

**Appendix 4.8A**  
**Mitigated Powered Mechanical  
Equipment**

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Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
1	SCHEME H PART A (HOI PO ROAD TO WEST KOWLOON HIGHWAY)						
	<b>Stage 1 - Site Preparation and Utility Diversion</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	1	50%	-5	97
	Total SWL, dB(A)						<b>102</b>
	<b>Stage 2 - Shifting of WKH and Lin Cheung Road</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Asphalt paver	EPD-00097	106	1	50%	0	103
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	2	50%	0	108
	Total SWL, dB(A)						<b>111</b>
	<b>Stage 3 - Pilling</b>						
	Pilling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	0	101
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	2	70%	0	96
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	2	70%	0	103
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Total SWL, dB(A)						<b>111</b>
	<b>Stage 4 - Pile Caps</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Poker, vibratory, hand-held (electric)	CNP 173	102	4	50%	-5	100
	Lorry, <38 tonne	CNP 145	105	3	50%	-5	102
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>110</b>
	<b>Stage 5 - Piers</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>109</b>

Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
<b>Stage 6 - Bridge Decks</b>							
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	5	50%	-5	108
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	4	50%	-5	100
	Lorry, <38 tonne	CNP 145	105	1	50%	-5	97
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
						Total SWL, dB(A)	<b>111</b>
<b>Stage 7 - Excavation for Retaining Walls</b>							
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	90%	0	103
	Lorry, <38 tonne	CNP 145	105	3	90%	-5	104
						Total SWL, dB(A)	<b>107</b>
<b>Stage 8 - Construction of Retaining Walls</b>							
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	0	92
	Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	50%	0	99
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Lorry, <38 tonne	CNP 145	105	1	50%	-5	97
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
						Total SWL, dB(A)	<b>109</b>
<b>Stage 9 - Backfilling Retaining Walls</b>							
	Lorry, <38 tonne	CNP 145	105	2	60%	0	106
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	60%	0	101
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	1	50%	0	105
						Total SWL, dB(A)	<b>110</b>
<b>Stage 10 - Road Works</b>							
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	50%	0	99
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	0	92
	Asphalt paver	EPD-00097	106	1	50%	0	103
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	2	50%	0	108
						Total SWL, dB(A)	<b>111</b>

# Mobile noise barrier is provided so there is 5 dB(A) reduction for barrier correction.

\* PME is for reference only, contractor can use other kinds of PME with same or lower SWL.

Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
2	SCHEME H PART B (WIDENING OF ELEVATED NGA CHEUNG ROAD)						
	<b>Stage 1 - Site Preparation and Utility Diversion</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Total SWL, dB(A)						<b>103</b>
	<b>Stage 2 - Pilling</b>						
	Pilling, large diameter bored, reverse circulation drill	CNP 166	100	2	70%	0	101
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	2	70%	0	96
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	2	70%	0	103
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Total SWL, dB(A)						<b>111</b>
	<b>Stage 3 - Pile Caps</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Poker, vibratory, hand-held (electric)	CNP 173	102	4	50%	-5	100
	Lorry, <38 tonne	CNP 145	105	3	50%	-5	102
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>110</b>
	<b>Stage 4 - Piers</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>109</b>
	<b>Stage 5 - Bridge Decks</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>109</b>

Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)	
	<b>Stage 6 - Road Works</b>							
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100	
	Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	50%	0	99	
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	0	92	
	Asphalt paver	EPD-00097	106	1	50%	0	103	
	Road roller	EPD-00108	104	1	50%	0	101	
	Power rammer (petrol)	CNP 169	108	2	50%	0	108	
	Total SWL, dB(A)							<b>111</b>

# Mobile noise barrier is provided so there is 5 dB(A) reduction for barrier correction.

\* PME is for reference only, contractor can use other kinds of PME with same or lower SWL.

Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
3	<b>SCHEME I (U TURN TO WEST HARBOUR CROSSING)</b>						
	<b>Stage 1 - Site Preparation and Utility Diversion</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Total SWL, dB(A)						<b>103</b>
	<b>Stage 2 - Shifting the Approach Roads and Close the Fast Lane of WHC</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Asphalt paver	EPD-00097	106	1	50%	0	103
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	2	50%	0	108
	Total SWL, dB(A)						<b>111</b>
	<b>Stage 3 - Piling</b>						
	Pilling, large diameter bored, reverse circulation drill	CNP 166	100	1	70%	0	98
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	70%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	70%	0	100
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Concrete lorry mixer	CNP 044	109	2	50%	-5	104
	Total SWL, dB(A)						<b>110</b>
	<b>Stage 4 - Pile Caps</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	2	50%	-5	104
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>110</b>
	<b>Stage 5 - Piers</b>						
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	3	50%	-5	106
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>109</b>

<b>Stage 6 - Bridge Decks</b>						
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	60%	0	100
Concrete lorry mixer	CNP 044	109	3	50%	-5	106
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
Total SWL, dB(A)						<b>109</b>
<b>Stage 7 - Road Works</b>						
Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
Air compressor, air flow > 10m <sup>3</sup> /min and ≤ 30m <sup>3</sup> /min	CNP 002	102	1	50%	0	99
Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	0	92
Asphalt paver	EPD-00097	106	1	50%	0	103
Road roller	EPD-00108	104	1	50%	0	101
Power rammer (petrol)	CNP 169	108	2	50%	0	108
Total SWL, dB(A)						<b>111</b>

# Mobile noise barrier is provided so there is 5 dB(A) reduction for barrier correction.

\* PME is for reference only, contractor can use other kinds of PME with same or lower SWL.

Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
4	SCHEME J (LIN CHEUNG ROAD TO NGA CHEUNG ROAD)						
	<b>Stage 1 - Site Preparation and Utility Diversion</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Total SWL, dB(A)						<b>103</b>
	<b>Stage 2 - Modification of Lin Cheung Road Slip Roads</b>						
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Asphalt paver	EPD-00097	106	1	50%	0	103
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	2	50%	0	108
	Total SWL, dB(A)						<b>111</b>
	<b>Stage 3 - U Structures</b>						
	Water pump (electric)	CNP 281	88	4	50%	0	91
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	60%	0	93
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	60%	0	100
	Concrete lorry mixer	CNP 044	109	2	50%	-5	104
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-5	101
	Crane, mobile/ barge mounted (diesel)	EPD-01477	104	1	50%	0	101
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	50%	0	100
	Poker, vibratory, hand-held (electric)	CNP 173	102	3	50%	-5	99
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Bar bender and cutter (electric)	CNP 021	90	1	50%	0	87
	Total SWL, dB(A)						<b>110</b>
	<b>Stage 4 - Road Works</b>						
	Lorry, <38 tonne	CNP 145	105	2	50%	-5	100
	Air compressor, air flow> 10m3/min and <= 30m3/min	CNP 002	102	1	50%	0	99
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	50%	0	92
	Asphalt paver	EPD-00097	106	1	50%	0	103
	Road roller	EPD-00108	104	1	50%	0	101
	Power rammer (petrol)	CNP 169	108	2	50%	0	108
	Total SWL, dB(A)						<b>111</b>

# Mobile noise barrier is provided so there is 5 dB(A) reduction for barrier correction.

\* PME is for reference only, contractor can use other kinds of PME with same or lower SWL.



Item	PME	TM or other reference*	SWL, dB(A)	No. of PME	% on time	Barrier Correction	Total SWL, dB(A)
5	SCHEME Q and Improvement Works at the Junction of CR/FS/JR						
<b>Stage 1 - Road Surface Removal</b>							
	Excavator/ loader, wheeled/tracked	EPD-01431	103	1	70%	-5	96
	Generator, super silenced, 70 dB(A) at 7m	CNP 103	95	1	100%	0	95
	Breaker, hand-held	CNP 024	108	1	50%	-5	100
Total SWL, dB(A)							<b>102</b>
<b>Stage 2 - Road Surface Cleaning</b>							
	Road Sweeper	@	107	1	100%	-5	102
Total SWL, dB(A)							<b>102</b>
<b>Stage 3 - Road Surface Paving</b>							
	Asphalt paver	EPD-01226	104	1	100%	-5	99
Total SWL, dB(A)							<b>99</b>
<b>Stage 4 - Road Surface Compaction</b>							
	Road roller	EPD-00244	99	1	100%	-5	94
Total SWL, dB(A)							<b>94</b>

# Mobile noise barrier is provided so there is 5 dB(A) reduction for barrier correction.

\* PME is for reference only, contractor can use other kinds of PME with same or lower SWL.

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

**Appendix 4.8B**  
**Mitigated Sound Power Level  
of the Project**

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**Appendix 4.8C**

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**Notional Distance from  
Construction Sites of the  
Project**



**Appendix 4.8D**

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**Detailed Calculation of  
Mitigated Construction Noise  
Level of the Project**

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : IHV

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion	52	52																						
1.2	Shifting of WKH and Lin Cheung Road			61	61																				
1.3	Pilling			61	61	61	61	61	61	61															
1.4	Pile Caps			61	61	61	61	61	61	61															
1.5	Piers							60	60	60	60														
1.6	Bridge Decks											61	61	61	61	61	61	61	61						
1.7	Excavation for Retaining Walls					57	57	57	57	57	57														
1.8	Construction of Retaining Walls					59	59	59	59	59	59														
1.9	Backfilling Retaining Walls					60	60	60	60	60	60														
1.10	Road Works																				61	61			
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		52	52	66	66	67	67	68	68	68	68	63	61	61	61	61	61	61	61	61	61	61	0		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : FR

Stage	SPL (dB(A))																							
	2014												2015											
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																								
1.1	Site Preparation and Utility Diversion	51	51																					
1.2	Shifting of WKH and Lin Cheung Road			60	60																			
1.3	Pilling			60	60	60	60	60	60	60														
1.4	Pile Caps			60	60	60	60	60	60	60														
1.5	Piers						59	59	59	59	59													
1.6	Bridge Decks										60	60	60	60	60	60	60	60						
1.7	Excavation for Retaining Walls					56	56	56	56	56	56													
1.8	Construction of Retaining Walls					58	58	58	58	58	58													
1.9	Backfilling Retaining Walls					59	59	59	59	59	59													
1.10	Road Works																				60	60		
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																								
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
<b>Scheme I - U turn to West Harbour Crossing</b>																								
3.1	Site Preparation and Utility Diversion																							
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3	Pilling																							
3.4	Pile Caps																							
3.5	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																							
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																								
4.1	Site Preparation and Utility Diversion																							
4.2	Modification of Lin Cheung Road Slip Roads																							
4.3	U Structures																							
4.4	Road Works																							
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																								
5.1	Road Surface Removal																							
5.2	Road Surface Cleaning																							
5.3	Road Surface Paving																							
5.4	Road Surface Compaction																							
Total SPL, dB(A)		51	51	65	65	66	66	67	67	67	67	62	60	60	60	60	60	60	60	60	60	60	0	0
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.



Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : PAV

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion	53	53																						
1.2	Shifting of WKH and Lin Cheung Road			62	62																				
1.3	Pilling			62	62	62	62	62	62	62															
1.4	Pile Caps			62	62	62	62	62	62	62															
1.5	Piers							60	60	60	60	60													
1.6	Bridge Decks											62	62	62	62	62	62	62	62						
1.7	Excavation for Retaining Walls					58	58	58	58	58	58														
1.8	Construction of Retaining Walls					60	60	60	60	60	60														
1.9	Backfilling Retaining Walls					61	61	61	61	61	61														
1.10	Road Works																				62	62			
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		53	53	67	67	68	68	68	68	68	68	64	62	62	62	62	62	62	62	62	62	62	0	0	
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : CG

Stage	SPL (dB(A))																							
	2014												2015											
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																								
1.1	Site Preparation and Utility Diversion	50	50																					
1.2	Shifting of WKH and Lin Cheung Road			59	59																			
1.3	Pilling			59	59	59	59	59	59	59														
1.4	Pile Caps			59	59	59	59	59	59	59														
1.5	Piers							58	58	58	58	58												
1.6	Bridge Decks										59	59	59	59	59	59	59	59						
1.7	Excavation for Retaining Walls					55	55	55	55	55	55													
1.8	Construction of Retaining Walls					57	57	57	57	57	57													
1.9	Backfilling Retaining Walls					58	58	58	58	58	58													
1.10	Road Works																				59	59		
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																								
2.1	Site Preparation and Utility Diversion																							
2.2	Pilling																							
2.3	Pile Caps																							
2.4	Piers																							
2.5	Bridge Decks																							
2.6	Road Works																							
<b>Scheme I - U turn to West Harbour Crossing</b>																								
3.1	Site Preparation and Utility Diversion																							
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																							
3.3	Pilling																							
3.4	Pile Caps																							
3.5	Piers																							
3.6	Bridge Decks																							
3.7	Road Works																							
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																								
4.1	Site Preparation and Utility Diversion	52	52	52																				
4.2	Modification of Lin Cheung Road Slip Roads				59	59	59	59																
4.3	U Structures								58	58	58	58	58	58	58	58	58	58	58					
4.4	Road Works																					59	59	
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																								
5.1	Road Surface Removal																							
5.2	Road Surface Cleaning																							
5.3	Road Surface Paving																							
5.4	Road Surface Compaction																							
Total SPL, dB(A)		54	54	64	65	66	66	67	66	66	66	63	62	62	62	62	62	62	62	62	62	62	0	0
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : LKPC

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion	48	48																						
1.2	Shifting of WKH and Lin Cheung Road			57	57																				
1.3	Pilling			58	58	58	58	58	58	58															
1.4	Pile Caps			57	57	57	57	57	57	57															
1.5	Piers							56	56	56	56														
1.6	Bridge Decks											57	57	57	57	57	57	57	57						
1.7	Excavation for Retaining Walls					53	53	53	53	53	53														
1.8	Construction of Retaining Walls					55	55	55	55	55	55														
1.9	Backfilling Retaining Walls					56	56	56	56	56	56														
1.10	Road Works																					57	57		
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion	52	52	52																					
4.2	Modification of Lin Cheung Road Slip Roads				60	60	60	60																	
4.3	U Structures								59	59	59	59	59	59	59	59	59	59	59	59					
4.4	Road Works																					60	60		
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		54	54	62	64	65	65	65	65	65	65	62	61	61	61	61	61	61	61	61	61	62	62	0	
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : YCS

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion	47	47																						
1.2	Shifting of WKH and Lin Cheung Road			56	56																				
1.3	Pilling			57	57	57	57	57	57	57															
1.4	Pile Caps			56	56	56	56	56	56	56															
1.5	Piers							55	55	55	55														
1.6	Bridge Decks											56	56	56	56	56	56	56	56						
1.7	Excavation for Retaining Walls					52	52	52	52	52	52														
1.8	Construction of Retaining Walls					54	54	54	54	54	54														
1.9	Backfilling Retaining Walls					55	55	55	55	55	55														
1.10	Road Works																				56	56			
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion	51	51	51																					
4.2	Modification of Lin Cheung Road Slip Roads				59	59	59	59																	
4.3	U Structures								58	58	58	58	58	58	58	58	58	58	58						
4.4	Road Works																				59	59			
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		53	53	62	63	64	64	64	64	64	64	61	60	60	60	60	60	60	60	61	61	0	0		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : SRT

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion	61	61	61																					
2.2	Pilling				69	69	69	69	69	69	69	69	69												
2.3	Pile Caps				68	68	68	68	68	68	68	68	68												
2.4	Piers							67	67	67	67	67	67	67											
2.5	Bridge Decks																67	67	67	67	67	67	67		
2.6	Road Works																					69	69		
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion	54	54	54																					
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC	62	62	62																					
3.3	Pilling				61	61	61	61	61	61	61	61	61												
3.4	Pile Caps				60	60	60	60	60	60	60	60	60												
3.5	Piers							60	60	60	60	60	60	60											
3.6	Bridge Decks																60	60	60	60	60	60	60		
3.7	Road Works																					62	62		
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		65	65	65	72	72	72	73	73	73	73	73	73	73	68	68	68	68	68	68	72	72	0	0	
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : CLS

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion	58	58	58																					
2.2	Pilling				66	66	66	66	66	66	66	66	66	66											
2.3	Pile Caps				66	66	66	66	66	66	66	66	66	66											
2.4	Piers							64	64	64	64	64	64	64											
2.5	Bridge Decks																64	64	64	64	64	64	64		
2.6	Road Works																					67	67		
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion	60	60	60																					
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC	67	67	67																					
3.3	Pilling				66	66	66	66	66	66	66	66	66	66											
3.4	Pile Caps				66	66	66	66	66	66	66	66	66	66											
3.5	Piers							66	66	66	66	66	66	66											
3.6	Bridge Decks																66	66	66	66	66	66	66		
3.7	Road Works																					67	67		
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal																								
5.2	Road Surface Cleaning																								
5.3	Road Surface Paving																								
5.4	Road Surface Compaction																								
Total SPL, dB(A)		69	69	69	72	72	72	74	74	74	74	74	74	74	68	68	68	68	68	68	72	72	0	0	
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : ASD1

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	70	70	70	70	70	70																		
5.2	Road Surface Cleaning							70	70	70	70	70	70	70	70	70									
5.3	Road Surface Paving																67	67	67	67	67	67	67		
5.4	Road Surface Compaction																62	62	62	62	62	62	62		
Total SPL, dB(A)		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	68	68	68	68	68	68	68		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : ASD2

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	74	74	74	74	74	74																		
5.2	Road Surface Cleaning							75	75	75	75	75	75	75	75	75									
5.3	Road Surface Paving																72	72	72	72	72	72	72		
5.4	Road Surface Compaction																67	67	67	67	67	67	67		
Total SPL, dB(A)		74	74	74	74	74	74	75	75	75	75	75	75	75	75	75	73	73	73	73	73	73	73		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.



Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : FSDO

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	62	62	62	62	62	62																		
5.2	Road Surface Cleaning							62	62	62	62	62	62	62	62	62									
5.3	Road Surface Paving																59	59	59	59	59	59	59		
5.4	Road Surface Compaction																54	54	54	54	54	54	54		
Total SPL, dB(A)		62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	60	60	60	60	60	60	60		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : ASC

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	69	69	69	69	69	69																		
5.2	Road Surface Cleaning							69	69	69	69	69	69	69	69	69									
5.3	Road Surface Paving																66	66	66	66	66	66	66		
5.4	Road Surface Compaction																61	61	61	61	61	61	61		
Total SPL, dB(A)		69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	68	68	68	68	68	68	68		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : LCMS

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	61	61	61	61	61	61																		
5.2	Road Surface Cleaning							61	61	61	61	61	61	61	61	61									
5.3	Road Surface Paving																58	58	58	58	58	58	58		
5.4	Road Surface Compaction																53	53	53	53	53	53	53		
Total SPL, dB(A)		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	59	59	59	59	59	59	59		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : VT

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	61	61	61	61	61	61																		
5.2	Road Surface Cleaning							61	61	61	61	61	61	61	61	61									
5.3	Road Surface Paving																58	58	58	58	58	58	58		
5.4	Road Surface Compaction																53	53	53	53	53	53	53		
Total SPL, dB(A)		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	60	60	60	60	60	60	60		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : GB

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	64	64	64	64	64	64																		
5.2	Road Surface Cleaning							64	64	64	64	64	64	64	64	64									
5.3	Road Surface Paving																61	61	61	61	61	61	61		
5.4	Road Surface Compaction																56	56	56	56	56	56	56		
Total SPL, dB(A)		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	62	62	62	62	62	62	62		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

Appendix 4.8D - Construction Noise Calculation - Mitigated Scenario

NSR : YTB

Stage		SPL (dB(A))																							
		2014												2015											
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Scheme H(A) - Hoi Po Road to West Kowloon Highway</b>																									
1.1	Site Preparation and Utility Diversion																								
1.2	Shifting of WKH and Lin Cheung Road																								
1.3	Pilling																								
1.4	Pile Caps																								
1.5	Piers																								
1.6	Bridge Decks																								
1.7	Excavation for Retaining Walls																								
1.8	Construction of Retaining Walls																								
1.9	Backfilling Retaining Walls																								
1.10	Road Works																								
<b>Scheme H(B) - Widening of Elevated Nga Cheung Road</b>																									
2.1	Site Preparation and Utility Diversion																								
2.2	Pilling																								
2.3	Pile Caps																								
2.4	Piers																								
2.5	Bridge Decks																								
2.6	Road Works																								
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion																								
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC																								
3.3	Pilling																								
3.4	Pile Caps																								
3.5	Piers																								
3.6	Bridge Decks																								
3.7	Road Works																								
<b>Scheme J - Lin Cheung Road to Nga Cheung Road</b>																									
4.1	Site Preparation and Utility Diversion																								
4.2	Modification of Lin Cheung Road Slip Roads																								
4.3	U Structures																								
4.4	Road Works																								
<b>Scheme Q and Improvement Works at the Junction of CR/FS/JR</b>																									
5.1	Road Surface Removal	72	72	72	72	72	72																		
5.2	Road Surface Cleaning							72	72	72	72	72	72	72	72	72									
5.3	Road Surface Paving																69	69	69	69	69	69	69		
5.4	Road Surface Compaction																64	64	64	64	64	64	64		
Total SPL, dB(A)		72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	71	71	71	71	71	71		
Exceedance		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Remarks:

For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.

**Appendix 4.8E**

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**Summary of Mitigated  
Construction Noise Level of the  
Project**

Appendix 4.8E - Mitigated Construction Noise Level from the Project

NSR	Noise Criteria, dB(A)	Max	SPL (dB(A))																							
			2014												2015											
			Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
IHV	75	68	52	52	66	66	67	67	68	68	68	68	63	61	61	61	61	61	61	61	61	61	61	0	0	
FR	75	67	51	51	65	65	66	66	67	67	67	67	62	60	60	60	60	60	60	60	60	60	60	0	0	
PAV	75	68	53	53	67	67	68	68	68	68	68	68	64	62	62	62	62	62	62	62	62	62	62	0	0	
CG	75	67	54	54	64	65	66	66	67	66	66	66	63	62	62	62	62	62	62	62	62	62	62	0	0	
LKPC	70	65	54	54	62	64	65	65	65	65	65	65	62	61	61	61	61	61	61	61	61	62	62	0	0	
YCS	70	64	53	53	62	63	64	64	64	64	64	64	61	60	60	60	60	60	60	60	60	61	61	0	0	
SRT	75	73	65	65	65	72	72	72	73	73	73	73	73	73	73	68	68	68	68	68	68	72	72	0	0	
CLS	75	74	69	69	69	72	72	72	74	74	74	74	74	74	74	68	68	68	68	68	68	72	72	0	0	
ASD1	75	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	68	68	68	68	68	68	
ASD2	75	75	74	74	74	74	74	74	75	75	75	75	75	75	75	75	75	75	73	73	73	73	73	73	73	
FSDO	75	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	60	60	60	60	60	60	60	
ASC	75	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	68	68	68	68	68	68	68	
LCMS	70	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	59	59	59	59	59	59	59	
VT	75	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	60	60	60	60	60	60	60	
GB	75	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	62	62	62	62	62	62	62	
YTB	75	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	71	71	71	71	71	71	