



Clean TeQ Sunrise

2019 ENVIRONMENTAL MONITORING RESULTS

**AMBIENT NOISE - ATTENDED MONITORING
Q2 - June 2019**

Results received: 12/08/2019

Date published: 18/09/2019

Premises:
Clean TeQ Sunrise Project
Wilmatha Road
Fifield, NSW, 2875

[Environment Protection Licence #2114](#)



Ambient Noise – Attended Monitoring – June 2019 (Q2)

Table 1 Day Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Wind speed (m/s) ³ /dir ^o	Noise criteria Applies ⁴ ?	Exceedance	Comments
AN1	11/6/19	2:45 pm	40	40	3.5 / 329	No	No	Dogs (40), birds & insects (33), CLQ Sunrise inaudible
AN2	11/6/19	3:26 pm	28	40	2.5 / 263	Yes	No	Birds (28), CLQ Sunrise inaudible
AN3	11/6/19	3:54 pm	39	40	2.8 / 297	Yes	No	Birds (39), traffic (25), CLQ Sunrise inaudible
AN4	11/6/19	4:30 pm	27	40	1.1 / 340	Yes	No	Birds (27), CLQ Sunrise inaudible

Table 2 Evening Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Inversion °C/100m, Wind speed (m/s) ³ /dir ^o	Noise criterion Applies ⁴ ?	Exceedance	Comments
AN1	11/6/19	7:52 pm	38	35	>+4, 0.7/241	No	No	Dogs (38), CLQ Sunrise inaudible
AN2	11/6/19	8:51 pm	30	35	>+4, Calm	No	No	Traffic (30), CLQ Sunrise inaudible
AN3	11/6/19	9:19 pm	36	35	>+4, Calm	No	No	Dogs (36), CLQ Sunrise inaudible

¹ Noise generated by the development is to be measured in accordance with the relevant requirements of the NSW Industrial Noise Policy (EPA,1999), as per Schedule 3, Section 6 of DA 347-11-00.

² The construction noise criteria are defined in section L4 of the Environment Protection Licence for the project (EPL 21146).

³ Wind speed recorded at 10 metres above ground level; all meteorological data used as recorded by the meteorological station at EPA Licence Point 19.

⁴ Appendix 4 of DA 347-11-00 sets out the meteorological conditions under which the criteria apply, and the requirements for evaluating compliance with these criteria. The noise criteria in conditions 3-5 of Schedule 3 apply under all meteorological conditions except the following: wind speeds greater than 3 m/s at 10 metres above ground level; or stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or Pascall stability classes G temperature inversion conditions (as per Section L4.3 of EPL 21146).



AN4	11/6/19	8:21 pm	20	35	>+4, 0.4 / 181	No	No	CLQ Sunrise inaudible
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Table 3 Night Mine Operating Intrusive Noise Levels *L_{Aeq}* (15 minute)

Location	Date	Time	Measured Noise dB(A) ¹	Construction Criterion dB(A) ²	Wind speed (m/s) ³ /dir ^o	Noise criteria Applies ⁴ ?	Exceedance	Comments
AN1	11/6/19	10:00 pm	28	35	>+4, Calm	No	No	Traffic (25), insects (25), CLQ Sunrise inaudible
AN2	11/6/19	10:59 pm	22	35	>+4, Calm	No	No	Traffic (22), CLQ Sunrise inaudible
AN3	11/6/19	11:28 pm	26	35	>+4, Calm	No	No	Traffic (25), dog (20), CLQ Sunrise inaudible
AN4	11/6/19	10:30 pm	19	35	>+4, 0.6 / 231	No	No	CLQ Sunrise inaudible

Table 4 Night Mine Operating Intrusive Noise Levels *L_{A1}* (1 minute)

Location	Date	Time	Measured Noise dB(A), L1 (1 min) ⁵	Sleep Disturbance Criterion dB(A), L1 (1 min)	Inversion °C/100m, Wind speed (m/s) ⁷ /dir ^o	Noise criterion Applies ⁸ ?	L1 (1 min) source	Identified Mine Sources L1 (1 min)	Exceedance
AN1	11/6/19	10:00 pm	36	45	>+4, Calm	No	Traffic	n/a	No
AN2	11/6/19	10:59 pm	32	45	>+4, Calm	No	Traffic	n/a	No
AN3	11/6/19	11:28 pm	42	45	>+4, Calm	No	Traffic	n/a	No
AN4	11/6/19	10:30 pm	21	45	>+4, 0.6 / 231	No	Dog	n/a	No

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² The construction noise criteria are defined in section L4 of the Environment Protection Licence for the project (EPL 21146).

³ Wind speed recorded at 10 metres above ground level; all meteorological data used as recorded by the meteorological station at EPA Licence Point 19.

⁴ Appendix 4 of DA 347-11-00 sets out the meteorological conditions under which the criteria apply, and the requirements for evaluating compliance with these criteria. The noise criteria in conditions 3-5 of Schedule 3 apply under all meteorological conditions except the following: wind speeds greater than 3 m/s at 10 metres above ground level; or stability category F temperature inversion conditions and wind speeds greater than 2 m/s at 10 m above ground level; or Pascall stability classes G temperature inversion conditions (as per Section L4.3 of EPL 21146).