

RICHMOND QUARRY NOISE MONITORING RESULTS

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes	
5/08/2014	NAL 3	Additional Operational Testing	37	33.9	Compliant	N/A	
5/08/2014	NAL 3	Additional Operational Testing	37	32.7	Compliant	N/A	
26/09/2014	NAL 2	Receiver Complaint	37	34.9	Compliant	N/A	
4/11/2014	NAL 2	Routine - Quarterly	37	33.1	Compliant	N/A	
4/11/2014	NAL 3	Routine - Quarterly	37	34.7	Compliant	N/A	
11/03/2015	NAL 2	Routine - Quarterly	37	32.4	Compliant	N/A	
11/03/2015	NAL 3	Routine - Quarterly	37	36.5	Compliant	N/A	
18/08/2015	On Site	Routine - Annual Plant and Equipment					
		Mobile Screening Plant - Striker	114	105.8	Compliant	N/A	
		Mobile Screening Plant - McCloskey	114	111.6	Compliant	N/A	
		Site Truck - Ford Louisville	91	90.3	Compliant	N/A	
		Dump Truck - Komatsu	119	106.2	Compliant	N/A	
		Water Truck - Isuzu	90	91.1	Compliant ⁴	N/A	
		Excavator - Komatsu PC300LC-8	106	106.2	Compliant ⁴	N/A	
		Excavator - Kobelco SK350LC-8	106	108.0	Compliant ⁴	N/A	
		Front End Loader - Hyundai HL-770	101	98.7	Compliant	N/A	
		Front End Loader - Komatsu WA500-3	101	101.4	Compliant ⁴	N/A	
10/09/2015	NAL 1	Routine - Annual	35	42.4	Noise Criteria Does Not Apply ¹	Operational	42.4
						Background	48.0
10/09/2015	NAL 4	Routine - Annual	38	44.4	Noise Criteria Does Not Apply ¹	Operational	44.4
						Background	47.5
10/09/2015	NAL 5	Routine - Annual	38	43.8	Noise Criteria Does Not Apply ¹	Operational	43.8
						Background	46.6
15/09/2015	NAL 2	Routine - Annual	37	36.9	Compliant	N/A	
15/09/2015	NAL 3	Routine - Annual	37	37.0	Compliant	N/A	
26/11/2015	NAL 2	Routine - Quarterly	37	40.6	Compliant ²	Operational	40.6
						Background	41.7

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes	
9/12/2015	Onsite	Additional Plant and Equipment					
		Bulldozer - D9T CAT	109	109.2	Compliant ³	N/A	
9/12/2015	NAL 1	Routine Annual (Repeated Test)	35	42.8	Compliant ²	Operational	42.8
						Background	42.9
9/12/2015	NAL 4	Routine Annual (Repeated Test)	38	42.2	Compliant ²	Operational	42.2
						Background	42.9
9/12/2015	NAL 5	Routine Annual (Repeated Test)	38	44.0	Compliant ²	Operational	44.0
						Background	47.9
9/12/2015	NAL 3	Routine Quarterly	37	38.1	Compliant ³	N/A	
21/01/2016	NAL 2	Routine Quarterly	37	42.2	Compliant ²	Operational	42.2
						Background	44.4
21/01/2016	NAL 3	Routine Quarterly	37	57.0	Compliant ²	Operational	57.0
						Background	57.5
1/06/2016	NAL 2	Routine Quarterly	37	38.2	Compliant ³	N/A	
1/06/2016	NAL 3	Routine Quarterly	37	36.7	Compliant	N/A	
16/11/2016	NAL 2	Routine Quarterly	37	38.7	Compliant ³	N/A	
16/11/2016	NAL 3	Routine Quarterly	37	32.0	Compliant	N/A	
24/05/2017	NAL 2	Routine Quarterly	37	38.1	Compliant ³	N/A	
24/05/2017	NAL 3	Routine Quarterly	37	37.3	Compliant ³	N/A	
31/05/2017	On Site	Routine - Annual Plant and Equipment					
		Mobile Screening Plant - Striker	114	106.2	Compliant	N/A	
		Mobile Screening Plant - McCloskey	114	110.9	Compliant	N/A	
		Dump Truck - Komatsu	119	98.6	Compliant	N/A	
		Water Truck - Isuzu	90	89.8	Compliant	N/A	
		Excavator - Komatsu PC300LC-8	106	101.9	Compliant	N/A	
		Excavator - Kobelco SK350LC-8	106	100.6	Compliant	N/A	
		Front End Loader - Hyundai HL-770	101	98.8	Compliant	N/A	
		Front End Loader - Komatsu WA500-3	101	98.9	Compliant	N/A	
		Bulldozer - D10 CAT	109	108.5	Compliant	N/A	
26/07/2017	NAL 2	Routine Quarterly	37	31.0	Compliant	N/A	

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes
26/07/2017	NAL 3	Routine Quarterly	37	29.5	Compliant	N/A
12/09/2017	NAL 2	Routine Quarterly	37	<30	Compliant	N/A
12/09/2017	NAL 3	Routine Quarterly	37	32.0	Compliant	N/A
14/12/2017	On Site	Routine - Annual Plant and Equipment				
		Mobile Screening Plant - Striker	114	110.0	Compliant	N/A
		Mobile Screening Plant - McCloskey	114	110.0	Compliant	N/A
		Dump Truck - Komatsu	119	102.0	Compliant	N/A
		Water Truck - Isuzu	90	92.0	Compliant ⁴	N/A
		Excavator - Komatsu PC300LC-8	106	104.0	Compliant	N/A
		Excavator - Kobelco SK350LC-8	106	101.0	Compliant	N/A
		Front End Loader - Hyundai HL-770-7A	101	99.0	Compliant	N/A
		Front End Loader - Komatsu WA500-3	101	101.0	Compliant	N/A
		Bulldozer - D10 CAT	109	109.0	Compliant	N/A
		Dump Truck - Komatsu	119	102.0	Compliant	N/A
		Front End Loader - Hyundai HL- 780-9	101	102.0	Compliant ⁴	N/A
14/12/2017	NAL 1	Routine Annually	35	32.0	Compliant	N/A
14/12/2017	NAL 2	Routine Annually	37	34.0	Compliant	N/A
14/12/2017	NAL 3	Routine Annually	37	34.0	Compliant	N/A
14/12/2017	NAL 4	Routine Annually	38	32.0	Compliant	N/A
14/12/2017	NAL 5	Routine Annually	38	30.0	Compliant	N/A
29/03/2018	NAL 2	Routine Quarterly	37	<30	Compliant	N/A
29/03/2018	NAL 3	Routine Quarterly	37	<30	Compliant	N/A
25/06/2018	NAL 2	Routine Quarterly	37	36.0	Compliant	N/A
25/06/2018	NAL 3	Routine Quarterly	37	36.0	Compliant	N/A
13/09/2018	NAL 2A ⁵	Routine Quarterly	37	35.0	Compliant	N/A
13/09/2018	NAL 3	Routine Quarterly	37	34.0	Compliant	N/A

Notes:

- Noise Criteria Does Not Apply in accordance with the relevant EPA Licence as the mean wind speed at 10 metres is >3m/s.
- Background levels exceeded operational levels.
- Result within 2 dB(A) of relevant criteria, not discernible by human ear and therefore deemed compliant.
- Total sound power level of all equipment tested lower than relevant criteria accepted in the EIS assumed total.
- Access to NAL 2 is not permitted. NAL 2A is located adjacent to NAL 2 (approximately 50 m)