Appendix 4.2A

Unmitigated Powered Mechanical Equipment

	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SW
SC	CHEME H (HOI PO ROAD TO WEST KOWLOON HIGH	WAY)				
	Stage 1 - Site Preparation and Utility Diversion			-		
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	1	50%	109
				Total S	SWL, dB(A)	112
	Stage 2 - Shifting of WKH and Lin Cheung Road					
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
	Asphalt paver	CNP 004	109	1	50%	106
	Road roller	CNP 185	108	1	50%	105
	Power rammer (petrol)	CNP 169	108	2	50%	103
	Tower rammer (petror)	CIVI 109	100		SWL, dB(A)	116
				Total S	WL, ub(A)	110
	Stage 3 - Pilling					
	Pilling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	101
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	2	70%	96
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	2	70%	103
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
	Concrete pump, stationary/lorry mounted	CNP 047	109	1	50%	106
	Concrete lorry mixer	CNP 044	109	3	50%	111
				Total S	SWL, dB(A)	117
	Stage 4 - Pile Caps					
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
	Concrete lorry mixer	CNP 044	102	3	50%	111
	Concrete pump, stationary/ lorry mounted	CNP 044	109	1	50%	106
	Crane, mobile/ barge mounted (diesel)	CNP 047	112	1	50%	100
	Excavator/ loader, wheeled/tracked	CNP 048	112	1	50%	109
	Poker, vibratory, hand-held	CNP 170	113	4	50%	116
		CNP 141	112	3	50%	110
	Lorry Bar bender and cutter (electric)	CNP 141 CNP 021	90	1	50%	87
	Bar bender and cutter (electric)	CNP 021	90	_	SWL, dB(A)	120
				101111	, , , , , , , , , , , , , , , , , , ,	120
	Stage 5 - Piers					
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
	Concrete lorry mixer	CNP 044	109	3	50%	111
	Concrete pump, stationary/lorry mounted	CNP 047	109	1	50%	106
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
	Poker, vibratory, hand-held	CNP 170	113	3	50%	115
	Bar bender and cutter (electric)	CNP 021	90	1	50%	87
				Total S	SWL, dB(A)	117

PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total S
Stage 6 - Bridge Decks					
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	10
Concrete lorry mixer	CNP 044	109	5	50%	11:
Concrete pump, stationary/lorry mounted	CNP 047	109	1	50%	10
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Poker, vibratory, hand-held	CNP 170	113	4	50%	11
Lorry	CNP 141	112	1	50%	10
Bar bender and cutter (electric)	CNP 021	90	1	50%	8
			Total S	SWL, dB(A)	11
Stage 7 - Excavation for Retaining Walls					
Excavator/ loader, wheeled/tracked	CNP 081	112	1	90%	11
Lorry	CNP 141	112	3	90%	11
			Total S	SWL, dB(A)	11
Stage 8 - Construction of Retaining Walls Generator, super silenced, 70 dB(A) at 7m	CNID 102	95	1	50%	92
Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 103 CNP 002	102	1	50%	92
Concrete lorry mixer		102	3	50%	11
Crane, mobile/ barge mounted (diesel)	CNP 044	112	1	50%	10
Poker, vibratory, hand-held	CNP 048 CNP 170	112	3	50%	11
		113	1	50%	
Lorry Bar bender and cutter (electric)	CNP 141 CNP 021	90	1	50%	10 8'
Bai bender and cutter (electric)	CNP 021	90	Total S	SWL, dB(A)	11
				, , , , , , , , , , , , , , , , , , , ,	
Stage 9 - Backfilling Retaining Walls				42.5	
Lorry	CNP 141	112	2	60%	11
Excavator/ loader, wheeled/tracked	CNP 081	112	1	60%	11
Road roller	CNP 185	108	1	50%	10
Power rammer (petrol)	CNP 169	108	<u> </u>	50%	10
			Total S	SWL, dB(A)	11
Stage 10 - Road Works	1 1			ı	
Lorry	CNP 141	112	2	50%	
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	2	50%	99
Lorry	CNP 002 CNP 103	102 95	2 1 1	50% 50%	99 92
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002 CNP 103 CNP 004	102 95 109	2 1 1 1	50% 50% 50%	99 92
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min Generator, super silenced, 70 dB(A) at 7m	CNP 002 CNP 103	102 95	2 1 1 1 1	50% 50%	99 92 10

PME	TM or other	SWL,	No. of PME	% on time	Total SWI
HEME H (WIDENING OF ELEVATED NGA CHEUNG)	reference	dB(A)			dB(A)
Stage 1 - Site Preparation and Utility Diversion	ROAD)		<u> </u>		
Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
Lorry	CNP 141	112	2	50%	112
Lony	CNF 141	112		SWL, dB(A)	114
			Total S	7 VV L., GD(71)	117
Stage 2 - Pilling					
Pilling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	101
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	2	70%	96
Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	2	70%	103
Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
Lorry	CNP 141	112	2	50%	112
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Concrete lorry mixer	CNP 044	109	3	50%	111
Concrete forty finact	CIVI 044	107	_	SWL, dB(A)	117
			Tours	7 (7 L), GD(7 I)	117
Stage 3 - Pile Caps					
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1 1	60%	93
Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
Concrete lorry mixer	CNP 044	109	3	50%	111
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
Poker, vibratory, hand-held	CNP 170	113	4	50%	116
Lorry	CNP 141	112	3	50%	114
Bar bender and cutter (electric)	CNP 021	90	1	50%	87
But bender and carrer (electric)	C1 11 021	70	Total S	WL, dB(A)	120
			1011111	, , , <u>, , , , , , , , , , , , , , , , </u>	120
Stage 4 - Piers					
Stage 4 - Piers Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
Generator, super silenced, 70 dB(A) at 7m	CNP 103 CNP 002	95 102	1 1	60%	93
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer	CNP 002 CNP 044	102 109	1 1 3 1	60% 50%	100 111
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted	CNP 002 CNP 044 CNP 047	102 109 109	1	60% 50% 50%	100 111 106
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel)	CNP 002 CNP 044 CNP 047 CNP 048	102 109 109 112	1 3 1 1	60% 50% 50% 50%	100 111 106 109
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170	102 109 109 112 113	1 3 1	60% 50% 50% 50% 50%	100 111 106 109 115
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel)	CNP 002 CNP 044 CNP 047 CNP 048	102 109 109 112	1 3 1 1 3	60% 50% 50% 50% 50% 50%	100 111 106 109 115 87
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170	102 109 109 112 113	1 3 1 1 3	60% 50% 50% 50% 50%	100 111 106 109 115
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric)	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170	102 109 109 112 113	1 3 1 1 3	60% 50% 50% 50% 50% 50%	100 111 106 109 115 87
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021	102 109 109 112 113	1 3 1 1 3	60% 50% 50% 50% 50% 50%	100 111 106 109 115 87
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021	102 109 109 112 113 90	1 3 1 1 3	60% 50% 50% 50% 50% 50% 50% WL, dB(A)	100 111 106 109 115 87 117
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021	102 109 109 112 113 90	1 3 1 1 3 1 Total S	60% 50% 50% 50% 50% 50% 8WL, dB(A)	100 111 106 109 115 87 117
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021 CNP 002 CNP 002 CNP 044	102 109 109 112 113 90	1 3 1 1 3	60% 50% 50% 50% 50% 50% WL, dB(A)	100 111 106 109 115 87 117
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021 CNP 103 CNP 002 CNP 044 CNP 047	102 109 109 112 113 90 95 102 109	1 3 1 1 3 1 Total S	60% 50% 50% 50% 50% 50% 8WL, dB(A) 60% 60% 50%	100 111 106 109 115 87 117
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel)	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021 CNP 103 CNP 002 CNP 002 CNP 044 CNP 047 CNP 048	102 109 109 112 113 90 95 102 109 109 112	1 3 1 1 Total S	60% 50% 50% 50% 50% 50% WL, dB(A) 60% 60% 50% 50% 50%	100 111 106 109 115 87 117 93 100 111 106 109
Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted Crane, mobile/ barge mounted (diesel) Poker, vibratory, hand-held Bar bender and cutter (electric) Stage 5 - Bridge Decks Generator, super silenced, 70 dB(A) at 7m Air compressor, air flow> 10m3/min and <= 30m3/min Concrete lorry mixer Concrete pump, stationary/ lorry mounted	CNP 002 CNP 044 CNP 047 CNP 048 CNP 170 CNP 021 CNP 002 CNP 002 CNP 044 CNP 047	102 109 109 112 113 90 95 102 109	1 3 1 1 3 1 Total S	60% 50% 50% 50% 50% 50% 60% 60% 50% 50%	100 111 106 109 115 87 117 93 100 111 106

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
	Stage 6 - Road Works					
	Lorry	CNP 141	112	2	50%	112
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	50%	99
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	92
	Asphalt paver	CNP 004	109	1	50%	106
	Road roller	CNP 185	108	1	50%	105
	Power rammer (petrol)	CNP 169	108	2	50%	108
				Total S	SWL, dB(A)	115

	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total Si dB(A
SC	CHEME I (U TURN TO WEST HARBOUR CROSSING)		Ì			,
	Stage 1 - Site Preparation and Utility Diversion				•	
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
				Total S	SWL, dB(A)	114
	Stage 2 - Shifting the Approach Roads and Close the Fast			_	ı	,
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
	Asphalt paver	CNP 004	109	1	50%	106
	Road roller	CNP 185	108	1	50%	105
	Power rammer (petrol)	CNP 169	108	2	50%	108
				Total S	SWL, dB(A)	116
	Stage 3 - Pilling					
	Pilling, large diameter bored, reverse circulation drill	CNP 166	100	1	70%	98
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	70%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	70%	100
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
	Concrete lorry mixer	CNP 044	109	2	50%	109
				Total S	SWL, dB(A)	117
	Stage 4 - Pile Caps					
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
	Concrete lorry mixer	CNP 044	109	2	50%	109
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Poker, vibratory, hand-held	CNP 170	113	3	50%	115
	Lorry	CNP 141	112	2	50%	112
	Bar bender and cutter (electric)	CNP 021	90	1	50%	87
				Total S	SWL, dB(A)	119
	Stage 5 - Piers					
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1 1	60%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 103 CNP 002	102	1	60%	
	Concrete lorry mixer			2		100
		CNP 044 CNP 047	109	3	50%	11
	Concrete pump, stationary/ lorry mounted	+ + + + + + + + + + + + + + + + + + + +	109	1	50%	100
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	109
	Poker, vibratory, hand-held	CNP 170 CNP 021	113 90	3	50% 50%	11: 87
	Bar bender and cutter (electric)					

Stage 6 - Bridge Decks	1			1	
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
Concrete lorry mixer	CNP 044	109	3	50%	111
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Poker, vibratory, hand-held	CNP 170	113	3	50%	115
Bar bender and cutter (electric)	CNP 021	90	1	50%	87
			Total 1	SWL, dB(A)	117
			Total	S WL, $uD(A)$	117
			Total	SWL, uD(A)	117
Stage 7 - Road Works			Total	SWL, UD(A)	117
Stage 7 - Road Works Lorry	CNP 141	112	2	50%	117
_	CNP 141 CNP 002	112 102		, , ,	
Lorry	1			50%	112
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102		50%	112 99
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min Generator, super silenced, 70 dB(A) at 7m	CNP 002 CNP 103	102 95		50% 50% 50%	112 99 92
Lorry Air compressor, air flow> 10m3/min and <= 30m3/min Generator, super silenced, 70 dB(A) at 7m Asphalt paver	CNP 002 CNP 103 CNP 004	102 95 109		50% 50% 50% 50%	112 99 92 106

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
4	SCHEME J (LIN CHEUNG ROAD TO NGA CHEUNG ROA		(/			(/
	Stage 1 - Site Preparation and Utility Diversion	,				
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
				Total S	WL, dB(A)	114
	Stage 2 - Modification of Lin Cheung Road Slip Roads					
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Lorry	CNP 141	112	2	50%	112
	Asphalt paver	CNP 004	109	1	50%	106
	Road roller	CNP 185	108	1	50%	105
	Power rammer (petrol)	CNP 169	108	2	50%	108
				Total S	WL, dB(A)	116
	Stage 3 - U Structures					
	Water pump (electric)	CNP 281	88	4	50%	91
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	100
	Concrete lorry mixer	CNP 044	109	2	50%	109
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	50%	109
	Poker, vibratory, hand-held	CNP 170	113	3	50%	115
	Lorry	CNP 141	112	2	50%	112
	Bar bender and cutter (electric)	CNP 021	90	1	50%	87
				Total S	WL, dB(A)	119
	Stage 4 - Road Works					
	Lorry	CNP 141	112	2	50%	112
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	50%	99
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	92
	Asphalt paver	CNP 004	109	1	50%	106
	Road roller	CNP 185	108	1	50%	105
	Power rammer (petrol)	CNP 169	108	2	50%	108
	¥ /	1			WL, dB(A)	115

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
5	SCHEME Q and Improvement Works at the Junction of CRA	FS/JR				
	Stage 1 - Road Surface Removal					
	Excavator/ loader, wheeled/tracked	CNP 081	112	1	70%	110
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	100%	95
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	50%	105
				Total S	WL, dB(A)	112
	Stage 2 - Road Surface Cleaning					
	Road Sweeper	@	107	1	100%	107
				Total S	WL, dB(A)	107
	Stage 3 - Road Surface Paving					
	Asphalt paver	CNP 004	109	1	100%	109
				Total S	WL, dB(A)	109
	Stage 4 - Road Surface Compaction					
	Road roller	CNP 185	108	1	100%	108
				Total S	WL, dB(A)	108
		·		·		·

[@] The SWL is referred to "Sound power levels of other commonly used PME" in EPD website

Appendix 4.2B

Unmitigated Sound Power Level of the Project

Appendix 4.2B - SWL of Construction Activitives (Unmitigated)

											SV	VL (dB)	A)										
						2014											20	15					
Stage/Act	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Scheme H(A	.) - Hoi	Po Roa	d to We	est Kow	/loon Hi	ighway																	
1.1	112	112																					i
1.2			116	116																			
1.3			117	117	117	117	117	117	117	117													
1.4			120	120	120	120	120	120	120	120													
1.5							117	117	117	117	117												
1.6											119	119	119	119	119	119	119	119	119				
1.7					118	118	118	118	118														
1.8					118	118	118	118	118														
1.9					115	115	115	115	115														
1.10																				115	115		
Scheme H(B				ted Nga	Cheur	ng Road	t				-					, ,	-		,				
2.1	114	114	114																				
2.2				117	117	117	117	117	117	117	117	117	117										
2.3				120	120	120	120	120	120	120	120	120	120										
2.4							117	117	117	117	117	117	117	117									
2.5															117	117	117	117	117	117	117		
2.6																				115	115		
Scheme I - U t				rossing																			
3.1	114	114	114																				
3.2	116	116	116																				
3.3				117	117	117	117	117	117	117	117	117	117										
3.4				119	119	119	119	119	119	119	119	119	119										
3.5							117	117	117	117	117	117	117	117									
3.6															117	117	117	117	117	117	117		
3.7																				115	115		
Scheme J - Lii				Cheung	Road				1										,				
4.1	114	114	114	110	4.4.0	110	110									ļ							
4.2				116	116	116	116									110							
4.3								119	119	119	119	119	119	119	119	119	119	119	119	=			
4.4	L				L											oxdot				115	115		
Scheme Q a							R/FS/J	R			-						-		1	1			
5.1	112	112	112	112	112	112																	
5.2							107	107	107	107	107	107	107	107	107	107							
5.3																	109	109	109	109	109	109	109
5.4																	108	108	108	108	108	108	108

Appendix 4.2C

Notional Distance from Construction Sites of the Project

Appendix 4.2C - Notional Distance, Correction and Screening of NSRs

Vertical distance From Ground(m)

								N:	SR							
	IHV	FR	PAV	CG	LKPC	YCS	SRT	CLS	ASD1	ASD2	FSDO	ASC	LCMS	VT	GB	YTB
Vertical distance	12	28	25	6	6	6	39	35	10	10	20	10	4	43	6	8

Notional Distance from Constuction Sites to NSR (m)

								N:	SR							
Work sites	IHV	FR	PAV	CG	LKPC	YCS	SRT	CLS	ASD1	ASD2	FSDO	ASC	LCMS	VT	GB	YTB
Scheme H(A)	170	191	156	211	262	295										
Scheme H(B)							73	98								
Scheme I							160	81								
Scheme J				203	201	212										
Scheme Q and Work at																
Junction CR/FS/JR									22	13	56	24	62	61	43	17

Noise sources at more than 300m from the sensitive receiver are not considered in cumulative noise assessment due to large distance attenuation effect.

Distance Attenuation and Façade Correction (dB(A))

								N:	SR							
Work sites	IHV	FR	PAV	CG	LKPC	YCS	SRT	CLS	ASD1	ASD2	FSDO	ASC	LCMS	VT	GB	YTB
Scheme H(A)	-50	-51	-49	-51	-53	-54										
Scheme H(B)							-42	-45								
Scheme I							-49	-43								
Scheme J				-51	-51	-52										
Scheme Q and Work at																
Junction CR/FS/JR									-32	-27	-40	-33	-41	-41	-38	-30

Screening Between Construction Sites and NSRs (dB(A))

								N	SR							
Work sites	IHV	FR	PAV	CG	LKPC	YCS	SRT	CLS	ASD1	ASD2	FSDO	ASC	LCMS	VT	GB	YTB
Scheme H(A)																
Scheme H(B)																
Scheme I																
Scheme J																
Scheme Q and Work at																
Junction CR/FS/JR																

Appendix 4.2D

Detailed Calculation of Unmitigated Construction Noise Level of the Project

NSR:	IHV											SPL	dB) ر	(A))										
							2014												15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
1.1	Site Preparation and Utility Diversion	62	62																					
1.2	Shifting of WKH and Lin Cheung Road			66	66																			
1.3	Pilling			67	67	67	67	67	67	67	67													
1.4	Pile Caps			70	70	70	70	70	70	70	70													
1.5	Piers							67	67	67	67	67												
1.6	Bridge Decks											69	69	69	69	69	69	69	69	69				
1.7	Excavation for Retaining Walls					68	68	68	68	68														
1.8	Construction of Retaning Walls					68	68	68	68	68														
1.9	Backfilling Retaining Walls					65	65	65	65	65														
1.10	Road Works																				65	65		
Schem	e H(B) - Widening of Elevated Nga Cheung Road																							
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
Schem	e I - U turn to West Harbour Crossing																							
3.1	Site Preparation and Utility Diversion																							
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3	Pilling																							
3.4	Pile Caps																							
	Piers																							
	Bridge Decks																							
3.7	Road Works																							
Schem	e J - Lin Cheung Road to Nga Cheung Road																							
4.1	Site Preparation and Utility Diversion																							
4.2	Modification of Lin Cheung Road Slip Roads																							
4.3	U Structures																							
	Road Works																							
Schem	e Q and Improvement Works at the Junction of CR/FS/JR																							
	Road Surface Removal																							
	Road Surface Cleaning																							
5.3	Road Surface Paving																							
5.4	Road Surface Compaction																							
	Total SPL, dB(A)	62	62	73	73	75	75	76	76	76	73	72	69	69	69	69	69	69	69	69	65	65	0	0
	Exceedance	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NSR : FI	R											SPL	رdB ((A))										
							2014)15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	H(A) - Hoi Po Road to West Kowloon Highway																							
	ite Preparation and Utility Diversion	61	61																					
	hifting of WKH and Lin Cheung Road			65	65																			
	illing			66	66	66	66	66	66	66	66													
	ile Caps			69	69	69	69	69	69	69	69													
1.5 P	iers							66	66	66	66	66												
1.6 B	ridge Decks											68	68	68	68	68	68	68	68	68				
1.7 E	xcavation for Retaining Walls					67	67	67	67	67														П
	Construction of Retaning Walls					67	67	67	67	67														ı
1.9 B	ackfilling Retaining Walls					64	64	64	64	64														
	load Works																				64	64		
Scheme 1	H(B) - Widening of Elevated Nga Cheung Road																							
2.1 S	ite Preparation and Utility Diversion																							П
2.2 P	illing																							
2.3 P	ile Caps																							
	iers																							
2.5 B	ridge Decks																						\neg	
	coad Works																						\neg	
	I - U turn to West Harbour Crossing																							
3.1 S	ite Preparation and Utility Diversion																							\Box
	hifting the Approach Roads and Close the Fast Lane of WHC																							
	illing																						\neg	
	ile Caps																						\neg	
	iers																						\neg	
3.6 B	ridge Decks																						\neg	
	Load Works																						\neg	
	J - Lin Cheung Road to Nga Cheung Road																	•						
	ite Preparation and Utility Diversion																					П	\neg	$\overline{}$
	Modification of Lin Cheung Road Slip Roads																						\neg	
	J Structures																						\neg	
	Load Works																						\neg	\Box
	Q and Improvement Works at the Junction of CR/FS/JR																					_		
	Load Surface Removal										I				I			I						
	Load Surface Cleaning																			\Box	 	\Box	\dashv	\Box
	Load Surface Paving																							
	Load Surface Compaction																							
υ IX	Total SPL, dB(A)	61	61	72.	72.	74	74	75	75	75	72.	71	68	68	68	68	68	68	68	68	64	64	0	0
	Exceedance																						Ü	_

NSR:	PAV											SPL	(dB	(A))										
							2014)15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
	Site Preparation and Utility Diversion	63	63																					
1.2	Shifting of WKH and Lin Cheung Road			67	67																			
1.3	Pilling			68	68	68	68	68	68	68	68													
1.4	Pile Caps			71	71	71	71	71	71	71	71													
1.5	Piers							68	68	68	68	68												
1.6	Bridge Decks											70	70	70	70	70	70	70	70	70				
1.7	Excavation for Retaining Walls					69	69	69	69	69														
1.8	Construction of Retaning Walls					69	69	69	69	69														
1.9	Backfilling Retaining Walls					66	66	66	66	66														
1.10	Road Works																				66	66		
Schem	e H(B) - Widening of Elevated Nga Cheung Road																							
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
Schem	e I - U turn to West Harbour Crossing																							
3.1	Site Preparation and Utility Diversion																							
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																							
	Pilling																							
3.4	Pile Caps																							
3.5	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																							
Schem	e J - Lin Cheung Road to Nga Cheung Road																							
4.1	Site Preparation and Utility Diversion																							
4.2	Modification of Lin Cheung Road Slip Roads																							
	U Structures																						\Box	
4.4	Road Works																						\Box	
Schem	e Q and Improvement Works at the Junction of CR/FS/JR																							
5.1	Road Surface Removal																							
5.2	Road Surface Cleaning																						\Box	
5.3	Road Surface Paving																							
	Road Surface Compaction																							
	Total SPL, dB(A)	63	63	74	74	76	76	77	77	77	74	72	70	70	70	70	70	70	70	70	66	66	0	0
	Exceedance				-	1	1		2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NSR:	CG											SPL	(dB	(A))										
							2014												15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
	Site Preparation and Utility Diversion	61	61																					
	Shifting of WKH and Lin Cheung Road			65	65																			
	Pilling			66	66	66	66	66	66	66														
1.4	Pile Caps			69	69	69	69	69	69	69	69													
1.5	Piers							66	66	66	66	66												
1.6	Bridge Decks											68	68	68	68	68	68	68	68	68				
1.7	Excavation for Retaining Walls					67	67	67	67	67														
	Construction of Retaning Walls					67	67	67	67	67														
	Backfilling Retaining Walls					64	64	64	64	64														
	Road Works																				64	64		
	e H(B) - Widening of Elevated Nga Cheung Road																							
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
Schem	e I - U turn to West Harbour Crossing																							
3.1	Site Preparation and Utility Diversion																							
	Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3	Pilling																							
3.4	Pile Caps																							
3.5	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																							
Schem	e J - Lin Cheung Road to Nga Cheung Road																							
	Site Preparation and Utility Diversion	63	63	63																		П		
4.2	Modification of Lin Cheung Road Slip Roads				65	65	65	65																
	U Structures								68	68	68	68	68	68	68	68	68	68	68	68			\Box	
4.4	Road Works																				64	64		
Schem	e Q and Improvement Works at the Junction of CR/FS/JR																							
	Road Surface Removal																						\Box	
	Road Surface Cleaning																					一		
	Road Surface Paving																							
	Road Surface Compaction																							
	Total SPL, dB(A)	65	65	72	72	74	74	75	75	75	73	72	71	71	71	71	71	71	71	71	67	67	0	0
	Exceedance					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

NSR:	LKPC											SPL	(dB	(A))										
							2014)15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
1.1	Site Preparation and Utility Diversion	59	59																					
1.2	Shifting of WKH and Lin Cheung Road			63	63																			
1.3	Pilling			64	64	64	64	64	64	64	64													
1.4	Pile Caps			67	67	67	67	67	67	67	67													
1.5	Piers							64	64	64	64	64												
1.6	Bridge Decks											66	66	66	66	66	66	66	66	66				
1.7	Excavation for Retaining Walls					65	65	65	65	65														
1.8	Construction of Retaning Walls					65	65	65	65	65													\Box	
1.9	Backfilling Retaining Walls					62	62	62	62	62													\Box	
1.10	Road Works																				62	62		
Schem	e H(B) - Widening of Elevated Nga Cheung Road					•	•	•							•				•					
2.1	Site Preparation and Utility Diversion																						П	
2.2	Pilling																							
	Pile Caps																							
	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																						\Box	
Schem	e I - U turn to West Harbour Crossing					•	•	•							•				•					
3.1	Site Preparation and Utility Diversion																						П	
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																						\Box	
	Pilling																						\Box	
3.4	Pile Caps																						\Box	
	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																						\Box	
Schem	e J - Lin Cheung Road to Nga Cheung Road					•	•	•							•				•					
4.1	Site Preparation and Utility Diversion	63	63	63																			П	
4.2	Modification of Lin Cheung Road Slip Roads				65	65	65	65																
	U Structures								68	68	68	68	68	68	68	68	68	68	68	68			\Box	
4.4	Road Works																				64	64		
Schem	e Q and Improvement Works at the Junction of CR/FS/JR																							
5.1	Road Surface Removal																							
5.2	Road Surface Cleaning																							
5.3	Road Surface Paving																							
	Road Surface Compaction																							
-	Total SPL, dB(A)	64	64	70	71	72	72	73	74	74	72	71	70	70	70	70	70	70	70	70	66	66	0	0
	Exceedance	-	-	-	1	2		3	4	4		1	-	-	-	-	-	-	-	-	-	-	-	-

NSR:	YCS											SPL	(dB	(A))										
							2014)15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
1.1	Site Preparation and Utility Diversion	58	58																1					
1.2	Shifting of WKH and Lin Cheung Road			62	62																			
1.3	Pilling			63	63	63	63	63	63	63	63								1					
1.4	Pile Caps			66	66	66	66	66	66	66	66													
1.5	Piers							63	63	63	63	63							1					
1.6	Bridge Decks											65	65	65	65	65	65	65	65	65				
1.7	Excavation for Retaining Walls					64	64	64	64	64														
1.8	Construction of Retaning Walls					64	64	64	64	64														
1.9	Backfilling Retaining Walls					61	61	61	61	61														
1.10	Road Works																				61	61		
Schem	ne H(B) - Widening of Elevated Nga Cheung Road																							
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
Schem	e I - U turn to West Harbour Crossing																							
3.1	Site Preparation and Utility Diversion																							
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3	Pilling																							
3.4	Pile Caps																							
3.5	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																							
Schem	e J - Lin Cheung Road to Nga Cheung Road																							
4.1	Site Preparation and Utility Diversion	62	62	62																				
4.2	Modification of Lin Cheung Road Slip Roads				64	64	64	64																
4.3	U Structures								67	67	67	67	67	67	67	67	67	67	67	67				
4.4	Road Works																				63	63	一	
Schem	e Q and Improvement Works at the Junction of CR/FS/JR																							
5.1	Road Surface Removal																							
5.2	Road Surface Cleaning																						一	
5.3	Road Surface Paving																							
	Road Surface Compaction																							
	Total SPL, dB(A)	64	64	69	70	71	71	72	73	73	71	70	69	69	69	69	69	69	69	69	65	65	0	0
	Exceedance	-	-	-	-	1	1	2	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-

SPL (dB(A)) SPL (dB(A)) Stage SPL (dB(A)) Stage Stage SPL (dB(A)) SPL	Oct Nov D
Scheme H(A) - Hoi Po Road to West Kowloon Highway 1.1 Site Preparation and Utility Diversion	oct Nov D
1.1 Site Preparation and Utility Diversion <t< td=""><td></td></t<>	
1.2 Shifting of WKH and Lin Cheung Road	
1.3 Pilling	
1.4 Pile Caps	
1.5 Piers	
1.6 Bridge Decks	
1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls	
1.8 Construction of Retaning Walls	
1.9 Backfilling Retaining Walls	
1.10 Road Works	
Scheme H(B) - Widening of Elevated Nga Cheung Road	
2.1 Site Preparation and Utility Diversion 72 72 72	
2.2 Pilling 75 75 75 75 75 75 75 75 75 75	
2.3 Pile Caps 78 78 78 78 78 78 78 78 78 78 78 78 78	
2.4 Piers 75 75 75 75 75 75 75 75 75	
2.5 Bridge Decks 75 75 75 75 75 75 75 75 75 75 75 75 75	'5
2.6 Road Works 73 7	'3
Scheme I - U turn to West Harbour Crossing	
3.1 Site Preparation and Utility Diversion 65 65 65	
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 67 67 67	
3.3 Pilling 68 68 68 68 68 68 68 68 68 68 68 68 68	
3.4 Pile Caps 70 70 70 70 70 70 70 70 70 70 70 70 70	
3.5 Piers 68 68 68 68 68 68 68 68 68 68 68 68 68	
3.6 Bridge Decks 68 68 68 68 68 68 68 68 68 68 68 68 68	58
3.7 Road Works 66 6	66
Scheme J - Lin Cheung Road to Nga Cheung Road	
4.1 Site Preparation and Utility Diversion	
4.2 Modification of Lin Cheung Road Slip Roads	
4.3 U Structures	
4.4 Road Works	
Scheme Q and Improvement Works at the Junction of CR/FS/JR	
5.1 Road Surface Removal	
5.2 Road Surface Cleaning	
5.3 Road Surface Paving	
5.4 Road Surface Compaction	
	'8 O (
Exceedance 5 5 5 6 6 6 6 6 6 6 1 1 1 1 1 3	

STATE Stage Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr
Scheme H(A) - Hoi Po Road to West Kowloon Highway
1.1 Site Preparation and Utility Diversion
1.2 Shifting of WKH and Lin Cheung Road
1.3 Pilling
1.4 Pile Caps Image: Caps of the
1.5 Piers 1.6 Bridge Decks 1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Road Works 1.10 Road Works 2.1 Site Preparation and Utility Diversion 69 69 69 69 69 69 69 69 69 69 69 69 69 6
1.6 Bridge Decks
1.7 Excavation for Retaining Walls
1.8 Construction of Retaning Walls Image: Construction of Retaning Walls Imag
1.9 Backfilling Retaining Walls Image: Backfilling Walls Image: Backfilling Retaining Walls Image: Backfilling Walls Image: B
1.10 Road Works Image: Control of the control of t
Scheme H(B) - Widening of Elevated Nga Cheung Road 2.1 Site Preparation and Utility Diversion 69 72
2.1 Site Preparation and Utility Diversion 69 72
2.2 Pilling 72
2.3 Pile Caps 75 75 75 75 75 75 75 75 75 75 75 75 75 7
2.4 Piers 72 72 72 72 72 72 72 72 72 72 72 72 72 7
2.5 Bridge Decks 2.6 Road Works
2.6 Road Works 70 70
Sahama I. U tum to West Hankoun Crossing
Scheme 1 - O turn to west narrour Crossing
3.1 Site Preparation and Utility Diversion 71 71 71
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 73 73 73
3.3 Pilling 74 74 74 74 74 74 74 74 74 74 74 74 74
3.4 Pile Caps 76 76 76 76 76 76 76 76 76 76 76 76 76
3.5 Piers 74 74 74 74 74 74 74 74 74 74 98 98 98 98 98 98 98 98 98 98 98 98 98
3.6 Bridge Decks 74 74 74 74 74 74 74 74 74 74 74 74 74
3.7 Road Works 72 72
Scheme J - Lin Cheung Road to Nga Cheung Road
4.1 Site Preparation and Utility Diversion
4.2 Modification of Lin Cheung Road Slip Roads
4.3 U Structures
4.4 Road Works
Scheme Q and Improvement Works at the Junction of CR/FS/JR
5.1 Road Surface Removal
5.2 Road Surface Cleaning
5.3 Road Surface Paving
5.4 Road Surface Compaction
Total SPL, dB(A) 76 76 76 80 80 80 82 82 82 82 82 82 76 76 76 76 76 78 78 0 0
Exceedance 1 1 1 5 5 5 7 7 7 7 7 7 1 1 1 1 1 3 3 -

NSR: ASD1											SPL	(dB((A))										
						2014												15					
Stage	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Scheme H(A) - Hoi Po Road to West Kowloon Highway																							
1.1 Site Preparation and Utility Diversion																							
1.2 Shifting of WKH and Lin Cheung Road																							
1.3 Pilling																							
1.4 Pile Caps																							
1.5 Piers																							
1.6 Bridge Decks																							
1.7 Excavation for Retaining Walls																							
1.8 Construction of Retaning Walls																							
1.9 Backfilling Retaining Walls																							
1.10 Road Works																							
Scheme H(B) - Widening of Elevated Nga Cheung Road																							
2.1 Site Preparation and Utility Diversion																							
2.2 Pilling																							
2.3 Pile Caps																							
2.4 Piers																							
2.5 Bridge Decks																							
2.6 Road Works																							
Scheme I - U turn to West Harbour Crossing																							
3.1 Site Preparation and Utility Diversion																							
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3 Pilling																							
3.4 Pile Caps																							
3.5 Piers																							
3.6 Bridge Decks																							
3.7 Road Works																							
Scheme J - Lin Cheung Road to Nga Cheung Road																							
4.1 Site Preparation and Utility Diversion																							
4.2 Modification of Lin Cheung Road Slip Roads																							
4.3 U Structures																							
4.4 Road Works																							
Scheme Q and Improvement Works at the Junction of CR/FS/JR												•	•	•		•							
5.1 Road Surface Removal	80	80	80	80	80	80																	
5.2 Road Surface Cleaning	T						75	75	75	75	75	75	75	75	75	75						Î	
5.3 Road Surface Paving	T																77	77	77	77	77	77	77
5.4 Road Surface Compaction	T																76	76	76	76	76	76	76
Total SPL, dB(A	80	80	80	80	80	80	75	75	75	75	75	75	75	75	75	75	80	80	80	80	80	80	80
Exceedance							-		-	-	-	-	-	-	-	-	5	5	5	5	5	5	5
Domarks																							

NSR: ASD2											SPL	(dB((A))										
						2014)15					
Stage	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Scheme H(A) - Hoi Po Road to West Kowloon Highway																							
1.1 Site Preparation and Utility Diversion																							
1.2 Shifting of WKH and Lin Cheung Road																							
1.3 Pilling																							
1.4 Pile Caps																							
1.5 Piers																							
1.6 Bridge Decks																							
1.7 Excavation for Retaining Walls																							
1.8 Construction of Retaning Walls																							
1.9 Backfilling Retaining Walls																							
1.10 Road Works																							
Scheme H(B) - Widening of Elevated Nga Cheung Road																							
2.1 Site Preparation and Utility Diversion																							
2.2 Pilling																							
2.3 Pile Caps																							
2.4 Piers																							
2.5 Bridge Decks																							
2.6 Road Works																							
Scheme I - U turn to West Harbour Crossing																							
3.1 Site Preparation and Utility Diversion																							
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3 Pilling																							
3.4 Pile Caps																							
3.5 Piers																							
3.6 Bridge Decks																							
3.7 Road Works																							
Scheme J - Lin Cheung Road to Nga Cheung Road																							
4.1 Site Preparation and Utility Diversion																							
4.2 Modification of Lin Cheung Road Slip Roads																							
4.3 U Structures																							
4.4 Road Works																							
Scheme Q and Improvement Works at the Junction of CR/FS/JR																							
5.1 Road Surface Removal	84	84	84	84	84	84																\Box	
5.2 Road Surface Cleaning							80	80	80	80	80	80	80	80	80	80							
5.3 Road Surface Paving																	82	82		82			82
5.4 Road Surface Compaction																	81	81	81	81	81	81	81
Total SPL, dB(A)	84	84	84	84	84	84	80	80	80	80	80	80	80	80	80	80	84	84	84	84	84	84	84
Exceedance	9	9	9	9	9	9	5	5	5	5	5	5	5	5	5	5	9	9	9	9	9	9	9

NSR : FSDO											SPL	(dB	(A))										
						2014												15					
Stage	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Scheme H(A) - Hoi Po Road to West Kowloon Highway																							
1.1 Site Preparation and Utility Diversion																							
1.2 Shifting of WKH and Lin Cheung Road																						i	
1.3 Pilling																							
1.4 Pile Caps																						ı	
1.5 Piers																						i	
1.6 Bridge Decks																							
1.7 Excavation for Retaining Walls																						ī	
1.8 Construction of Retaning Walls																						ī	
1.9 Backfilling Retaining Walls																						i	
1.10 Road Works																						ī	
Scheme H(B) - Widening of Elevated Nga Cheung Road																							
2.1 Site Preparation and Utility Diversion																						i	
2.2 Pilling																						iΠ	
2.3 Pile Caps																						ΠĪ	
2.4 Piers																							
2.5 Bridge Decks																							
2.6 Road Works																							
Scheme I - U turn to West Harbour Crossing																							
3.1 Site Preparation and Utility Diversion																							
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3 Pilling																						\Box	
3.4 Pile Caps																						i T	
3.5 Piers																					\Box	iπt	
3.6 Bridge Decks																						i T	
3.7 Road Works																						iπt	
Scheme J - Lin Cheung Road to Nga Cheung Road																							
4.1 Site Preparation and Utility Diversion																						П	
4.2 Modification of Lin Cheung Road Slip Roads																					\Box	iπt	
4.3 U Structures	l																						
4.4 Road Works	t																						
Scheme Q and Improvement Works at the Junction of CR/FS/JR																							
5.1 Road Surface Removal	72	72	72	72	72	72																П	
5.2 Road Surface Cleaning							67	67	67	67	67	67	67	67	67	67					\Box		
5.3 Road Surface Paving																	69	69	69	69	69	69	69
5.4 Road Surface Compaction	l																68	68	68	68	68	68	68
Total SPL, dB(A)	72	72	72	72	72	72	67	67	67	67	67	67	67	67	67	67				72	72	72	72
Exceedance													_	_	_	-	-	-	_	_	_	_	_

Stage Scheme H(A) - Hoi Po Road to West Kowloon Highway Scheme H(A) - Hoi Po Road to West Kowloon Highway
Scheme H(A) - Hoi Po Road to West Kowloon Highway
Scheme H(A) - Hoi Po Road to West Kowloon Highway
1.2 Shifting of WKH and Lin Cheung Road
1.3 Pilling
1.4 Pile Caps 1.5 Piers 1.5 Piers 1.6 Bridge Decks 1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Road Works 1.10 Road Works Scheme H(B) - Widening of Elevated Nga Cheung Road 2.1 Site Preparation and Utility Diversion 1.10 Road Works 2.2 Pilling 1.10 Road Works 2.3 Pile Caps 1.10 Road Works 2.4 Piers 1.10 Road Works 2.5 Bridge Decks 1.10 Road Works
1.5 Piers 1.6 Bridge Decks 1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Road Works 1.10 Site Preparation and Utility Diversion 2.1 Site Preparation and Utility Diversion 1.10 Caps 2.3 Pile Caps 1.10 Caps 2.4 Piers 1.10 Caps 2.5 Bridge Decks 1.10 Caps
1.6 Bridge Decks
1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Road Works 1.10 Road Works Scheme H(B) - Widening of Elevated Nga Cheung Road 1.10 Road Works 2.1 Site Preparation and Utility Diversion 1.10 Road Works 2.2 Pilling 1.10 Road Works 2.3 Pile Caps 1.10 Road Works 2.4 Piers 1.10 Road Works 2.5 Bridge Decks 1.10 Road Works
1.8 Construction of Retaning Walls 1.9 Backfilling Retaining Walls 1.0 Road Works 1.10 Road Works 1.10 Road Works Scheme H(B) - Widening of Elevated Nga Cheung Road 1.10 Road Works 2.1 Site Preparation and Utility Diversion 1.10 Road Works 2.2 Pilling 1.10 Road Works 2.3 Pile Caps 1.10 Road Works 2.4 Piers 1.10 Road Works 2.5 Bridge Decks 1.10 Road Works
1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Road Works 1.10 Road Works Scheme H(B) - Widening of Elevated Nga Cheung Road 2.1 Site Preparation and Utility Diversion 1.10 Road Works 2.2 Pilling 1.10 Road Works 2.3 Pile Caps 1.10 Road Works 2.4 Piers 1.10 Road Works 2.5 Bridge Decks 1.10 Road Works
1.10 Road Works
Scheme H(B) - Widening of Elevated Nga Cheung Road
2.1 Site Preparation and Utility Diversion
2.1 Site Preparation and Utility Diversion
2.3 Pile Caps 2.4 Piers 2.5 Bridge Decks
2.4 Piers 1 2.5 Bridge Decks 1
2.5 Bridge Decks
2.6 Pood Works
2.0
Scheme I - U turn to West Harbour Crossing
3.1 Site Preparation and Utility Diversion
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC
3.3 Pilling
3.4 Pile Caps
3.5 Piers
3.6 Bridge Decks
3.7 Road Works
Scheme J - Lin Cheung Road to Nga Cheung Road
4.1 Site Preparation and Utility Diversion
4.2 Modification of Lin Cheung Road Slip Roads
4.3 U Structures
4.4 Road Works
Scheme Q and Improvement Works at the Junction of CR/FS/JR
5.1 Road Surface Removal 79 79 79 79 79 79 79
5.2 Road Surface Cleaning 74 74 74 74 74 74 74 74 74 74 74 74 74
5.3 Road Surface Paving 76 76 76 76 76 76 76
5.4 Road Surface Compaction 75 75 75 75 75 75 75
Total SPL, dB(A) 79 79 79 79 79 79 74 74 74 74 74 74 74 74 74 77 79 79 79 79 79 79 79
Exceedance 4 4 4 4 4 4 4 4 4 4 4 4

Stage Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec San Apr May Jun Jul Aug Sep Oct Nov Dec San Apr May Jun Jul Aug Sep Oct Nov Dec San Apr May Jun Jul Aug Sep Oct Nov Dec San Apr May Jun Jul Aug Sep Oct Nov Dec San Apr Apr May Jun Jul Aug Sep Oct Nov Dec San Apr Apr May Jun Jul Aug Sep Oct Nov Dec San Apr Apr May Jun Jul Aug Sep Oct Nov Dec San Apr Apr May Jun Jul Aug Sep Oct Nov Dec San Apr Ap
Scheme H(A) - Hoi Po Road to West Kowloon Highway
1.1 Site Preparation and Utility Diversion
1.2 Shifting of WKH and Lin Cheung Road
1.3 Pilling
1.4 Pile Caps
1.5 Piers
1.6 Bridge Decks
1.7 Excavation for Retaining Walls
1.8 Construction of Retaning Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Ro
1.9 Backfilling Retaining Walls
1.10 Road Works Scheme H(B) - Widening of Elevated Nga Cheung Road
Scheme H(B) - Widening of Elevated Nga Cheung Road
2.1 Site Preparation and Utility Diversion 2.2 Pilling 2.3 Pile Caps 3 Pile Caps 2.4 Piers 3 Pinde Decks 2.5 Bridge Decks 3 Pinde Decks 2.6 Road Works 3 Pinde Preparation and Utility Diversion 3.1 Site Preparation and Utility Diversion 3 Pilling 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3 Pile Caps 3.4 Pile Caps 3 Piers 3.5 Piers 3 Piers 3.6 Bridge Decks 3 Pidge Decks
2.2 Pilling
2.3 Pile Caps
2.3 Pile Caps
2.5 Bridge Decks 2.6 Road Works Scheme I - U turn to West Harbour Crossing 3.1 Site Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers 3.6 Bridge Decks
2.6 Road Works
Scheme I - U turn to West Harbour Crossing
3.1 Site Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers 3.6 Bridge Decks
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers 3.6 Bridge Decks
3.3 Pilling 3.4 Pile Caps 3.5 Piers 3.5 Piers 3.6 Bridge Decks 3.6 Bridge Decks
3.4 Pile Caps 3.5 Piers 3.6 Bridge Decks
3.5 Piers Bridge Decks
3.5 Piers Bridge Decks
3.7 Road Works
Scheme J - Lin Cheung Road to Nga Cheung Road
4.1 Site Preparation and Utility Diversion
4.2 Modification of Lin Cheung Road Slip Roads
4.3 U Structures
4.4 Road Works
Scheme Q and Improvement Works at the Junction of CR/FS/JR
5.1 Road Surface Removal 71 71 71 71 71 71 71 71 71 71
5.2 Road Surface Cleaning 66 66 66 66 66 66 66 66 66 66 66
5.3 Road Surface Paving 68 68 68 68 68 68 68 68 68 68 68 68 68
5.4 Road Surface Compaction 67 67 67 67 67 67 67 67 67 67 67 67 67
Total SPL, dB(A) 71 71 71 71 71 71 66 66 66 66 66 66 66 66 66 66 71 71 71 71 71 71 71
Exceedance 1 1 1 1 1 1 1 1 1 1 1 1

NSR:	VT											SPL	dB) ر	(A))										
							2014												15					
Stage		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	e H(A) - Hoi Po Road to West Kowloon Highway																							
	Site Preparation and Utility Diversion																							
1.2	Shifting of WKH and Lin Cheung Road																							
	Pilling																							
1.4	Pile Caps																							
1.5	Piers																							
1.6	Bridge Decks																							
1.7	Excavation for Retaining Walls																							
1.8	Construction of Retaning Walls																							
1.9	Backfilling Retaining Walls																							
1.10	Road Works																							
Schem	e H(B) - Widening of Elevated Nga Cheung Road																							
2.1	Site Preparation and Utility Diversion																							
	Pilling																					\Box		
2.3	Pile Caps																					\Box		
2.4	Piers																					\Box		
2.5	Bridge Decks																							
	Road Works																							
	e I - U turn to West Harbour Crossing																							
3.1	Site Preparation and Utility Diversion																					П		
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																					\Box		
	Pilling																							
3.4	Pile Caps																							
	Piers																							
3.6	Bridge Decks																							
	Road Works																							
	e J - Lin Cheung Road to Nga Cheung Road																							
	Site Preparation and Utility Diversion																				T	\Box	\Box	\neg
	Modification of Lin Cheung Road Slip Roads																							
	U Structures																							
	Road Works																							\neg
	e Q and Improvement Works at the Junction of CR/FS/JR																							
	Road Surface Removal	71	71	71	71	71	71				Ī										Ī	\neg		
	Road Surface Cleaning							66	66	66	66	66	66	66	66	66	66				<u> </u>	\neg	\dashv	\neg
	Road Surface Paving																	68	68	68	68	68	68	68
	Road Surface Compaction																	67	67	67	67	67		67
	Total SPL, dB(A)	71	71	71	71	71	71	66	66	66	66	66	66	66	66	66	66			71	71	71	71	71
	Exceedance														_	_	_	_	_	_	_	_	_	_

NSR: GB											SPL	dB)	(A))										
						2014												15					
Stage	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Scheme H(A) - Hoi Po Road to West Kowloon Highway																							
1.1 Site Preparation and Utility Diversion																							
1.2 Shifting of WKH and Lin Cheung Road																							
1.3 Pilling																							
1.4 Pile Caps																							
1.5 Piers																							
1.6 Bridge Decks																							
1.7 Excavation for Retaining Walls																							
1.8 Construction of Retaning Walls																							
1.9 Backfilling Retaining Walls																							
1.10 Road Works																							
Scheme H(B) - Widening of Elevated Nga Cheung Road			•																				
2.1 Site Preparation and Utility Diversion																							
2.2 Pilling																							
2.3 Pile Caps																							
2.4 Piers																							
2.5 Bridge Decks																							
2.6 Road Works																							
Scheme I - U turn to West Harbour Crossing																							
3.1 Site Preparation and Utility Diversion																							\Box
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3 Pilling																							
3.4 Pile Caps																							
3.5 Piers																							
3.6 Bridge Decks																							
3.7 Road Works																							
Scheme J - Lin Cheung Road to Nga Cheung Road																							
4.1 Site Preparation and Utility Diversion																						П	\neg
4.2 Modification of Lin Cheung Road Slip Roads	\Box																						
4.3 U Structures	\vdash																					\Box	-
4.4 Road Works																						\Box	\neg
Scheme Q and Improvement Works at the Junction of CR/FS/JR																							
5.1 Road Surface Removal	74	74	74	74	74	74																	
5.2 Road Surface Cleaning				•			69	69	69	69	69	69	69	69	69	69						\Box	\dashv
5.3 Road Surface Paving	\vdash						0,	0,	-07	0,	0,	0,			-07	-07	71	71	71	71	71	71	71
5.4 Road Surface Compaction	\vdash																70	70	70	70	70	70	70
Total SPL, dB(A)	74	74	74	74	74	74	69	69	69	69	69	69	69	69	69	69	74		74	74	74	74	74
Exceedance										-		-	-	-	-	-	-	-	-	-	-	-	-

SPL (BKA) SPL
Scheme H(A) - Hoi Po Road to West Kowloon Highway
1.1 Site Preparation and Utility Diversion
1.2 Shifting of WKH and Lin Cheung Road
1.3 Pilling
1.4 Pile Caps
1.5 Piers
1.6 Bridge Decks 1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 R
1.7 Excavation for Retaining Walls 1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 Ro
1.8 Construction of Retaining Walls 1.9 Backfilling Retaining Walls 1.10 Road Works 1.10 R
1.9 Backfilling Retaining Walls
1.10 Road Works
Scheme H(B) - Widening of Elevated Nga Cheung Road
2.1 Site Preparation and Utility Diversion 2.2 Pilling 2.3 Pile Caps 2.4 Piers 2.5 Bridge Decks 2.6 Road Works Scheme I - U turn to West Harbour Crossing 3.1 Site Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers
2.2 Pilling 1 1 1 1 1 1 2 2.3 Pile Caps 1 1 1 1 2 2 2.4 Piers 1 1 2 2 2.5 Bridge Decks 1 1 2 2 2 3.1 Side Decks 1 1 3.1 Side Preparation and Utility Diversion 1 3.1 Side Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers 3.7 Piers <
2.3 Pile Caps 1 <
2.4 Piers
2.4 Piers
2.6 Road Works
Scheme I - U turn to West Harbour Crossing 3.1 Site Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers
3.1 Site Preparation and Utility Diversion 3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers
3.2 Shifting the Approach Roads and Close the Fast Lane of WHC 3.3 Pilling 3.4 Pile Caps 3.5 Piers
3.3 Pilling 3.4 Pile Caps 3.5 Piers
3.4 Pile Caps 3.5 Piers
3.5 Piers
3.6 Bridge Decks
J.0 Dridge Decks
3.7 Road Works
Scheme J - Lin Cheung Road to Nga Cheung Road
4.1 Site Preparation and Utility Diversion
4.2 Modification of Lin Cheung Road Slip Roads
4.3 U Structures
4.4 Road Works
Scheme Q and Improvement Works at the Junction of CR/FS/JR
5.1 Road Surface Removal 82 82 82 82 82 82 82 82 82 82 82 82 82
5.2 Road Surface Cleaning 77 77 77 77 77 77 77 77 77 77 77 77 77
5.3 Road Surface Paving 79 79 79 79 79 79 79 79 79 79 79 79 79
5.4 Road Surface Compaction 78 78 78 78 78 78 78 78 78
Total SPL, dB(A) 82 82 82 82 82 82 77 77 77 77 77 77 77 77 77 77 82 82 82 82 82 82 82 82 82 82 82 82 82
Exceedance 7 7 7 7 7 7 2 2 2 2 2 2 2 2 2 2 7 7 7 7 7 7 7

Appendix 4.2E

Summary of Unmitigated Construction Noise Level of the Project

Appendix 4.2E - Unmitigated Construction Noise Level from the Project

													SPI	L (dB(A))										
								2014											20	15					
NSR	Noise Criteria, dB(A)	Max	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IHV	75	76	62	62	73	73	75	75	76	76	76	73	72	69	69	69	69	69	69	69	69	65	65	0	0
FR	75	75	61	61	72	72	74	74	75	75	75	72	71	68	68	68	68	68	68	68	68	64	64	0	0
PAV	75	77	63	63	74	74	76	76	77	77	77	74	72	70	70	70	70	70	70	70	70	66	66	0	0
CG	75	75	65	65	72	72	74	74	75	75	75	73	72	71	71	71	71	71	71	71	71	67	67	0	0
LKPC	70	74	64	64	70	71	72	72	73	74	74	72	71	70	70	70	70	70	70	70	70	66	66	0	0
YCS	70	73	64	64	69	70	71	71	72	73	73	71	70	69	69	69	69	69	69	69	69	65	65	0	0
SRT	75	81	74	74	74	80	80	80	81	81	81	81	81	81	81	76	76	76	76	76	76	78	78	0	0
CLS	75	82	76	76	76	80	80	80	82	82	82	82	82	82	82	76	76	76	76	76	76	78	78	0	0
ASD1	75	80	80	80	80	80	80	80	75	75	75	75	75	75	75	75	75	75	80	80	80	80	80	80	80
ASD2	75	84	84	84	84	84	84	84	80	80	80	80	80	80	80	80	80	80	84	84	84	84	84	84	84
FSDO	75	72	72	72	72	72	72	72	67	67	67	67	67	67	67	67	67	67	72	72	72	72	72	72	72
ASC	75	79	79	79	79	79	79	79	74	74	74	74	74	74	74	74	74	74	79	79	79	79	79	79	79
LCMS	70	71	71	71	71	71	71	71	66	66	66	66	66	66	66	66	66	66	71	71	71	71	71	71	71
VT	75	71	71	71	71	71	71	71	66	66	66	66	66	66	66	66	66	66	71	71	71	71	71	71	71
GB	75	74	74	74	74	74	74	74	69	69	69	69	69	69	69	69	69	69	74	74	74	74	74	74	74
YTB	75	82	82	82	82	82	82	82	77	77	77	77	77	77	77	77	77	77	82	82	82	82	82	82	82