



Clean TeQ Sunrise

2019 ENVIRONMENTAL MONITORING RESULTS

**AMBIENT NOISE - ATTENDED MONITORING
Q4 - December 2019**

Results received: 13/12/2019

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

[Environment Protection Licence #21146](#)



Ambient Noise – Attended Monitoring – December 2019 (Q4)

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	5/12/19	8:00 am	34	40	3.0 / 295	Yes	No	Birds (34), farm activity (23), Sunrise inaudible
AN2	5/12/19	7:30 am	25	40	3.2 / 279	No	No	Birds & sheep (25), Sunrise inaudible
AN3	5/12/19	7:00 am	39	40	4.6 / 266	No	No	Birds & insects (39), traffic (23), Sunrise inaudible
AN4	5/12/19	8:25 am	32	40	4.1 / 279	No	No	Birds & insects (32), 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	4/12/19	7:55 pm	32	35	2.5 / 236	Yes	No	Birds & insects (32), Sunrise inaudible
AN2	4/12/19	8:55 pm	26	35	2.6 / 231	No	No	Insects (26), 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).



AN3	4/12/19	9:25 pm	31	35	2.2 / 217	No	No	Insects (29), traffic (27), Sunrise inaudible
AN4	4/12/19	8:25 pm	41	35	2.7 / 242	Yes	No	Insects (41), Sunrise inaudible



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	4/12/19	10:05 pm	33	35	2.8 / 221	No	No	Traffic (28), insects (20), Sunrise inaudible
AN2	4/12/19	11:00 pm	30	35	1.0 / 239	Yes	No	Insects (21), Sunrise inaudible
AN3	4/12/19	11:30 pm	25	35	0.8 / 221	Yes	No	Insects (23), Sunrise inaudible
AN4	4/12/19	10:30 pm	20	35	2.1 / 248	No	No	Insects (28), 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	4/12/19	10:05 pm	34	45	2.8 / 221	No	Traffic	n/a	No
AN2	4/12/19	11:00 pm	25	45	1.0 / 239	Yes	Insects	n/a	No
AN3	4/12/19	11:30 pm	27	45	0.8 / 221	Yes	Insects	n/a	No
AN4	4/12/19	10:30 pm	30	45	21 / 248	No	Insects	n/a	No

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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).