

Project: 25278 Agreement No. CE61/2007 (CE) North East New Territories New Development Areas Planning and Engineering Study
Title: Predicted Sound Pressure Level from from Lok Ma Chau Ventilation Shaft KTN A1-11 and KTN A1-12

Predicted SPL at NSRs at Various Floor Levels - KTN A1-5

NSR	AP	Floor	Floor Level, mpd	Vent, dB(A)	Slant Distance, m	Distance Correction, dB(A)	Tonality, dB(A)	Facade, dB(A)	Predicted SPL, dB(A)
KTN A1-5	R9013	1	30	47	65	-1	0	3	49
		2	33	47	65	-1	0	3	49
		3	36	47	65	-1	0	3	49
		4	39	47	66	-1	0	3	49
		5	42	47	66	-1	0	3	49
		6	45	47	67	-1	0	3	49
		7	48	47	67	-1	0	3	49
		8	51	47	68	-1	0	3	49
		9	54	47	69	-1	0	3	49
		10	57	47	70	-1	0	3	49
		11	60	47	72	-2	0	3	48
		12	63	47	73	-2	0	3	48
		13	66	47	74	-2	0	3	48
		14	69	47	76	-2	0	3	48
		15	72	47	77	-2	0	3	48
		16	75	47	79	-2	0	3	48
		17	78	47	81	-3	0	3	47
		18	81	47	83	-3	0	3	47
		19	84	47	85	-3	0	3	47
		20	87	47	86	-3	0	3	47
		21	90	47	88	-3	0	3	47
		22	93	47	91	-4	0	3	46
		23	96	47	93	-4	0	3	46
		24	99	47	95	-4	0	3	46
		25	102	47	97	-4	0	3	46
		26	105	47	99	-4	0	3	46
		27	108	47	102	-5	0	3	45
		28	111	47	104	-5	0	3	45
		29	114	47	106	-5	0	3	45
		30	117	47	109	-5	0	3	45

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Predicted SPL at NSRs at Various Floor Levels - KTN A2-4

NSR	AP	Floor	Floor Level, mpd	Vent, dB(A)	Slant Distance, m	Distance Correction, dB(A)	Tonality, dB(A)	Facade, dB(A)	Predicted SPL, dB(A)
KTN A2-4	R9010	1	29	48	65	-7	0	3	44
		2	32	48	65	-7	0	3	44
		3	35	48	65	-7	0	3	44
		4	38	48	66	-7	0	3	44
		5	41	48	66	-7	0	3	44
		6	44	48	66	-7	0	3	44
		7	47	48	67	-8	0	3	44
		8	50	48	68	-8	0	3	44
		9	53	48	68	-8	0	3	44
		10	56	48	69	-8	0	3	43
		11	59	48	70	-8	0	3	43
		12	62	48	71	-8	0	3	43
		13	65	48	73	-8	0	3	43
		14	68	48	74	-8	0	3	43
		15	71	48	75	-9	0	3	43
		16	74	48	77	-9	0	3	43
		17	77	48	78	-9	0	3	42
		18	80	48	80	-9	0	3	42
		19	83	48	81	-9	0	3	42
		20	86	48	83	-9	0	3	42
		21	89	48	85	-10	0	3	42
		22	92	48	86	-10	0	3	42
		23	95	48	88	-10	0	3	41
		24	98	48	90	-10	0	3	41
		25	101	48	92	-10	0	3	41
		26	104	48	94	-10	0	3	41
		27	107	48	96	-11	0	3	41
		28	110	48	98	-11	0	3	41
		29	113	48	100	-11	0	3	40
		30	116	48	102	-11	0	3	40

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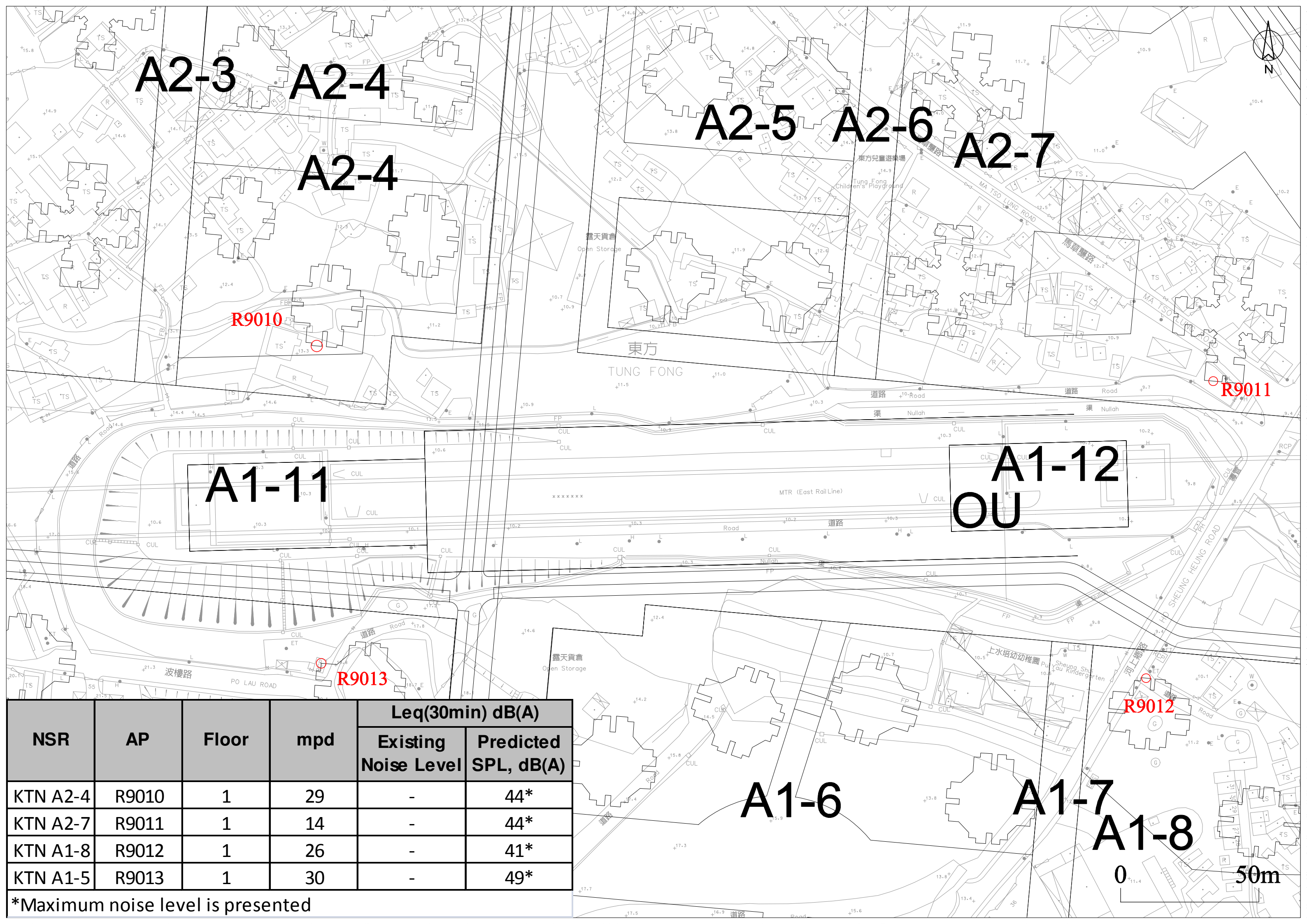
Predicted SPL at NSRs at Various Floor Levels - KTN A2-7

NSR	AP	Floor	Floor Level, mpd	Vertical Separation Distance, m	Vent, dB(A)	Slant Distance, m	Distance Correction, dB(A)	Tonality, dB(A)	Facade, dB(A)	Predicted SPL, dB(A)
KTN A2-7	R9011	1	14	0	44	30	-2	0	3	44
		2	17	2.7	44	30	-2	0	3	44
		3	20	5.4	44	30	-2	0	3	44
		4	23	8.1	44	31	-3	0	3	44
		5	26	10.8	44	32	-3	0	3	44
		6	29	13.5	44	33	-3	0	3	44
		7	32	16.2	44	34	-3	0	3	43
		8	35	18.9	44	35	-4	0	3	43
		9	38	21.6	44	37	-4	0	3	43
		10	41	24.3	44	39	-4	0	3	42
		11	44	27	44	40	-5	0	3	42
		12	47	29.7	44	42	-5	0	3	41
		13	50	32.4	44	44	-6	0	3	41
		14	53	35.1	44	46	-6	0	3	41
		15	56	37.8	44	48	-6	0	3	40
		16	59	40.5	44	50	-7	0	3	40
		17	62	43.2	44	53	-7	0	3	39
		18	65	45.9	44	55	-8	0	3	39
		19	68	48.6	44	57	-8	0	3	39
		20	71	51.3	44	59	-8	0	3	38
		21	74	54	44	62	-9	0	3	38
		22	77	56.7	44	64	-9	0	3	38
		23	80	59.4	44	67	-9	0	3	37
		24	83	62.1	44	69	-10	0	3	37
		25	86	64.8	44	71	-10	0	3	37
		26	89	67.5	44	74	-10	0	3	36
		27	92	70.2	44	76	-10	0	3	36
		28	95	72.9	44	79	-11	0	3	36
		29	98	75.6	44	81	-11	0	3	36
		30	101	78.3	44	84	-11	0	3	35
		31	104	81	44	86	-11	0	3	35
		32	107	83.7	44	89	-12	0	3	35
		33	110	86.4	44	91	-12	0	3	35
		34	113	89.1	44	94	-12	0	3	34
		35	116	91.8	44	97	-12	0	3	34

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Predicted SPL at NSRs at Various Floor Levels - KTN A1-8

NSR	AP	Floor	Floor Level, mpd	Vertical Separation Distance, m	Vent, dB(A)	Slant Distance, m	Distance Correction, dB(A)	Tonality, dB(A)	Facade, dB(A)	Predicted SPL, dB(A)
KTN A1-8	R9012	1	26	0	44	65	-7	0	3	41
		2	29	3	44	65	-7	0	3	41
		3	32	6	44	65	-7	0	3	41
		4	35	9	44	66	-7	0	3	41
		5	38	12	44	66	-7	0	3	41
		6	41	15	44	67	-7	0	3	40
		7	44	18	44	67	-7	0	3	40
		8	47	21	44	68	-7	0	3	40
		9	50	24	44	69	-7	0	3	40
		10	53	27	44	70	-7	0	3	40
		11	56	30	44	72	-8	0	3	40
		12	59	33	44	73	-8	0	3	40
		13	62	36	44	74	-8	0	3	40
		14	65	39	44	76	-8	0	3	39
		15	68	42	44	77	-8	0	3	39
		16	71	45	44	79	-8	0	3	39
		17	74	48	44	81	-9	0	3	39
		18	77	51	44	83	-9	0	3	39
		19	80	54	44	85	-9	0	3	38
		20	83	57	44	86	-9	0	3	38
		21	86	60	44	88	-9	0	3	38
		22	89	63	44	91	-10	0	3	38
		23	92	66	44	93	-10	0	3	38
		24	95	69	44	95	-10	0	3	37
		25	98	72	44	97	-10	0	3	37
		26	101	75	44	99	-10	0	3	37
		27	104	78	44	102	-11	0	3	37
		28	107	81	44	104	-11	0	3	37
		29	110	84	44	106	-11	0	3	36
		30	113	87	44	109	-11	0	3	36



NSR	AP	Floor	mpd	Leq(30min) dB(A)	
				Existing Noise Level	Predicted SPL, dB(A)
KTN A2-4	R9010	1	29	-	44*
KTN A2-7	R9011	1	14	-	44*
KTN A1-8	R9012	1	26	-	41*
KTN A1-5	R9013	1	30	-	49*

*Maximum noise level is presented