

**Appendix 4.2D**

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

Appendix 4.2D - Construction Noise Calculation - Unmitigated 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	62	62																						
1.2	Shifting of WKH and Lin Cheung Road			66	66																				
1.3	Pilling			67	67	67	67	67	67	67															
1.4	Pile Caps			70	70	70	70	70	70	70															
1.5	Piers							67	67	67	67	67													
1.6	Bridge Decks										69	69	69	69	69	69	69	69	69						
1.7	Excavation for Retaining Walls					68	68	68	68	68															
1.8	Construction of Retaining Walls					68	68	68	68	68															
1.9	Backfilling Retaining Walls					65	65	65	65	65															
1.10	Road Works																				65	65			
<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)		62	62	73	73	75	75	76	76	76	73	72	69	69	69	69	69	69	69	69	65	65	0		
Exceedance		-	-	-	-	-	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-		

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 4.2D - Construction Noise Calculation - Unmitigated 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	61	61																						
1.2	Shifting of WKH and Lin Cheung Road			65	65																				
1.3	Pilling			66	66	66	66	66	66	66															
1.4	Pile Caps			69	69	69	69	69	69	69															
1.5	Piers						66	66	66	66															
1.6	Bridge Decks										68	68	68	68	68	68	68	68							
1.7	Excavation for Retaining Walls				67	67	67	67	67																
1.8	Construction of Retaining Walls				67	67	67	67	67																
1.9	Backfilling Retaining Walls				64	64	64	64	64																
1.10	Road Works																				64	64			
<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)		61	61	72	72	74	74	75	75	75	72	71	68	68	68	68	68	68	68	68	68	64	64	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 4.2D - Construction Noise Calculation - Unmitigated 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	63	63																						
1.2	Shifting of WKH and Lin Cheung Road			67	67																				
1.3	Pilling			68	68	68	68	68	68	68															
1.4	Pile Caps			71	71	71	71	71	71	71															
1.5	Piers							68	68	68	68	68													
1.6	Bridge Decks										70	70	70	70	70	70	70	70	70						
1.7	Excavation for Retaining Walls					69	69	69	69	69															
1.8	Construction of Retaining Walls					69	69	69	69	69															
1.9	Backfilling Retaining Walls					66	66	66	66	66															
1.10	Road Works																				66	66			
<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)		63	63	74	74	76	76	77	77	77	74	72	70	70	70	70	70	70	70	70	66	66	0		
Exceedance		-	-	-	-	1	1	2	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-		

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 4.2D - Construction Noise Calculation - Unmitigated 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	61	61																						
1.2	Shifting of WKH and Lin Cheung Road			65	65																				
1.3	Pilling			66	66	66	66	66	66	66															
1.4	Pile Caps			69	69	69	69	69	69	69															
1.5	Piers							66	66	66	66														
1.6	Bridge Decks											68	68	68	68	68	68	68	68						
1.7	Excavation for Retaining Walls					67	67	67	67	67															
1.8	Construction of Retaining Walls					67	67	67	67	67															
1.9	Backfilling Retaining Walls					64	64	64	64	64															
1.10	Road Works																				64	64			
<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	63	63	63																					
4.2	Modification of Lin Cheung Road Slip Roads				65	65	65	65																	
4.3	U Structures								68	68	68	68	68	68	68	68	68	68	68						
4.4	Road Works																				64	64			
<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	72	72	74	74	75	75	75	73	72	71	71	71	71	71	71	71	71	71	67	67	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 4.2D - Construction Noise Calculation - Unmitigated 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	59	59																						
1.2	Shifting of WKH and Lin Cheung Road			63	63																				
1.3	Pilling			64	64	64	64	64	64	64															
1.4	Pile Caps			67	67	67	67	67	67	67															
1.5	Piers							64	64	64	64														
1.6	Bridge Decks											66	66	66	66	66	66	66	66						
1.7	Excavation for Retaining Walls					65	65	65	65	65															
1.8	Construction of Retaining Walls					65	65	65	65	65															
1.9	Backfilling Retaining Walls					62	62	62	62	62															
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	63	63	63																					
4.2	Modification of Lin Cheung Road Slip Roads				65	65	65	65																	
4.3	U Structures								68	68	68	68	68	68	68	68	68	68	68	68					
4.4	Road Works																				64	64			
<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)		64	64	70	71	72	72	73	74	74	72	71	70	70	70	70	70	70	70	66	66	0	0		
Exceedance		-	-	-	1	2	2	3	4	4	2	1	-	-	-	-	-	-	-	-	-	-	-		

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 4.2D - Construction Noise Calculation - Unmitigated 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	58	58																					
1.2	Shifting of WKH and Lin Cheung Road			62	62																			
1.3	Pilling			63	63	63	63	63	63	63														
1.4	Pile Caps			66	66	66	66	66	66	66														
1.5	Piers							63	63	63	63	63												
1.6	Bridge Decks										65	65	65	65	65	65	65	65	65					
1.7	Excavation for Retaining Walls					64	64	64	64	64														
1.8	Construction of Retaining Walls					64	64	64	64	64														
1.9	Backfilling Retaining Walls					61	61	61	61	61														
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	62	62	62																				
4.2	Modification of Lin Cheung Road Slip Roads				64	64	64	64																
4.3	U Structures								67	67	67	67	67	67	67	67	67	67	67	67				
4.4	Road Works																					63	63	
<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)		64	64	69	70	71	71	72	73	73	71	70	69	69	69	69	69	69	69	69	65	65	0	0
Exceedance		-	-	-	-	1	1	2	3	3	1	-	-	-	-	-	-	-	-	-	-	-	-	

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 4.2D - Construction Noise Calculation - Unmitigated 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	72	72	72																					
2.2	Pilling				75	75	75	75	75	75	75	75	75												
2.3	Pile Caps				78	78	78	78	78	78	78	78	78												
2.4	Piers							75	75	75	75	75	75												
2.5	Bridge Decks																75	75	75	75	75	75	75		
2.6	Road Works																					73	73		
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion	65	65	65																					
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC	67	67	67																					
3.3	Pilling				68	68	68	68	68	68	68	68	68												
3.4	Pile Caps				70	70	70	70	70	70	70	70	70												
3.5	Piers							68	68	68	68	68	68												
3.6	Bridge Decks																68	68	68	68	68	68	68		
3.7	Road Works																					66	66		
<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)		74	74	74	80	80	80	81	81	81	81	81	81	81	81	76	76	76	76	76	78	78	0	0	
Exceedance		-	-	-	5	5	5	6	6	6	6	6	6	6	6	1	1	1	1	1	3	3	-	-	

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 4.2D - Construction Noise Calculation - Unmitigated 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	69	69	69																					
2.2	Pilling				72	72	72	72	72	72	72	72	72												
2.3	Pile Caps				75	75	75	75	75	75	75	75	75												
2.4	Piers							72	72	72	72	72	72	72											
2.5	Bridge Decks																72	72	72	72	72	72	72		
2.6	Road Works																					70	70		
<b>Scheme I - U turn to West Harbour Crossing</b>																									
3.1	Site Preparation and Utility Diversion	71	71	71																					
3.2	Shifting the Approach Roads and Close the Fast Lane of WHC	73	73	73																					
3.3	Pilling				74	74	74	74	74	74	74	74	74												
3.4	Pile Caps				76	76	76	76	76	76	76	76	76												
3.5	Piers							74	74	74	74	74	74	74											
3.6	Bridge Decks																74	74	74	74	74	74	74		
3.7	Road Works																					72	72		
<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)		76	76	76	80	80	80	82	82	82	82	82	82	82	82	76	76	76	76	76	76	78	78	0	0
Exceedance		1	1	1	5	5	5	7	7	7	7	7	7	7	7	1	1	1	1	1	1	3	3	-	-

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 4.2D - Construction Noise Calculation - Unmitigated 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	80	80	80	80	80	80																		
5.2	Road Surface Cleaning							75	75	75	75	75	75	75	75	75									
5.3	Road Surface Paving																77	77	77	77	77	77	77		
5.4	Road Surface Compaction																76	76	76	76	76	76	76		
Total SPL, dB(A)		80	80	80	80	80	80	75	75	75	75	75	75	75	75	75	80	80	80	80	80	80	80		
Exceedance		5	5	5	5	5	5	-	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5		

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 4.2D - Construction Noise Calculation - Unmitigated 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	84	84	84	84	84	84																		
5.2	Road Surface Cleaning							80	80	80	80	80	80	80	80	80	80								
5.3	Road Surface Paving																	82	82	82	82	82	82	82	
5.4	Road Surface Compaction																	81	81	81	81	81	81	81	
Total SPL, dB(A)		84	84	84	84	84	84	80	80	80	80	80	80	80	80	80	84	84	84	84	84	84	84		
Exceedance		9	9	9	9	9	9	5	5	5	5	5	5	5	5	5	9	9	9	9	9	9	9		

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 4.2D - Construction Noise Calculation - Unmitigated 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	72	72	72	72	72	72																		
5.2	Road Surface Cleaning							67	67	67	67	67	67	67	67	67									
5.3	Road Surface Paving																69	69	69	69	69	69	69		
5.4	Road Surface Compaction																68	68	68	68	68	68	68		
Total SPL, dB(A)		72	72	72	72	72	72	67	67	67	67	67	67	67	67	67	72	72	72	72	72	72	72		
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 4.2D - Construction Noise Calculation - Unmitigated 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	79	79	79	79	79	79																		
5.2	Road Surface Cleaning							74	74	74	74	74	74	74	74	74									
5.3	Road Surface Paving																76	76	76	76	76	76	76	76	
5.4	Road Surface Compaction																75	75	75	75	75	75	75	75	
Total SPL, dB(A)		79	79	79	79	79	79	74	74	74	74	74	74	74	74	74	79	79	79	79	79	79	79		
Exceedance		4	4	4	4	4	4	-	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4		

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 4.2D - Construction Noise Calculation - Unmitigated 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	71	71	71	71	71	71																		
5.2	Road Surface Cleaning							66	66	66	66	66	66	66	66	66									
5.3	Road Surface Paving																68	68	68	68	68	68	68		
5.4	Road Surface Compaction																67	67	67	67	67	67	67		
Total SPL, dB(A)		71	71	71	71	71	71	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66		
Exceedance		1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

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 4.2D - Construction Noise Calculation - Unmitigated 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	71	71	71	71	71	71																		
5.2	Road Surface Cleaning							66	66	66	66	66	66	66	66	66									
5.3	Road Surface Paving																68	68	68	68	68	68	68		
5.4	Road Surface Compaction																67	67	67	67	67	67	67		
Total SPL, dB(A)		71	71	71	71	71	71	66	66	66	66	66	66	66	66	66	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 4.2D - Construction Noise Calculation - Unmitigated 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	74	74	74	74	74	74																		
5.2	Road Surface Cleaning							69	69	69	69	69	69	69	69	69									
5.3	Road Surface Paving																71	71	71	71	71	71	71		
5.4	Road Surface Compaction																70	70	70	70	70	70	70		
Total SPL, dB(A)		74	74	74	74	74	74	69	69	69	69	69	69	69	69	69	74	74	74	74	74	74	74		
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 4.2D - Construction Noise Calculation - Unmitigated 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	82	82	82	82	82	82																		
5.2	Road Surface Cleaning							77	77	77	77	77	77	77	77	77									
5.3	Road Surface Paving																79	79	79	79	79	79	79		
5.4	Road Surface Compaction																78	78	78	78	78	78	78		
Total SPL, dB(A)		82	82	82	82	82	82	77	77	77	77	77	77	77	77	77	82	82	82	82	82	82	82		
Exceedance		7	7	7	7	7	7	2	2	2	2	2	2	2	2	2	7	7	7	7	7	7	7		

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.