









Project: 25278 Agreement No. CE61/2007 (CE) North East New Territories New Development Areas Planning and Engineering Study  
Tiltle: Predicted Noise Level from Lok Ma Chau Tunnel Ventilation Shaft KTN B1-5

Measured Noise Level along the boundary of Lok Ma Chau Tunnel Ventilation Shaft KTN B1-5

Measurement Location [1]	Separation Distance Between Measurement Location and Ventilation Shaft, m	Measured noise level, dB(A)	Background Noise Level [2], dB(A)	Measured Noise Level (Vent Shaft Only), dB(A)	Tonality Correction [3] dB(A),
A	10	54	48	53	3
B	16	51	48	48	0

Note:

Measurement was taken by NA-27

[1] Refer to the attached drawing.

[2] Noise measurement was conducted without facade at 1.2m above ground (including background noise).

[3] Measurements indicated that Locations A has tonal characteristic.

Predicted Sound Power Level of Lok Ma Chau Tunnel Ventilation Shaft KTN B1-5

Measured Noise Level (Vent Shaft Only), dB(A)	Separation Distance Between Measurement Location and Ventilation Shaft, m	Predicted Sound Power Level, dB(A)	Maximum Predicted Sound Power Level, dB(A)
53	10	81	81
48	16	80	

Predicted SPL at NSRs

NSR	AP [1]	Reference Measurement Location	Sound Power Level, dB(A)	Separation Distance between Ventilation Shaft and NSRs, m	Correction, dB(A)				Predicted SPL, dB(A)	Criteria, dB(A)	Compliance [Y/N]
					Distance	Facade	Tonality	Screening			
KTN A1-2	R2504	A	81	265	-56	3	3	0	30	50	Y

Note:

[1] Refer to the attached drawing.

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Tiltle: Predicted Noise Level from Lok Ma Chau Tunnel Ventilation Shaft KTN D1-2

Measured Noise Level along the boundary of Lok Ma Chau Tunnel Ventilation Shaft KTN D1-2

Measurement Location [1]	Separation Distance Between Measurement Location and Ventilation Shaft, m	Measured noise level, dB(A)	Background Noise Level [2], dB(A)	Measured Noise Level (Vent Shaft Only), dB(A)	Tonality Correction [3], dB(A)
C	50	48	47	41	0

Note:

Measurement was taken by NA-27

[1] Refer to the attached drawing

[2] Noise measurement was conducted without facade at 1.2m above ground (including background noise)

[3] Measurement indicated that Location C tonal characteristic is not anticipated

Predicted Sound Power Level of Lok Ma Chau Tunnel Ventilation Shaft KTN D1-2

Measured Noise Level (Vent Shaft Only), dB(A)	Separation Distance Between Measurement Location and Ventilation Shaft, m	Predicted Sound Power Level, dB(A)
41	50	83

Predicted SPL at NSRs

NSR	AP [1]	Reference Measurement Location	Sound Power Level, dB(A)	Separation Distance between Ventilation Shaft and NSRs, m	Correction, dB(A)				Predicted SPL, dB(A)	Criteria, dB(A)	Compliance [Y/N]
					Distance	Facade	Tonality	Screening			
KTN D1-7	R2781	C	83	60	44	3	0	0	43	50	Y
KTN D1-5	R3803	C	83	90	47	3	0	0	39	50	Y
KTN D1-7	R2782	C	83	90	47	3	0	0	39	50	Y

Note:

[1] Refer to the attached drawing.

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Tiltle: Predicted Noise Level from Lok Ma Chau Ventilation Shaft KTN A1-11 and KTN A1-12

Measured noise level along the boundary of Lok Ma Chau Ventilation Shaft KTN A1-11 and KTN A1-12

Measurement Location [1], [2]	Separation Distance Between Measurement Location and Ventilation Shaft m	Measured noise level, dB(A)	Background Noise Level [2], dB(A)	Measured Noise Level (Vent Shaft Only), dB(A)	Tonality Correction [3], dB(A)
D	25	53	49	52	3
E	23	50	49	44	0
F	60	51	49	46	0
G	165	49	49	32	3
H	28	52	49	48	0
I	45	53	49	51	0
J	50	51	49	47	0
K [4]	60	47	49	47	0
M	30	50	49	44	0
N	35	50	49	44	0

Note:

Measurement was taken by NA-27

[1] Refer to the attached drawing

[2] Noise measurement was conducted without facade at 1.2m above ground at location L (including background noise)

[3] Background noise level measurement location refer to the attached drawing

[4] Measured noise level at K does not correct with background noise level

[5] Measured noise level at G is 48.7 dB(A) while the background noise level is 48.6dB(A) in 1 d.p.

Predicted SPL at NSRs

NSR	AP [1]	Reference Measurement Location	Reference Distance Between Measurement Location and Ventilation Shaft, m [1]	Measured Noise Level dB(A) at Reference Location	Separation Distance between Ventilation Shaft and NSRs, m	Facade Correction, dB(A)	Distance Correction, dB(A)	Predicted Noise Level, dB(A)	Criteria, dB(A)	Compliance [Y/N]
KTN A1-5	R9013	K	60	47	65	3	1	49	50	Y
KTN A2-4	R9010	H	28	48	65	3	7	44	50	Y
KTN A2-7	R9011	E	23	44	30	3	2	44	50	Y
KTN A1-8	R9012	M	30	44	65	3	7	41	50	Y

Note:

[1] Refer to the attached drawing.