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The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 899 (EPL 899 – Boral Talbragar Quarry)

This report provides historical environmental monitoring data for Talbragar Quarry for the period January 2019 to Present day. If there is a gap in data presented in the report this is because there was no monitoring data to present for the relevant period.



Noise Monitoring is conducted as per condition M6 of EPL 899. The noise monitoring results for the reporting period are tabled below. All results are in compliance for the current reporting period.

Sample Period: January 2019 – present
 Licensee: Talbragar Quarry
 Licensee Address: Brocklehurst, Dubbo, NSW 2830
 EPL No: 899

M6.1 To assess compliance with Condition L4.1, attended noise monitoring must be undertaken in accordance with Conditions L4.5:

- a) at monitoring points 12 and 14 as listed in Condition L4.1;
- b) occur quarterly;
- c) occur between the hours of 6am and 7am during either Road or Railway dispatch activities.

Point	ARND	RR	Reg	RR	RR
P8	R9	38	38	48	
P9	R7	35	35	45	
P10	R8	45	44	55	
P11	R6	39	39	49	
P12	R10	41	45		
P13	R8	38	48		
P14	R11	48			

Assessment Results - Location PB

Location PB (PB) for the NMA is represented in Table 5.

Table 5. Operation of Mandated Noise Control Results

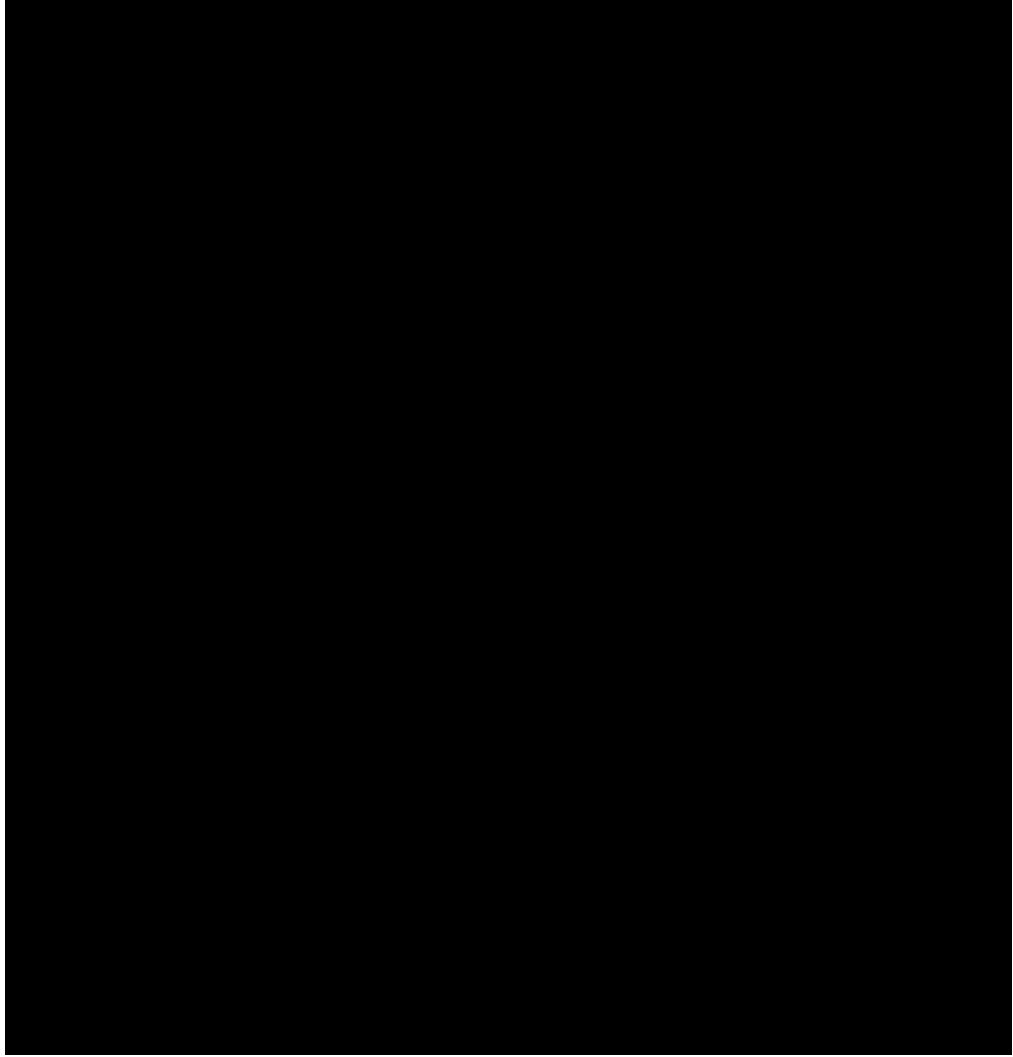
Descriptor (dB(A re 20 µPa))	Metric			Prevalence (%)	Observance
	L _{Amax}	L _{Aeq}	L _{A90}		

[Redacted content]

Assessment Results - Location B12

Table 7. Operator-Attended Noise Survey Results - Location B12

Category	Description and SPL, dBA	Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Metric
				L _{Amax}	L _{Aeq}	L _{A90}	
W	Traffic 39-54						WD
98	WSR/PL		06/19/2014	63	65		

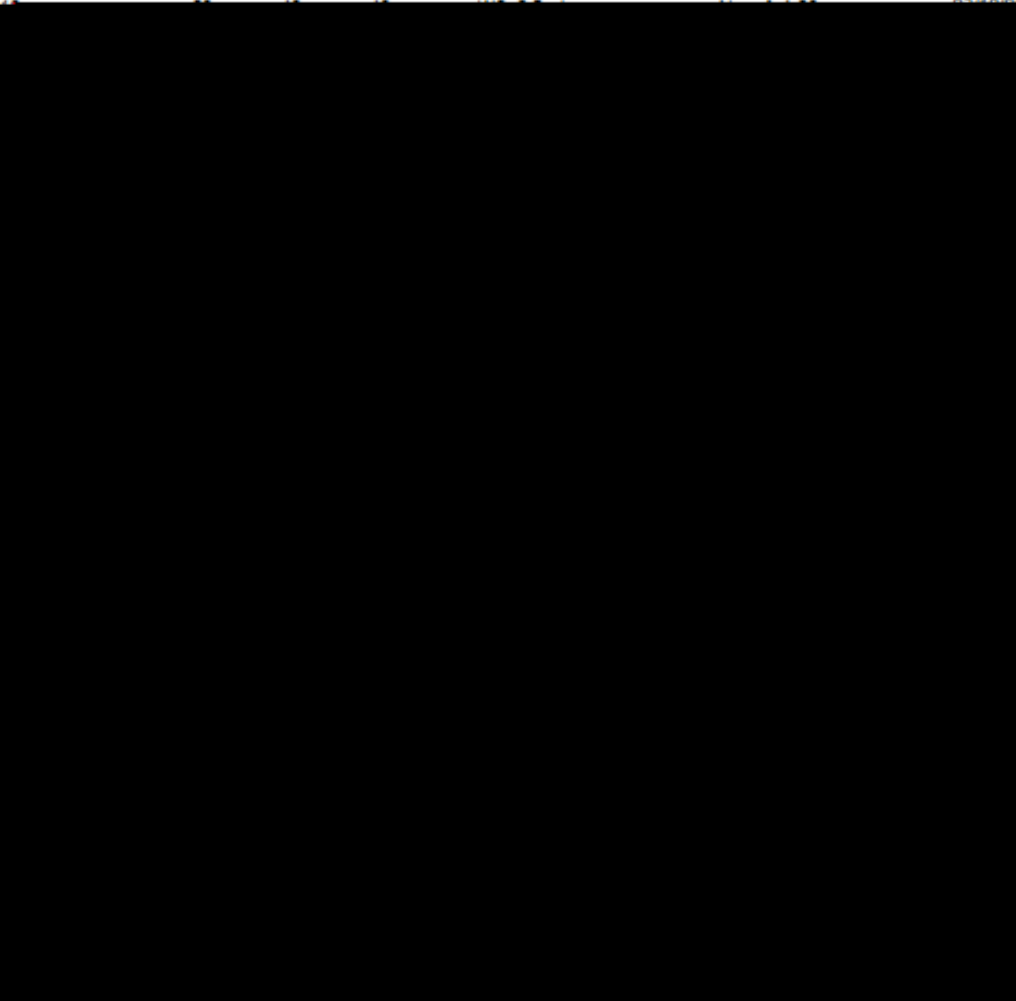


Assessment Results - Location P4

The monitored noise level contributions and meteorological conditions for each assessment period at location P4 (R2) for the NMA are presented in Table 5.

Table 5 Operator-Attended Noise Survey Results - Location P4

Time	LAeq	LAeq	LAeq
16:16			
		Dog Bark 58-68	
		WD: W	Traffic 58-64



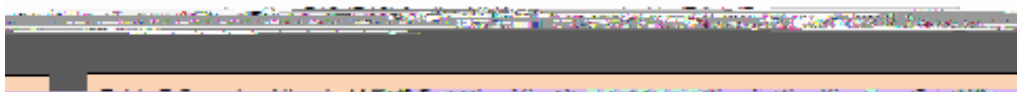


Table 4-5: Operator Allocated Noise Survey Results - Location P12

Description and SPL, dBA	Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology
			LAmax	LAeq	LA90	
Wind 40-56						
Traffic 41-48						

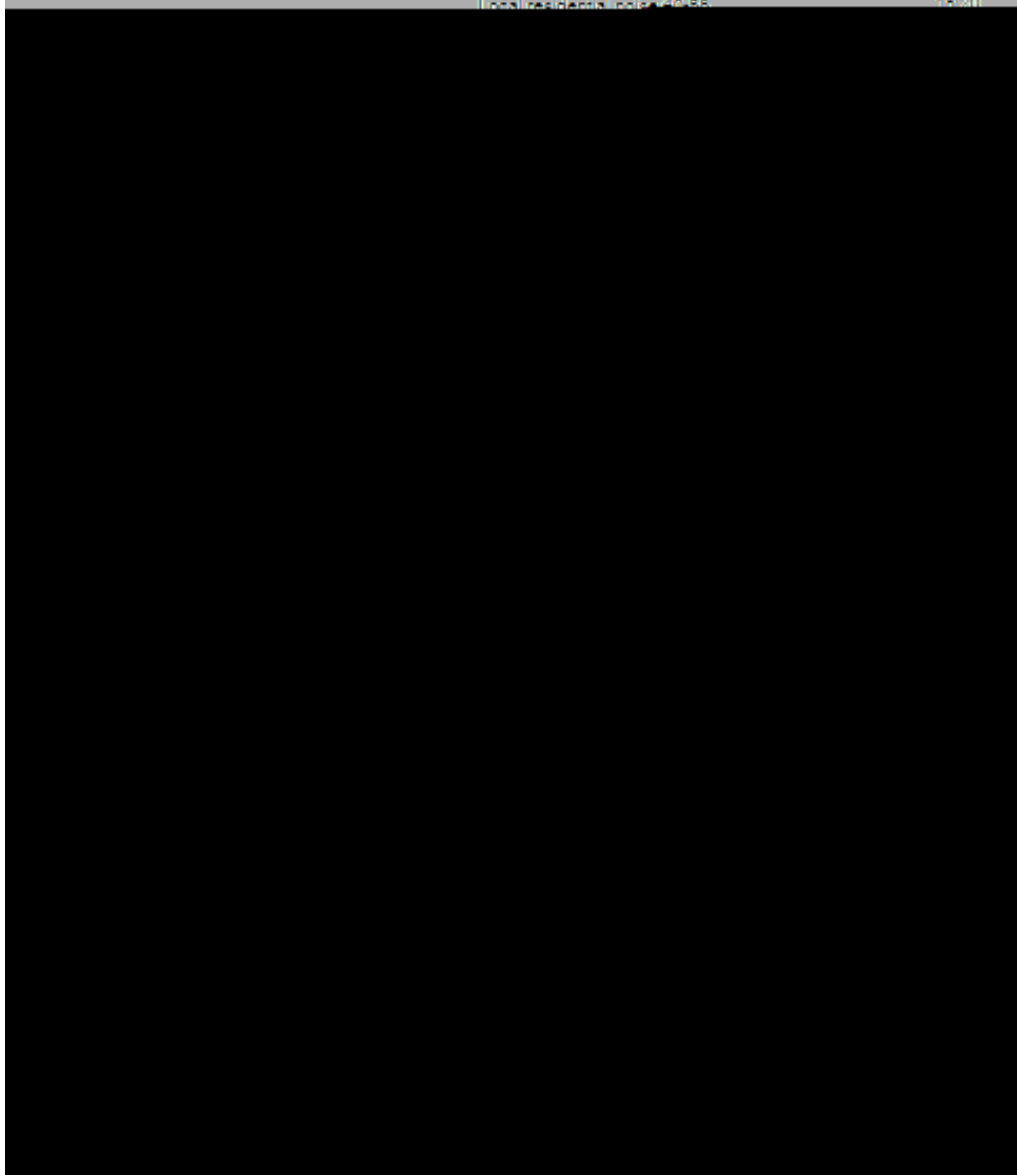


Table 4 - Comparison Alternated Noise Survey Results - Location P12

y	Description and SPL, dBA	Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorolog
				LAmax	LAeq	LA90	
	Traffic - 39.70						
	Exceeds						
	Exceeds						
	Exceeds						
	Exceeds						
	Exceeds						
	Exceeds						
	Exceeds						
	Exceeds						

each assessment period at [redacted]. The monitored noise level contributions and meteorological conditions for the NMA are presented in Table 7. [redacted] location P12 (R10) for the [redacted]

Table 7 Operator-Attended Noise Survey Results - Location P12

Description (dB(A) re 20 µPa)		Measurement	Date/Time (DD/MM/YYYY)	Wind	Temp
		06:02	19/05/2020	WD: E	
Shoulder		51	39	36	WS: 1.5m/s
Rooster					
Traffic		34-51			
Birds		40-80			

Table 8 Assessment Results - Location P14

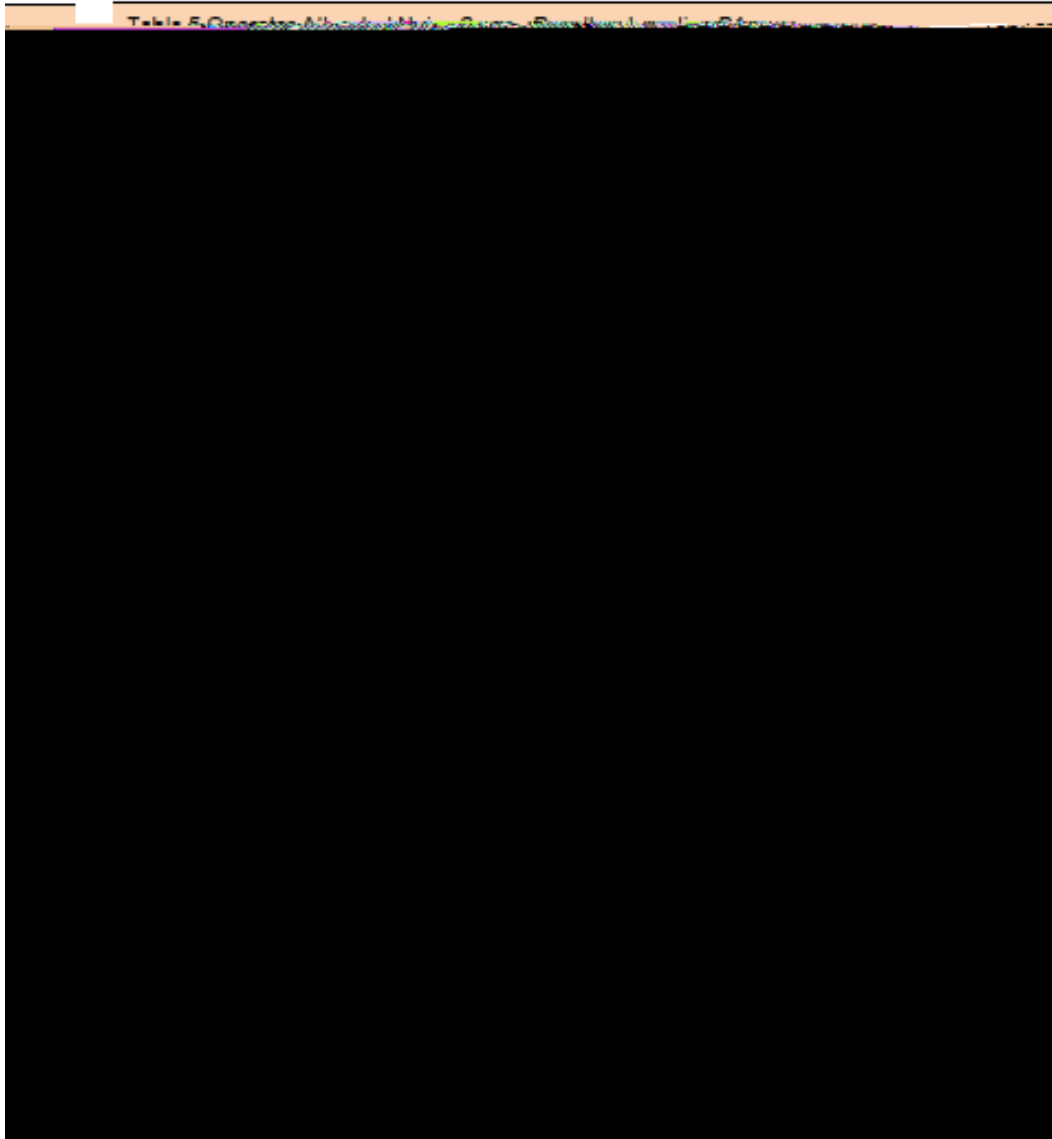
The monitored noise level contributions and meteorological conditions for the NMA are presented in Table 8. [redacted] location P14 (R11) for the [redacted]

Description (dB(A) re 20 µPa)		Measurement	Date/Time (DD/MM/YYYY)	Wind	Temp
		06:21	19/05/2020	WD: E	
Rooster		38-44			
Traffic		36-72			
Birds		38-55			

Assessment Periods, Locations, Dates

at The monitored noise level contributions and meteorological conditions for each assessment period

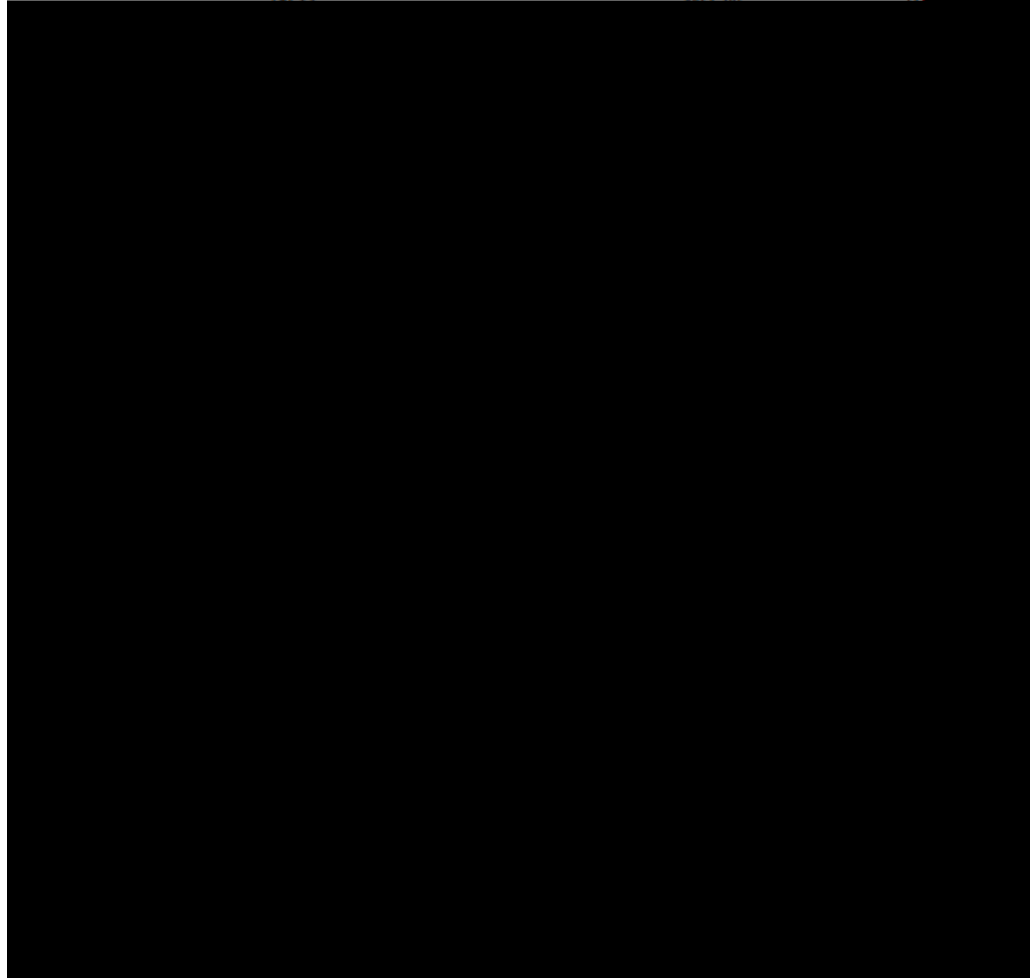
Table 5: Greenidge-Albion Road Intersection - Site Specific Noise Assessment



Assessment Results - Location P12

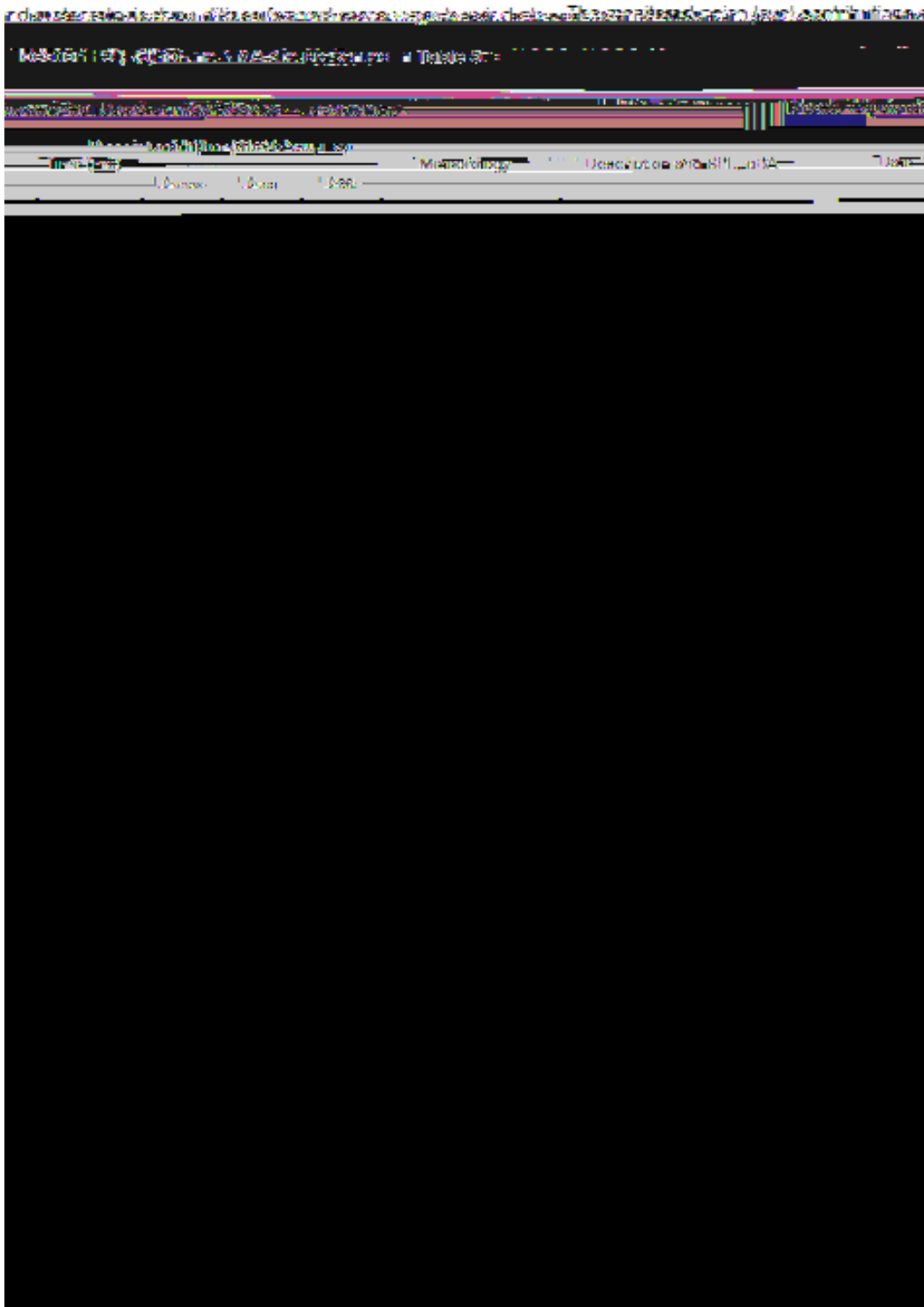
The results of noise level predictions and assessment for the proposed project at the location of P12 (R10) for the NMA are presented in Table 7.

Table 7. Converter & Handled Noise Source Results - Location P12	
Descriptor (dBA re 20 µPa)	Source
L _A 90	L _A 90
WD: N	
Traffic 42-50	
Birds 42-49	
Local residential noise 42-50	
Aircraft 48-68	
WD: NE	
Traffic 42-50	



Assessment Results - Location P5

https://www.waterboards.ca.gov/water_issues/programs/assessment/docs/assess0809/assess0809.pdf



Assessment Results - Location P12 (R10) for the NMA area

shown in the following table. The maximum noise levels at the 15-minute intervals have been recorded and are presented in Table 7.

Table 7 Operator-Attended Noise Survey Results – Location P12

Description and SPL, dBA	Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description
			LAmax	LAeq	LA90		
			Traffic 48-63				
			Birds 48-67				
		10:21	WD: E				
	12/10/2021					WS: 0.6m/s	Wind in
			Rain: Nil				
			Boral Impacts 48-54				
			(4 minutes)				
Talbragar Quarry LAeq(15min) Contribution			41				Talbragar Quarry L
			Traffic 34-54				
			WD: SE				
			Birds 34-60				
			06:00				

Boral Impacts

<40

Talbragar Quarry LAeq(15min) Contribution

Assessment Results - Location P14

Table 8 Operator-Attended Noise Survey Results – Location P14

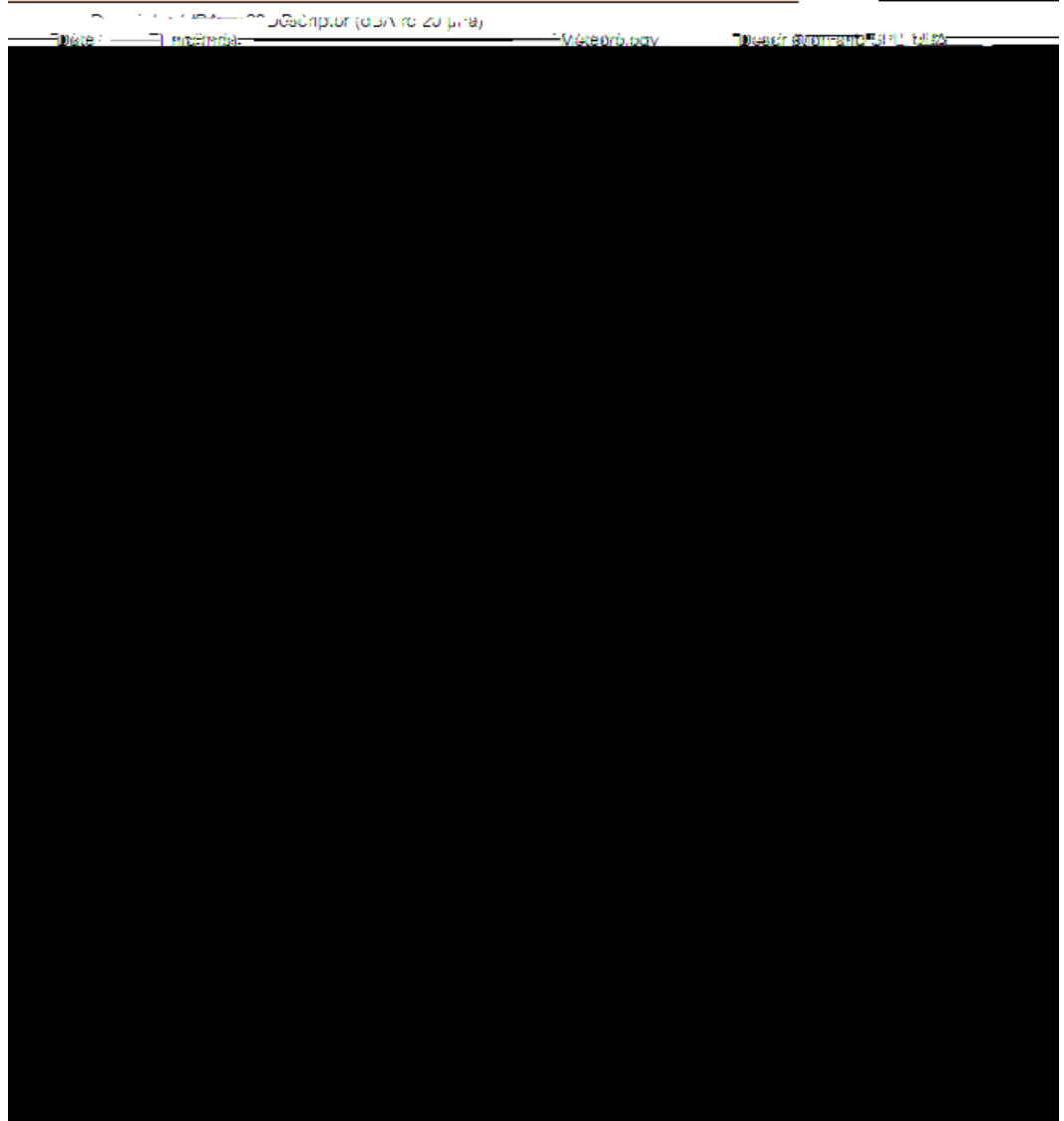
Description and SPL, dBA	Date	Time (hrs)	Descriptor (dBA re 20 µPa)			Meteorology	Description
			LAmax	LAeq	LA90		
			Birds 52-72				
			WD: E				
	12/10/2021					WS: 0.6m/s	Wind in
			Traffic 52-68				
			Boral process				
			(4 minutes)				
			Traffic 52-68				
			WD: SE				
			Birds 43-56				
			06:11				
	12/10/2021					WS: 0.6m/s	Wind in
			Train passby 43-74				
			Rain: Nil				
			Boral Impacts 40-44				
			(4 minutes)				
Talbragar Quarry LAeq(15min) Contribution			34				Talbragar Quarry L

Assessment Results - Location P4

The NMA are presented in Table 5, location P4 (R2) for:

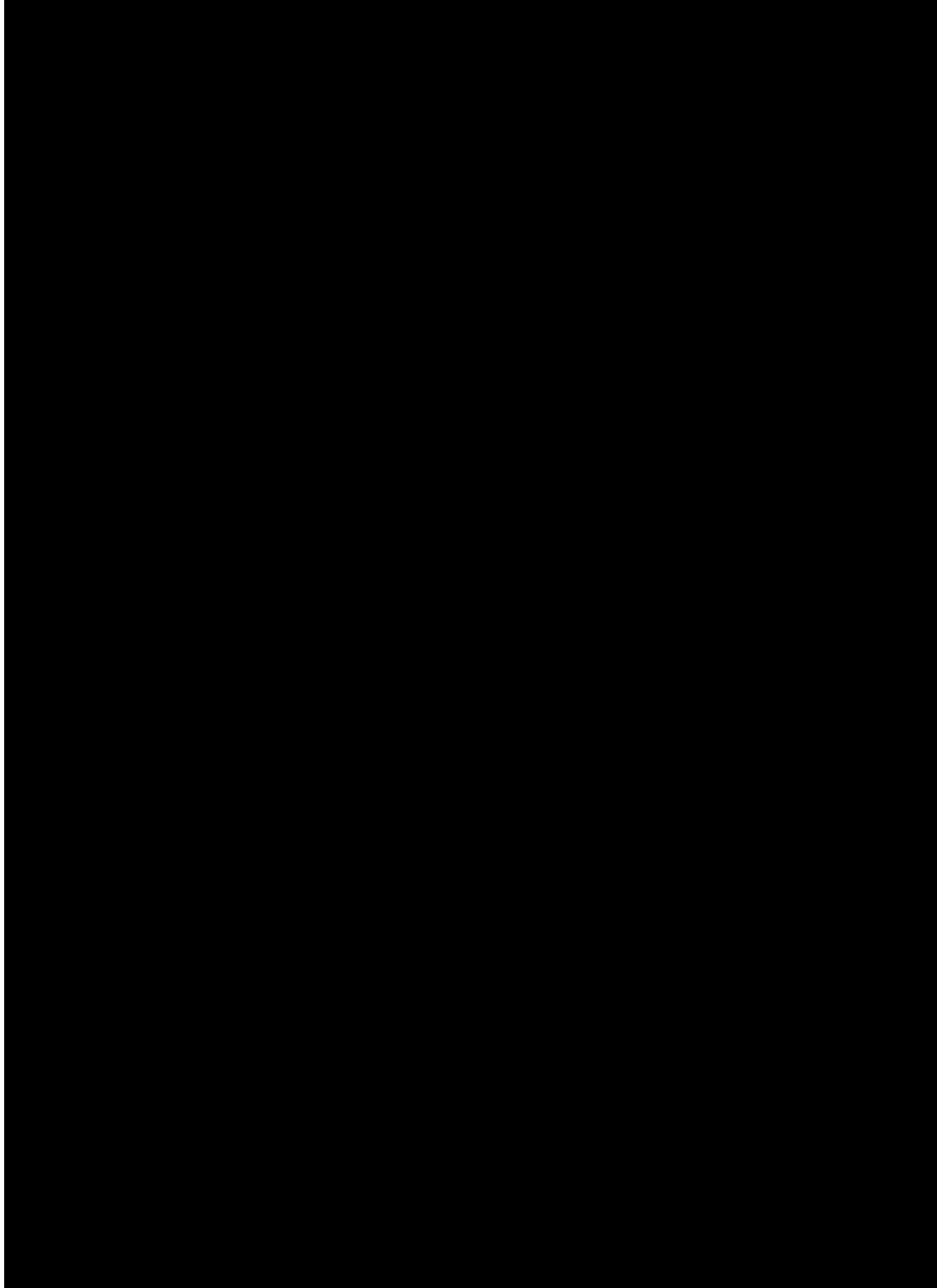
Attended Noise Survey Results – Location P4

Table 5 Operator-



Assessment results - Location P12

of the way. The monitored noise level contributors and meteorological conditions for each assessment are:



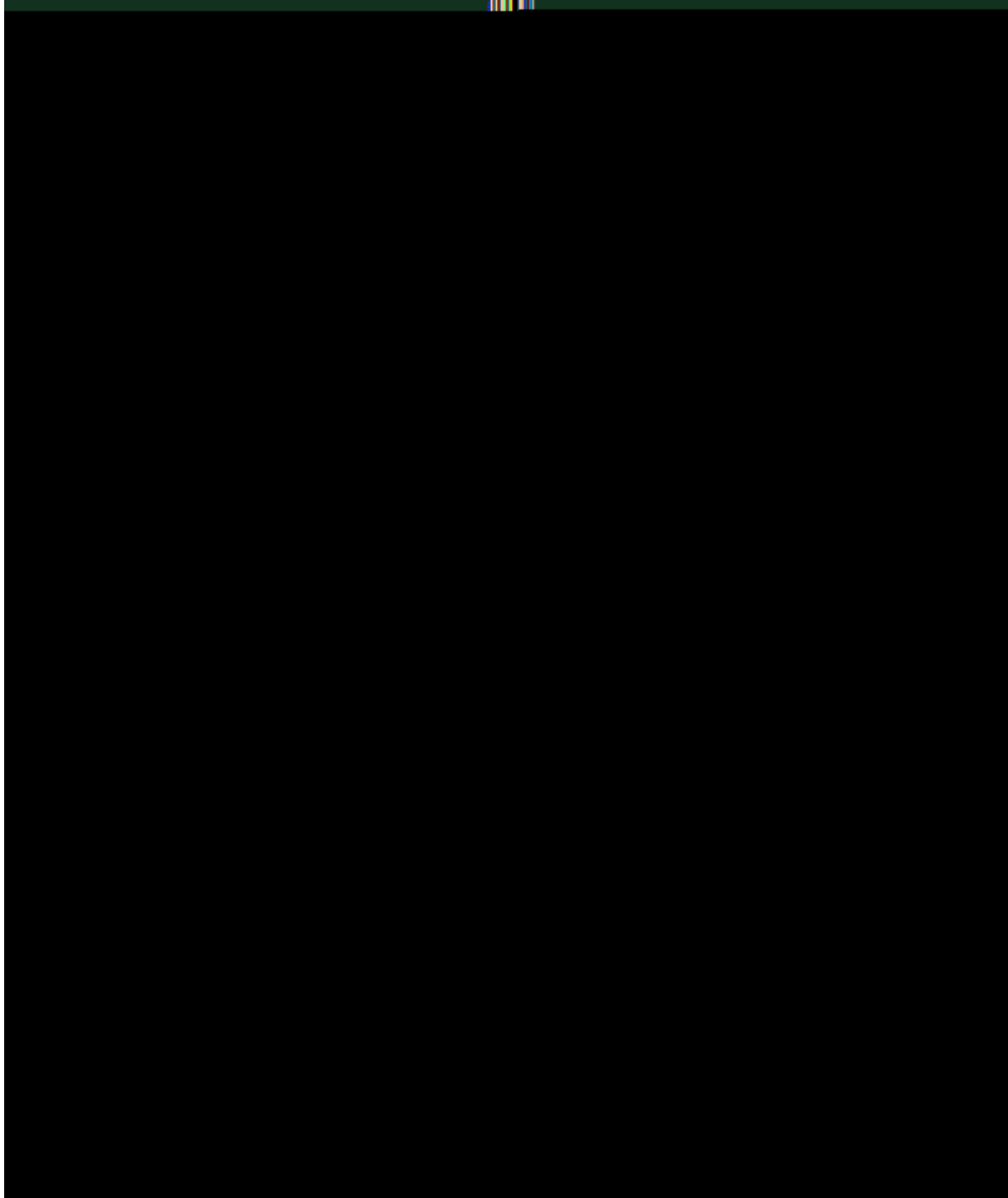
... The monitored noise level contribution and the total noise level



Assessment Results - Location P4

contributions and meteorological conditions for each assessment period at ... The monitored noise level
Location P4 (PQ) for the MMA are presented in Table 5.

Table 5 Operator Attended Mining Survey Results - Location P4



Assessment Results

Location B12 (R10) for the NMA are presented in Table 7.

Table 7 Operator Attended Noise Survey Results - Location B12

Description and SPL (dBA)	Date	Time (hrs)	Descriptor (dBA re 20 µPa)	Meters
[Redacted]				

assessment period at: The monitored noise level contributions and meteorological conditions for each as

Table 8 Operator Attended Noise Survey Results - Location B14

Description and SPL (dBA)	Date	Time (hrs)	Descriptor (dBA re 20 µPa)	Meters
Traffic 59-71				
Insects <39				
WD: W				
71	52	41	WS: 1m/s	15/12/2022
Wind in vegetation 39-46				
Rain				
minutes) (5				
Birds 44-58				
Traffic 42-7				
(Morning	77	55	45	WS: 0.1m/s
Road average across 44-69				
Rain: Nil				
(2 minutes)				

Assessment results - Location P12

The monitored noise level contributions and meteorological conditions for each assessment period at the monitored location level contributions are presented in Table 8.

Table 8 Operator-Attended Noise Survey Results - Location P12

Descriptor	LAeq (hrs)	Meteorology	Category	Description and SPL, dBA	Date	Time (hrs)
Wind in vegetation 46-61						
11:32	46	WS 22ms	46	23.02.2023	8:11	43
Nil	Nil	Traffic	46-52			Rain
Boral inaudible						
<39						
Talbragar Quarry LAeq(15min) Contributor						
Other industrial noise 38-46						

Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at the monitored location level contributions are presented in Table 9.

Table 9 Operator-Attended Noise Survey Results - Location P14

Descriptor	LAeq (hrs)	Meteorology
[Redacted content]		

Assessment Results - Location P4

Table 6.5.5.5: Assessment Results - Location P4

Location P4 (P2) for the NM

Source	Frequency	Direction	LAmax	LAeq	LA90
IMC	200-1000	N	43	43	43
IMC	200-1000	S	43	43	43
IMC	200-1000	E	43	43	43
IMC	200-1000	W	43	43	43
IMC	200-1000	NE	43	43	43
IMC	200-1000	SE	43	43	43
IMC	200-1000	NW	43	43	43
IMC	200-1000	SW	43	43	43
IMC	200-1000	Other	43	43	43

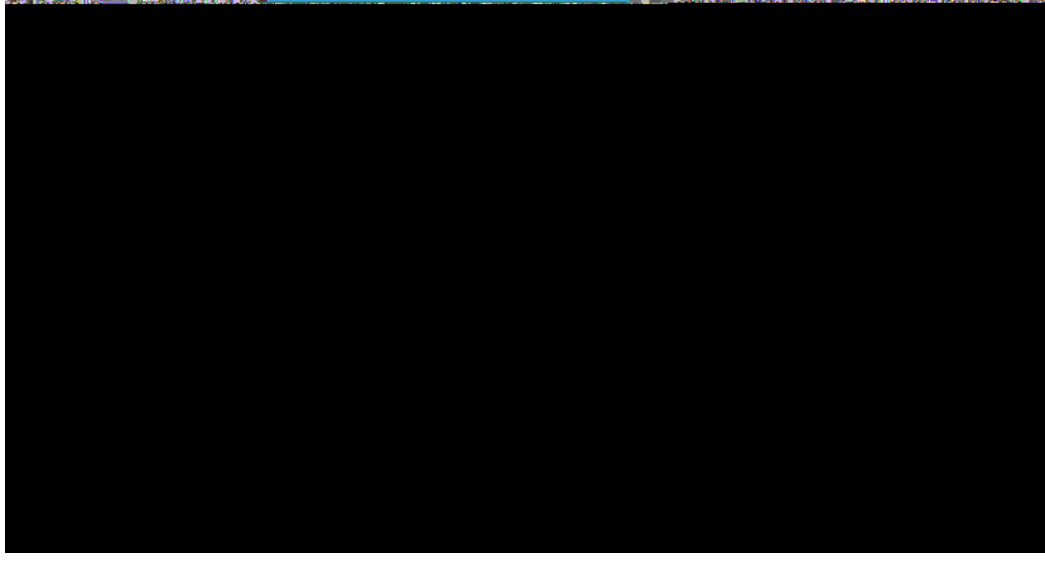
IMC: 200-1000 Hz, dBA
 Dog bark 43-52
 Traffic 44-66



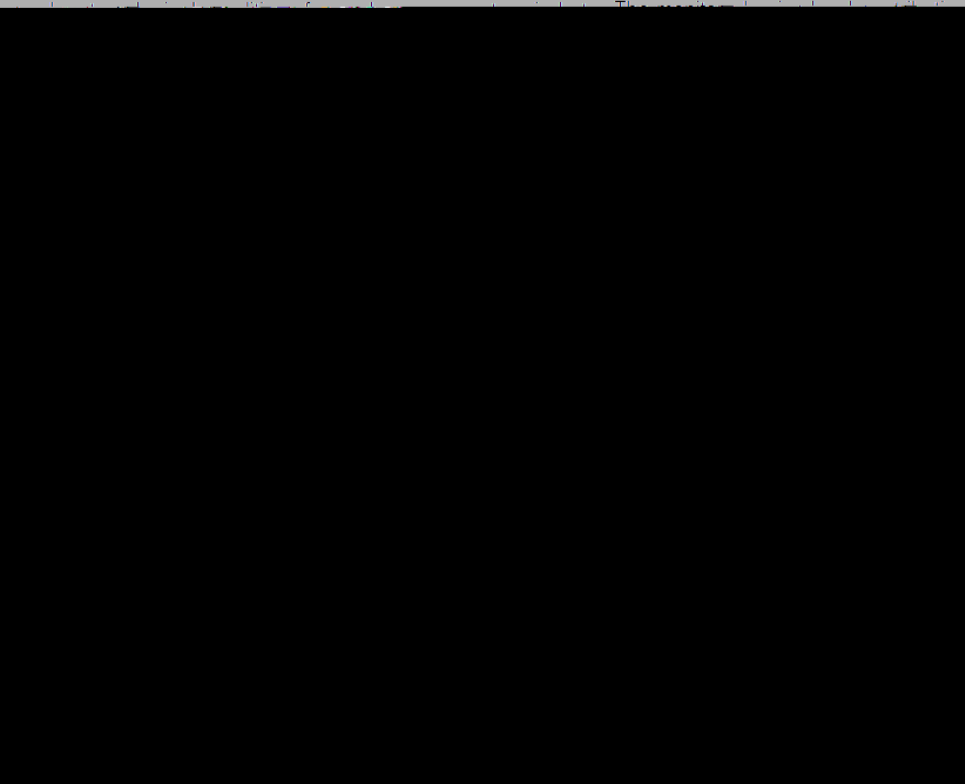
Table 6.5.5.6: Assessment Results - Location P5

Location P5 (P2) for the NM

Source	Frequency	Direction	LAmax	LAeq	LA90
IMC	200-1000	N	44	44	44
IMC	200-1000	S	44	44	44
IMC	200-1000	E	44	44	44
IMC	200-1000	W	44	44	44
IMC	200-1000	NE	44	44	44
IMC	200-1000	SE	44	44	44
IMC	200-1000	NW	44	44	44
IMC	200-1000	SW	44	44	44
IMC	200-1000	Other	44	44	44



Assessment Results - Location P12



Assessment Results - Location P14

The monitored noise level contributions and meteorological conditions for each assessment period at location P14 (R11) for the NMA are presented in Table 9.



Assesment Results, Location B10

Location B10 (B10) is the 10th location in the assessment. The results for this location are as follows:

Parameter	Value
Temperature	10.5°C
Humidity	65%
Pressure	1013 hPa
Wind Speed	1.2 m/s
Wind Direction	135°
Cloud Cover	10%
Visibility	10 km
Soil Moisture	15%
Soil Temperature	12°C
Leaf Wetness	0%
Light Intensity	100 lux
CO2 Concentration	400 ppm
O2 Concentration	21%
pH	7.0
EC	1.5 mS/cm
Nitrogen	10 mg/L
Phosphorus	5 mg/L
Potassium	15 mg/L
Calcium	20 mg/L
Magnesium	10 mg/L
Sulfur	5 mg/L
Zinc	1 mg/L
Copper	0.5 mg/L
Manganese	1 mg/L
Iron	1 mg/L
Boron	0.5 mg/L
Molybdenum	0.1 mg/L
Silica	10 mg/L
Chloride	5 mg/L
Fluoride	0.5 mg/L
Iodine	0.1 mg/L
Selenium	0.05 mg/L
Antimony	0.01 mg/L
As	0.01 mg/L
Cd	0.001 mg/L
Cr	0.01 mg/L
Pb	0.01 mg/L
Hg	0.001 mg/L
Mn	1 mg/L
Co	0.01 mg/L
Ni	0.01 mg/L
Cu	0.01 mg/L
Zn	1 mg/L
Mo	0.01 mg/L
B	0.01 mg/L
S	1 mg/L
P	1 mg/L
N	1 mg/L
K	1 mg/L
Ca	1 mg/L
Mg	1 mg/L
Cl	1 mg/L
F	1 mg/L
I	1 mg/L
Se	1 mg/L
Sb	1 mg/L
As	1 mg/L
Cd	1 mg/L
Cr	1 mg/L
Pb	1 mg/L
Hg	1 mg/L
Mn	1 mg/L
Co	1 mg/L
Ni	1 mg/L
Cu	1 mg/L
Zn	1 mg/L
Mo	1 mg/L
B	1 mg/L
S	1 mg/L
P	1 mg/L
N	1 mg/L
K	1 mg/L
Ca	1 mg/L
Mg	1 mg/L
Cl	1 mg/L
F	1 mg/L
I	1 mg/L
Se	1 mg/L
Sb	1 mg/L
As	1 mg/L
Cd	1 mg/L
Cr	1 mg/L
Pb	1 mg/L
Hg	1 mg/L

Assessment Results, Location P12

noise level contributions and meteorological conditions for each assessment period at The monitored r
2hUn'of WMA are presented in Table 6.

Assessment Results, Location P14

The noise level contributions and meteorological conditions for each assessment period at Location P14 (P14) for the WMA are presented in Table 6.

Details of corrections made to published data due to incorrect or misleading data^{3.7.7}