

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	Annual Sound Testing Results - Plant and Equipment						
		Mobile Screening Plant - Striker	114	105.8				
		Mobile Screening Plant - McCloskey	114	111.6				
		Site Truck - Ford Louisville	91	90.3				
		Dump Truck - Komatsu	119	106.2				
		Water Truck - Isuzu	90	91.1				
		Excavator - Komatsu PC300LC-8	106	106.2				
		Excavator - Kobelco SK350LC-8	106	108.0				
		Front End Loader - Hyundai HL-770	101	98.7				
Front End Loader - Komatsu WA500-3	101	101.4						
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	Operational	43.8	

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes	
10/09/2015	NAL 5	Routine - Annual	38	45.8	Not Apply ¹	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
9/12/2015	On Site	Annual Sound Testing Results - Additional Plant					
		Bulldozer - D9T CAT	109	109.2			
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	Non Compliant	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	Non Compliant	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	Non Compliant	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	Non Compliant	N/A	

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes
24/05/2017	NAL 3	Routine Quarterly	37	37.3	Non Compliant	N/A
31/05/2017	On Site	Annual Sound Testing Results - Plant and Equipment				
		Mobile Screening Plant - Striker	114	106.2		
		Mobile Screening Plant - McCloskey	114	110.9		
		Dump Truck - Komatsu	119	98.6		
		Water Truck - Isuzu	90	89.8		
		Excavator - Komatsu PC300LC-8	106	101.9		
		Excavator - Kobelco SK350LC-8	106	100.6		
		Front End Loader - Hyundai HL-770	101	98.8		
		Front End Loader - Komatsu WA500-3	101	98.9		
		Bulldozer - D10 CAT	109	108.5		
26/07/2017	NAL 2	Routine Quarterly	37	31.0	Compliant	N/A
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	Annual Sound Testing Results - Plant and Equipment				
		Mobile Screening Plant - Striker	114	110.0		
		Mobile Screening Plant - McCloskey	114	110.0		
		Dump Truck - Komatsu	119	102.0		
		Water Truck - Isuzu	90	92.0		
		Excavator - Komatsu PC300LC-8	106	104.0		
		Excavator - Kobelco SK350LC-8	106	101.0		
		Front End Loader - Hyundai HL-770-7A	101	99.0		
Front End Loader - Komatsu WA500-3	101	101.0				

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes
		Bulldozer - D10 CAT	109	109.0		
		Dump Truck - Komatsu	119	102.0		
		Front End Loader - Hyundai HL- 780-9	101	102.0		
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 (3)	Routine Quarterly	37	35.0	Compliant	N/A
13/09/2018	NAL 3	Routine Quarterly	37	34.0	Compliant	N/A
12/12/2018	NAL 1	Routine Annually	35	Not Measured	Not Measured	No approval to access location.
12/12/2018	NAL 2	Routine Annually	37	Not Measured	Not Measured	No approval to access location.
12/12/2018	NAL 2A (3)	Routine Annually	37	<30	Compliant	N/A
12/12/2018	NAL 3	Routine Annually	37	<30	Compliant	N/A
12/12/2018	NAL 4	Routine Annually	38	<38	Compliant	N/A
12/12/2018	NAL 5	Routine Annually	38	<38	Compliant	N/A
		Annual Sound Testing Results - Plant and Equipment				
		Mobile Screening Plant - Striker	114	102.7		
		Mobile Screening Plant - McCloskey	114	108.8		
		Dump Truck - Komatsu	119	105.3		
		Water Truck - Isuzu	90	104.4		
		Ford Louisville Tip Truck	103	103.7		

Date	Location	Type of Noise Monitoring	Relevant Criteria	Result	Compliant/ Non-Compliant	If Non-Compliance - Reasons/Notes	
13/09/2018 to 07/11/2018	On Site	Excavator - Komatsu PC300LC-8	106	102.4			
		Excavator - Kobelco SK350LC-8	106	101.8			
		Excavator - Kobelco SK350LC-8 Exentric Ripper Breaking Rocks		123.7			
		Excavator - Kobelco SK350LC-8 Exentric Ripper Working Rock Face		113.9			
		Front End Loader - Hyundai HL-770-7A	101	104.2			
		Front End Loader - Hyundai HL-770-7	101	105.6			
		Front End Loader - Komatsu WA500-3	101	108.3			
		Front End Loader - Hyundai HL- 780-9	101	106.4			
		Commander 1400 Control Side		106.5			
		Sandwash Generator		88.3			
		Dewaterer West Side		96.8			
		Complete Sandwash System Exhaust Side		111.2			
		Site Generator		84.3			
20/03/2019	NAL 2A (3)	Routine Quarterly	37	36.1		N/A	
20/03/2019	NAL 3	Routine Quarterly	37	32.0		N/A	
20/03/2019	On Site	Annual Sound Testing Results - Plant and Equipment					
		Metso LT106 Jaw Crusher		116			
		Dozer D10 - Single Tyne Ripper Sandstone		115.5			
		Dozer D10 - Pushing Up Material		116.8			
		Maxtrax Cone Crusher - 10/30 Rear		108.7			
		Maxtrax Cone Crusher - 14/45 Front		109.6			
		Maxtrax Cone Crusher - 14/70 Front		108.8			
		Maxtrax Cone Crusher - 11 Opposite		109			

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Notes:

1. Noise Criteria Does Not Apply in accordance with the relevant EPA Licence as the mean wind speed at 10 metres is >3m/s.
2. Background levels exceeded operational levels.
3. Access to NAL 2 is not permitted. NAL 2A is located adjacent to NAL 2 (approximately 50 m).