

Item	PME	TM or other reference	SWL _i dB(A)	% on time	Total no. of PME
BCP Site Formation					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Total SWL, dB (A)				121
Group 2					
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	4
	Total SWL, dB (A)				117
Group 3					
	Bulldozer	CNP 030	115	70%	1
	Lorry with crane/grab	CNP 145	105	70%	1
	Dump truck	CNP 067	117	70%	3
	Total SWL, dB (A)				121
	Maximum SWL, dB (A)				121
Stage 2 - Site Formation Works					
Group 1					
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				116
Group 2					
	Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	80%	1
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	1
	Total SWL, dB (A)				112
Group 3					
	Bulldozer	CNP 030	115	70%	1
	Compactor, vibratory	CNP 050	105	70%	1
	Dump truck	CNP 067	117	70%	4
	Total SWL, dB (A)				122
	Maximum SWL, dB (A)				122
Stage 3 - Building Formation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	50%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Piling, large diameter bored, grab and chisel	CNP 164	115	100%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	70%	1
	Water pump (electric)	CNP 281	88	80%	4
	Total SWL, dB (A)				115
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	70%	4
	Poker, vibratory, hand-held	CNP 170	113	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	50%	2
	Water pump (electric)	CNP 281	88	80%	4
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				120
	Maximum SWL, dB (A)				120
Stage 4 - Building Structures					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	70%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	70%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				119

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
BCP Site Formation					
Stage 5 - Building E&M System					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	30%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4
Total SWL, dB (A)					116
Stage 6 - Cross Boundary Bridges - Substructures					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	50%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	2
	Dump truck	CNP 067	117	70%	3
Total SWL, dB (A)					123
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Piling, large diameter bored, grab and chisel	CNP 164	115	100%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	70%	1
	Water pump (electric)	CNP 281	88	80%	4
Total SWL, dB (A)					115
Group 3					
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	70%	4
	Poker, vibratory, hand-held	CNP 170	113	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	50%	2
	Water pump (electric)	CNP 281	88	80%	4
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
Total SWL, dB (A)					120
Maximum SWL, dB (A)					123
Stage 7 - Cross Boundary Bridges - Bridges Deck					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	70%	6
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	2
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					119
Stage 8 - Cross Boundary Bridges - Road Works & Facilities					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Dump truck	CNP 067	117	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					117
Group 2					
	Roller, vibratory	CNP 186	108	30%	1
	Asphalt paver	CNP 004	109	40%	1
	Concrete lorry mixer	CNP 044	109	30%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	40%	3
	Bar bender and cutter (electric)	CNP 021	90	20%	1
Total SWL, dB (A)					109
Maximum SWL, dB (A)					117
Stage 9 - Cross Boundary Bridges - E&M System					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Lorry with crane/grab	CNP 145	105	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	5
Total SWL, dB (A)					112

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
BCP Site Formation					
Stage 10 - General Civil Works and Utilities					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Compactor, vibratory	CNP 050	105	70%	1
	Dump truck	CNP 067	117	70%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					119
Group 2					
	Concrete lorry mixer	CNP 044	109	75%	2
	Poker, vibratory, hand-held	CNP 170	113	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Bar bender and cutter (electric)	CNP 021	90	90%	1
	Lorry with crane/grab	CNP 145	105	50%	1
Total SWL, dB (A)					116
Group 3					
	Roller, vibratory	CNP 186	108	30%	1
	Dump truck	CNP 067	117	50%	2
	Asphalt paver	CNP 004	109	40%	1
	Concrete lorry mixer	CNP 044	109	30%	1
Total SWL, dB (A)					118
Maximum SWL, dB (A)					119
Stage 11 - Road Works					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Dump truck	CNP 067	117	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					117
Group 2					
	Roller, vibratory	CNP 186	108	30%	1
	Asphalt paver	CNP 004	109	40%	1
	Concrete lorry mixer	CNP 044	109	30%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					109
Maximum SWL, dB (A)					117
Stage 12 - Lighting/E&M/TCSS					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	30%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	5
Total SWL, dB (A)					116
Stage 13 Sewage Treatment Plant					
13a Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	50%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Piling, large diameter bored, grab and chisel	CNP 164	115	100%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	70%	1
	Water pump (electric)	CNP 281	88	80%	4
Total SWL, dB (A)					115
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	70%	4
	Poker, vibratory, hand-held	CNP 170	113	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Water pump (electric)	CNP 281	88	80%	4
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					119
Maximum SWL, dB (A)					119

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
BCP Site Formation					
13b Superstructures					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	70%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				117
13c Road Works /Pipe Works					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	1
	Compactor, vibratory	CNP 050	105	70%	1
	Dump truck	CNP 067	117	70%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				119
Group 2					
	Roller, vibratory	CNP 186	108	30%	1
	Dump truck	CNP 067	117	50%	2
	Asphalt paver	CNP 004	109	40%	1
	Concrete lorry mixer	CNP 044	109	30%	1
	Total SWL, dB (A)				118
	Maximum SWL, dB (A)				119

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Lin Ma Hang Road next to BCP (Grade Road)					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	1
	Dump truck	CNP 067	117	80%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					118
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					110
Maximum SWL, dB (A)					118
Stage 2 - Site Formation and Road Works					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Bulldozer	CNP 030	115	70%	1
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	1
Total SWL, dB (A)					115

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
	Chuk Yuen Village Access Road				
	Stage 1 - Site Clearance				
	Group 1				
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	1
	Dump truck	CNP 067	117	80%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
			Total SWL, dB (A)		118
	Group 2				
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
			Total SWL, dB (A)		110
			Maximum SWL, dB (A)		118
	Stage 2 - Road Works				
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	1
	Generator, standard	CNP 101	108	50%	1
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	1
			Total SWL, dB (A)		111

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Road improvement works of Lin Ma Hang Road					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	1
	Dump truck	CNP 067	117	80%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Total SWL, dB (A)				118
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
	Total SWL, dB (A)				110
	Maximum SWL, dB (A)				118
Stage 2 - Temporary Bridge - Piling					
Group 1					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	1
	Lorry	CNP 141	112	50%	2
	Total SWL, dB (A)				114
Group 2					
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	30%	2
	Piling, large diameter bored, oscillator	CNP 165	115	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Total SWL, dB (A)				117
Group 3					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1
	Concrete lorry mixer	CNP 044	109	20%	2
	Total SWL, dB (A)				115
	Maximum SWL, dB (A)				117
Stage 3 - Temporary Bridge - PileCaps					
Group 1					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	1
	Lorry	CNP 141	112	50%	2
	Total SWL, dB (A)				114
Group 2					
	Water pump (electric)	CNP 281	88	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Concrete lorry mixer	CNP 044	109	20%	2
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	1
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				116
Stage 4 - Temporary Bridge - Piers					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Concrete lorry mixer	CNP 044	109	20%	2
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	1
	Poker, vibratory, hand-held	CNP 170	113	20%	1
	Total SWL, dB (A)				113
Stage 5 - Temporary Bridge - Bridge Decks					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	1
	Lorry	CNP 141	112	70%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	1
	Prestress Jack*	CNP 261	110	20%	2
	Total SWL, dB (A)				114
Stage 6 - Road Works					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	1
	Total SWL, dB (A)				110
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity					

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Flyover from BCP to Wo Keng Shan						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	116
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	13	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	6	
	Lorry	CNP 141	112	30%	13	
					Total SWL, dB (A)	120
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	6	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	7	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	13	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	13	
					Total SWL, dB (A)	121
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	13	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	13	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	13	
	Poker, vibratory, hand-held	CNP 170	113	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	13	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	13	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	4	
	Lorry	CNP 141	112	50%	13	
					Total SWL, dB (A)	122
Group 2						
	Water pump (electric)	CNP 281	88	70%	13	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	13	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	13	
	Concrete lorry mixer	CNP 044	109	20%	13	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	13	
	Poker, vibratory, hand-held	CNP 170	113	20%	6	
					Total SWL, dB (A)	124
					Maximum SWL, dB (A)	124
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	13	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	13	
	Concrete lorry mixer	CNP 044	109	20%	13	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	6	
					Total SWL, dB (A)	120
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	4	
	Lorry	CNP 141	112	60%	8	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Prestress Jack*	CNP 261	110	20%	6	
					Total SWL, dB (A)	121
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Ping Yeung Interchange Section					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	60%	5
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					124
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					113
Maximum SWL, dB (A)					124
Stage 2 - Site Formation					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
Total SWL, dB (A)					119
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					124
Group 3					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	3
	Roller, vibratory	CNP 186	108	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
Total SWL, dB (A)					120
Maximum SWL, dB (A)					124
Stage 3 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
Total SWL, dB (A)					114
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
Total SWL, dB (A)					113
Maximum SWL, dB (A)					114

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Wo Keng Shan Road Section					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held breaker, 35kg	CNP D.2/10	110	70%	3
	Dump truck	CNP 067	117	60%	5
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					124
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					113
Maximum SWL, dB (A)					124
Stage 2 - Site Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
Total SWL, dB (A)					119
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					124
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	3
	Roller, vibratory	CNP 186	108	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
Total SWL, dB (A)					120
Maximum SWL, dB (A)					124
Stage 3 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
Total SWL, dB (A)					118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
Total SWL, dB (A)					110
Maximum SWL, dB (A)					118
Stage 4 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
Total SWL, dB (A)					114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
Total SWL, dB (A)					113
Maximum SWL, dB (A)					114

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Flyover Crossing Wo Keng Shan Road						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	116
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	4	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	50%	4	
	Piling, large diameter bored, oscillator	CNP 165	115	50%	4	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
					Total SWL, dB (A)	119
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	4	
					Total SWL, dB (A)	118
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	4	
					Total SWL, dB (A)	117
Group 2						
	Water pump (electric)	CNP 281	88	70%	4	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Concrete lorry mixer	CNP 044	109	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	120
					Maximum SWL, dB (A)	120
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Concrete lorry mixer	CNP 044	109	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	116
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	60%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	118
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Ng Chow Road Road Section					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	60%	5
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					124
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					113
Maximum SWL, dB (A)					124
Stage 2 - Site Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
Total SWL, dB (A)					119
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					124
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	3
	Roller, vibratory	CNP 186	108	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
Total SWL, dB (A)					120
Maximum SWL, dB (A)					124
Stage 3 - Slope Stabilisation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	20%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
Total SWL, dB (A)					121
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Drill rig, rotary type (diesel)	CNP 072	110	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					112
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Grout mixer	CNP 105	90	40%	1
	Grout pump	CNP 106	105	40%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	2
Total SWL, dB (A)					116
Maximum SWL, dB (A)					121
Stage 4 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
Total SWL, dB (A)					114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
Total SWL, dB (A)					113
Maximum SWL, dB (A)					114

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Flyover Crossing over Ng Chow Road						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	116
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	4	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	50%	4	
	Piling, large diameter bored, oscillator	CNP 165	115	50%	4	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
					Total SWL, dB (A)	119
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	4	
					Total SWL, dB (A)	118
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	4	
					Total SWL, dB (A)	117
Group 2						
	Water pump (electric)	CNP 281	88	70%	4	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Concrete lorry mixer	CNP 044	109	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	120
					Maximum SWL, dB (A)	120
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Concrete lorry mixer	CNP 044	109	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	116
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	60%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	118
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
North Portal of North Tunnel and Ventilation Building					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	60%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					123
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					113
Maximum SWL, dB (A)					123
Stage 2 - Portal Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
Total SWL, dB (A)					118
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	2
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	60%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					122
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	2
	Concrete lorry mixer	CNP 044	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	60%	3
	Roller, vibratory	CNP 186	108	60%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
Total SWL, dB (A)					119
Maximum SWL, dB (A)					122
Stage 3 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
Total SWL, dB (A)					118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
Total SWL, dB (A)					110
Maximum SWL, dB (A)					118

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
North Portal of North Tunnel and Ventilation Building					
Stage 4 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
Total SWL, dB (A)					114
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
Total SWL, dB (A)					113
Maximum SWL, dB (A)					114
Stage 5 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
Total SWL, dB (A)					116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					116
Maximum SWL, dB (A)					118
Stage 6 - Building Structures					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					117

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
South Portal of North Tunnel and Ventilation Building					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	60%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
Total SWL, dB (A)					123
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	4
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					113
Maximum SWL, dB (A)					123
Stage 2 - Portal Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	3
Total SWL, dB (A)					117
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
Total SWL, dB (A)					123
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	2
	Compactor, vibratory	CNP 050	105	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
Total SWL, dB (A)					120
Maximum SWL, dB (A)					123
Stage 3 - Slope Stabilisation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	20%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
Total SWL, dB (A)					121
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Drill rig, rotary type (diesel)	CNP 072	110	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					114
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Grout mixer	CNP 105	90	60%	1
	Grout pump	CNP 106	105	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	2
Total SWL, dB (A)					116
Maximum SWL, dB (A)					121

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
South Portal of North Tunnel and Ventilation Building					
Stage 4 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
	Total SWL, dB (A)				118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
	Total SWL, dB (A)				110
	Maximum SWL, dB (A)				118
Stage 5 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Total SWL, dB (A)				114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
	Total SWL, dB (A)				113
	Maximum SWL, dB (A)				114
Stage 6 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
	Total SWL, dB (A)				116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				118
Stage 7 - Building Structures					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				117

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Administration Building					
Stage 1 - Site Clearance					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	60%	1
	Dump truck	CNP 067	117	50%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					116
Stage 2 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
Total SWL, dB (A)					116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					116
Maximum SWL, dB (A)					118
Stage 3 - Building Structures					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	50%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					116

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Flyover Crossing Sha Tau Kok Road Interchange						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	116
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	5	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	5	
					Total SWL, dB (A)	118
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	50%	5	
	Piling, large diameter bored, oscillator	CNP 165	115	50%	5	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	5	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	5	
					Total SWL, dB (A)	120
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	5	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	5	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	5	
	Poker, vibratory, hand-held	CNP 170	113	20%	5	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	5	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	120
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	5	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	5	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	5	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	5	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	5	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	5	
	Concrete lorry mixer	CNP 044	109	20%	5	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	5	
	Poker, vibratory, hand-held	CNP 170	113	20%	5	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	5	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	5	
	Concrete lorry mixer	CNP 044	109	20%	5	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Poker, vibratory, hand-held	CNP 170	113	20%	5	
					Total SWL, dB (A)	117
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	60%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	118
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Sha Tau Kok Road (Road Section)					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	4
	Dump truck	CNP 067	117	80%	2
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Total SWL, dB (A)				122
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Lorry with crane/grab	CNP 145	105	70%	3
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				113
	Maximum SWL, dB (A)				122
Stage 2 - Site Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Lorry with crane/grab	CNP 145	105	70%	3
	Total SWL, dB (A)				117
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	4
	Bulldozer	CNP 030	115	60%	2
	Dump truck	CNP 067	117	80%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Water pump, submersible (electric)	CNP 283	85	100%	8
	Total SWL, dB (A)				122
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	4
	Concrete lorry mixer	CNP 044	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	2
	Compactor, vibratory	CNP 050	105	60%	2
	Roller, vibratory	CNP 186	108	60%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Poker, vibratory, hand-held	CNP 170	113	50%	5
	Total SWL, dB (A)				120
	Maximum SWL, dB (A)				122
Stage 3 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
	Total SWL, dB (A)				118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
	Total SWL, dB (A)				110
	Maximum SWL, dB (A)				118
Stage 4 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Total SWL, dB (A)				114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	2
	Total SWL, dB (A)				112
	Maximum SWL, dB (A)				114

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
North Portal of South Tunnel and Ventilation Building					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	80%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	8
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Total SWL, dB (A)				125
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	2
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				112
	Maximum SWL, dB (A)				125
Stage 2 - Portal Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	8
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	2
	Total SWL, dB (A)				120
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				123
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	1
	Roller, vibratory	CNP 186	108	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
	Total SWL, dB (A)				119
	Maximum SWL, dB (A)				123
Stage 3 - Slope Stabilisation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	20%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Total SWL, dB (A)				121
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Drill rig, rotary type (diesel)	CNP 072	110	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
	Total SWL, dB (A)				112
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Grout mixer	CNP 105	90	40%	1
	Grout pump	CNP 106	105	40%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	2
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				121

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
North Portal of South Tunnel and Ventilation Building					
Stage 4 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
Total SWL, dB (A)					118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
Total SWL, dB (A)					110
Maximum SWL, dB (A)					118
Stage 5 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
Total SWL, dB (A)					116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					116
Maximum SWL, dB (A)					118
Stage 6 - Building Structures					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					117

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Mid Ventilation Building					
Stage 1 - Site Clearance					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	60%	1
	Dump truck	CNP 067	117	50%	1
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					116
Stage 2 - Shaft Construction					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	1
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	60%	3
	Dump truck	CNP 067	117	50%	10
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	2
	Crane, tower (electric)	CNP 049	95	50%	1
	Piling, diaphragm wall, bentonite filtering plant	CNP 162	105	100%	2
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	100%	1
	Drill rig, rotary type (diesel)	CNP 072	110	100%	2
	Water pump, submersible (electric)	CNP 283	85	100%	1
Total SWL, dB (A)					125
Stage 3 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
Total SWL, dB (A)					116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					116
Maximum SWL, dB (A)					118
Stage 4 - Building Structures					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
Total SWL, dB (A)					117

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
South Portal of South Tunnel and Ventilation Building					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	80%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	4
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Total SWL, dB (A)				124
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	2
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				112
	Maximum SWL, dB (A)				124
Stage 2 - Portal Formation					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	2
	Total SWL, dB (A)				119
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				124
Group 3					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	1
	Roller, vibratory	CNP 186	108	20%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
	Total SWL, dB (A)				119
	Maximum SWL, dB (A)				124
Stage 3 - Slope Stabilisation					
Group 1					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	20%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Total SWL, dB (A)				121
Group 2					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	2
	Drill rig, rotary type (diesel)	CNP 072	110	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
	Total SWL, dB (A)				112
Group 3					
	Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Grout mixer	CNP 105	90	40%	1
	Grout pump	CNP 106	105	40%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	2
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				121

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
South Portal of South Tunnel and Ventilation Building					
Stage 4 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
	Total SWL, dB (A)				118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
	Total SWL, dB (A)				110
	Maximum SWL, dB (A)				118
Stage 5 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Total SWL, dB (A)				114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
	Total SWL, dB (A)				113
	Maximum SWL, dB (A)				114
Stage 6 - Building Foundation Works					
Group 1					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	30%	1
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Total SWL, dB (A)				118
Group 2					
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	90%	1
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	1
	Water pump (petrol)	CNP 282	103	80%	4
	Total SWL, dB (A)				116
Group 3					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Concrete lorry mixer	CNP 044	109	50%	4
	Poker, vibratory, hand-held	CNP 170	113	20%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	80%	2
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				118
Stage 7 - Building Structures					
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	40%	2
	Concrete lorry mixer	CNP 044	109	50%	3
	Concrete pump, stationary/ lorry mounted	CNP 047	109	40%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	80%	1
	Lorry with crane/grab	CNP 145	105	50%	2
	Poker, vibratory, hand-held	CNP 170	113	20%	3
	Bar bender and cutter (electric)	CNP 021	90	80%	3
	Total SWL, dB (A)				117

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Temporary Access Bridge						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	2	
					Total SWL, dB (A)	116
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Lorry	CNP 141	112	30%	4	
					Total SWL, dB (A)	115
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	30%	4	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
					Total SWL, dB (A)	109
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	4	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	2	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	118
					Maximum SWL, dB (A)	118
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	2	
					Total SWL, dB (A)	116
Group 2						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
	Concrete lorry mixer	CNP 044	109	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	2	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	4	
	Poker, vibratory, hand-held	CNP 170	113	20%	2	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	30%	2	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	20%	2	
					Total SWL, dB (A)	113
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	60%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	4	
					Total SWL, dB (A)	118
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	1	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Link Road 1						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	114
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	3	
	Lorry	CNP 141	112	30%	6	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	3	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	3	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
					Total SWL, dB (A)	117
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	6	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	6	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	3	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	118
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	40%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	40%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	117
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Link Road 2						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	114
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	3	
	Lorry	CNP 141	112	30%	6	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	3	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	3	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
					Total SWL, dB (A)	117
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	6	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	6	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	3	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	118
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	40%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	40%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	117
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Link Road 3						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	114
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	3	
	Lorry	CNP 141	112	30%	6	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	3	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	3	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
					Total SWL, dB (A)	117
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	6	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	6	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	3	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	118
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	40%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	40%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	117
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Link Road 4						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	114
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	3	
	Lorry	CNP 141	112	30%	6	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	3	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	3	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
					Total SWL, dB (A)	117
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	6	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	6	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	3	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	118
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	40%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	40%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	117
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME	
Fanling Highway Connection Flyovers - Link Road 5						
Stage 1 - Site Clearance & Haul Road						
Group 1						
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	30%	2	
					Total SWL, dB (A)	109
Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	2	
	Bulldozer	CNP 030	115	40%	1	
					Total SWL, dB (A)	114
Group 3						
	Dump truck	CNP 067	117	80%	4	
					Total SWL, dB (A)	122
					Maximum SWL, dB (A)	122
Stage 2 - Piling						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	40%	3	
	Lorry	CNP 141	112	30%	6	
					Total SWL, dB (A)	117
Group 2						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	40%	3	
	Piling, large diameter bored, oscillator	CNP 165	115	40%	3	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
					Total SWL, dB (A)	117
Group 3						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	6	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Concrete lorry mixer	CNP 044	109	20%	6	
					Total SWL, dB (A)	119
					Maximum SWL, dB (A)	119
Stage 3 - PileCaps						
Group 1						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	2	
	Lorry	CNP 141	112	50%	6	
					Total SWL, dB (A)	118
Group 2						
	Water pump (electric)	CNP 281	88	70%	6	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	70%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	6	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	121
					Maximum SWL, dB (A)	121
Stage 4 - Piers						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	6	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	6	
	Concrete lorry mixer	CNP 044	109	20%	6	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	20%	1	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	3	
	Poker, vibratory, hand-held	CNP 170	113	20%	4	
					Total SWL, dB (A)	118
Stage 5 - Bridge Decks						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	50%	2	
	Lorry	CNP 141	112	40%	4	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	40%	3	
	Prestress Jack*	CNP 261	110	20%	3	
					Total SWL, dB (A)	117
Stage 6 - Parapet & Surfacing						
Group 1 (Parapet)						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2	
	Lorry	CNP 141	112	50%	2	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
					Total SWL, dB (A)	114
Group 2 (Surfacing)						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2	
	Asphalt paver	CNP 004	109	70%	1	
	Road roller	CNP 185	108	70%	3	
					Total SWL, dB (A)	113
					Maximum SWL, dB (A)	114
Note*: The SWL of Prestress Jack is assumed same as Winch (Pneumatic) of similar activity						

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Fanling Road Section					
Stage 1 - Site Clearance					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	70%	3
	Dump truck	CNP 067	117	80%	4
	Excavator/ loader, wheeled/ tracked	CNP 081	112	80%	8
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Total SWL, dB (A)				125
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	3
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	40%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Lorry with crane/grab	CNP 145	105	70%	2
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				112
	Maximum SWL, dB (A)				125
Stage 2 - Site Formation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	60%	3
	Excavator/ loader, wheeled/ tracked	CNP 081	112	50%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	50%	4
	Total SWL, dB (A)				117
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Bulldozer	CNP 030	115	70%	1
	Dump truck	CNP 067	117	80%	5
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Water pump, submersible (electric)	CNP 283	85	100%	4
	Total SWL, dB (A)				124
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	70%	3
	Concrete lorry mixer	CNP 044	109	40%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Compactor, vibratory	CNP 050	105	50%	3
	Roller, vibratory	CNP 186	108	70%	3
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	60%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	5
	Total SWL, dB (A)				120
	Maximum SWL, dB (A)				124
Stage 3 - Slope Stabilisation					
Group 1					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Breaker, hand-held, mass >= 20kg and <= 35kg	CNP 025	111	20%	2
	Breaker, excavator mounted (hydraulic)	CNP 028	122	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Lorry with crane/grab	CNP 145	105	40%	2
	Total SWL, dB (A)				121
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Drill rig, rotary type (diesel)	CNP 072	110	70%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Water pump, submersible (electric)	CNP 283	85	100%	1
	Total SWL, dB (A)				112
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	100%	2
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	70%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	1
	Grout mixer	CNP 105	90	40%	1
	Grout pump	CNP 106	105	40%	1
	Poker, vibratory, hand-held	CNP 170	113	50%	2
	Total SWL, dB (A)				116
	Maximum SWL, dB (A)				121

Item	PME	TM or other reference	SWL, dB(A)	% on time	Total no. of PME
Fanling Road Section					
Stage 4 - Bored Pile Wall					
Group 1					
	Drill rig, rotary type (diesel)	CNP 072	110	40%	2
	Water pump (electric)	CNP 281	88	100%	3
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
Total SWL, dB (A)					110
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	100%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Piling, large diameter bored, grab and chisel	CNP 164	115	70%	2
Total SWL, dB (A)					118
Group 3					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	80%	1
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	100%	1
	Concrete lorry mixer	CNP 044	109	50%	1
	Concrete pump, stationary/ lorry mounted	CNP 047	109	50%	1
Total SWL, dB (A)					110
Maximum SWL, dB (A)					118
Stage 5 - Road Works					
Group 1					
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	30%	2
	Lorry	CNP 141	112	50%	2
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
Total SWL, dB (A)					114
Group 2					
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	50%	2
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	50%	2
	Asphalt paver	CNP 004	109	70%	1
	Road roller	CNP 185	108	70%	3
Total SWL, dB (A)					113
Maximum SWL, dB (A)					114