remove the no EPA may reinstate noise monitori s are received or at the landholde				





15.2	For the purposes of Condition 1.5.2:
L5.3	For the purposes of Condition L5.2:
	 a) Day-Shoulder is defined as the period between 6am to 7am Monday to Saturday.
	b) Day is defined as:
	a. the period from 7am to 6pm Monday to Saturday; and
	b. the period from 8am to 6pm Sundays and Public Holidays.
	c) Evening is defined as the period from 6pm to 10pm.
	d) Night is defined as:
	a. the period from 10pm to 7am Monday to Saturday; and
	b. the period from 10pm to 8am Sundays and Public Holidays.
L5.4	The contributed noise level from the premises must not exceed the noise limits specified within this licence at the most noise-affected point on or within the boundary of any residential premises to the north and/or south of the premises, except as expressly provided by this licence, or by the EPA in writing.
L5.5	The noise limits set out in conditions L5.2 apply under all meteorological conditions except for anyone of the following:
	a) Wind speeds greater than 3 metres/second at 10 metres above ground level; or
	 b) Stability category F temperature inversion conditions and wind speeds greater the 2 metres/second at 10 metres above ground level; or
	c) Stability category G temperature inversion conditions.
L5.6	For the purpose of condition L5.5:
	 a) the meteorological data to be used for determining meteorological conditions is the data recorded at the meteorological station identified in this licence as EPA Identification Point W1.
	 b) Stability category temperature inversion conditions are to be determined by the sigma-theta method referred to in Part E4 of Appendix E to the NSW Noise Policy for Industry (2017)
	Note: The weather station must be designed, commissioned and operated in a manner to obtain the necessary parameters required under the above condition.
L5.7 To	o determine compliance:
1.	With the L _{Aeq(15 min)} noise limits in condition L5.2, the licensee must locate noise monitoring equipment;
	a) approximately on the boundary, where any dwelling is situated 30 metres or less from the property boundary that is closest to the premises; or,
	 within 30 metres of a dwelling facade (but not closer than 3 metres) where any dwelling on the property is situated more than 30 metres from the property boundary that is closest to the premises; or where applicable
	c) within approximately 50 metres if the boundary of a national park or nature reserve.
2.	must be located within 1 metre of a dwelling facade.
3.	
	a) at the most affected point at a location where there is no dwelling at the location, or
	 b) at the most affected point within an area at a location prescribed by conditions L5.7 1(a) or L5.7 1(b).
	non-compliance will still occur where noise generated from the premises in excess of the opropriate noise limit is measured:
	a) at a location other than an area prescribed by the conditions of this licence, and /orb) at a point other than the most affected point at a location.
CI	or the purpose of determining the noise generated at the premises the licensee must use a lass 1 or Class 2 noise monitoring device as defined by AS IEC61672.1 and S IEC61672.2-2004, or other noise monitoring equipment accepted by the EPA in writing.





L5.10	For the purposes of determining the noise generated at the premises the modification factors in Section 4 of the NSW Industrial Noise Policy must be applied, as appropriate, to the noise levels measured by the noise monitoring equipment.							
L7.1	The licensee must comply with the operating hours specified in Column 2, Column 3, and Column 4 of the table below:							
	Day	Loading and Dispatch of Quarry Trucks	Extraction and Processing	Receipt of Concrete	-			
	Monday - Friday	4:00am Monday to midnight Friday	7:00am to 7:00pm	7:00am to 5:00pm				
	Saturday	Midnight Friday to 6:00pm Saturday	7:00am to 2:00pm	7:00am to 2:00pm				
	Sundays and Public Holidays	None	none	none				
	residenc	e. ccavated Natural Material	ny time provided they are inau	dible at privately-owned				

M9 Noise monitoring

M9.1 To assess compliance with the noise limits specified within this licence, the licensee must undertake operator attended noise monitoring at each specified noise monitoring point in accordance with the table below.

POINT 12,13,15,16,18

Assessment period	Minimum frequency in a reporting period	Minimum duration within assessment period	Minimum number of assessment period
Day	Yearly	1.5 hours	3 consecutive operation days
Evening	Yearly	30 minutes	3 consecutive operation days
Night	Yearly	1 hour	3 consecutive operation days

M9.2 The licensee must undertake the operator attended noise monitoring at each one of or at one or more noise monitoring points that is representative of the worse-case location(s) listed in this licence.

NOISE MEASUREMENTS

Attended noise monitoring was conducted with Brüel & Kjær Type 2250 Precision Sound Analysers. These instruments have Type 1 characteristics as defined in AS1259-1982 "Sound Level Meters" and have current NATA calibration. Field calibration of each instrument was carried out at the start and end of each monitoring period.

The noise monitoring was conducted in general accordance with the requirements of Section 10 of the NMP (Noise Monitoring Protocol and Evaluation of Compliance) as follows;

"Metromix proposes to adopt a noise monitoring protocol that provides feedback on the effectiveness of the noise control measures and demonstrate compliance with the conditions within the Project Approval 10_0183 and Environment Protection Licence 0536.



The approach to monitoring compliance is based substantially upon Metromix's experience to date which has identified the on-site activities have not been the source of noise complaints or any recorded non-compliance. Hence, it is considered the monitoring program needs to reflect this fact."

A-weighted noise levels were measured over 15 minute monitoring periods with data acquired at 1 second statistical intervals and the meter set to "fast" response. Each 1 second measurement is accompanied by a third-octave band spectrum from 20 - 20k Hz which is required for analysing NPI 'modifying factors'. Time based field notes allow for determination of the relative contributions to the overall noise level of all significant noise sources.

The worst case 15 minute Leq noise level for each monitoring period is shown in the tables below. Where the noise from TQ was audible, Bruel & Kjaer "*Evaluator*" analysis software was used to quantify the contributions of the quarry and other significant noise sources to the overall level.

Quarry noise from TQ is shown in the tables in bold type. Where noise from TQ is listed as faintly audible, this means the noise levels from the quarry were at least 10 dB below the ambient level during the measurement and not measurable.

Noise levels were recorded for each of the L10, Leq, Lmax, L1, L90 and Lmin percentiles. All noise levels shown in the tables of results are in dB(A) Leq (15 min). Levels for the other percentiles are not shown as they have no compliance criteria for comparison but are available on request. Meteorological data used in this report was obtained from the quarry-operated weather station at the site. The wind speeds and directions shown in the tables of results are the arithmetic average of the five-minute measurement periods throughout the entire noise monitoring period at each site.

Noise Compliance Assessment

The results of the noise measurements undertaken throughout the various time periods are provided in **Tables 2** to **16**. EPL 536 refers to the various time periods as follows:

- a) Day-Shoulder is defined as the period between 6am to 7am Monday to Saturday.
- b) Day is defined as:
 - (i) the period from 7am to 6pm Monday to Saturday; and
 - (ii) the period from 8am to 6pm Sundays and Public Holidays.
- c) Evening is defined as the period from 6pm to 10pm.
- d) Night is defined as:
 - (i) the period from 10pm to 7am Monday to Saturday; and
 - (ii) the period from 10pm to 8am Sundays and Public Holidays.



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	Table 2 Teralba Quarry Noise Monitoring Results – 9 August 2023 (Night)							
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))			
12	5:35 am	51	35	0.8 / 266	Traffic (50), birds (45), TQ (25) ¹			
13	4:30 am	46	35	0.7 / 267	Traffic (45), industrial (39), frogs (32), TQ inaudible			
15	4:30 am	44	35	0.7 / 267	Traffic (44), frogs (28), TQ inaudible			
16	5:35 am	39	35	0.8 / 266	Traffic (36), birds (35), frogs (29), TQ inaudible			
18	5:00 am	45	35	0.8 / 263	Traffic (44), frogs (36), TQ inaudible			
Note: 1 Tru	icks on access	s road			•			

	Table 3 Teralba Quarry Noise Monitoring Results – 9 August 2023 (Day Shoulder)								
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))				
12	6:35 am	57	38	0.6 / 256	Traffic (57), birds (45), trains (40), TQ inaudible				
13	6:25 am	59	42	1.1 / 248	Traffic (59), trains (48), birds (38), TQ inaudible				
15	6:45 am	54	35	0.5 / 328	Traffic (54), birds (34), TQ (30)				
16	6:35 am	49	35	0.6 / 256	Birds (49), traffic (37), TQ inaudible				
18	6:00 am	44	35	0.5 / 270	Traffic (43), birds (36), TQ inaudible				

	Table 4 Teralba Quarry Noise Monitoring Results – 9 August 2023 (Day)								
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))				
12	7:00 am	60	38	0.5 / 264	Traffic (58), trains (56), TQ (33) , industrial (30)				
13	8:35 am	53	46	0.8 / 211	Trains (52), birds (44), traffic (42), industrial (28), TQ inaudible				
15	10:10 am	51	35	1.3 / 230	Traffic (50), birds (43), TQ inaudible				
16	7:00 am	46	35	0.5 / 264	Traffic (43), birds (43), TQ inaudible				
18	12:00 pm	44	35	1.2 / 122	Birds (42), traffic (40), TQ inaudible				

	Table 5 Teralba Quarry Noise Monitoring Results – 9 August 2023 (Evening)								
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))				
12	6:00 pm	52	37	1.2 / 030	Frogs (49), traffic (49), TQ (27)				
13	6:35 pm	60	36	1.2 / 035	Trains (60), traffic (45), frogs (37), TQ inaudible				
15	6:40 pm	50	35	1.2 / 034	Traffic (50), TQ inaudible				
16	7:20 pm	46	35	1.3 / 026	Traffic (46), frogs (21), TQ inaudible				
18	6:00 pm	47	35	1.2 / 030	Traffic (46), birds (39), insects (37), TQ inaudible				



	Table 6 Teralba Quarry Noise Monitoring Results – 10 August 2023 (Night)							
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))			
12	5:35 am	50	35	1.9 / 066	Traffic (49), trains (43), birds (38), TQ (27) ¹			
13	4:30 am	52	35	2.1 / 237	Trains (52), traffic (40), frogs (32), TQ (31) ¹			
15	4:30 am	44	35	2.1 / 237	Traffic (44), frogs (20), TQ faintly audible			
16	5:35 am	39	35	1.9 / 066	Birds (37), traffic (33), trains (26), TQ inaudible			
18	5:00 am	46	35	2.3 / 241	Traffic (46), frogs (29), TQ inaudible			
Note: 1 Tru	icks on access	s road						

	Table 7 Teralba Quarry Noise Monitoring Results – 10 August 2023 (Day Shoulder)								
EPL Point	Start Time	Total noise dB(A) Leq	Criterion dB(A) Leq	Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))				
12	6:35 am	53	38	1.8 / 030	Traffic (49), birds (49), trains (46), industrial (35), TQ (26) ¹				
13	6:25 am	55	42	1.8 / 022	Traffic (53), trains (51), industrial (30), TQ (32) ¹				
15	6:45 am	51	35	2.1 / 029	Traffic (51), TQ (34)				
16	6:35 am	50	35	1.8 / 030	Traffic (48), birds (45), TQ inaudible				
18	6:00 am	46	35	1.7 / 015	Traffic (46), birds (32), frogs (26), TQ inaudible				
Note: 1 Tru	icks on access	s road			•				

	Table 8 Teralba Quarry Noise Monitoring Results – 10 August 2023 (Day)								
EPL Total Criterion Wind speed Point Start noise dB(A) Leq (m/s) / Identified Noise Sources (Leq (15 Time dB(A) Leq direction direction Identified Noise Sources (Leq (15									
12	7:00 am	60	38	1.8 / 146	Trains (59), traffic (51), birds (48), TQ (34)				
13	8:35 am	62	46	2.1 / 201	Trains (62), traffic (50), birds (43), TQ inaudible				
15	10:10 am	50	35	2.1 / 161	Traffic (49), birds (42), TQ faintly audible				
16	7:00 am	49	35	1.8 / 146	Birds (47), traffic (45), TQ inaudible				
18	12:00 pm	51	35	2.4 / 265	Birds (51), traffic (39), TQ inaudible				

	Table 19 Teralba Quarry Noise Monitoring Results – 10 August 2023 (Evening)								
EPL Point Start Time Total noise dB(A) Leq Wind speed (m/s) / direction Identified Noise Sources (L									
12	6:00 pm	39	37	2.4 / 250	Traffic (37), frogs (34), TQ (23)				
13	6:35 pm	54	36	2.5 / 238	Trains (53), traffic (44), birds (44), frogs (32), TQ inaudible				
15	6:40 pm	47	35	2.7 / 241	Traffic (47), TQ (28), frogs (27)				
16	7:20 pm	45	35	3.2 / 236	Traffic (45), birds (27), TQ inaudible				
18	6:00 pm	41	35	2.4 / 250	Traffic (39), frogs (36), TQ inaudible				

	Table 10 Teralba Quarry Noise Monitoring Results – 11 August 2023 (Night)							
EPL Point	EPL Start noise			Wind speed (m/s) / direction	Identified Noise Sources (Leq (15 min))			
12	5:35 am	49	35	0.8 / 299	Traffic (46), trains (45), birds (36), industrial (26), TQ inaudible			
13	4:30 am	53	35	0.8 / 273	Trains (52), traffic (47), frogs (36), industrial (30), TQ (24) ¹			
15	4:30 am	47	35	0.8 / 273	Traffic (47), frogs (32), TQ faintly audible			
16	5:35 am	35	35	0.8 / 299	Birds (34), traffic (27), trains (26), TQ inaudible			
18	5:00 am	45	35	0.8 / 303	Traffic (45), frogs (27), TQ inaudible			
Notes: 1. T	rucks on acce	ss road.		•				

Table 11 Teralba Quarry Noise Monitoring Results – 11 August 2023 (Day Shoulder)									
EPL Point	Start noise dB(A) ed (m/s) / Identified Noise Sources (I ed (
12	6:35 am	50	38	0.9 / 323	Traffic (49), birds (43), industrial (31), TQ inaudible				
13	6:25 am	50	42	0.6 / 295	Traffic (47), trains (47), industrial (34), inaudible				
15	6:45 am	49	35	0.9 / 240	Traffic (49), birds (33) TQ faintly audible				
16	6:35 am	48	35	0.9 / 323	Traffic (48), birds (33), frogs (31), TQ inaudible				
18	6:00 am	47	35	0.8 / 311	Traffic (47), birds (35), insects (24), TQ inaudible				

	Table 12 Teralba Quarry Noise Monitoring Results – 11 August 2023 (Day)								
EPL Point	Start Time	Identified Noise Sources (Leq (15 min))							
12	1:45 pm	50	38	0.9 / 124	Birds (50), traffic (34), industrial (27), TQ inaudible				
13	8:35 am	59	46	1.3 / 230	Trains (56), traffic (56), birds (41), industrial (28), TQ inaudible				
15	10:10 am	47	35	1.1 / 218	Traffic (47), birds (33), TQ inaudible				
16	7:00 am	45	35	0.9 / 252	Traffic (41), birds (40), trains (39), TQ inaudible				
18	12:00 pm	46	35	1.2 / 128	Birds (46), traffic (34), residential (30), TQ inaudible				

	Table 13 Teralba Quarry Noise Monitoring Results – 11 August 2023 (Evening)								
EPL Point	Identified Noise Sources (Leq (15 min))								
12	6:00 pm	50	37	1.0 / 110	Trains (48), traffic (46), industrial (30), frogs (26), TQ inaudible				
13	6:35 pm	54	36	1.0 / 334	Trains (52), traffic (50), frogs (37), TQ inaudible				
15	6:35 pm	50	35	1.0 / 334	Traffic (50), frogs (30), TQ faintly audible				
16	7:20 pm	38	35	1.4 / 293	Traffic (38), frogs (21), TQ inaudible				
18	6:00 pm	42	35	1.0 / 110	Traffic (41), frogs (32), TQ inaudible				

The results shown in Tables 2 to 13 show that, under the operational and atmospheric conditions at the time of monitoring, noise emissions from TQ did not exceed the relevant criterion at any monitoring location.





EPL Point 13 is situated close to the corner of Rhondda Road and Railway Street. This monitoring location is included predominantly to measure quarry noise from emissions from trucks exiting the site along the private section of the access road (through the Teralba Business Park). From the monitoring location it was possible to determine which trucks were associated with the quarry and a dedicated spotter was not required during this monitoring period.

When measuring noise at EPL Point 13, the noise emissions from the exiting quarry trucks (whilst on the private section of the access road) was measured and the worst case 15 minute Leq noise level calculated based on the time each truck was on the private road. The worst case calculated Leq level for the trucks is that shown for EPL Point 13 in Tables 2 to 13.

At EPL Point 15 the acoustic environment is significantly influenced by noise from traffic on Rhondda Rd and birds. Noise from trains and other industries within the vicinity also contributed to the acoustic environment. Due to the intermittent scheduling of trains, noise from these could be isolated from the worst case 15 minute periods (in relation to quarry noise). Noise emissions from the batching plant which is located adjacent to TQ contributed to the received noise during some monitoring periods. Due to the relative proximity of the batch plant to the quarry it is not possible to determine the relative contributions of each to the received noise.

The NSW Industrial Noise Policy (INP) has been superseded by the Noise Policy for Industry (NPI). Transitional arrangements for the implementation of the NPI state that the INP will continue to apply where is it is referenced in existing statutory instruments except in relation to Section 4 (Modifying Factors), which will be transitioned to the NPI. Data from those times where TQ operations were audible were analysed using the *"Evaluator"* software. This analysis showed the noise did not contain any tonal, impulsive or low frequency components as per definitions of "modifying factor corrections" in Table C1 of the Noise Policy for Industry.

In addition to the operational noise, the noise from TQ must not exceed **45 dB(A) L1 (1 min)** within the nighttime period i.e. between the hours of 10 pm and 7 am, in accordance with *Condition L5.2* of EPL 536. This is to minimise the potential for sleep disturbance as a result of individual loud noises from the quarry. The compliance measurement locations are different for each of the operational and sleep disturbance noise. That is, the sleep disturbance criterion is typically applicable at 1m from the facade of a bedroom window.

To avoid undue disturbance to residents, the L1 (1 min) noise level from the operational measurements are used to show general compliance with the sleep disturbance criterion. That is, as the distance between the noise source and the operational noise monitoring location is significantly greater than the distance between the operational noise monitoring location and the sleep disturbance monitoring location (i.e. 1m from the facade of the house) there will be little variation in L1 (1 min) levels between the two monitoring locations. It must be noted, however, that the sleep disturbance criterion is to be measured near a bedroom window. As the internal layout of each residence is not known, to consider a worst case, a bedroom window is assumed to be facing the operational noise monitoring location.

The results of the sleep disturbance measurements are shown in Tables 14 to 16.





	Table 14 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 9 August 2023 (Night)									
EPL Point	Start Time	dB(A) L1 (1 min)	Wind speed (m/s) / direction	L1 source	Identified Quarry Sources (L1 (1 min))					
12	5:35 am	55	0.8 / 266	Traffic	n/a					
13	4:30 am	55	0.7 / 267	Traffic	n/a					
15	4:30 am	61	0.7 / 267	Traffic	n/a					
16	5:35 am	50	0.8 / 266	Birds	n/a					
18	5:00 am	64	0.8 / 263	Traffic	n/a					

	Table 15 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 10 August 2023 (Night)									
Best Best Best Best Best Best Best Best										
12	5:35 am	63	1.9 / 066	Train	n/a					
13	4:30 am	72	2.1 / 237	Train	n/a					
15	4:30 am	56	2.1 / 237	Traffic	n/a					
16	5:35 am	60	1.9 / 066	Birds	n/a					
18	5:00 am	55	2.3 / 241	Traffic	n/a					

	Table 16 Teralba Quarry (L1 (1min)) Noise Monitoring Results – 11 August 2023 (Night)									
EPL Point	Start Time	dB(A) L1 (1 min)	Wind speed (m/s) / direction	L1 source	Identified Quarry Sources (L1 (1 min))					
12	5:35 am	60	0.8 / 299	Train	n/a					
13	4:30 am	71	0.8 / 273	Train	n/a					
15	4:30 am	62	0.8 / 273	Traffic	n/a					
16	5:35 am	53	0.8 / 299	Birds	n/a					
18	5:00 am	53	0.8 / 303	Traffic	n/a					

As shown in Tables 14 to 16, during the night time measurement circuits the L1 (1 min) noise from TQ did not exceed 45 dB(A) at any monitoring location.

In summary the results of the noise monitoring programme have shown that the Teralba Quarry did not exceed its noise limits at any monitoring location during the survey and as, no actions are recommended with respect to noise management at Teralba Quarry.

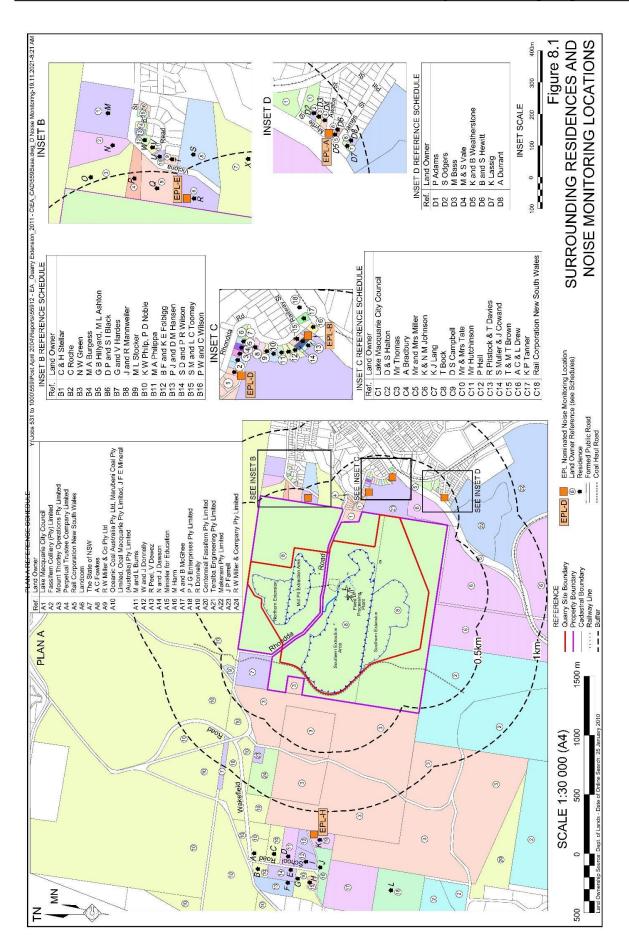
We trust this report fulfils your requirements at this time, however, should you require additional information or assistance please contact the undersigned on 4954 2276.

Yours faithfully, SPECTRUM ACOUSTICS PTY LIMITED

Author:

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SPECTRUMACOUSTICS





Noise Monitor B / EPL Point 13 - Modified noise monitoring location

