

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
1	Zone 1							
	Activity 1 - D Walling							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	30%	110		
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107		
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	88		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
	Grout Mixer	[1]	90	1	60%	88		
	Water pump, submersible (electric)	CNP 283	85	2	60%	86		
	Dump truck	CNP 067	117	1	30%	112		
	Concrete lorry mixer	CNP 044	109	1	30%	104		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
						Total SWL, dB (A)	116	
	Activity 2 - Bored Piling							
	Group 1							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	30%	107		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110		
	Piling Rig	[2]	112	1	60%	110		
	Drill Rig	[1]	110	1	60%	108		
	Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	113		
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	98		
	Piling, large diameter bored, oscillator	CNP 165	115	1	60%	113		
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
	Grout Mixer	[1]	90	1	60%	88		
	Grout Pump	[1]	105	1	60%	103		
	Bar bender and cutter (electric)	CNP 021	90	1	60%	88		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
	Dump truck	CNP 067	117	1	30%	112		
	Concrete lorry mixer	CNP 044	109	1	30%	104		
	Welding Set	[2]	78	2	60%	79		
						Total SWL, dB (A)	120	
	Group 2							
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	105		
	Piling Rig	[2]	112	1	60%	100		
	Drill Rig	[1]	110	1	60%	98		
	Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	103		
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	88		
	Piling, large diameter bored, oscillator	CNP 165	115	1	60%	103		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	30%	102		
	Grout Mixer	[1]	90	1	60%	78		
	Grout Pump	[1]	105	1	60%	93		
	Bar bender and cutter (electric)	CNP 021	90	1	60%	78		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	85		
						Total SWL, dB (A)	110	
						Maximum SWL, dB (A) of Activity 2	120	
2	Zone 2							
	Activity 1 - D Walling							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113		
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107		
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	88		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113		
	Grout Mixer	[1]	90	1	60%	88		
	Water pump, submersible (electric)	CNP 283	85	1	60%	83		
	Dump truck	CNP 067	117	1	30%	112		
	Concrete lorry mixer	CNP 044	109	1	60%	107		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
						Total SWL, dB (A)	118	
	Activity 2 - Bored Piling							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110		
	Piling Rig	[2]	112	2	60%	113		
	Drill Rig	[1]	110	2	60%	111		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113		
	Piling, large diameter bored, grab and chisel	CNP 164	115	2	60%	116		
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	60%	101		
	Piling, large diameter bored, oscillator	CNP 165	115	2	60%	116		
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107		
	Grout Mixer	[1]	90	2	60%	91		
	Grout Pump	[1]	105	2	60%	106		
	Bar bender and cutter (electric)	CNP 021	90	2	60%	91		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Dump truck	CNP 067	117	1	30%	112		
	Concrete lorry mixer	CNP 044	109	1	60%	107		
	Welding Set	[2]	78	2	60%	79		
						Total SWL, dB (A)	123	
	3	Zone 3						
		Activity 1 - D Walling						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116	
		Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110	
		Piling, diaphragm wall, hydraulic extractor	CNP 163	90	2	60%	91	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116	
		Grout Mixer	[1]	90	2	60%	91	
		Water pump, submersible (electric)	CNP 283	85	3	60%	88	
		Dump truck	CNP 067	117	2	30%	115	
		Concrete lorry mixer	CNP 044	109	2	60%	110	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
							Total SWL, dB (A)	121
		4	Park Construction - Zone A					
			Activity 1 - Park Construction [3]					
Dump truck			CNP 067	117	2	60%	118	
Crane, mobile/ barge mounted (diesel)			CNP 048	112	2	60%	113	
Excavator/ loader, wheeled/ tracked	CNP 081		112	2	60%	113		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103		95	2	100%	98		
Lorry	CNP 141	112	2	60%	113			
					Total SWL, dB (A)	121		

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
	Activity 2 - Superstructure [3]						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =<= 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
	Water pump (electric)	CNP 281	88	3	30%	88	
	Excavator, wheeled/tracked	CNP 081	112	3	30%	112	
	Fork Lift Truck	[2]	104	3	30%	104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
	Total SWL, dB (A)						118
	Maximum SWL, dB (A)						121
5	ICC Footbridge						
	Group 1						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	102	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	100%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =<= 38 tonne	[1]	105	1	70%	103	
	Bar bender and cutter (electric)	CNP 021	90	1	80%	89	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Group 2						
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	103	
	Concrete lorry mixer	CNP 044	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102	
	Grout pump	[1]	105	1	20%	98	
	Saw, circular, wood	CNP 201	108	1	80%	107	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
Total SWL, dB (A)						115	
Maximum SWL, dB (A)						115	
6	East Concrete Batching Plant (Operation)						
	Group 1						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Batching plant	CNP 022	108	1	60%	106	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108	
	Total SWL, dB (A)						115
	Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
Batching plant	CNP 022	108	1	60%	106		
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103		
Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108		
Total SWL, dB (A)						115	
Maximum SWL, dB (A)						115	
7	Barging Points						
	Derrick barge	CNP 061	104	1	60%	102	
	Tug boat	CNP 221	110	1	60%	108	
	Dump truck	CNP 067	117	6	30%	120	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Conveyor belt	CNP 041	90	1	60%	88	
Total SWL, dB (A)						120	
8/9	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						112
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						117
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
Concrete lorry mixer	CNP 044	109	2	60%	110		
Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
Tug boat	CNP 221	110	1	60%	108		
Total SWL, dB (A)						117	
Maximum SWL, dB (A)						117	
10	Viewing Platform (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						113
	Group 2						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

[3] Activities Park Construction and Superstructure in Zone A are at same period but will not be carried out simultaneously.

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014							
						10	11	12	1	2	3					
1) Zone 1																
Activity 1 - D Walling	116	476	-62	3	58		58	58	58	58						
Activity 2 - Bored Piling	120	476	-62	3	61					61	61	61				
2) Zone 2																
Activity 1 - D Walling																
Zone 2.1	118	79	-46	3	75					75	75	75				
Zone 2.2	118	79	-46	3	75					75	75	75				
Zone 2.3	118	203	-54	3	67					67	67	67				
Zone 2.4	118	277	-57	3	64					64	64	64				
Activity 2 - Bored Piling																
Zone 2.1	123	79	-46	3	80							80				
Zone 2.2	123	79	-46	3	80							80				
Zone 2.3	123	203	-54	3	72							72				
Zone 2.4	123	277	-57	3	69							69				
3) Zone 3																
Activity 1 - D Walling	121	272	-57	3	67							67				
4) Park Construction - Zone A																
	121	576	-63	3	61		61	61	61	61	61	61				
5) ICC Footbridge																
	115	211	-54	3	64		64	64	64	64	64	64				
6) East Concrete Batching Plant (Operation)																
	115	461	-61	3	57					57	57	57				
7) Barging Point (BP)																
BP4	120	307	-58	3	66		66	66	66	66	66	66				
BP5	120	327	-58	3	65		65	65	65	65	65	65				
BP6	120	506	-62	3	61		61	61	61	61	61	61				
BP7	120	616	-64	3	60		60	60	60	60	60	60				
8) West Pier (Optional)																
	117	846	-67	3	54		54	54	54	54	54	54				
9) South Pier (Optional)																
	117	347	-59	3	62		62	62	62	62	62	62				
10) Viewing Platform (Optional)																
	115	342	-59	3	59		59	59	59	59	59	59				
Predicted Noise Level of this Project, dB (A)							72	72	72	80	79	85				
Predicted Noise Level of Express Rail Link, dB(A)¹							70	66	62	70	65	62				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							70	70	70	70	70	70				
Overall Cumulative Noise Level, dB(A)																
													2013	2014		
													Min	Max	Min	Max
													74	76	80	85

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK9 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Predicted Noise Levels are referred to NSR Arch4 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014					
						10	11	12	1	2	3			
1) Zone 1														
Activity 1 - D Walling	116	392	-60	3	59		59	59	59					
Activity 2 - Bored Piling	120	392	-60	3	63					63	63			
2) Zone 2														
Activity 1 - D Walling														
Zone 2.1	118	130	-50	3	71					71	71			
Zone 2.2	118	72	-45	3	76					76	76			
Zone 2.3	118	169	-53	3	68					68	68			
Zone 2.4	118	302	-58	3	63					63	63			
Activity 2 - Bored Piling														
Zone 2.1	123	130	-50	3	75						75			
Zone 2.2	123	72	-45	3	81						81			
Zone 2.3	123	169	-53	3	73						73			
Zone 2.4	123	302	-58	3	68						68			
3) Zone 3														
Activity 1 - D Walling	121	362	-59	3	65						65			
4) Park Construction - Zone A														
	121	651	-64	3	59		59	59	59	59	59			
5) ICC Footbridge														
	115	299	-58	3	61		61	61	61	61	61			
6) East Concrete Batching Plant (Operation)														
	115	377	-60	3	59					59	59			
7) Barging Point (BP)														
BP4	120	357	-59	3	64		64	64	64	64	64			
BP5	120	387	-60	3	64		64	64	64	64	64			
BP6	120	576	-63	3	60		60	60	60	60	60			
BP7	120	691	-65	3	59		59	59	59	59	59			
8) West Pier (Optional)														
	117	936	-67	3	53		53	53	53	53	53			
9) South Pier (Optional)														
	117	397	-60	3	60		60	60	60	60	60			
10) Viewing Platform (Optional)														
	115	297	-57	3	61		61	61	61	61	61			
Predicted Noise Level of this Project, dB (A)							71	71	71	79	79	84		
Predicted Noise Level of Express Rail Link, dB(A)¹							74	73	69	74	71	69		
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							69	69	69	69	69	69		
Overall Cumulative Noise Level, dB(A)							77	76	74	80	80	84	74	77
													2013	2014
													Min	Max
													Min	Max

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK14 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Predicted Noise Levels are referred to NSR Arch2b in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014							
						10	11	12	1	2	3					
1) Zone 1																
Activity 1 - D Walling	116	95	-48	3	72		72	72	72							
Activity 2 - Bored Piling	120	95	-48	3	75					75	75					
2) Zone 2																
Activity 1 - D Walling																
Zone 2.1	118	640	-64	3	57					57	57					
Zone 2.2	118	465	-61	3	60					60	60					
Zone 2.3	118	740	-65	3	56					56	56					
Zone 2.4	118	500	-62	3	59					59	59					
Activity 2 - Bored Piling																
Zone 2.1	123	640	-64	3	62						62					
Zone 2.2	123	465	-61	3	64						64					
Zone 2.3	123	740	-65	3	60						60					
Zone 2.4	123	500	-62	3	64						64					
3) Zone 3																
Activity 1 - D Walling	121	905	-67	3	57						57					
4) Park Construction - Zone A																
	121	1107	-69	3	55		55	55	55	55	55					
5) ICC Footbridge																
	115	840	-66	3	52		52	52	52	52	52					
6) East Concrete Batching Plant (Operation)																
	115	215	-55	3	63					63	63					
7) Barging Point (BP)																
BP4	120	805	-66	3	57		57	57	57	57	57					
BP5	120	850	-67	3	57		57	57	57	57	57					
BP6	120	1060	-69	3	55		55	55	55	55	55					
BP7	120	1160	-69	3	54		54	54	54	54	54					
8) West Pier (Optional)																
	117	1475	-71	3	49		49	49	49	49	49					
9) South Pier (Optional)																
	117	845	-67	3	54		54	54	54	54	54					
10) Viewing Platform (Optional)																
	115	508	-62	3	56		56	56	56	56	56					
Predicted Noise Level of this Project, dB (A)							72	72	72	78	76	77				
Predicted Noise Level of Express Rail Link, dB(A)¹							66	63	60	66	58	56				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							64	64	64	64	64		2013	2014		
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³										46	63	Min	Max	Min	Max	
Overall Cumulative Noise Level, dB(A)							74	73	73	78	77	77	73	74	77	78

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK5 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR WN in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009).
- 3) Predicted Noise Levels are referred to NSR WOB in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014		
						10	11	12	1	2	3
1) Zone 1											
Activity 1 - D Walling	116	70	-45	3	74		74	74	74	74	
Activity 2 - Bored Piling	120	70	-45	3	78					78	78
2) Zone 2											
Activity 1 - D Walling											
Zone 2.1	118	626	-64	3	57					57	57
Zone 2.2	118	462	-61	3	60					60	60
Zone 2.3	118	462	-61	3	60					60	60
Zone 2.4	118	691	-65	3	56					56	56
Activity 2 - Bored Piling											
Zone 2.1	123	626	-64	3	62						62
Zone 2.2	123	462	-61	3	64						64
Zone 2.3	123	462	-61	3	64						64
Zone 2.4	123	691	-65	3	61						61
3) Zone 3											
Activity 1 - D Walling	121	886	-67	3	57						57
4) Park Construction - Zone A											
	121	1042	-68	3	55		55	55	55	55	55
5) ICC Footbridge											
	115	827	-66	3	52		52	52	52	52	52
6) East Concrete Batching Plant (Operation)											
	115	158	-52	3	66					66	66
7) Barging Point (BP)											
BP4	120	751	-66	3	58		58	58	58	58	58
BP5	120	799	-66	3	57		57	57	57	57	57
BP6	120	1001	-68	3	55		55	55	55	55	55
BP7	120	1093	-69	3	55		55	55	55	55	55
8) West Pier (Optional)											
	117	1451	-71	3	49		49	49	49	49	49
9) South Pier (Optional)											
	117	786	-66	3	54		54	54	54	54	54
10) Viewing Platform (Optional)											
	115	422	-61	3	58		58	58	58	58	58
Predicted Noise Level of this Project, dB (A)							75	75	75	80	79
Predicted Noise Level of Express Rail Link, dB(A)¹							68	65	64	67	61
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							60	60	60	60	60
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³										42	59
Overall Cumulative Noise Level, dB(A)							76	75	75	80	79
										75	76
										79	80
										2013	2014
										Min	Max
										Min	Max

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Predicted Noise Levels are referred to NSR VT1 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCDA starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCDA starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014							
						10	11	12	1	2	3					
1) Zone 1																
Activity 1 - D Walling	116	74	-45	3	74		74	74	74	74						
Activity 2 - Bored Piling	120	74	-45	3	78					78	78	78				
2) Zone 2																
Activity 1 - D Walling																
Zone 2.1	118	641	-64	3	57					57	57	57				
Zone 2.2	118	482	-62	3	59					59	59	59				
Zone 2.3	118	487	-62	3	59					59	59	59				
Zone 2.4	118	716	-65	3	56					56	56	56				
Activity 2 - Bored Piling																
Zone 2.1	123	641	-64	3	62							62				
Zone 2.2	123	482	-62	3	64							64				
Zone 2.3	123	487	-62	3	64							64				
Zone 2.4	123	716	-65	3	61							61				
3) Zone 3																
Activity 1 - D Walling	121	901	-67	3	57							57				
4) Park Construction - Zone A																
	121	1068	-69	3	55		55	55	55	55	55	55				
5) ICC Footbridge																
	115	846	-67	3	52		52	52	52	52	52	52				
6) East Concrete Batching Plant (Operation)																
	115	183	-53	3	65					65	65	65				
7) Barging Point (BP)																
BP4	120	781	-66	3	57		57	57	57	57	57	57				
BP5	120	831	-66	3	57		57	57	57	57	57	57				
BP6	120	1036	-68	3	55		55	55	55	55	55	55				
BP7	120	1131	-69	3	54		54	54	54	54	54	54				
8) West Pier (Optional)																
	117	1471	-71	3	49		49	49	49	49	49	49				
9) South Pier (Optional)																
	117	816	-66	3	54		54	54	54	54	54	54				
10) Viewing Platform (Optional)																
	115	462	-61	3	57		57	57	57	57	57	57				
Predicted Noise Level of this Project, dB (A)							74	74	74	80	78	79	74	74	78	80
Predicted Noise Level of Express Rail Link, dB(A)¹							68	65	64	67	61	59				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							60	60	60	60	60	60			2013	2014
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³											43	58	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)							75	75	75	80	78	79	75	75	78	80

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Predicted Noise Levels are referred to NSR VT2 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014							
						10	11	12	1	2	3					
1) Zone 1																
Activity 1 - D Walling	116	75	-46	3	74											
Activity 2 - Bored Piling	120	75	-46	3	77											
2) Zone 2																
Activity 1 - D Walling																
Zone 2.1	118	640	-64	3	57					57	57	57				
Zone 2.2	118	475	-62	3	59					59	59	59				
Zone 2.3	118	465	-61	3	60					60	60	60				
Zone 2.4	118	685	-65	3	56					56	56	56				
Activity 2 - Bored Piling																
Zone 2.1	123	640	-64	3	62							62				
Zone 2.2	123	475	-62	3	64							64				
Zone 2.3	123	465	-61	3	64							64				
Zone 2.4	123	685	-65	3	61							61				
3) Zone 3																
Activity 1 - D Walling	121	900	-67	3	57							57				
4) Park Construction - Zone A																
	121	1046	-68	3	55		55	55	55	55	55	55				
5) ICC Footbridge																
	115	843	-67	3	52		52	52	52	52	52	52				
6) East Concrete Batching Plant (Operation)																
	115	160	-52	3	66					66	66	66				
7) Barging Point (BP)																
BP4	120	750	-66	3	58		58	58	58	58	58	58				
BP5	120	795	-66	3	57		57	57	57	57	57	57				
BP6	120	993	-68	3	55		55	55	55	55	55	55				
BP7	120	1083	-69	3	55		55	55	55	55	55	55				
8) West Pier (Optional)																
	117	1455	-71	3	49		49	49	49	49	49	49				
9) South Pier (Optional)																
	117	780	-66	3	55		55	55	55	55	55	55				
10) Viewing Platform (Optional)																
	115	398	-60	3	58		58	58	58	58	58	58				
Predicted Noise Level of this Project, dB (A)							74	74	74	80	78	79	74	74	78	80
Predicted Noise Level of Express Rail Link, dB(A)¹							67	62	62	66	60	58				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							60	60	60	60	60					
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³													41	62	Min	Max
Overall Cumulative Noise Level, dB(A)							75	75	75	80	78	79	75	75	78	80

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCDA starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCDA starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014					
						10	11	12	1	2	3			
1) Zone 1														
Activity 1 - D Walling	116	90	-47	3	72									
Activity 2 - Bored Piling	120	90	-47	3	76									
2) Zone 2														
Activity 1 - D Walling														
Zone 2.1	118	645	-64	3	57					57	57	57		
Zone 2.2	118	480	-62	3	59					59	59	59		
Zone 2.3	118	470	-61	3	60					60	60	60		
Zone 2.4	118	685	-65	3	56					56	56	56		
Activity 2 - Bored Piling														
Zone 2.1	123	645	-64	3	61							61		
Zone 2.2	123	480	-62	3	64							64		
Zone 2.3	123	470	-61	3	64							64		
Zone 2.4	123	685	-65	3	61							61		
3) Zone 3														
Activity 1 - D Walling	121	905	-67	3	57							57		
4) Park Construction - Zone A														
	121	1065	-69	3	55		55	55	55	55	55	55		
5) ICC Footbridge														
	115	847	-67	3	52		52	52	52	52	52	52		
6) East Concrete Batching Plant (Operation)														
	115	170	-53	3	65					65	65	65		
7) Barging Point (BP)														
BP4	120	745	-65	3	58		58	58	58	58	58	58		
BP5	120	795	-66	3	57		57	57	57	57	57	57		
BP6	120	993	-68	3	55		55	55	55	55	55	55		
BP7	120	1080	-69	3	55		55	55	55	55	55	55		
8) West Pier (Optional)														
	117	1455	-71	3	49		49	49	49	49	49	49		
9) South Pier (Optional)														
	117	775	-66	3	55		55	55	55	55	55	55		
10) Viewing Platform (Optional)														
	115	400	-60	3	58		58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)							73	73	73	78	77	78		
Predicted Noise Level of Express Rail Link, dB(A)¹							67	62	62	66	60	58		
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							60	60	60	60	60	60	2013	2014
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³											41	60	Min	Max
Overall Cumulative Noise Level, dB(A)							74	73	73	78	77	78	73	74

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Predicted Noise Levels are referred to NSR CGPS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCDA starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCDA starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014							
						10	11	12	1	2	3					
1) Zone 1																
Activity 1 - D Walling	116	54	-43	3	77		77	77	77							
Activity 2 - Bored Piling	120	54	-43	3	80				80	80	80					
2) Zone 2																
Activity 1 - D Walling																
Zone 2.1	118	540	-63	3	58					58	58	58				
Zone 2.2	118	371	-59	3	62					62	62	62				
Zone 2.3	118	366	-59	3	62					62	62	62				
Zone 2.4	118	580	-63	3	58					58	58	58				
Activity 2 - Bored Piling																
Zone 2.1	123	587	-63	3	62							62				
Zone 2.2	123	419	-60	3	65							65				
Zone 2.3	123	422	-61	3	65							65				
Zone 2.4	123	614	-64	3	62							62				
3) Zone 3																
Activity 1 - D Walling	121	795	-66	3	58							58				
4) Park Construction - Zone A																
	121	996	-68	3	56		56	56	56	56	56	56				
5) ICC Footbridge																
	115	744	-65	3	53		53	53	53	53	53	53				
6) East Concrete Batching Plant (Operation)																
	115	68	-45	3	73					73	73	73				
7) Barging Point (BP)																
BP4	120	650	-64	3	59		59	59	59	59	59	59				
BP5	120	695	-65	3	58		58	58	58	58	58	58				
BP6	120	900	-67	3	56		56	56	56	56	56	56				
BP7	120	985	-68	3	55		55	55	55	55	55	55				
8) West Pier (Optional)																
	117	1350	-71	3	50		50	50	50	50	50	50				
9) South Pier (Optional)																
	117	680	-65	3	56		56	56	56	56	56	56				
10) Viewing Platform (Optional)																
	115	291	-57	3	61		61	61	61	61	61	61				
Predicted Noise Level of this Project, dB (A)							77	77	77	83	81	82	77	77	81	83
Predicted Noise Level of Express Rail Link, dB(A)¹							74	72	72	73	70	69				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²							60	60	60	60	60	60				
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³											41	62	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)							79	78	78	83	82	82	78	79	82	83

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCDA starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCDA starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2013			2014								
						10	11	12	1	2	3						
1) Zone 1																	
Activity 1 - D Walling	116	676	-65	3	55		55	55	55	55							
Activity 2 - Bored Piling	120	675	-65	3	58					58	58	58					
2) Zone 2																	
Activity 1 - D Walling																	
Zone 2.1	118	337	-59	3	62					62	62	62					
Zone 2.2	118	337	-59	3	62					62	62	62					
Zone 2.3	118	511	-62	3	59					59	59	59					
Zone 2.4	118	476	-62	3	59					59	59	59					
Activity 2 - Bored Piling																	
Zone 2.1	123	336	-59	3	67							67					
Zone 2.2	123	336	-59	3	67							67					
Zone 2.3	123	510	-62	3	64							64					
Zone 2.4	123	475	-62	3	64							64					
3) Zone 3																	
Activity 1 - D Walling	121	347	-59	3	65							65					
4) Park Construction - Zone A																	
	121	675	-65	3	59		59	59	59	59	59	59					
5) ICC Footbridge																	
	115	272	-57	3	62		62	62	62	62	62	62					
6) East Concrete Batching Plant (Operation)																	
	115	703	-65	3	53					53	53	53					
7) Barging Point (BP)																	
BP4	120	451	-61	3	62		62	62	62	62	62	62					
BP5	120	461	-61	3	62		62	62	62	62	62	62					
BP6	120	611	-64	3	60		60	60	60	60	60	60					
BP7	120	726	-65	3	58		58	58	58	58	58	58					
8) West Pier (Optional)																	
	117	826	-66	3	54		54	54	54	54	54	54					
9) South Pier (Optional)																	
	117	476	-62	3	59		59	59	59	59	59	59					
10) Viewing Platform (Optional)																	
	115	561	-63	3	55		55	55	55	55	55	55					
Predicted Noise Level of this Project, dB (A)							69	69	69	72	72	75	69	69	72	75	
Predicted Noise Level of Express Rail Link, dB(A)¹																	
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																	
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³												72	72	Min	Max	Min	Max
Overall Cumulative Noise Level, dB(A)							69	69	69	72	75	77	69	69	72	77	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Express Rail Link" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 2) Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Road Works at West Kowloon" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 3) Predicted Noise Levels are referred to NSR SRT in Appendix 2.4 of Preliminary Environmental Review Report - Scheme H, I & J of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)			
1	Zone 1								
	Activity 3 - Excavation								
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113			
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107			
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98			
	Dump truck	CNP 067	117	3	30%	117			
	Total SWL, dB (A)						119		
	Activity 4 - Basement and Underpass								
	Crane, tower (electric)	CNP 049	95	1	50%	92			
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112			
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105			
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109			
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109			
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98			
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104			
	Concrete lorry mixer	CNP 044	109	2	50%	109			
	Total SWL, dB (A)						117		
	Activity 5 - Superstructure								
	Crane, tower (electric)	CNP 049	95	1	50%	92			
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112			
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105			
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109			
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106			
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90			
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100			
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104			
	Concrete lorry mixer	CNP 044	109	2	50%	109			
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100			
	Water pump (electric)	CNP 281	88	3	30%	88			
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112			
	Fork Lift Truck	[2]	104	3	30%	104			
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95			
	Total SWL, dB (A)						118		
	2a	Zone 2 (for area with less plant) [3]							
		Activity 1 - D Walling							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
		Total SWL, dB (A)						113	
		Activity 2 - Bored Piling							
		Group 1							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	30%	107		
		Piling Rig	[2]	112	1	60%	110		
		Drill Rig	[1]	110	1	60%	108		
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
		Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	113		
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	98		
		Piling, large diameter bored, oscillator	CNP 165	115	1	60%	113		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
		Welding Set	[2]	78	1	60%	76		
		Total SWL, dB (A)						119	
		Group 2							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
		Grout Mixer	[1]	90	1	60%	88		
		Grout Pump	[1]	105	1	60%	103		
		Bar bender and cutter (electric)	CNP 021	90	1	60%	88		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
		Total SWL, dB (A)						111	
		Maximum SWL, dB (A) of Activity 2						119	
		Activity 3 - Excavation							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
		Dump truck	CNP 067	117	1	30%	112		
		Total SWL, dB (A)						116	
		Activity 4 - Basement and Underpass							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103		
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107		
		Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107		
		Bar bender and cutter (electric)	CNP 021	90	1	60%	88		
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
		Concrete lorry mixer	CNP 044	109	1	60%	107		
		Total SWL, dB (A)						114	
		2b	Zone 2 (for area with more plant) [3]						
			Activity 1 - D Walling						
			Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
			Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
			Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	88	
			Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
			Grout Mixer	[1]	90	1	60%	88	
			Water pump, submersible (electric)	CNP 283	85	1	60%	83	
			Dump truck	CNP 067	117	1	30%	112	
			Concrete lorry mixer	CNP 044	109	1	60%	107	
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
			Total SWL, dB (A)						116

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
Activity 2 - Bored Piling						
Group 1						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	30%	107
	Piling Rig	[2]	112	1	60%	110
	Drill Rig	[1]	110	1	60%	108
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
	Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	113
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	98
	Piling, large diameter bored, oscillator	CNP 165	115	1	60%	113
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Welding Set	[2]	78	1	60%	76
Total SWL, dB (A)						119
Group 2						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
	Grout Mixer	[1]	90	1	60%	88
	Grout Pump	[1]	105	1	60%	103
	Bar bender and cutter (electric)	CNP 021	90	1	60%	88
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Dump truck	CNP 067	117	1	30%	112
	Concrete lorry mixer	CNP 044	109	1	60%	107
Total SWL, dB (A)						115
Maximum SWL, dB (A) of Activity 2						119
Activity 3 - Excavation						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Dump truck	CNP 067	117	2	30%	115
Total SWL, dB (A)						117
Activity 4 - Basement and Underpass						
	Crane, tower (electric)	CNP 049	95	1	60%	93
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107
	Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107
	Bar bender and cutter (electric)	CNP 021	90	1	60%	88
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Concrete lorry mixer	CNP 044	109	1	60%	107
Total SWL, dB (A)						115
3	Zone 3					
Activity 1 - D Walling						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	2	60%	91
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116
	Grout Mixer	[1]	90	2	60%	91
	Water pump, submersible (electric)	CNP 283	85	3	60%	88
	Dump truck	CNP 067	117	2	30%	115
	Concrete lorry mixer	CNP 044	109	2	60%	110
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
Total SWL, dB (A)						121
Activity 2 - Bored Piling						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	30%	113
	Piling Rig	[2]	112	4	60%	116
	Drill Rig	[1]	110	4	60%	114
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116
	Piling, large diameter bored, grab and chisel	CNP 164	115	4	60%	119
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	4	60%	104
	Piling, large diameter bored, oscillator	CNP 165	115	4	60%	119
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110
	Grout Mixer	[1]	90	4	60%	94
	Grout Pump	[1]	105	4	60%	109
	Bar bender and cutter (electric)	CNP 021	90	4	60%	94
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101
	Dump truck	CNP 067	117	2	30%	115
	Concrete lorry mixer	CNP 044	109	2	60%	110
	Welding Set	[2]	78	4	60%	82
Total SWL, dB (A)						126
4	Park Construction - Zone A					
Activity 1 - Park Construction [4]						
	Dump truck	CNP 067	117	2	60%	118
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
	Lorry	CNP 141	112	2	60%	113
Total SWL, dB (A)						121
Activity 2 - Superstructure [4]						
	Crane, tower (electric)	CNP 049	95	1	50%	92
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Concrete lorry mixer	CNP 044	109	2	50%	109
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100
	Water pump (electric)	CNP 281	88	3	30%	88
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112
	Fork Lift Truck	[2]	104	3	30%	104
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95
Total SWL, dB (A)						118
Maximum SWL, dB (A)						121

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
5/6	ICC Footbridge / Flyover						
	Group 1						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	102	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	100%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight <= 38 tonne	[1]	105	1	70%	103	
	Bar bender and cutter (electric)	CNP 021	90	1	80%	89	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Group 2						
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	103	
	Concrete lorry mixer	CNP 044	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102	
	Grout pump	[1]	105	1	20%	98	
	Saw, circular, wood	CNP 201	108	1	80%	107	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115
	7	East Concrete Batching Plant (Operation)					
		Group 1					
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
		Concrete mixer (electric)	CNP 045	96	1	60%	94
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	60%	96	
Concrete mixer (petrol)		CNP 046	96	3	60%	99	
Concrete lorry mixer		CNP 044	109	2	60%	110	
Batching plant		CNP 022	108	1	60%	106	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	2	60%	103	
Tipper Lorry		BS 5228 Table D.3/112	113	1	30%	108	
Total SWL, dB (A)						115	
Group 2							
Excavator/ loader, wheeled/ tracked		CNP 081	112	1	60%	110	
Concrete mixer (electric)		CNP 045	96	1	60%	94	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	60%	96	
Concrete mixer (petrol)		CNP 046	96	3	60%	99	
Concrete lorry mixer		CNP 044	109	2	60%	110	
Batching plant		CNP 022	108	1	60%	106	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	2	60%	103	
Tipper Lorry		BS 5228 Table D.3/112	113	1	30%	108	
Total SWL, dB (A)						115	
Maximum SWL, dB (A)						115	
8		Barging Points					
	Derrick barge	CNP 061	104	1	60%	102	
	Tug boat	CNP 221	110	1	60%	108	
	Dump truck	CNP 067	117	6	30%	120	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Conveyor belt	CNP 041	90	1	60%	88	
Total SWL, dB (A)						120	
9/10	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						112
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						117
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
Total SWL, dB (A)						117	
Maximum SWL, dB (A)						117	
11	Viewing Platform (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						113
	Group 2						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
 [2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009).
 [3] More plant have been assumed at the zones near the NSR for conservative approach.
 [4] Activities Park Construction and Superstructure in Zone A are at same period but will not be carried out simultaneously.

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7
1) Zone 1																					
Activity 3 - Excavation	119	481	-62	3	61	61	61	61	61												
Activity 4 - Basement and Underpass	117	481	-62	3	58			58	58	58	58										
Activity 5 - Superstructure	118	481	-62	3	59									59	59	59	59				
2) Zone 2																					
Activity 1 - D Walling																					
Zone 2.1	116	79	-46	3	73	73	73	73	73	73											
Zone 2.2	116	79	-46	3	73	73	73	73	73	73											
Zone 2.3	113	174	-53	3	64	64	64	64	64	64											
Zone 2.4	113	327	-58	3	58	58	58	58	58	58											
Zone 2.5	113	377	-60	3	57	57	57	57	57	57											
Zone 2.6	113	277	-57	3	59	59	59	59	59	59											
Zone 2.7	116	253	-56	3	63	63	63	63	63	63											
Zone 2.8	116	267	-57	3	63	63	63	63	63	63											
Activity 2 - Bored Piling																					
Zone 2.1	119	79	-46	3	76	76	76	76	76	76	76	76	76								
Zone 2.2	119	79	-46	3	76	76	76	76	76	76	76	76	76								
Zone 2.3	119	174	-53	3	69	69	69	69	69	69	69	69	69								
Zone 2.4	119	327	-58	3	64	64	64	64	64	64	64	64	64								
Zone 2.5	119	377	-60	3	63	63	63	63	63	63	63	63	63								
Zone 2.6	119	277	-57	3	65	65	65	65	65	65	65	65	65								
Zone 2.7	119	253	-56	3	66	66	66	66	66	66	66	66	66								
Zone 2.8	119	267	-57	3	66	66	66	66	66	66	66	66	66								
Activity 3 - Excavation																					
Zone 2.1	117	116	-49	3	71						71	71	71	71	71	71	71				
Zone 2.2	117	102	-48	3	72						72	72	72	72	72	72	72				
Zone 2.3	116	203	-54	3	65						65	65	65	65	65	65	65				
Zone 2.4	116	357	-59	3	60						60	60	60	60	60	60	60				
Zone 2.5	116	377	-60	3	59						59	59	59	59	59	59	59				
Zone 2.6	116	258	-56	3	62						62	62	62	62	62	62	62				
Zone 2.7	117	179	-53	3	67						67	67	67	67	67	67	67				
Zone 2.8	117	228	-55	3	65						65	65	65	65	65	65	65				
Activity 4 - Basement and Underpass																					
Zone 2.1	115	116	-49	3	68									68	68	68	68				
Zone 2.2	115	102	-48	3	69									69	69	69	69				
Zone 2.3	114	203	-54	3	63									63	63	63	63				
Zone 2.4	114	357	-59	3	58									58	58	58	58				
Zone 2.5	114	377	-60	3	58									58	58	58	58				
Zone 2.6	114	258	-56	3	61									61	61	61	61				
Zone 2.7	115	179	-53	3	65									65	65	65	65				
Zone 2.8	115	228	-55	3	62									62	62	62	62				
3) Zone 3																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	126	272	-57	3	72	72	72	72	72	72	72	72	72	72	72	72	72				
4) Park Construction - Zone A																					
Activity 1 - D Walling	121	576	-63	3	61	61	61	61	61	61	61	61	61	61	61	61	61				
5) ICC Footbridge																					
Activity 1 - D Walling	115	211	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64				
6) Flyover																					
Activity 1 - D Walling	115	287	-57	3	61						61	61	61	61	61	61	61				
7) East Concrete Batching Plant (Operation)																					
Activity 1 - D Walling	115	461	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57				
8) Barqing Point (BP)																					
BP4	120	307	-58	3	66	66	66	66	66	66	66	66	66	66	66	66	66				
BP5	120	327	-58	3	65	65	65	65	65	65	65	65	65	65	65	65	65				
BP6	120	506	-62	3	61	61	61	61	61	61	61	61	61	61	61	61	61				
BP7	120	616	-64	3	60	60	60	60	60	60	60	60	60	60	60	60	60				
9) West Pier (Optional)																					
Activity 1 - D Walling	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
10) South Pier (Optional)																					
Activity 1 - D Walling	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62				
11) Viewing Platform (Optional)																					
Activity 1 - D Walling	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59				
Predicted Noise Level of this Project, dB (A)																					
Predicted Noise Level of Express Rail Link, dB(A)¹																					
Predicted Noise Level of Road Works at West Kowloon, dB(A)²																					
Overall Cumulative Noise Level, dB(A)																					
														2014	2015						
														Min	Max	Min	Max				
														80	84	80	80				
														2014	2015						
														Min	Max	Min	Max				
														80	84	80	80				

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK9 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- Predicted Noise Levels are referred to NSR Arch4 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014										2015		
						4	5	6	7	8	9	10	11	12	1	2	3	
1) Zone 1																		
Activity 3 - Excavation	119	576	-63	3	59	59	59	59	59									
Activity 4 - Basement and Underpass	117	576	-63	3	56			56	56	56	56							
Activity 5 - Superstructure	118	576	-63	3	58								58	58	58	58		
2) Zone 2																		
Activity 1 - D Walling																		
Zone 2.1	116	97	-48	3	71	71	71	71	71	71								
Zone 2.2	116	135	-51	3	69	69	69	69	69	69								
Zone 2.3	113	263	-56	3	60	60	60	60	60	60								
Zone 2.4	113	412	-60	3	56	56	56	56	56	56								
Zone 2.5	113	471	-61	3	55	55	55	55	55	55								
Zone 2.6	113	352	-59	3	57	57	57	57	57	57								
Zone 2.7	116	277	-57	3	62	62	62	62	62	62								
Zone 2.8	116	272	-57	3	63	63	63	63	63	63								
Activity 2 - Bored Piling																		
Zone 2.1	119	97	-48	3	74	74	74	74	74	74	74	74	74	74				
Zone 2.2	119	135	-51	3	71	71	71	71	71	71	71	71	71	71				
Zone 2.3	119	263	-56	3	66	66	66	66	66	66	66	66	66	66				
Zone 2.4	119	412	-60	3	62	62	62	62	62	62	62	62	62	62				
Zone 2.5	119	471	-61	3	61	61	61	61	61	61	61	61	61	61				
Zone 2.6	119	352	-59	3	63	63	63	63	63	63	63	63	63	63				
Zone 2.7	119	277	-57	3	65	65	65	65	65	65	65	65	65	65				
Zone 2.8	119	272	-57	3	65	65	65	65	65	65	65	65	65	65				
Activity 3 - Excavation																		
Zone 2.1	117	111	-49	3	71					71	71	71	71	71	71	71		
Zone 2.2	117	169	-53	3	68					68	68	68	68	68	68	68		
Zone 2.3	116	302	-58	3	61					61	61	61	61	61	61	61		
Zone 2.4	116	446	-61	3	58					58	58	58	58	58	58	58		
Zone 2.5	116	456	-61	3	57					57	57	57	57	57	57	57		
Zone 2.6	116	342	-59	3	60					60	60	60	60	60	60	60		
Zone 2.7	117	228	-55	3	65					65	65	65	65	65	65	65		
Zone 2.8	117	208	-54	3	66					66	66	66	66	66	66	66		
Activity 4 - Basement and Underpass																		
Zone 2.1	115	111	-49	3	69								69	69	69	69		
Zone 2.2	115	169	-53	3	65								65	65	65	65		
Zone 2.3	114	302	-58	3	60								60	60	60	60		
Zone 2.4	114	446	-61	3	56								56	56	56	56		
Zone 2.5	114	456	-61	3	56								56	56	56	56		
Zone 2.6	114	342	-59	3	58								58	58	58	58		
Zone 2.7	115	228	-55	3	62								62	62	62	62		
Zone 2.8	115	208	-54	3	63								63	63	63	63		
3) Zone 3																		
Activity 1 - D Walling																		
Activity 2 - Bored Piling																		
4) Park Construction - Zone A	121	525	-62	3	61	61	61	61	61	61	61	61	61	61	61	61		
5) ICC Footbridge	115	125	-50	3	68	68	68	68	68	68	68	68	68	68	68	68		
6) Flyover	115	198	-54	3	65					65	65	65	65	65	65	65		
7) East Concrete Batching Plant (Operation)	115	554	-63	3	55	55	55	55	55	55	55	55	55	55	55	55		
8) Barqing Point (BP)																		
BP4	120	302	-58	3	66	66	66	66	66	66	66	66	66	66	66	66		
BP5	120	312	-58	3	65	65	65	65	65	65	65	65	65	65	65	65		
BP6	120	461	-61	3	62	62	62	62	62	62	62	62	62	62	62	62		
BP7	120	576	-63	3	60	60	60	60	60	60	60	60	60	60	60	60		
9) West Pier (Optional)	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55		
10) South Pier (Optional)	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62		
11) Viewing Platform (Optional)	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58		

Predicted Noise Level of this Project, dB (A)	81	81	81	81	83	82	82	82	80	80	80	80	80	80	80	80
Predicted Noise Level of Express Rail Link, dB(A) ¹	63	63	63								47	47	47	47		
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²	68	67	67	67	67	67	67									
Overall Cumulative Noise Level, dB(A)	81	81	81	81	83	82	82	82	80	80	80	80	80	80	80	80

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK10 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Predicted Noise Levels are referred to NSR HARB2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- 3) Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 4) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 5) Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 3 - Excavation	119	391	-60	3	63	63	63	63	63											
Activity 4 - Basement and Underpass	117	391	-60	3	60			60	60	60	60									
Activity 5 - Superstructure	118	391	-60	3	61										61	61	61	61	61	
2) Zone 2																				
Activity 1 - D Walling																				
Zone 2.1	116	130	-50	3	69	69	69	69	69	69										
Zone 2.2	116	73	-45	3	74	74	74	74	74	74										
Zone 2.3	116	96	-48	3	72	72	72	72	72	72										
Zone 2.4	113	228	-55	3	61	61	61	61	61	61										
Zone 2.5	113	312	-58	3	58	58	58	58	58	58										
Zone 2.6	113	247	-56	3	60	60	60	60	60	60										
Zone 2.7	116	252	-56	3	63	63	63	63	63	63										
Zone 2.8	113	302	-58	3	59	59	59	59	59	59										
Activity 2 - Bored Piling																				
Zone 2.1	119	130	-50	3	72	72	72	72	72	72	72	72	72							
Zone 2.2	119	73	-45	3	77	77	77	77	77	77	77	77	77							
Zone 2.3	119	96	-48	3	74	74	74	74	74	74	74	74	74							
Zone 2.4	119	228	-55	3	67	67	67	67	67	67	67	67	67							
Zone 2.5	119	312	-58	3	64	64	64	64	64	64	64	64	64							
Zone 2.6	119	247	-56	3	66	66	66	66	66	66	66	66	66							
Zone 2.7	119	252	-56	3	66	66	66	66	66	66	66	66	66							
Zone 2.8	119	302	-58	3	64	64	64	64	64	64	64	64	64							
Activity 3 - Excavation																				
Zone 2.1	117	178	-53	3	67						67	67	67	67	67	67	67	67	67	
Zone 2.2	117	92	-47	3	73						73	73	73	73	73	73	73	73	73	
Zone 2.3	117	139	-51	3	69						69	69	69	69	69	69	69	69	69	
Zone 2.4	116	257	-56	3	62						62	62	62	62	62	62	62	62	62	
Zone 2.5	116	302	-58	3	61						61	61	61	61	61	61	61	61	61	
Zone 2.6	116	203	-54	3	65						65	65	65	65	65	65	65	65	65	
Zone 2.7	117	188	-53	3	67						67	67	67	67	67	67	67	67	67	
Zone 2.8	116	282	-57	3	62						62	62	62	62	62	62	62	62	62	
Activity 4 - Basement and Underpass																				
Zone 2.1	115	178	-53	3	65										65	65	65	65	65	
Zone 2.2	115	92	-47	3	70										70	70	70	70	70	
Zone 2.3	115	139	-51	3	67										67	67	67	67	67	
Zone 2.4	114	257	-56	3	61										61	61	61	61	61	
Zone 2.5	114	302	-58	3	60										60	60	60	60	60	
Zone 2.6	114	203	-54	3	63										63	63	63	63	63	
Zone 2.7	115	188	-53	3	64										64	64	64	64	64	
Zone 2.8	114	282	-57	3	60										60	60	60	60	60	
3) Zone 3																				
Activity 1 - D Walling	121	362	-59	3	65	65	65	65	65	65	65									
Activity 2 - Bored Piling	126	362	-59	3	70						70	70	70	70	70	70	70	70	70	
4) Park Construction - Zone A																				
ICC Footbridge	115	298	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	
Flyover	115	379	-60	3	59						59	59	59	59	59	59	59	59	59	
East Concrete Batching Plant (Operation)	115	377	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
8) Barqing Point (BP)																				
BP4	120	357	-59	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
BP5	120	387	-60	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
BP6	120	576	-63	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
BP7	120	691	-65	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
9) West Pier (Optional)																				
South Pier (Optional)	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
10) South Pier (Optional)																				
Viewing Platform (Optional)	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	

Predicted Noise Level of this Project, dB (A)	82	82	83	83	84	83	82	83	80	80	80	80	80	80	80	80	80	80	80
Predicted Noise Level of Express Rail Link, dB(A) ¹	69	69	69	64	64	63	63	69	69	69	69	69	69	69	69	69	69	69	69
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²	69	67	67	67	67	67	67												
Overall Cumulative Noise Level, dB(A)	83	83	83	83	84	83	83	83	80	80	80	80	80	80	80	80	80	80	80

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK14 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- Predicted Noise Levels are referred to NSR Arch2b in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Since the NSR is located out of the 300m assessment area of the construction works of "Proposed Road Improvement Works in West Kowloon Reclamation" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3				
1) Zone 1																					
Activity 3 - Excavation	119	100	-48	3	74	74	74	74	74												
Activity 4 - Basement and Underpass	117	100	-48	3	72			72	72	72	72										
Activity 5 - Superstructure	118	100	-48	3	73									73	73	73	73				
2) Zone 2																					
Activity 1 - D Walling																					
Zone 2.1	113	645	-64	3	52	52	52	52	52	52											
Zone 2.2	113	485	-62	3	55	55	55	55	55	55											
Zone 2.3	116	330	-58	3	61	61	61	61	61	61											
Zone 2.4	116	180	-53	3	66	66	66	66	66	66											
Zone 2.5	116	225	-55	3	64	64	64	64	64	64											
Zone 2.6	116	400	-60	3	59	59	59	59	59	59											
Zone 2.7	113	550	-63	3	54	54	54	54	54	54											
Zone 2.8	113	745	-65	3	51	51	51	51	51	51											
Activity 2 - Bored Piling																					
Zone 2.1	119	645	-64	3	58	58	58	58	58	58	58	58	58								
Zone 2.2	119	485	-62	3	60	60	60	60	60	60	60	60	60								
Zone 2.3	119	330	-58	3	64	64	64	64	64	64	64	64	64								
Zone 2.4	119	180	-53	3	69	69	69	69	69	69	69	69	69								
Zone 2.5	119	225	-55	3	67	67	67	67	67	67	67	67	67								
Zone 2.6	119	400	-60	3	62	62	62	62	62	62	62	62	62								
Zone 2.7	119	550	-63	3	59	59	59	59	59	59	59	59	59								
Zone 2.8	119	745	-65	3	57	57	57	57	57	57	57	57	57								
Activity 3 - Excavation																					
Zone 2.1	116	695	-65	3	54						54	54	54	54	54	54	54				
Zone 2.2	116	525	-62	3	56						56	56	56	56	56	56	56				
Zone 2.3	117	370	-59	3	61						61	61	61	61	61	61	61				
Zone 2.4	117	225	-55	3	65						65	65	65	65	65	65	65				
Zone 2.5	117	260	-56	3	64						64	64	64	64	64	64	64				
Zone 2.6	117	405	-60	3	60						60	60	60	60	60	60	60				
Zone 2.7	116	570	-63	3	56						56	56	56	56	56	56	56				
Zone 2.8	116	750	-66	3	53						53	53	53	53	53	53	53				
Activity 4 - Basement and Underpass																					
Zone 2.1	114	695	-65	3	52									52	52	52	52				
Zone 2.2	114	525	-62	3	55									55	55	55	55				
Zone 2.3	115	370	-59	3	58									58	58	58	58				
Zone 2.4	115	225	-55	3	63									63	63	63	63				
Zone 2.5	115	260	-56	3	61									61	61	61	61				
Zone 2.6	115	405	-60	3	57									57	57	57	57				
Zone 2.7	115	570	-63	3	54									54	54	54	54				
Zone 2.8	114	750	-66	3	52									52	52	52	52				
3) Zone 3																					
Activity 1 - D Walling	121	905	-67	3	57	57	57	57	57	57	57	57	57								
Activity 2 - Bored Piling	126	905	-67	3	62	62	62	62	62	62	62	62	62	62	62	62	62				
4) Park Construction - Zone A																					
5) ICC Footbridge	115	840	-66	3	52	52	52	52	52	52	52	52	52								
6) Flyover	115	922	-67	3	51						51	51	51	51	51	51	51				
7) East Concrete Batching Plant (Operation)	115	215	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63				
8) Barqing Point (BP)																					
BP4	120	805	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57				
BP5	120	850	-67	3	57	57	57	57	57	57	57	57	57	57	57	57	57				
BP6	120	1060	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55				
BP7	120	1160	-69	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
9) West Pier (Optional)	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49				
10) South Pier (Optional)	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
11) Viewing Platform (Optional)	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56				
Predicted Noise Level of this Project, dB (A)						78	78	79	79	78	77	77	78	76	76	76	76				
Predicted Noise Level of Express Rail Link, dB(A) ¹						58	58	58	58	58	53	53	53	53	49	49	49				
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²						64	63	63	63	63	63										
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³						63	66	63	70	69	69	69	70	63	63	46	46				
Overall Cumulative Noise Level, dB(A)						78	78	79	80	78	78	78	78	76	76	76	76				
														2014		2015					
														Min	Max	Min	Max				
														76	79	76	76				
														2014		2015					
														Min	Max	Min	Max				
														76	80	76	76				

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WKS in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR WN in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009).
- Predicted Noise Levels are referred to NSR WOB in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014										2015			
						4	5	6	7	8	9	10	11	12	1	2	3		
1) Zone 1																			
Activity 3 - Excavation	119	74	-45	3	77	77	77	77	77										
Activity 4 - Basement and Underpass	117	74	-45	3	74			74	74	74									
Activity 5 - Superstructure	118	74	-45	3	75								75	75	75	75	75		
2) Zone 2																			
Activity 1 - D Walling																			
Zone 2.1	113	626	-64	3	52	52	52	52	52	52									
Zone 2.2	113	472	-61	3	55	55	55	55	55	55									
Zone 2.3	116	328	-58	3	61	61	61	61	61	61									
Zone 2.4	116	170	-53	3	67	67	67	67	67	67									
Zone 2.5	116	156	-52	3	67	67	67	67	67	67									
Zone 2.6	116	328	-58	3	61	61	61	61	61	61									
Zone 2.7	113	482	-62	3	55	55	55	55	55	55									
Zone 2.8	113	691	-65	3	52	52	52	52	52	52									
Activity 2 - Bored Piling																			
Zone 2.1	119	626	-64	3	58	58	58	58	58	58	58	58	58						
Zone 2.2	119	472	-61	3	61	61	61	61	61	61	61	61	61						
Zone 2.3	119	328	-58	3	64	64	64	64	64	64	64	64	64						
Zone 2.4	119	170	-53	3	69	69	69	69	69	69	69	69	69						
Zone 2.5	119	156	-52	3	70	70	70	70	70	70	70	70	70						
Zone 2.6	119	328	-58	3	64	64	64	64	64	64	64	64	64						
Zone 2.7	119	482	-62	3	60	60	60	60	60	60	60	60	60						
Zone 2.8	119	691	-65	3	57	57	57	57	57	57	57	57	57						
Activity 3 - Excavation																			
Zone 2.1	116	676	-65	3	54					54	54	54	54	54	54	54			
Zone 2.2	116	502	-62	3	57					57	57	57	57	57	57	57			
Zone 2.3	117	343	-59	3	61					61	61	61	61	61	61	61			
Zone 2.4	117	205	-54	3	66					66	66	66	66	66	66	66			
Zone 2.5	117	195	-54	3	66					66	66	66	66	66	66	66			
Zone 2.6	117	353	-59	3	61					61	61	61	61	61	61	61			
Zone 2.7	116	517	-62	3	56					56	56	56	56	56	56	56			
Zone 2.8	116	716	-65	3	54					54	54	54	54	54	54	54			
Activity 4 - Basement and Underpass																			
Zone 2.1	114	676	-65	3	53								53	53	53	53			
Zone 2.2	114	502	-62	3	55								55	55	55	55			
Zone 2.3	115	343	-59	3	59								59	59	59	59			
Zone 2.4	115	205	-54	3	63								63	63	63	63			
Zone 2.5	115	195	-54	3	64								64	64	64	64			
Zone 2.6	115	353	-59	3	59								59	59	59	59			
Zone 2.7	115	517	-62	3	55								55	55	55	55			
Zone 2.8	114	716	-65	3	52								52	52	52	52			
3) Zone 3																			
Activity 1 - D Walling	121	886	-67	3	57	57	57	57	57	57	57								
Activity 2 - Bored Piling	126	886	-67	3	62	62	62	62	62	62	62	62	62	62	62				
4) Park Construction - Zone A																			
5) ICC Footbridge	115	827	-66	3	52	52	52	52	52	52	52	52	52						
6) Flyover	115	914	-67	3	51					51	51	51	51	51	51				
7) East Concrete Batching Plant (Operation)	115	158	-52	3	66	66	66	66	66	66	66	66	66	66	66				
8) Barqing Point (BP)																			
BP4	120	751	-66	3	58	58	58	58	58	58	58	58	58	58	58				
BP5	120	799	-66	3	57	57	57	57	57	57	57	57	57	57	57				
BP6	120	1001	-68	3	55	55	55	55	55	55	55	55	55	55	55				
BP7	120	1093	-69	3	55	55	55	55	55	55	55	55	55	55	55				
9) West Pier (Optional)	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49				
10) South Pier (Optional)	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54				
11) Viewing Platform (Optional)	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58				
Predicted Noise Level of this Project, dB (A)						80	80	81	81	80	79	79	80	78	78	78	78		
Predicted Noise Level of Express Rail Link, dB(A) ¹						60	60	60	60	60	58	58	59	59	56	56	56		
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²						60	59	59	59	59	59	59							
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³						59	62	59	66	65	65	65	66	59	59	43	43		
Overall Cumulative Noise Level, dB(A)						80	80	81	81	80	79	79	80	78	78	78	78		
														2014		2015			
														Min	Max	Min	Max		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR VT1 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014										2015			
						4	5	6	7	8	9	10	11	12	1	2	3		
1) Zone 1																			
Activity 3 - Excavation	119	78	-46	3	77	77	77	77	77										
Activity 4 - Basement and Underpass	117	78	-46	3	74			74	74	74	74								
Activity 5 - Superstructure	118	78	-46	3	75								75	75	75	75			
2) Zone 2																			
Activity 1 - D Walling																			
Zone 2.1	113	646	-64	3	52	52	52	52	52	52									
Zone 2.2	113	492	-62	3	54	54	54	54	54	54									
Zone 2.3	116	338	-59	3	61	61	61	61	61	61									
Zone 2.4	116	180	-53	3	66	66	66	66	66	66									
Zone 2.5	116	190	-54	3	66	66	66	66	66	66									
Zone 2.6	116	363	-59	3	60	60	60	60	60	60									
Zone 2.7	113	522	-62	3	54	54	54	54	54	54									
Zone 2.8	113	721	-65	3	51	51	51	51	51	51									
Activity 2 - Bored Piling																			
Zone 2.1	119	646	-64	3	58	58	58	58	58	58	58	58							
Zone 2.2	119	492	-62	3	60	60	60	60	60	60	60	60							
Zone 2.3	119	338	-59	3	63	63	63	63	63	63	63	63							
Zone 2.4	119	180	-53	3	69	69	69	69	69	69	69	69							
Zone 2.5	119	190	-54	3	68	68	68	68	68	68	68	68							
Zone 2.6	119	363	-59	3	63	63	63	63	63	63	63	63							
Zone 2.7	119	522	-62	3	60	60	60	60	60	60	60	60							
Zone 2.8	119	721	-65	3	57	57	57	57	57	57	57	57							
Activity 3 - Excavation																			
Zone 2.1	116	701	-65	3	54					54	54	54	54	54	54	54			
Zone 2.2	116	527	-62	3	56					56	56	56	56	56	56	56			
Zone 2.3	117	367	-59	3	61					61	61	61	61	61	61	61			
Zone 2.4	117	214	-55	3	66					66	66	66	66	66	66	66			
Zone 2.5	117	214	-55	3	66					66	66	66	66	66	66	66			
Zone 2.6	117	377	-60	3	61					61	61	61	61	61	61	61			
Zone 2.7	116	547	-63	3	56					56	56	56	56	56	56	56			
Zone 2.8	116	736	-65	3	53					53	53	53	53	53	53	53			
Activity 4 - Basement and Underpass																			
Zone 2.1	114	701	-65	3	52								52	52	52	52			
Zone 2.2	114	527	-62	3	55								55	55	55	55			
Zone 2.3	115	367	-59	3	58								58	58	58	58			
Zone 2.4	115	214	-55	3	63								63	63	63	63			
Zone 2.5	115	214	-55	3	63								63	63	63	63			
Zone 2.6	115	377	-60	3	58								58	58	58	58			
Zone 2.7	115	547	-63	3	55								55	55	55	55			
Zone 2.8	114	736	-65	3	52								52	52	52	52			
3) Zone 3																			
Activity 1 - D Walling																			
Activity 2 - Bored Piling	126	901	-67	3	62	62	62	62	62	62	62	62	62	62	62	62			
4) Park Construction - Zone A																			
Activity 1 - D Walling	121	1068	-69	3	55	55	55	55	55	55	55	55	55	55	55	55			
5) ICC Footbridge																			
Activity 1 - D Walling	115	846	-67	3	52	52	52	52	52	52	52	52	52	52	52	52			
6) Flyover																			
Activity 1 - D Walling	115	930	-67	3	51					51	51	51	51	51	51	51			
7) East Concrete Batching Plant (Operation)																			
Activity 1 - D Walling	115	183	-53	3	65	65	65	65	65	65	65	65	65	65	65	65			
8) Barqing Point (BP)																			
BP4	120	781	-66	3	57	57	57	57	57	57	57	57	57	57	57	57			
BP5	120	831	-66	3	57	57	57	57	57	57	57	57	57	57	57	57			
BP6	120	1036	-68	3	55	55	55	55	55	55	55	55	55	55	55	55			
BP7	120	1131	-69	3	54	54	54	54	54	54	54	54	54	54	54	54			
9) West Pier (Optional)																			
Activity 1 - D Walling	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49			
10) South Pier (Optional)																			
Activity 1 - D Walling	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54			
11) Viewing Platform (Optional)																			
Activity 1 - D Walling	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)						79	79	80	80	79	78	78	79	77	77	77	77		
Predicted Noise Level of Express Rail Link, dB(A)						60	60	60	60	60	58	58	59	59	56	56	56		
Predicted Noise Level of Road Works at West Kowloon, dB(A)						60	59	59	59	59	59	59							
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)						58	61	58	65	64	64	64	65	58	58	44	44		
Overall Cumulative Noise Level, dB(A)						79	79	81	81	79	78	78	79	78	78	78	78		
														2014		2015			
														Min	Max	Min	Max		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014										2015		
						4	5	6	7	8	9	10	11	12	1	2	3	
1) Zone 1																		
Activity 3 - Excavation	119	105	-48	3	74	74	74	74	74									
Activity 4 - Basement and Underpass	117	105	-48	3	71			71	71	71	71							
Activity 5 - Superstructure	118	105	-48	3	72								72	72	72	72		
2) Zone 2																		
Activity 1 - D Walling																		
Zone 2.1	113	640	-64	3	52	52	52	52	52	52								
Zone 2.2	113	480	-62	3	55	55	55	55	55	55								
Zone 2.3	116	340	-59	3	61	61	61	61	61	61								
Zone 2.4	116	160	-52	3	67	67	67	67	67	67								
Zone 2.5	116	150	-52	3	68	68	68	68	68	68								
Zone 2.6	116	315	-58	3	61	61	61	61	61	61								
Zone 2.7	113	480	-62	3	55	55	55	55	55	55								
Zone 2.8	113	690	-65	3	52	52	52	52	52	52								
Activity 2 - Bored Piling																		
Zone 2.1	119	640	-64	3	58	58	58	58	58	58	58	58	58					
Zone 2.2	119	480	-62	3	60	60	60	60	60	60	60	60	60					
Zone 2.3	119	340	-59	3	63	63	63	63	63	63	63	63	63					
Zone 2.4	119	160	-52	3	70	70	70	70	70	70	70	70	70					
Zone 2.5	119	150	-52	3	71	71	71	71	71	71	71	71	71					
Zone 2.6	119	315	-58	3	64	64	64	64	64	64	64	64	64					
Zone 2.7	119	480	-62	3	60	60	60	60	60	60	60	60	60					
Zone 2.8	119	690	-65	3	57	57	57	57	57	57	57	57	57					
Activity 3 - Excavation																		
Zone 2.1	116	685	-65	3	54					54	54	54	54	54	54	54		
Zone 2.2	116	505	-62	3	57					57	57	57	57	57	57	57		
Zone 2.3	117	355	-59	3	61					61	61	61	61	61	61	61		
Zone 2.4	117	205	-54	3	66					66	66	66	66	66	66	66		
Zone 2.5	117	195	-54	3	66					66	66	66	66	66	66	66		
Zone 2.6	117	350	-59	3	61					61	61	61	61	61	61	61		
Zone 2.7	116	515	-62	3	56					56	56	56	56	56	56	56		
Zone 2.8	116	720	-65	3	54					54	54	54	54	54	54	54		
Activity 4 - Basement and Underpass																		
Zone 2.1	114	685	-65	3	52									52	52	52		
Zone 2.2	114	505	-62	3	55									55	55	55		
Zone 2.3	115	355	-59	3	59									59	59	59		
Zone 2.4	115	205	-54	3	63									63	63	63		
Zone 2.5	115	195	-54	3	64									64	64	64		
Zone 2.6	115	350	-59	3	59									59	59	59		
Zone 2.7	115	515	-62	3	55									55	55	55		
Zone 2.8	114	720	-65	3	52									52	52	52		
3) Zone 3																		
Activity 1 - D Walling																		
Activity 2 - Bored Piling	126	900	-67	3	62	62	62	62	62	62	62	62	62	62	62	62		
4) Park Construction - Zone A																		
5) ICC Footbridge	115	843	-67	3	52	52	52	52	52	52	52	52	52					
6) Flyover	115	927	-67	3	51					51	51	51	51	51	51	51		
7) East Concrete Batching Plant (Operation)	115	160	-52	3	66	66	66	66	66	66	66	66	66	66	66	66		
8) Barqing Point (BP)																		
BP4	120	750	-66	3	58	58	58	58	58	58	58	58	58	58	58	58		
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57		
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55		
BP7	120	1083	-69	3	55	55	55	55	55	55	55	55	55	55	55	55		
9) West Pier (Optional)																		
10) South Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49		
10) South Pier (Optional)																		
11) Viewing Platform (Optional)	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						79	79	80	80	79	78	78	79	77	77	77	77	
Predicted Noise Level of Express Rail Link, dB(A) ¹						60	60	60	60	60	58	58	55	55				
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²						60	59	59	59	59	59	59						
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³						62	65	62	69	68	68	68	69	62	62	42	42	
Overall Cumulative Noise Level, dB(A)						79	79	80	80	79	79	78	79	77	77	77	77	
														2014		2015		
														Min	Max	Min	Max	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014										2015		
						4	5	6	7	8	9	10	11	12	1	2	3	
1) Zone 1																		
Activity 3 - Excavation	119	120	-50	3	73	73	73	73	73									
Activity 4 - Basement and Underpass	117	120	-50	3	70			70	70	70	70							
Activity 5 - Superstructure	118	120	-50	3	71								71	71	71	71		
2) Zone 2																		
Activity 1 - D Walling																		
Zone 2.1	113	645	-64	3	52	52	52	52	52	52								
Zone 2.2	113	495	-62	3	54	54	54	54	54	54								
Zone 2.3	116	350	-59	3	60	60	60	60	60	60								
Zone 2.4	116	175	-53	3	66	66	66	66	66	66								
Zone 2.5	116	150	-52	3	68	68	68	68	68	68								
Zone 2.6	116	315	-58	3	61	61	61	61	61	61								
Zone 2.7	113	475	-62	3	55	55	55	55	55	55								
Zone 2.8	113	685	-65	3	52	52	52	52	52	52								
Activity 2 - Bored Piling																		
Zone 2.1	119	645	-64	3	58	58	58	58	58	58	58	58						
Zone 2.2	119	495	-62	3	60	60	60	60	60	60	60	60						
Zone 2.3	119	350	-59	3	63	63	63	63	63	63	63	63						
Zone 2.4	119	175	-53	3	69	69	69	69	69	69	69	69						
Zone 2.5	119	150	-52	3	71	71	71	71	71	71	71	71						
Zone 2.6	119	315	-58	3	64	64	64	64	64	64	64	64						
Zone 2.7	119	475	-62	3	61	61	61	61	61	61	61	61						
Zone 2.8	119	685	-65	3	57	57	57	57	57	57	57	57						
Activity 3 - Excavation																		
Zone 2.1	116	680	-65	3	54					54	54	54	54	54	54	54		
Zone 2.2	116	520	-62	3	56					56	56	56	56	56	56	56		
Zone 2.3	117	360	-59	3	61					61	61	61	61	61	61	61		
Zone 2.4	117	220	-55	3	65					65	65	65	65	65	65	65		
Zone 2.5	117	195	-54	3	66					66	66	66	66	66	66	66		
Zone 2.6	117	355	-59	3	61					61	61	61	61	61	61	61		
Zone 2.7	116	520	-62	3	56					56	56	56	56	56	56	56		
Zone 2.8	116	720	-65	3	54					54	54	54	54	54	54	54		
Activity 4 - Basement and Underpass																		
Zone 2.1	114	680	-65	3	53								53	53	53	53		
Zone 2.2	114	520	-62	3	55								55	55	55	55		
Zone 2.3	115	360	-59	3	58								58	58	58	58		
Zone 2.4	115	220	-55	3	63								63	63	63	63		
Zone 2.5	115	195	-54	3	64								64	64	64	64		
Zone 2.6	115	355	-59	3	59								59	59	59	59		
Zone 2.7	115	520	-62	3	55								55	55	55	55		
Zone 2.8	114	720	-65	3	52								52	52	52	52		
3) Zone 3																		
Activity 1 - D Walling																		
Activity 2 - Bored Piling																		
4) Park Construction - Zone A	121	1065	-69	3	55	55	55	55	55	55	55	55	55	55	55	55		
5) ICC Footbridge	115	847	-67	3	52	52	52	52	52	52	52	52	52	52	52	52		
6) Flyover	115	933	-67	3	51					51	51	51	51	51	51	51		
7) East Concrete Batching Plant (Operation)	115	170	-53	3	65	65	65	65	65	65	65	65	65	65	65	65		
8) Barqing Point (BP)																		
BP4	120	745	-65	3	58	58	58	58	58	58	58	58	58	58	58	58		
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57		
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55		
BP7	120	1080	-69	3	55	55	55	55	55	55	55	55	55	55	55	55		
9) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49		
10) South Pier (Optional)	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55		
11) Viewing Platform (Optional)	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						78	78	79	79	79	79	78	78	78	76	76	76	
Predicted Noise Level of Express Rail Link, dB(A) ¹						60	60	60	60	60	60	58	58	55	55			
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²						60	59	59	59	59	59							
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³						60	63	60	66	65	65	65	66	60	60	42	42	
Overall Cumulative Noise Level, dB(A)						78	79	79	79	79	78	78	79	76	76	76	76	
														2014		2015		
														Min	Max	Min	Max	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR CGPS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015			
						4	5	6	7	8	9	10	11	12	1	2	3				
1) Zone 1																					
Activity 3 - Excavation	119	82	-46	3	76	76	76	76	76												
Activity 4 - Basement and Underpass	117	82	-46	3	73			73	73	73	73										
Activity 5 - Superstructure	118	82	-46	3	74									74	74	74	74				
2) Zone 2																					
Activity 1 - D Walling																					
Zone 2.1	113	540	-63	3	54	54	54	54	54	54											
Zone 2.2	113	386	-60	3	57	57	57	57	57	57											
Zone 2.3	116	251	-56	3	63	63	63	63	63	63											
Zone 2.4	116	87	-47	3	72	72	72	72	72	72											
Zone 2.5	116	68	-45	3	75	75	75	75	75	75											
Zone 2.6	116	226	-55	3	64	64	64	64	64	64											
Zone 2.7	113	386	-60	3	57	57	57	57	57	57											
Zone 2.8	113	590	-63	3	53	53	53	53	53	53											
Activity 2 - Bored Piling																					
Zone 2.1	119	540	-63	3	59	59	59	59	59	59	59	59	59								
Zone 2.2	119	386	-60	3	62	62	62	62	62	62	62	62	62								
Zone 2.3	119	251	-56	3	66	66	66	66	66	66	66	66	66								
Zone 2.4	119	87	-47	3	75	75	75	75	75	75	75	75	75								
Zone 2.5	119	68	-45	3	77	77	77	77	77	77	77	77	77								
Zone 2.6	119	226	-55	3	67	67	67	67	67	67	67	67	67								
Zone 2.7	119	386	-60	3	62	62	62	62	62	62	62	62	62								
Zone 2.8	119	590	-63	3	59	59	59	59	59	59	59	59	59								
Activity 3 - Excavation																					
Zone 2.1	116	580	-63	3	55					55	55	55	55	55	55	55	55				
Zone 2.2	116	415	-60	3	58					58	58	58	58	58	58	58	58				
Zone 2.3	117	256	-56	3	64					64	64	64	64	64	64	64	64				
Zone 2.4	117	112	-49	3	71					71	71	71	71	71	71	71	71				
Zone 2.5	117	97	-48	3	72					72	72	72	72	72	72	72	72				
Zone 2.6	117	251	-56	3	64					64	64	64	64	64	64	64	64				
Zone 2.7	116	411	-60	3	58					58	58	58	58	58	58	58	58				
Zone 2.8	116	610	-64	3	55					55	55	55	55	55	55	55	55				
Activity 4 - Basement and Underpass																					
Zone 2.1	114	580	-63	3	54									54	54	54	54				
Zone 2.2	114	415	-60	3	57									57	57	57	57				
Zone 2.3	115	256	-56	3	61									61	61	61	61				
Zone 2.4	115	112	-49	3	69									69	69	69	69				
Zone 2.5	115	97	-48	3	70									70	70	70	70				
Zone 2.6	115	251	-56	3	62									62	62	62	62				
Zone 2.7	115	411	-60	3	57									57	57	57	57				
Zone 2.8	114	610	-64	3	53									53	53	53	53				
3) Zone 3																					
Activity 1 - D Walling																					
Activity 2 - Bored Piling	126	795	-66	3	63	58	58	58	58	58	58										
4) Park Construction - Zone A																					
Activity 1 - D Walling	121	996	-68	3	56	56	56	56	56	56	56	56	56	56	56	56	56				
5) ICC Footbridge																					
Activity 1 - D Walling	115	744	-65	3	53	53	53	53	53	53	53	53	53								
6) Flyover																					
Activity 1 - D Walling	115	828	-66	3	52					52	52	52	52	52	52	52	52				
7) East Concrete Batching Plant (Operation)																					
Activity 1 - D Walling	115	68	-45	3	73	73	73	73	73	73	73	73	73	73	73	73	73				
8) Barqing Point (BP)																					
BP4	120	650	-64	3	59	59	59	59	59	59	59	59	59	59	59	59	59				
BP5	120	695	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58				
BP6	120	900	-67	3	56	56	56	56	56	56	56	56	56	56	56	56	56				
BP7	120	985	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55				
9) West Pier (Optional)																					
Activity 1 - D Walling	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50				
10) South Pier (Optional)																					
Activity 1 - D Walling	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56				
11) Viewing Platform (Optional)																					
Activity 1 - D Walling	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61				
Predicted Noise Level of this Project, dB (A)						83	83	84	84	84	83	83	83	81	81	81	81				
Predicted Noise Level of Express Rail Link, dB(A)¹						69	69	69	68	68	67	67	64	64	58	58	58				
Predicted Noise Level of Road Works at West Kowloon, dB(A)²						60	59	59	59	59	59	59									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)³						62	65	62	69	68	68	68	69	62	62	42	42				
Overall Cumulative Noise Level, dB(A)						84	84	84	84	84	83	83	84	81	81	81	81				
												2014		2015							
												Min	Max	Min	Max						

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Predicted Noise Levels are referred to NSR VT2 in Appendix 3.13 of approved EIA of Road Works at West Kowloon (AEIAR-141/2009) for conservative approach.
- Predicted Noise Levels are referred to NSR LCS in Appendix 2.4 of Preliminary Environmental Review Report - Scheme Q of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullinian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2014												2015		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 3 - Excavation	119	681	-65	3	58	58	58	58	58											
Activity 4 - Basement and Underpass	117	680	-65	3	55			55	55	55	55									
Activity 5 - Superstructure	118	681	-65	3	56									56	56	56	56			
2) Zone 2																				
Activity 1 - D Walling																				
Zone 2.1	113	351	-59	3	57	57	57	57	57	57										
Zone 2.2	113	361	-59	3	57	57	57	57	57	57										
Zone 2.3	116	435	-61	3	58	58	58	58	58	58										
Zone 2.4	116	540	-63	3	57	57	57	57	57	57										
Zone 2.5	116	650	-64	3	55	55	55	55	55	55										
Zone 2.6	116	580	-63	3	56	56	56	56	56	56										
Zone 2.7	113	535	-63	3	54	54	54	54	54	54										
Zone 2.8	113	530	-62	3	54	54	54	54	54	54										
Activity 2 - Bored Piling																				
Zone 2.1	119	351	-59	3	63	63	63	63	63	63	63	63	63							
Zone 2.2	119	361	-59	3	63	63	63	63	63	63	63	63	63							
Zone 2.3	119	435	-61	3	61	61	61	61	61	61	61	61	61							
Zone 2.4	119	540	-63	3	59	59	59	59	59	59	59	59	59							
Zone 2.5	119	650	-64	3	58	58	58	58	58	58	58	58	58							
Zone 2.6	119	580	-63	3	59	59	59	59	59	59	59	59	59							
Zone 2.7	119	535	-63	3	59	59	59	59	59	59	59	59	59							
Zone 2.8	119	530	-62	3	60	60	60	60	60	60	60	60	60							
Activity 3 - Excavation																				
Zone 2.1	116	828	-66	3	52					52	52	52	52	52	52	52	52			
Zone 2.2	116	659	-64	3	54					54	54	54	54	54	54	54	54			
Zone 2.3	117	498	-62	3	58					58	58	58	58	58	58	58	58			
Zone 2.4	117	348	-59	3	61					61	61	61	61	61	61	61	61			
Zone 2.5	117	344	-59	3	61					61	61	61	61	61	61	61	61			
Zone 2.6	117	500	-62	3	58					58	58	58	58	58	58	58	58			
Zone 2.7	116	672	-65	3	54					54	54	54	54	54	54	54	54			
Zone 2.8	116	865	-67	3	52					52	52	52	52	52	52	52	52			
Activity 4 - Basement and Underpass																				
Zone 2.1	114	828	-66	3	51									51	51	51	51			
Zone 2.2	114	659	-64	3	53									53	53	53	53			
Zone 2.3	115	498	-62	3	56									56	56	56	56			
Zone 2.4	115	348	-59	3	59									59	59	59	59			
Zone 2.5	115	344	-59	3	59									59	59	59	59			
Zone 2.6	115	500	-62	3	56									56	56	56	56			
Zone 2.7	115	672	-65	3	53									53	53	53	53			
Zone 2.8	114	865	-67	3	50									50	50	50	50			
3) Zone 3																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	126	347	-59	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
4) Park Construction - Zone A																				
ICC Footbridge	115	272	-57	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
Flyover	115	317	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
East Concrete Batching Plant (Operation)	115	703	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
8) Barqing Point (BP)																				
BP4	120	450	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
BP5	120	460	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
BP6	120	610	-64	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
BP7	120	725	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
9) West Pier (Optional)																				
South Pier (Optional)	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Viewing Platform (Optional)	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55			

Predicted Noise Level of this Project, dB (A)	74	74	74	74	76	76	75	76	74	74	74	74	74	74	74	74	74
Predicted Noise Level of Express Rail Link, dB(A) ¹																	
Predicted Noise Level of Road Works at West Kowloon, dB(A) ²																	
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A) ³	72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Overall Cumulative Noise Level, dB(A)	76	76	76	77	78	78	77	78	77	77	77	77	77	77	77	77	77

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Express Rail Link" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Road Works at West Kowloon" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- Predicted Noise Levels are referred to NSR SRT in Appendix 2.4 of Preliminary Environmental Review Report - Scheme H, I & J of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- Phase 1 Concrete Batching Plant in Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility will be handed over to WKCD starting from the year of 2014. Since the operation of concreting batching plants before 2014 and the operation and demolition of phase 2 concreting batching plant have already been included in the noise impact assessment of the XRL project, separate noise impact assessment will only be calculated after handing over the phase 1 concrete batching plant to WKCD starting from the year of 2014.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 1						
	Activity 5 - Superstructure						
	Group 1						
		Crane, tower (electric)	CNP 049	95	1	50%	92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	102
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
		Poker, vibratory, hand-held (electric)	[1]	102	3	50%	104
		Bar bender and cutter (electric)	CNP 021	90	1	50%	87
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
		Concrete lorry mixer	CNP 044	109	2	50%	109
		Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100
		Water pump (electric)	CNP 281	88	2	30%	86
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110
		Fork Lift Truck	[2]	104	2	30%	102
		Hoist, passenger/ material (electric)	CNP 122	95	2	30%	93
		Total SWL, dB (A)					116
		Group 2					
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	102
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
		Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102
		Bar bender and cutter (electric)	CNP 021	90	1	50%	87
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
		Water pump (electric)	CNP 281	88	1	30%	83
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	30%	107
		Fork Lift Truck	[2]	104	1	30%	99
		Hoist, passenger/ material (electric)	CNP 122	95	1	30%	90
		Total SWL, dB (A)					113
		Maximum SWL, dB (A)					116
	2a	Zone 2 (for area with less plant) [3]					
		Activity 3 - Excavation					
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
		Dump truck	CNP 067	117	1	30%	112
		Total SWL, dB (A)					116
Activity 4 - Basement and Underpass							
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107
		Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107
		Bar bender and cutter (electric)	CNP 021	90	1	60%	88
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
		Concrete lorry mixer	CNP 044	109	1	60%	107
		Total SWL, dB (A)					114
2b		Zone 2 (for area with more plant) [3]					
	Activity 3 - Excavation						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Air compressor, air flow > 30m3/min	CNP 003	104	1	60%	102
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
		Dump truck	CNP 067	117	2	30%	115
		Total SWL, dB (A)					117
	Activity 4 - Basement and Underpass						
		Crane, tower (electric)	CNP 049	95	1	60%	93
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103
		Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107
		Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107
		Bar bender and cutter (electric)	CNP 021	90	1	60%	88
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
		Concrete lorry mixer	CNP 044	109	1	60%	107
	Total SWL, dB (A)					115	
2c	Zone 2 (for superstructure only)						
	Activity 5 - Superstructure						
		Crane, tower (electric)	CNP 049	95	4	50%	98
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	111
		Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%	115
		Poker, vibratory, hand-held (electric)	[1]	102	40	50%	115
		Bar bender and cutter (electric)	CNP 021	90	8	50%	96
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	9	100%	105
		Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110
		Concrete lorry mixer	CNP 044	109	8	50%	115
		Drill/grinder, hand-held (electric)	CNP 065	98	20	30%	106
		Water pump (electric)	CNP 281	88	14	30%	94
		Excavator/ loader, wheeled/ tracked	CNP 081	112	14	30%	118
		Fork Lift Truck	[2]	104	14	30%	110
		Hoist, passenger/ material (electric)	CNP 122	95	14	30%	101
		Total SWL, dB (A)					124

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
3	Zone 3						
	Activity 3 - Excavation						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116	
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101	
	Dump truck	CNP 067	117	6	30%	120	
	Total SWL, dB (A)						122
	Activity 4 - Basement and Underpass						
	Crane, tower (electric)	CNP 049	95	2	60%	96	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	109	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	60%	113	
	Poker, vibratory, hand-held (electric)	[1]	102	20	60%	113	
	Bar bender and cutter (electric)	CNP 021	90	4	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Total SWL, dB (A)						120
	Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	6	30%	101	
	Water pump (electric)	CNP 281	88	4	30%	89	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	30%	113	
	Fork Lift Truck	[2]	104	4	30%	105	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%	96	
	Total SWL, dB (A)						118
	4	Park Construction - Zone A					
		Activity 1 - Park Construction					
		Dump truck	CNP 067	117	2	60%	118
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113
Excavator/ loader, wheeled/ tracked		CNP 081	112	2	60%	113	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	100%	98	
Lorry		CNP 141	112	2	60%	113	
Total SWL, dB (A)						121	
Activity 2 - Superstructure							
Crane, tower (electric)		CNP 049	95	1	50%	92	
Crane, mobile/ barge mounted (diesel)		CNP 048	112	2	50%	112	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	2	50%	105	
Concrete pump, stationary/ lorry mounted		CNP 047	109	2	50%	109	
Poker, vibratory, hand-held (electric)		[1]	102	5	50%	106	
Bar bender and cutter (electric)		CNP 021	90	2	50%	90	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	3	100%	100	
Air compressor, air flow > 30m3/min		CNP 003	104	1	100%	104	
Concrete lorry mixer		CNP 044	109	2	50%	109	
Drill/grinder, hand-held (electric)		CNP 065	98	5	30%	100	
Water pump (electric)		CNP 281	88	3	30%	88	
Excavator/ loader, wheeled/ tracked		CNP 081	112	3	30%	112	
Fork Lift Truck		[2]	104	3	30%	104	
Hoist, passenger/ material (electric)		CNP 122	95	3	30%	95	
Total SWL, dB (A)						118	
Maximum SWL, dB (A)						118	
5		Park Construction - Zone B					
		Dump truck	CNP 067	117	1	60%	115
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Lorry	CNP 141	112	1	60%	110	
Total SWL, dB (A)						118	
6/7	ICC Footbridge / Flyover						
	Group 1						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	102	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	100%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	70%	103	
	Bar bender and cutter (electric)	CNP 021	90	1	80%	89	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Group 2						
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	103	
	Concrete lorry mixer	CNP 044	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102	
	Grout pump	[1]	105	1	20%	98	
	Saw, circular, wood	CNP 201	108	1	80%	107	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
8	East Concrete Batching Plant (Operation)						
	Group 1						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Batching plant	CNP 022	108	1	60%	106	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108	
	Total SWL, dB (A)						115
	Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Batching plant	CNP 022	108	1	60%	106	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115
	9	Barging Points					
Derrick barge		CNP 061	104	1	60%	102	
Tug boat		CNP 221	110	1	60%	108	
Dump truck		CNP 067	117	6	30%	120	
Excavator/ loader, wheeled/ tracked		CNP 081	112	1	60%	110	
Conveyor belt		CNP 041	90	1	60%	88	
Total SWL, dB (A)						120	
10	Modification of seawalls and construction of seawater outfalls						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
Total SWL, dB (A)						117	
11/12	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						112
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						117
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
Total SWL, dB (A)						117	
Maximum SWL, dB (A)						117	
13	Viewing Platform (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						113
	Group 2						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

[3] More plant have been assumed at the zones near the NSR for conservative approach.

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 1																													
Activity 5 - Superstructure	116	481	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57				
2) Zone 2																													
Activity 3 - Excavation																													
Zone 2.1	117	116	-49	3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71					
Zone 2.2	117	102	-48	3	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72					
Zone 2.3	116	203	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
Zone 2.4	116	357	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60					
Zone 2.5	116	377	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59					
Zone 2.6	116	258	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
Zone 2.7	117	179	-53	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67					
Zone 2.8	117	228	-55	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
Activity 4 - Basement and Underpass																													
Zone 2.1	115	116	-49	3	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68					
Zone 2.2	115	102	-48	3	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69					
Zone 2.3	114	203	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63					
Zone 2.4	114	357	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
Zone 2.5	114	377	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
Zone 2.6	114	258	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61					
Zone 2.7	115	179	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
Zone 2.8	115	228	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
Activity 5 - Superstructure																													
Lyric Theatre	124	258	-56	3	71													71	71	71	71	71	71	71					
CCP	124	282	-57	3	70													70	70	70	70	70	70	70					
3) Zone 3																													
Activity 3 - Excavation	122	317	-58	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67					
Activity 4 - Basement and Underpass	120	317	-58	3	65												65	65	65	65	65	65	65	65					
Activity 5 - Superstructure	118	256	-56	3	65																			65					
4) Park Construction - Zone A																													
Zone A	118	264	-63	3	58	58																							
5) Park Construction - Zone B																													
Zone B	118	264	-66	3	64			64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64					
6) ICC Footbridge																													
ICC Footbridge	115	211	-54	3	64																								
7) Flyover																													
Flyover	115	287	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61					
8) East Concrete Batching Plant (Operation)																													
East Concrete Batching Plant (Operation)	115	461	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57					
9) Barging Point (BP)																													
BP4	120	307	-58	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66					
BP5	120	327	-58	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
BP6	120	506	-62	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61					
BP7	120	616	-64	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60					
10) Modification of seawalls / construction of seawater outfalls																													
Outfall of WKCD DCWS	117	292	-57	3	63				63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63					
Outfall of Independent Cooling System for Freespace	117	761	-66	3	54				54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54					
11) West Pier (Optional)																													
West Pier (Optional)	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54					
12) South Pier (Optional)																													
South Pier (Optional)	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
13) Viewing Platform (Optional)																													
Viewing Platform (Optional)	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59					
Predicted Noise Level of this Project, dB (A)						79	79	79	80	80	80	79	81	81	80	80	81	81	80	80	81	81	80	80					
Predicted Noise Level of Express Rail Link, dB(A)¹						63	63	61																					
Overall Cumulative Noise Level, dB(A)						84	80	80	80	80	80	79	81	81	80	80	81	81	80	80	81	81	80	80	81				
															2015		2016												
															Min	Max	Min	Max	Min	Max	Min	Max							
																	2015		2016										
															79	81	80	81	79	81	80	81							
															Min	Max	Min	Max	Min	Max	Min	Max							

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK9 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 1																													
Activity 5 - Superstructure	116	576	-63	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56				
2) Zone 2																													
Activity 3 - Excavation																													
Zone 2.1	117	111	-49	3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71				
Zone 2.2	117	169	-53	3	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68					
Zone 2.3	116	302	-58	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61					
Zone 2.4	116	446	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
Zone 2.5	116	456	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57					
Zone 2.6	116	342	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60					
Zone 2.7	117	228	-55	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
Zone 2.8	117	208	-54	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66					
Activity 4 - Basement and Underpass																													
Zone 2.1	115	111	-49	3	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69					
Zone 2.2	115	169	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
Zone 2.3	114	302	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60					
Zone 2.4	114	446	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56					
Zone 2.5	114	456	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56					
Zone 2.6	114	342	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
Zone 2.7	115	228	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
Zone 2.8	115	208	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63					
Activity 5 - Superstructure																													
Lyric Theatre	124	382	-60	3	68															68	68	68	68	68					
CCP	124	218	-55	3	73															73	73	73	73	73					
3) Zone 3																													
Activity 3 - Excavation	122	227	-55	3	70	70	70	70	70	70	70																		
Activity 4 - Basement and Underpass	120	227	-55	3	68										68	68	68	68	68	68	68	68	68						
Activity 5 - Superstructure	118	180	-53	3	68																			68					
4) Park Construction - Zone A																													
118	525	-62	3	58	58																								
5) Park Construction - Zone B																													
118	283	-57	3	64		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64					
6) ICC Footbridge																													
115	125	-50	3	68																									
7) Flyover																													
115	198	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
8) East Concrete Batching Plant (Operation)																													
115	554	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55					
9) Barging Point (BP)																													
BP4	120	302	-58	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66					
BP5	120	312	-58	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65					
BP6	120	461	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
BP7	120	576	-63	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60					
10) Modification of seawalls / construction of seawater outfalls																													
Outfall of WKCD DCWS	117	297	-57	3	63				63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63					
Outfall of Independent Cooling System for Freespace	117	701	-65	3	55				55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55					
11) West Pier (Optional)																													
117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55					
12) South Pier (Optional)																													
117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62					
13) Viewing Platform (Optional)																													
115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
Predicted Noise Level of this Project, dB (A)						79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79				
Predicted Noise Level of Express Rail Link, dB(A)¹						47	47	47																					
Overall Cumulative Noise Level, dB(A)						83	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79			
															2015		2016												
															Min	Max	Min	Max											
															2015				2016										
															Min	Max	Min	Max											

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK10 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016			
						4	5	6	7	8	9	10	11	12	1	2	3				
1) Zone 1																					
Activity 5 - Superstructure	116	391	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
2) Zone 2																					
Activity 3 - Excavation																					
Zone 2.1	117	178	-53	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
Zone 2.2	117	92	-47	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73		
Zone 2.3	116	139	-51	3	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68		
Zone 2.4	116	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62		
Zone 2.5	116	302	-58	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
Zone 2.6	116	203	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
Zone 2.7	117	188	-53	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
Zone 2.8	117	282	-57	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63		
Activity 4 - Basement and Underpass																					
Zone 2.1	115	178	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
Zone 2.2	115	92	-47	3	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70		
Zone 2.3	114	139	-51	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66		
Zone 2.4	114	257	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
Zone 2.5	114	302	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
Zone 2.6	114	203	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63		
Zone 2.7	115	188	-53	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64		
Zone 2.8	115	282	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
Activity 5 - Superstructure																					
Lyric Theatre	124	337	-59	3	69											69	69	69	69		
CCP	124	203	-54	3	73											73	73	73	73		
3) Zone 3																					
Activity 3 - Excavation	122	411	-60	3	65	65	65	65	65	65	65										
Activity 4 - Basement and Underpass	120	411	-60	3	63							63	63	63	63	63	63	63	63		
Activity 5 - Superstructure	118	341	-59	3	63														63		
4) Park Construction - Zone A																					
118	650	-64	3	57	57																
5) Park Construction - Zone B																					
118	262	-66	3	64		64	64	64	64	64	64	64	64	64	64	64	64	64	64		
6) ICC Footbridge																					
115	298	-57	3	61																	
7) Flyover																					
115	379	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
8) East Concrete Batching Plant (Operation)																					
115	377	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
9) Barging Point (BP)																					
BP4	120	357	-59	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64		
BP5	120	387	-60	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64		
BP6	120	576	-63	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
BP7	120	691	-65	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
10) Modification of seawalls / construction of seawater outfalls																					
Outfall of WKCD DCWS	117	337	-59	3	61				61	61	61	61	61	61	61						
Outfall of Independent Cooling System for Freespace	117	836	-66	3	54				54	54	54	54	54	54	54						
11) West Pier (Optional)																					
117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
12) South Pier (Optional)																					
117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
13) Viewing Platform (Optional)																					
115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
Predicted Noise Level of this Project, dB (A)						79	79	79	79	79	79	80	79	81	81	81	81	81	81	81	
Predicted Noise Level of Express Rail Link, dB(A)¹						69	69	68													
Overall Cumulative Noise Level, dB(A)						84	80	80	79	79	80	79	81	81	81	81	81	81	81	81	81
															2015		2016				
															Min	Max	Min	Max			
															2015		2016				
															79	81	81	81			
															Min	Max	Min	Max			
															79	84	81	81			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK14 in Appendix 5.8 of approved EIA of Express Rail Link (AEIAR-143/2009). Delaying of 6 months of WKT construction programme in VEP have been included in predicted noise level.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	116	99	-48	3	71	71	71	71	71	71	71	71	71	71	71	71	71	71		
2) Zone 2																				
Activity 3 - Excavation																				
Zone 2.1	117	621	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
Zone 2.2	117	454	-61	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
Zone 2.3	116	303	-58	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
Zone 2.4	116	158	-52	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
Zone 2.5	116	224	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64		
Zone 2.6	116	330	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
Zone 2.7	117	492	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58		
Zone 2.8	117	664	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
Activity 4 - Basement and Underpass																				
Zone 2.1	115	621	-64	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54		
Zone 2.2	115	454	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
Zone 2.3	114	303	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
Zone 2.4	114	158	-52	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
Zone 2.5	114	224	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62		
Zone 2.6	114	330	-58	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59		
Zone 2.7	115	492	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
Zone 2.8	115	664	-64	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
Activity 5 - Superstructure																				
Lyric Theatre	124	771	-66	3	62											62	62	62	62	
CCP	124	267	-57	3	71											71	71	71	71	
3) Zone 3																				
Activity 3 - Excavation	122	864	-67	3	59	59	59	59	59	59	59									
Activity 4 - Basement and Underpass	120	864	-67	3	57							57	57	57	57	57	57	57	57	
Activity 5 - Superstructure	118	822	-66	3	55														55	
4) Park Construction - Zone A																				
118	1036	-68	3	53	53															
5) Park Construction - Zone B																				
118	251	-56	3	65		65	65	65	65	65	65	65	65	65	65	65	65	65	65	
6) ICC Footbridge																				
115	759	-66	3	53																
7) Flyover																				
115	837	-66	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
8) East Concrete Batching Plant (Operation)																				
115	165	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
9) Barging Point (BP)																				
BP4	120	731	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
BP5	120	776	-66	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
BP6	120	986	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
BP7	120	1086	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	117	701	-65	3	55				55	55	55	55	55	55	55					
Outfall of Independent Cooling System for Freespace	117	1251	-70	3	50				50	50	50	50	50	50	50					
11) West Pier (Optional)																				
117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	
12) South Pier (Optional)																				
117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
13) Viewing Platform (Optional)																				
115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
Predicted Noise Level of this Project, dB (A)						76	76	76	76	76	76	76	76	77	77	77	77	77	77	
Predicted Noise Level of Express Rail Link, dB(A)¹						68	68	66												
Overall Cumulative Noise Level, dB(A)						80	77	77	76	76	76	76	76	77	77	77	77	77	77	
															2015		2016			
															Min	Max	Min	Max		
															76	77	76	77		
															2015		2016			
															Min	Max	Min	Max		
															76	80	77	77		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK12 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016																						
						4	5	6	7	8	9	10	11	12	1	2	3																							
1) Zone 1																																								
Activity 5 - Superstructure	116	100	-48	3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71																
2) Zone 2																																								
Activity 3 - Excavation																																								
Zone 2.1	117	695	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55																
Zone 2.2	117	525	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58																	
Zone 2.3	116	370	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59																	
Zone 2.4	116	225	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64																	
Zone 2.5	116	260	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62																	
Zone 2.6	116	405	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59																	
Zone 2.7	117	570	-63	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																	
Zone 2.8	117	750	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55																	
Activity 4 - Basement and Underpass																																								
Zone 2.1	115	695	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53																	
Zone 2.2	115	525	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55																	
Zone 2.3	114	370	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58																	
Zone 2.4	114	225	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62																	
Zone 2.5	114	260	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																	
Zone 2.6	114	405	-60	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																	
Zone 2.7	115	570	-63	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																	
Zone 2.8	115	750	-66	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52																	
Activity 5 - Superstructure																																								
Lyric Theatre	124	851	-67	3	61																61	61	61	61																
CCP	124	352	-59	3	68																68	68	68	68																
3) Zone 3																																								
Activity 3 - Excavation	122	946	-68	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58																	
Activity 4 - Basement and Underpass	120	946	-68	3	56										56	56	56	56	56	56	56	56	56																	
Activity 5 - Superstructure	118	876	-67	3	55																		55																	
4) Park Construction - Zone A																																								
Zone A	118	1107	-69	3	52	52																																		
5) Park Construction - Zone B																																								
Zone B	118	282	-57	3	64		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64																	
6) ICC Footbridge																																								
ICC Footbridge	115	840	-66	3	52																																			
7) Flyover																																								
Flyover	115	922	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51																	
8) East Concrete Batching Plant (Operation)																																								
East Concrete Batching Plant (Operation)	115	215	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63																	
9) Barging Point (BP)																																								
BP4	120	805	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																	
BP5	120	850	-67	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																	
BP6	120	1060	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55																	
BP7	120	1160	-69	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																	
10) Modification of seawalls / construction of seawater outfalls																																								
Outfall of WKCD DCWS	117	775	-66	3	54				54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																	
Outfall of Independent Cooling System for Freespace	117	1325	-70	3	50				50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																	
11) West Pier (Optional)																																								
West Pier (Optional)	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49																	
12) South Pier (Optional)																																								
South Pier (Optional)	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																	
13) Viewing Platform (Optional)																																								
Viewing Platform (Optional)	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																	
Predicted Noise Level of this Project, dB (A)						75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																
Predicted Noise Level of Express Rail Link, dB(A)¹						49	49	49																																
Overall Cumulative Noise Level, dB(A)						79	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75															
															2015		2016																							
															Min	Max	Min	Max																						
															75	76	76	76																						
															2015		2016																							
															Min	Max	Min	Max																						
															79	79	76	76																						

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WKS in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	116	74	-45	3	74	74	74	74	74	74	74	74	74	74	74	74	74			
2) Zone 2																				
Activity 3 - Excavation																				
Zone 2.1	117	676	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.2	117	502	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.3	116	343	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.4	116	205	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
Zone 2.5	116	195	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
Zone 2.6	116	353	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.7	117	517	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.8	117	716	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Activity 4 - Basement and Underpass																				
Zone 2.1	115	676	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.2	115	502	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	114	343	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	114	205	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.5	114	195	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.6	114	353	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.7	115	517	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	115	716	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Activity 5 - Superstructure																				
Lyric Theatre	124	811	-66	3	61											61	61			
CCP	124	312	-58	3	69											69	69			
3) Zone 3																				
Activity 3 - Excavation	122	917	-67	3	58	58	58	58	58	58	58									
Activity 4 - Basement and Underpass	120	917	-67	3	56							56	56	56	56	56	56			
Activity 5 - Superstructure	118	855	-67	3	55												55			
4) Park Construction - Zone A																				
118	1042	-68	3	52	52															
5) Park Construction - Zone B																				
118	178	-53	3	68		68	68	68	68	68	68	68	68	68	68	68	68			
6) ICC Footbridge																				
115	827	-66	3	52																
7) Flyover																				
115	914	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51			
8) East Concrete Batching Plant (Operation)																				
115	158	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66			
9) Barging Point (BP)																				
BP4	120	751	-66	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
BP5	120	799	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
BP6	120	1001	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
BP7	120	1093	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	117	726	-65	3	55				55	55	55	55	55	55						
Outfall of Independent Cooling System for Freespace	117	1251	-70	3	50				50	50	50	50	50	50						
11) West Pier (Optional)																				
117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49			
12) South Pier (Optional)																				
117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
13) Viewing Platform (Optional)																				
115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						77	77	77	77	77	77	77	78	78	78	78	78			
Predicted Noise Level of Express Rail Link, dB(A)¹						56	56	56												
Overall Cumulative Noise Level, dB(A)						81	77	77	77	77	77	77	78	78	78	78	78			
															2015		2016			
															Min	Max	Min	Max		
															2015		2016			
															Min	Max	Min	Max		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016																							
						4	5	6	7	8	9	10	11	12	1	2	3																								
1) Zone 1																																									
Activity 5 - Superstructure	116	78	-46	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73															
2) Zone 2																																									
Activity 3 - Excavation																																									
Zone 2.1	117	701	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.2	117	527	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.3	116	367	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59															
Zone 2.4	116	214	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64															
Zone 2.5	116	214	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64															
Zone 2.6	116	377	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59															
Zone 2.7	117	547	-63	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.8	117	736	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Activity 4 - Basement and Underpass																																									
Zone 2.1	115	701	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
Zone 2.2	115	527	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.3	114	367	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.4	114	214	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
Zone 2.5	114	214	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
Zone 2.6	114	377	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.7	115	547	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.8	115	736	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52															
Activity 5 - Superstructure																																									
Lyric Theatre	124	841	-66	3	61																																				
CCP	124	342	-59	3	69																																				
3) Zone 3																																									
Activity 3 - Excavation	122	939	-67	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Activity 4 - Basement and Underpass	120	939	-67	3	56																																				
Activity 5 - Superstructure	118	875	-67	3	55																																				
4) Park Construction - Zone A	118	1068	-69	3	52	52																																			
5) Park Construction - Zone B	118	223	-55	3	66																																				
6) ICC Footbridge	115	846	-67	3	52																																				
7) Flyover	115	930	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51															
8) East Concrete Batching Plant (Operation)	115	183	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65															
9) Barging Point (BP)																																									
BP4	120	781	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
BP5	120	831	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
BP6	120	1036	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
BP7	120	1131	-69	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
10) Modification of seawalls / construction of seawater outfalls																																									
Outfall of WKCD DCWS	117	751	-66	3	54																																				
Outfall of Independent Cooling System for Freespace	117	1301	-70	3	50																																				
11) West Pier (Optional)	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49															
12) South Pier (Optional)	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
13) Viewing Platform (Optional)	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Predicted Noise Level of this Project, dB (A)						76	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77														
Predicted Noise Level of Express Rail Link, dB(A)¹						56	56	56																																	
Overall Cumulative Noise Level, dB(A)						80	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77													
															2015		2016																								
															Min	Max	Min	Max																							
															76	77	77	77																							
															2015		2016																								
															Min	Max	Min	Max																							
															80	77	77	77																							

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK6 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	116	105	-48	3	71	71	71	71	71	71	71	71	71	71	71	71	71			
2) Zone 2																				
Activity 3 - Excavation																				
Zone 2.1	117	685	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.2	117	505	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.3	116	355	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.4	116	205	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
Zone 2.5	116	195	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
Zone 2.6	116	350	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.7	117	515	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.8	117	720	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Activity 4 - Basement and Underpass																				
Zone 2.1	115	685	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.2	115	505	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	114	355	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	114	205	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.5	114	195	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.6	114	350	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.7	115	515	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	115	720	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Activity 5 - Superstructure																				
Lyric Theatre	124	816	-66	3	61										61	61	61			
CCP	124	327	-58	3	69										69	69	69			
3) Zone 3																				
Activity 3 - Excavation																				
Activity 4 - Basement and Underpass	122	923	-67	3	58	58	58	58	58	58	58									
Activity 5 - Superstructure	118	863	-67	3	56							56	56	56	56	56	56			
Activity 5 - Superstructure	118	1046	-68	3	55												55			
4) Park Construction - Zone A	118	1046	-68	3	52	52														
5) Park Construction - Zone B	118	150	-51	3	69		69	69	69	69	69	69	69	69	69	69	69			
6) ICC Footbridge	115	843	-67	3	52															
7) Flyover	115	927	-67	3	51	66	66	66	66	66	66	66	66	66	66	66	66			
8) East Concrete Batching Plant (Operation)	115	160	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
9) Barging Point (BP)																				
BP4	120	750	-66	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
BP7	120	1083	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
10) Modification of seawalls / construction of seawater outfalls																				
Outfall of WKCD DCWS	117	720	-65	3	55				55	55	55	55	55	55						
Outfall of Independent Cooling System for Freespace	117	1250	-70	3	50				50	50	50	50	50	50						
11) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
12) South Pier (Optional)	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
13) Viewing Platform (Optional)	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						76	77	77	77	77	77	77	77	78	78	77	77	78		
Predicted Noise Level of Express Rail Link, dB(A)¹																				
Overall Cumulative Noise Level, dB(A)						80	77	77	77	77	77	77	77	78	78	77	77	78		
															2015		2016			
															Min	Max	Min	Max		
															2015		2016			
															Min	Max	Min	Max		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016																										
						4	5	6	7	8	9	10	11	12	1	2	3																											
1) Zone 1																																												
Activity 5 - Superstructure	116	120	-50	3	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69															
2) Zone 2																																												
Activity 3 - Excavation																																												
Zone 2.1	117	680	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.2	117	520	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.3	116	360	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.4	116	220	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64															
Zone 2.5	116	195	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65															
Zone 2.6	116	355	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.7	117	520	-62	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.8	117	720	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Activity 4 - Basement and Underpass																																												
Zone 2.1	115	680	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
Zone 2.2	115	520	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.3	114	360	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.4	114	220	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62															
Zone 2.5	114	195	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
Zone 2.6	114	355	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.7	115	520	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.8	115	720	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52															
Activity 5 - Superstructure																																												
Lyric Theatre	124	816	-66	3	61																																							
CCP	124	342	-59	3	69																																							
3) Zone 3																																												
Activity 3 - Excavation	122	926	-67	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Activity 4 - Basement and Underpass	120	926	-67	3	56																																							
Activity 5 - Superstructure	118	866	-67	3	55																																							
4) Park Construction - Zone A	118	1065	-69	3	52	52																																						
5) Park Construction - Zone B	118	146	-51	3	69																																							
6) ICC Footbridge	115	847	-67	3	52																																							
7) Flyover	115	933	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51															
8) East Concrete Batching Plant (Operation)	115	170	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65															
9) Barging Point (BP)																																												
BP4	120	745	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
BP7	120	1080	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
10) Modification of seawalls / construction of seawater outfalls																																												
Outfall of WKCD DCWS	117	750	-66	3	54																																							
Outfall of Independent Cooling System for Freespace	117	1250	-70	3	50																																							
11) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49																
12) South Pier (Optional)	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
13) Viewing Platform (Optional)	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Predicted Noise Level of this Project, dB (A)						75	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76														
Predicted Noise Level of Express Rail Link, dB(A)¹																																												
Overall Cumulative Noise Level, dB(A)						79	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76													
												2015		2016																														
												Min	Max	Min	Max	Min	Max	Min	Max																									
												2015		2016																														
												Min	Max	Min	Max	Min	Max	Min	Max																									

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

- Predicted Noise Levels are referred to NSR WK7 in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016																						
						4	5	6	7	8	9	10	11	12	1	2	3																							
1) Zone 1																																								
Activity 5 - Superstructure	116	82	-46	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73																
2) Zone 2																																								
Activity 3 - Excavation																																								
Zone 2.1	117	580	-63	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.2	117	415	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.3	116	256	-56	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
Zone 2.4	116	112	-49	3	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70															
Zone 2.5	116	97	-48	3	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71															
Zone 2.6	116	251	-56	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63															
Zone 2.7	117	411	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.8	117	610	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56															
Activity 4 - Basement and Underpass																																								
Zone 2.1	115	580	-63	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
Zone 2.2	115	415	-60	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.3	114	256	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61															
Zone 2.4	114	112	-49	3	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68															
Zone 2.5	114	97	-48	3	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69															
Zone 2.6	114	251	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61															
Zone 2.7	115	411	-60	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.8	115	610	-64	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
Activity 5 - Superstructure																																								
Lyric Theatre	124	716	-65	3	62																	62	62	62	62															
CCP	124	233	-55	3	72																	72	72	72	72															
3) Zone 3																																								
Activity 3 - Excavation	122	824	-66	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59																
Activity 4 - Basement and Underpass	120	824	-66	3	57																	57	57	57	57															
Activity 5 - Superstructure	118	761	-66	3	56																			56																
4) Park Construction - Zone A																																								
4) Park Construction - Zone B	118	72	-45	3	76																			76																
6) ICC Footbridge																																								
6) ICC Footbridge	115	744	-65	3	53																			53																
7) Flyover																																								
7) Flyover	115	828	-66	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52																
8) East Concrete Batching Plant (Operation)																																								
8) East Concrete Batching Plant (Operation)	115	68	-45	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73																
9) Barging Point (BP)																																								
BP4	120	650	-64	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59																
BP5	120	695	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58																
BP6	120	900	-67	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																
BP7	120	985	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55																
10) Modification of seawalls / construction of seawater outfalls																																								
Outfall of WKCD DCWS	117	625	-64	3	56																			56																
Outfall of Independent Cooling System for Freespace	117	1170	-69	3	51																			51																
11) West Pier (Optional)																																								
11) West Pier (Optional)	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																
12) South Pier (Optional)																																								
12) South Pier (Optional)	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56																
13) Viewing Platform (Optional)																																								
13) Viewing Platform (Optional)	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61																
Predicted Noise Level of this Project, dB (A)						80	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																
Predicted Noise Level of Express Rail Link, dB(A)¹						58	58	55																																
Overall Cumulative Noise Level, dB(A)						84	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81															
																					2015		2016																	
																					Min	Max	Min	Max																
																					80	82	82	82																
																					2015		2016																	
																					Min	Max	Min	Max																
																					81	84	82	82																

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Predicted Noise Levels are referred to NSR WK7a in Appendix G of Environmental Review for Proposed West Kowloon Terminus Concrete Batching Facility.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2015												2016																							
						4	5	6	7	8	9	10	11	12	1	2	3																								
1) Zone 1																																									
Activity 5 - Superstructure	116	681	-65	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
2) Zone 2																																									
Activity 3 - Excavation																																									
Zone 2.1	117	829	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
Zone 2.2	117	659	-64	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56															
Zone 2.3	116	499	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.4	116	350	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.5	116	345	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.6	116	501	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Zone 2.7	117	672	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56															
Zone 2.8	117	866	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
Activity 4 - Basement and Underpass																																									
Zone 2.1	115	828	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51															
Zone 2.2	115	659	-64	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
Zone 2.3	114	498	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.4	114	348	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.5	114	344	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
Zone 2.6	114	500	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.7	115	672	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
Zone 2.8	115	865	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51															
Activity 5 - Superstructure																																									
Lyric Theatre	124	471	-61	3	66																	66	66	66	66	66															
CCP	124	526	-62	3	65																	65	65	65	65	65															
3) Zone 3																																									
Activity 3 - Excavation	122	376	-59	3	66	66	66	66	66	66	66	66																													
Activity 4 - Basement and Underpass	120	376	-59	3	64								64	64	64	64	64	64	64	64	64	64	64	64	64	64															
Activity 5 - Superstructure	118	329	-58	3	63																					63															
4) Park Construction - Zone A																																									
118	675	-65	3	56	56																																				
5) Park Construction - Zone B																																									
118	433	-61	3	60		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
6) ICC Footbridge																																									
115	272	-57	3	62																																					
7) Flyover																																									
115	317	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
8) East Concrete Batching Plant (Operation)																																									
115	703	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
9) Barging Point (BP)																																									
BP4	120	451	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62															
BP5	120	461	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62															
BP6	120	611	-64	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60															
BP7	120	726	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58															
10) Modification of seawalls / construction of seawater outfalls																																									
Outfall of WKCD DCWS	117	561	-63	3	57				57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57															
Outfall of Independent Cooling System for Freespace	117	886	-67	3	53				53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53															
11) West Pier (Optional)																																									
117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54															
12) South Pier (Optional)																																									
117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59															
13) Viewing Platform (Optional)																																									
115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55															
Predicted Noise Level of this Project, dB (A)															73	73	73	73	73	74	73	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	
Predicted Noise Level of Express Rail Link, dB(A)¹																																									
Predicted Noise Level of Road Improvement Works in West Kowloon Reclamation, dB(A)²															73	73	70	67	56	56																					
Overall Cumulative Noise Level, dB(A)															76	76	75	74	73	74	73	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	
															2015		2016		2015		2016		2015		2016		2015		2016		2015		2016		2015		2016				
															Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

- 1) Since the NSR is located 270m apart from the site boundary and no direct line of sight of the construction works of "Express Rail Link" project, the cumulative noise impact is predicted to be low and has insignificant contribution to the NSR, therefore, cumulative noise impact is not taken into account at this NSR.
- 2) Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.
- 3) Predicted Noise Levels are referred to NSR SRT in Appendix 2.4 of Preliminary Environmental Review Report - Scheme H, I & J of Proposed Road Improvement Works in West Kowloon Reclamation for conservative approach. Delaying of 6 months of construction programme based on latest information have been included in predicted noise level.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 1						
	Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
	Water pump (electric)	CNP 281	88	3	30%	88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112	
	Fork Lift Truck	[2]	104	3	30%	104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
	Total SWL, dB (A)						118
	2a	Zone 2 (for area with less plant) [3]					
		Activity 4 - Basement and Underpass					
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	60%	103	
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	60%	107	
Poker, vibratory, hand-held (electric)		[1]	102	5	60%	107	
Bar bender and cutter (electric)		CNP 021	90	1	60%	88	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	95	
Concrete lorry mixer		CNP 044	109	1	60%	107	
Total SWL, dB (A)						114	
Activity 5 - Superstructure							
Crane, mobile/ barge mounted (diesel)		CNP 048	112	1	50%	109	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	50%	102	
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	50%	106	
Poker, vibratory, hand-held (electric)		[1]	102	5	50%	106	
Bar bender and cutter (electric)		CNP 021	90	1	50%	87	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	100%	98	
Concrete lorry mixer		CNP 044	109	1	50%	106	
Drill/grinder, hand-held (electric)		CNP 065	98	2	30%	96	
Water pump (electric)		CNP 281	88	2	30%	86	
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110		
Fork Lift Truck	[2]	104	2	30%	102		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%	93		
Total SWL, dB (A)						115	
2b	Zone 2 (for area with more plant) [3]						
	Activity 4 - Basement and Underpass						
	Crane, tower (electric)	CNP 049	95	1	60%	93	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107	
	Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107	
	Bar bender and cutter (electric)	CNP 021	90	1	60%	88	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	1	60%	107	
	Total SWL, dB (A)						115
	Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	102	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	87	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
Concrete lorry mixer	CNP 044	109	1	50%	106		
Drill/grinder, hand-held (electric)	CNP 065	98	3	30%	98		
Water pump (electric)	CNP 281	88	2	30%	86		
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110		
Fork Lift Truck	[2]	104	2	30%	102		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%	93		
Total SWL, dB (A)						116	
3	Zone 3						
	Activity 4 - Basement and Underpass						
	Crane, tower (electric)	CNP 049	95	2	60%	96	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	109	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	60%	113	
	Poker, vibratory, hand-held (electric)	[1]	102	20	60%	113	
	Bar bender and cutter (electric)	CNP 021	90	4	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107	
Concrete lorry mixer	CNP 044	109	4	60%	113		
Total SWL, dB (A)						120	

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
	Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =<= 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	6	30%	101	
	Water pump (electric)	CNP 281	88	4	30%	89	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	30%	113	
	Fork Lift Truck	[2]	104	4	30%	105	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%	96	
	Total SWL, dB (A)						118
	4	Zone 4					
Activity 1 - D Walling							
Crane, mobile/ barge mounted (diesel)		CNP 048	112	6	60%	118	
Air compressor, air flow > 30m3/min		CNP 003	104	6	100%	112	
Piling, diaphragm wall, hydraulic extractor		CNP 163	90	3	60%	93	
Excavator/ loader, wheeled/ tracked		CNP 081	112	6	60%	118	
Grout Mixer		[1]	90	3	60%	93	
Water pump, submersible (electric)		CNP 283	85	4	60%	89	
Dump truck		CNP 067	117	3	30%	117	
Concrete lorry mixer		CNP 044	109	3	60%	112	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	3	100%	100	
Total SWL, dB (A)						123	
Activity 2 - Bored Piling							
Crane, mobile/ barge mounted (diesel)		CNP 048	112	6	60%	118	
Excavator/ loader, wheeled/ tracked		CNP 081	112	6	30%	115	
Piling Rig		[2]	112	6	60%	118	
Drill Rig		[1]	110	6	60%	116	
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	118		
Piling, large diameter bored, grab and chisel	CNP 164	115	6	60%	121		
Piling, large diameter bored, reverse circulation drill	CNP 166	100	6	60%	106		
Piling, large diameter bored, oscillator	CNP 165	115	6	60%	121		
Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	112		
Grout Mixer	[1]	90	6	60%	96		
Grout Pump	[1]	105	6	60%	111		
Bar bender and cutter (electric)	CNP 021	90	6	60%	96		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	103		
Dump truck	CNP 067	117	3	30%	117		
Concrete lorry mixer	CNP 044	109	3	60%	112		
Welding Set	[2]	78	6	60%	84		
Total SWL, dB (A)						127	
Activity 3 - Excavation							
Crane, mobile/ barge mounted (diesel)	CNP 048	112	6	60%	118		
Air compressor, air flow > 30m3/min	CNP 003	104	6	60%	110		
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	118		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	103		
Dump truck	CNP 067	117	9	30%	121		
Total SWL, dB (A)						124	
Activity 4 - Basement							
Crane, tower (electric)	CNP 049	95	4	60%	99		
Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	60%	119		
Crane Lorry	[1]	105	8	60%	112		
Concrete pump, stationary/ lorry mounted	CNP 047	109	8	60%	116		
Poker, vibratory, hand-held (electric)	[1]	102	40	60%	116		
Bar bender and cutter (electric)	CNP 021	90	8	60%	97		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	104		
Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110		
Concrete lorry mixer	CNP 044	109	8	60%	116		
Total SWL, dB (A)						123	
5	Park Construction - Zone B						
	Dump truck	CNP 067	117	1	60%	115	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Lorry	CNP 141	112	1	60%	110	
Total SWL, dB (A)						118	
6	Flyover						
	Group 1						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	102	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	100%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =<= 38 tonne	[1]	105	1	70%	103	
	Bar bender and cutter (electric)	CNP 021	90	1	80%	89	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Group 2						
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	103	
	Concrete lorry mixer	CNP 044	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102	
	Grout pump	[1]	105	1	20%	98	
	Saw, circular, wood	CNP 201	108	1	80%	107	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						115
	Maximum SWL, dB (A)						115

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
7/9	East / West Concrete Batching Plant (Operation)						
	Group 1						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Batching plant	CNP 022	108	1	60%	106	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108	
	Total SWL, dB (A)					115	
	Group 2						
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Concrete mixer (electric)	CNP 045	96	1	60%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96	
	Concrete mixer (petrol)	CNP 046	96	3	60%	99	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Batching plant	CNP 022	108	1	60%	106	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Tipper Lorry	BS 5228 Table D.3/112	113	1	30%	108	
	Maximum SWL, dB (A)					115	
	8	East Concrete Batching Plant (Demolition)					
		Tracked crane (30kW)	BS 5228 Table D.7/105	108	2	60%	109
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	60%	96	
Welding set		[2]	78	2	60%	79	
Total SWL, dB (A)					109		
10	West Concrete Batching Plant (Construction)						
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113	
	Dump truck	CNP 067	117	2	30%	115	
	Poker, vibratory, hand-held (electric)	[1]	102	4	60%	106	
	Breaker, hand-held, mass > 35kg	CNP 026	114	1	60%	112	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	60%	103	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Total SWL, dB (A)					120	
11	Barging Points						
	Derrick barge	CNP 061	104	1	60%	102	
	Tug boat	CNP 221	110	1	60%	108	
	Dump truck	CNP 067	117	6	30%	120	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110	
	Conveyor belt	CNP 041	90	1	60%	88	
Total SWL, dB (A)					120		
12/13	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)					112	
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)					117	
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)					117	
	Maximum SWL, dB (A)					117	
	14	Viewing Platform (Optional)					
		Group 1					
Piling, large diameter bored, reverse circulation drill		CNP 166	100	1	100%	100	
Crane, mobile/ barge mounted (diesel)		CNP 048	112	1	80%	111	
Tug boat		CNP 221	110	1	60%	108	
Total SWL, dB (A)					113		
Group 2							
Crane, mobile/ barge mounted (diesel)		CNP 048	112	2	100%	115	
Total SWL, dB (A)					115		
Maximum SWL, dB (A)					115		

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

[3] More plant have been assumed at the zones near the NSR for conservative approach.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017															
						4	5	6	7	8	9	10	11	12	1	2	3																
1) Zone 1																																	
Activity 5 - Superstructure	118	576	-63	3	58	58																											
2) Zone 2																																	
Activity 4 - Basement and Underpass																																	
Zone 2.1	115	111	-49	3	69	69	69	69	69	69	69	69	69	69	69	69	69																
Zone 2.2	115	169	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65																
Zone 2.3	114	302	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60																
Zone 2.4	114	446	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56																
Zone 2.5	114	456	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56																
Zone 2.6	114	342	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58																
Zone 2.7	115	228	-55	3	62	62	62	62	62	62	62	62	62	62	62	62	62																
Zone 2.8	115	208	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63																
Activity 5 - Superstructure																																	
Zone 2.1	116	111	-49	3	70	70	70	70	70	70	70	70	70	70	70	70	70																
Zone 2.2	116	169	-53	3	66	66	66	66	66	66	66	66	66	66	66	66	66																
Zone 2.3	115	302	-58	3	61	61	61	61	61	61	61	61	61	61	61	61	61																
Zone 2.4	115	446	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57																
Zone 2.5	115	456	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57																
Zone 2.6	115	342	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60																
Zone 2.7	116	228	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63																
Zone 2.8	116	208	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64																
3) Zone 3																																	
Activity 4 - Basement and Underpass																																	
Activity 5 - Superstructure	118	179	-53	3	70	70	70	70	70	68	68	68	68	68	68	68	68																
4) Zone 4																																	
Activity 1 - D Walling	123	481	-62	3	64		64	64	64	64	64	64	64	64	64	64																	
Activity 2 - Bored Piling	127	481	-62	3	69					69	69	69	69	69	69	69	69																
Activity 3 - Excavation	124	564	-63	3	64					64	64	64	64	64	64	64	64																
Activity 4 - Basement	123	481	-62	3	65										65	65	65																
5) Park Construction - Zone B																																	
6) Flyover	115	198	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65																
7) East Concrete Batching Plant (Operation)	115	554	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55																
8) East Concrete Batching Plant (Demolition)	109	554	-63	3	49											49	49																
9) West Concrete Batching Plant (Construction)	120	419	-60	3	63				63	63	63	63	63	63	63	63	63																
10) West Concrete Batching Plant (Operation)	115	419	-60	3	58										58	58	58																
11) Barging Point (BP)																																	
BP4	120	302	-58	3	66	66	66	66	66	66	66	66	66	66	66	66	66																
BP5	120	312	-58	3	65	65	65	65	65	65	65	65	65	65	65	65	65																
BP6	120	461	-61	3	62	62	62	62	62	62	62	62	62	62	62	62	62																
BP7	120	576	-63	3	60	60	60	60	60	60	60	60	60	60	60	60	60																
12) West Pier (Optional)	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55																
13) South Pier (Optional)	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62																
14) Viewing Platform (Optional)	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58																
Predicted Noise Level of the Project, dB(A)																79	79	79	79	79	79	79	79	79	79	78	78	78	78	79	79	78	78

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
 No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.
 Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 1																													
Activity 5 - Superstructure	118	78	-46	3	75	75																							
2) Zone 2																													
Activity 4 - Basement and Underpass																													
Zone 2.1	114	701	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.2	114	527	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.3	115	367	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	115	214	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.5	115	214	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.6	115	377	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.7	114	547	-63	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.8	114	736	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52			
Activity 5 - Superstructure																													
Zone 2.1	115	701	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.2	115	527	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	116	367	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.4	116	214	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64			
Zone 2.5	116	214	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64			
Zone 2.6	116	377	-60	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.7	115	547	-63	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.8	115	736	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53			
3) Zone 3																													
Activity 4 - Basement and Underpass																													
Activity 5 - Superstructure	118	916	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
4) Zone 4																													
Activity 1 - D Walling																													
Activity 2 - Bored Piling	127	1208	-70	3	61						61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61			
Activity 3 - Excavation	124	1292	-70	3	57						57	57	57	57	57	57	57	57	57	57	57	57	57	57	57				
Activity 4 - Basement	123	1208	-70	3	57																57	57	57	57	57	57			
5) Park Construction - Zone B																													
6) Flyover	115	930	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51			
7) East Concrete Batching Plant (Operation)	115	183	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65			
8) East Concrete Batching Plant (Demolition)	109	183	-53	3	59																	59	59	59	59	59			
9) West Concrete Batching Plant (Construction)	120	1151	-69	3	54					54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54				
10) West Concrete Batching Plant (Operation)	115	1151	-69	3	49																	49	49	49	49	49			
11) Barging Point (BP)																													
BP4	120	781	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57			
BP5	120	831	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57			
BP6	120	1036	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55			
BP7	120	1131	-69	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
12) West Pier (Optional)	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) South Pier (Optional)	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54			
14) Viewing Platform (Optional)	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of the Project, dB(A)						77	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	73	74	73	74			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	118	105	-48	3	72	72														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	114	685	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
Zone 2.2	114	505	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
Zone 2.3	115	355	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
Zone 2.4	115	205	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	
Zone 2.5	115	175	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	
Zone 2.6	115	350	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
Zone 2.7	114	515	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
Zone 2.8	114	720	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
Activity 5 - Superstructure																				
Zone 2.1	115	685	-65	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
Zone 2.2	115	505	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
Zone 2.3	116	355	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Zone 2.4	116	205	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	
Zone 2.5	116	175	-53	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Zone 2.6	116	350	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	
Zone 2.7	115	515	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	
Zone 2.8	115	720	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	118	905	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	127	1198	-70	3	61					61	61	61	61	61	61	61	61	61	61	
Activity 3 - Excavation	124	1279	-70	3	57						57	57	57	57	57	57	57	57	57	
Activity 4 - Basement	123	1198	-70	3	57											57	57	57	57	
5) Park Construction - Zone B																				
6) Flyover	115	927	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	
7) East Concrete Batching Plant (Operation)	115	160	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
8) East Concrete Batching Plant (Demolition)	109	160	-52	3	60													60	60	
9) West Concrete Batching Plant (Construction)	120	1150	-69	3	54					54	54	54	54	54	54	54	54	54	54	
10) West Concrete Batching Plant (Operation)	115	1150	-69	3	49													49	49	
11) Barging Point (BP)																				
BP4	120	750	-66	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
BP7	120	1083	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
12) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
13) South Pier (Optional)	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	
14) Viewing Platform (Optional)	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
Predicted Noise Level of the Project, dB(A)						77	75	75	75	75	75	75	75	75	76	75	75	75	75	
															2016		2017			
															Min	Max	Min	Max		
															75	77	75	75		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2016												2017																			
						4	5	6	7	8	9	10	11	12	1	2	3																				
1) Zone 1																																					
Activity 5 - Superstructure	118	120	-50	3	71	71																															
2) Zone 2																																					
Activity 4 - Basement and Underpass																																					
Zone 2.1	114	680	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53																			
Zone 2.2	114	520	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55																			
Zone 2.3	115	360	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58																			
Zone 2.4	115	220	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63																			
Zone 2.5	115	190	-54	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64																			
Zone 2.6	115	355	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59																			
Zone 2.7	114	520	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55																			
Zone 2.8	114	720	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52																			
Activity 5 - Superstructure																																					
Zone 2.1	115	680	-65	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54																			
Zone 2.2	115	520	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56																			
Zone 2.3	116	360	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60																			
Zone 2.4	116	220	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64	64																			
Zone 2.5	116	190	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65																			
Zone 2.6	116	355	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60																			
Zone 2.7	115	520	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56																			
Zone 2.8	115	720	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53																			
3) Zone 3																																					
Activity 4 - Basement and Underpass																																					
Activity 5 - Superstructure	118	905	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54																			
4) Zone 4																																					
Activity 1 - D Walling	123	1229	-70	3	56		56	56	56	56	56	56	56	56	56	56	56	56																			
Activity 2 - Bored Piling	127	1229	-70	3	61					61	61	61	61	61	61	61	61	61																			
Activity 3 - Excavation	124	1283	-70	3	57						57	57	57	57	57	57	57	57																			
Activity 4 - Basement	123	1229	-70	3	57											57	57	57																			
5) Park Construction - Zone B																																					
6) Flyover	115	933	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51																			
7) East Concrete Batching Plant (Operation)	115	170	-53	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65																			
8) East Concrete Batching Plant (Demolition)	109	170	-53	3	59												59	59	59																		
9) West Concrete Batching Plant (Construction)	120	1155	-69	3	54					54	54	54	54	54	54	54	54	54																			
10) West Concrete Batching Plant (Operation)	115	1155	-69	3	49												49	49	49																		
11) Barging Point (BP)																																					
BP4	120	745	-65	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58																			
BP5	120	795	-66	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57																			
BP6	120	993	-68	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55																			
BP7	120	1080	-69	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55																			
12) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49																			
13) South Pier (Optional)	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55																			
14) Viewing Platform (Optional)	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58																			
Predicted Noise Level of the Project, dB(A)															76	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria

No concurrent project is identified in and after 2016. Hence, no cumulative construction noise impact is assessed.

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1a	Zone 2 (for area with less plant) [3]						
	Activity 4 - Basement and Underpass						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107	
	Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107	
	Bar bender and cutter (electric)	CNP 021	90	1	60%	88	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Concrete lorry mixer	CNP 044	109	1	60%	107	
	Total SWL, dB (A)					114	
	Activity 5 - Superstructure						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	102	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	87	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete lorry mixer	CNP 044	109	1	50%	106	
	Drill/grinder, hand-held (electric)	CNP 065	98	2	30%	96	
	Water pump (electric)	CNP 281	88	1	30%	83	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	30%	107	
	Fork Lift Truck	[2]	104	1	30%	99	
	Hoist, passenger/ material (electric)	CNP 122	95	1	30%	90	
	Total SWL, dB (A)					114	
	1b	Zone 2 (for area with more plant) [3]					
		Activity 4 - Basement and Underpass					
		Crane, tower (electric)	CNP 049	95	1	60%	93
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	60%	107	
Poker, vibratory, hand-held (electric)		[1]	102	5	60%	107	
Bar bender and cutter (electric)		CNP 021	90	1	60%	88	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	95	
Air compressor, air flow > 30m3/min		CNP 003	104	1	100%	104	
Concrete lorry mixer		CNP 044	109	1	60%	107	
Total SWL, dB (A)					115		
Activity 5 - Superstructure							
Crane, tower (electric)		CNP 049	95	1	50%	92	
Crane, mobile/ barge mounted (diesel)		CNP 048	112	1	50%	109	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	50%	102	
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	50%	106	
Poker, vibratory, hand-held (electric)		[1]	102	5	50%	106	
Bar bender and cutter (electric)		CNP 021	90	1	50%	87	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	100%	98	
Air compressor, air flow > 30m3/min		CNP 003	104	1	100%	104	
Concrete lorry mixer		CNP 044	109	1	50%	106	
Drill/grinder, hand-held (electric)		CNP 065	98	3	30%	98	
Water pump (electric)		CNP 281	88	3	30%	88	
Excavator/ loader, wheeled/ tracked		CNP 081	112	3	30%	112	
Fork Lift Truck		[2]	104	3	30%	104	
Hoist, passenger/ material (electric)		CNP 122	95	3	30%	95	
Total SWL, dB (A)					116		
2		Zone 3					
		Activity 5 - Superstructure					
		Crane, tower (electric)	CNP 049	95	1	50%	92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	6	30%	101	
	Water pump (electric)	CNP 281	88	4	30%	89	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	30%	113	
	Fork Lift Truck	[2]	104	4	30%	105	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%	96	
	Total SWL, dB (A)					118	
3	Zone 4						
	Activity 2 - Bored Piling						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	6	60%	118	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	115	
	Piling Rig	[2]	112	6	60%	118	
	Drill Rig	[1]	110	6	60%	116	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	118	
	Piling, large diameter bored, grab and chisel	CNP 164	115	6	60%	121	
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	6	60%	106	
	Piling, large diameter bored, oscillator	CNP 165	115	6	60%	121	
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	112	
	Grout Mixer	[1]	90	6	60%	96	
	Grout Pump	[1]	105	6	60%	111	
	Bar bender and cutter (electric)	CNP 021	90	6	60%	96	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	103	
	Dump truck	CNP 067	117	3	30%	117	
	Concrete lorry mixer	CNP 044	109	3	60%	112	
	Welding Set	[2]	78	6	60%	84	
	Total SWL, dB (A)					127	
	Activity 3 - Excavation						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	6	60%	118	
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	112	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	118	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	103	
	Dump truck	CNP 067	117	9	30%	121	
	Total SWL, dB (A)					124	

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
Activity 4 - Basement						
	Crane, tower (electric)	CNP 049	95	4	60%	99
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	60%	119
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	60%	112
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	60%	116
	Poker, vibratory, hand-held (electric)	[1]	102	40	60%	116
	Bar bender and cutter (electric)	CNP 021	90	8	60%	97
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	104
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110
	Concrete lorry mixer	CNP 044	109	8	60%	116
	Total SWL, dB (A)					123
Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	4	50%	98
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	111
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%	115
	Poker, vibratory, hand-held (electric)	[1]	102	40	50%	115
	Bar bender and cutter (electric)	CNP 021	90	8	50%	96
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	9	100%	105
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110
	Concrete lorry mixer	CNP 044	109	8	50%	115
	Drill/grinder, hand-held (electric)	CNP 065	98	20	30%	106
	Water pump (electric)	CNP 281	88	14	30%	94
	Excavator/ loader, wheeled/ tracked	CNP 081	112	14	30%	118
	Fork Lift Truck	[2]	104	14	30%	110
	Hoist, passenger/ material (electric)	CNP 122	95	14	30%	101
	Total SWL, dB (A)					124
4	Zone 5					
Activity 1 - Site Formation						
	Breaker, excavator mounted (hydraulic)	CNP 028	122	2	60%	123
	Dump truck	CNP 067	117	2	60%	118
	Total SWL, dB (A)					124
5	Park Construction - Zone B					
	Dump truck	CNP 067	117	1	60%	115
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110
	Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Lorry	CNP 141	112	1	60%	110
	Total SWL, dB (A)					118
6	Park Construction - Zone C					
	Dump truck	CNP 067	117	4	60%	121
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101
	Lorry	CNP 141	112	4	60%	116
	Total SWL, dB (A)					124
7	Flyover					
Group 1						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	102
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	100%	112
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	70%	103
	Bar bender and cutter (electric)	CNP 021	90	1	80%	89
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Total SWL, dB (A)					115
Group 2						
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	103
	Concrete lorry mixer	CNP 044	109	1	50%	106
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	102
	Grout pump	[1]	105	1	20%	98
	Saw, circular, wood	CNP 201	108	1	80%	107
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
	Total SWL, dB (A)					115
	Maximum SWL, dB (A)					115
8	East Concrete Batching Plant (Demolition)					
	Tracked crane (30kW)	BS 5228 Table D.7/105	108	2	60%	109
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	96
	Welding set	[2]	78	2	60%	79
	Total SWL, dB (A)					109
9	West Concrete Batching Plant (Operation)					
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113
	Concrete mixer (electric)	CNP 045	96	2	60%	97
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99
	Concrete mixer (petrol)	CNP 046	96	6	60%	102
	Concrete lorry mixer	CNP 044	109	4	60%	113
	Batching plant	CNP 022	108	2	60%	109
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	4	60%	106
	Tipper Lorry	BS 5228 Table D.3/112	113	2	30%	111
	Total SWL, dB (A)					118

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
10/11	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						112
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						117
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)						117
	Maximum SWL, dB (A)						117
	12	Viewing Platform (Optional)					
		Group 1					
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111
		Tug boat	CNP 221	110	1	60%	108
Total SWL, dB (A)						113	
Group 2							
Crane, mobile/ barge mounted (diesel)		CNP 048	112	2	100%	115	
Total SWL, dB (A)						115	
Maximum SWL, dB (A)						115	

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
 [2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)
 [3] More plant have been assumed at the zones near the NSR for conservative approach.

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	115	117	-49	3	68	68	68	68												
Zone 2.2	115	104	-48	3	69	69	69	69												
Zone 2.3	114	204	-54	3	63	63	63	63												
Zone 2.4	114	357	-59	3	58	58	58	58												
Zone 2.5	114	377	-60	3	58	58	58	58												
Zone 2.6	114	258	-56	3	61	61	61	61												
Zone 2.7	115	180	-53	3	64	64	64	64												
Zone 2.8	115	229	-55	3	62	62	62	62												
Activity 5 - Superstructure																				
Zone 2.1	116	116	-49	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
Zone 2.2	116	102	-48	3	71	71	71	71	71	71	71	71	71	71	71	71	71			
Zone 2.3	114	203	-54	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.4	114	357	-59	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.5	114	377	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.6	114	258	-56	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.7	116	179	-53	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
Zone 2.8	116	228	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
2) Zone 3																				
Activity 5 - Superstructure																				
Activity 5 - Superstructure	118	248	-56	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
3) Zone 4																				
Activity 2 - Bored Piling																				
Activity 2 - Bored Piling	127	655	-64	3	66	66	66													
Activity 3 - Excavation																				
Activity 3 - Excavation	124	655	-64	3	63	63	63	63	63	63										
Activity 4 - Basement																				
Activity 4 - Basement	123	655	-64	3	62	62	62	62	62	62	62									
Activity 5 - Superstructure																				
Activity 5 - Superstructure	124	668	-64	3	63									63	63	63	63			
4) Zone 5																				
Activity 1 - Site Formation																				
Activity 1 - Site Formation	124	407	-60	3	67								67	67	67	67	67			
5) Park Construction - Zone B																				
Activity 5 - Superstructure	118	264	-56	3	64	64	64	64	64	64										
6) Park Construction - Zone C																				
Activity 5 - Superstructure	124	432	-61	3	66								66	66	66	66	66			
7) Flyover																				
Activity 5 - Superstructure	115	287	-57	3	61	61	61	61												
8) East Concrete Batching Plant (Demolition)																				
Activity 5 - Superstructure	109	461	-61	3	51	51	51	51												
9) West Concrete Batching Plant (Operation)																				
Activity 5 - Superstructure	118	506	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
10) West Pier (Optional)																				
Activity 5 - Superstructure	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
11) South Pier (Optional)																				
Activity 5 - Superstructure	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
12) Viewing Platform (Optional)																				
Activity 5 - Superstructure	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Predicted Noise Level of this Project, dB (A)															2017	2018				
															Min	Max	Min	Max		
															79	79	77	77		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018												
						4	5	6	7	8	9	10	11	12	1	2	3													
1) Zone 2																														
Activity 4 - Basement and Underpass																														
Zone 2.1	115	113	-49	3	69	69	69	69	69																					
Zone 2.2	115	170	-53	3	65	65	65	65	65																					
Zone 2.3	114	303	-58	3	60	60	60	60	60																					
Zone 2.4	114	447	-61	3	56	56	56	56	56																					
Zone 2.5	114	457	-61	3	56	56	56	56	56																					
Zone 2.6	114	342	-59	3	58	58	58	58	58																					
Zone 2.7	115	229	-55	3	62	62	62	62	62																					
Zone 2.8	115	209	-54	3	63	63	63	63	63																					
Activity 5 - Superstructure																														
Zone 2.1	116	111	-49	3	70	70	70	70	70	70	70	70	70	70	70	70	70													
Zone 2.2	116	169	-53	3	67	67	67	67	67	67	67	67	67	67	67	67	67													
Zone 2.3	114	302	-58	3	60	60	60	60	60	60	60	60	60	60	60	60	60													
Zone 2.4	114	446	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56													
Zone 2.5	114	456	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56													
Zone 2.6	114	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59													
Zone 2.7	116	228	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64													
Zone 2.8	116	208	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65													
2) Zone 3																														
Activity 5 - Superstructure	118	179	-53	3	68	68	68	68	68	68	68	68	68	68	68	68	68													
3) Zone 4																														
Activity 2 - Bored Piling	127	564	-63	3	67	67	67																							
Activity 3 - Excavation	124	564	-63	3	64	64	64	64	64	64	64																			
Activity 4 - Basement	123	564	-63	3	63	63	63	63	63	63	63																			
Activity 5 - Superstructure	124	577	-63	3	64									64	64	64	64													
4) Zone 5																														
Activity 1 - Site Formation	124	321	-58	3	69								69	69	69	69	69													
5) Park Construction - Zone B																														
Activity 1 - Site Formation	118	283	-57	3	64	64	64	64	64	64	64																			
6) Park Construction - Zone C																														
Activity 1 - Site Formation	124	337	-59	3	68								68	68	68	68	68													
7) Flyover																														
Activity 1 - Site Formation	115	198	-54	3	65	65	65	65																						
8) East Concrete Batching Plant (Demolition)																														
Activity 1 - Site Formation	109	554	-63	3	49	49	49	49																						
9) West Concrete Batching Plant (Operation)																														
Activity 1 - Site Formation	118	419	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61													
10) West Pier (Optional)																														
Activity 1 - Site Formation	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55													
11) South Pier (Optional)																														
Activity 1 - Site Formation	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62													
12) Viewing Platform (Optional)																														
Activity 1 - Site Formation	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58													
Predicted Noise Level of this Project, dB (A)															2017	2018														
															78	78	78	78	76	76	77	77	77	77	77	77	76	76	78	77

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018													
						4	5	6	7	8	9	10	11	12	1	2	3														
1) Zone 2																															
Activity 4 - Basement and Underpass																															
Zone 2.1	115	622	-64	3	54	54	54	54	54																						
Zone 2.2	115	455	-61	3	56	56	56	56	56																						
Zone 2.3	114	304	-58	3	60	60	60	60	60																						
Zone 2.4	114	159	-52	3	65	65	65	65	65																						
Zone 2.5	114	225	-55	3	62	62	62	62	62																						
Zone 2.6	114	331	-58	3	59	59	59	59	59																						
Zone 2.7	115	492	-62	3	56	56	56	56	56																						
Zone 2.8	115	664	-64	3	53	53	53	53	53																						
Activity 5 - Superstructure																															
Zone 2.1	114	621	-64	3	54	54	54	54	54	54	54	54	54	54	54	54	54														
Zone 2.2	114	454	-61	3	56	56	56	56	56	56	56	56	56	56	56	56	56														
Zone 2.3	116	303	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62														
Zone 2.4	116	158	-52	3	67	67	67	67	67	67	67	67	67	67	67	67	67														
Zone 2.5	116	224	-55	3	64	64	64	64	64	64	64	64	64	64	64	64	64														
Zone 2.6	116	330	-58	3	61	61	61	61	61	61	61	61	61	61	61	61	61														
Zone 2.7	114	492	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56														
Zone 2.8	114	664	-64	3	53	53	53	53	53	53	53	53	53	53	53	53	53														
2) Zone 3																															
Activity 5 - Superstructure	118	821	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55														
3) Zone 4																															
Activity 2 - Bored Piling	127	1206	-70	3	61	61	61																								
Activity 3 - Excavation	124	1206	-70	3	58	58	58	58	58	58	58																				
Activity 4 - Basement	123	1206	-70	3	57	57	57	57	57	57	57																				
Activity 5 - Superstructure	124	1217	-70	3	58									58	58	58	58														
4) Zone 5																															
Activity 1 - Site Formation	124	981	-68	3	59								59	59	59	59	59														
5) Park Construction - Zone B																															
Activity 1 - Site Formation	118	251	-56	3	65	65	65	65	65	65	65																				
6) Park Construction - Zone C																															
Activity 1 - Site Formation	124	966	-68	3	59								59	59	59	59	59														
7) Flyover																															
Activity 1 - Site Formation	115	837	-66	3	52	52	52	52																							
8) East Concrete Batching Plant (Demolition)																															
Activity 1 - Site Formation	109	165	-52	3	60	60	60	60																							
9) West Concrete Batching Plant (Operation)																															
Activity 1 - Site Formation	118	1056	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53														
10) West Pier (Optional)																															
Activity 1 - Site Formation	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50														
11) South Pier (Optional)																															
Activity 1 - Site Formation	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55														
12) Viewing Platform (Optional)																															
Activity 1 - Site Formation	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57														
Predicted Noise Level of this Project, dB (A)															74	74	74	74	74	72	72	72	72	72	72	72	72	72	72	72	72
															Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	
															72	74	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018										
						4	5	6	7	8	9	10	11	12	1	2	3											
1) Zone 2																												
Activity 4 - Basement and Underpass																												
Zone 2.1	115	677	-65	3	53	53	53	53	53																			
Zone 2.2	115	502	-62	3	56	56	56	56	56																			
Zone 2.3	114	343	-59	3	58	58	58	58	58																			
Zone 2.4	114	206	-54	3	63	63	63	63	63																			
Zone 2.5	114	196	-54	3	63	63	63	63	63																			
Zone 2.6	114	353	-59	3	58	58	58	58	58																			
Zone 2.7	115	517	-62	3	55	55	55	55	55																			
Zone 2.8	115	717	-65	3	52	52	52	52	52																			
Activity 5 - Superstructure																												
Zone 2.1	114	676	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
Zone 2.2	114	502	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Zone 2.3	116	343	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	61											
Zone 2.4	116	205	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65											
Zone 2.5	116	195	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65											
Zone 2.6	116	353	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.7	114	517	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Zone 2.8	114	716	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52											
2) Zone 3																												
Activity 5 - Superstructure	118	901	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
3) Zone 4																												
Activity 2 - Bored Piling	127	1271	-70	3	60	60	60																					
Activity 3 - Excavation	124	1271	-70	3	57	57	57	57	57	57	57																	
Activity 4 - Basement	123	1271	-70	3	56	56	56	56	56	56	56	56																
Activity 5 - Superstructure	124	1284	-70	3	57									57	57	57	57											
4) Zone 5																												
Activity 1 - Site Formation	124	1021	-68	3	59								59	59	59	59	59											
5) Park Construction - Zone B																												
Activity 1 - Site Formation	118	178	-53	3	68	68	68	68	68	68	68																	
6) Park Construction - Zone C																												
Activity 1 - Site Formation	124	1060	-69	3	58								58	58	58	58	58											
7) Flyover																												
Activity 1 - Site Formation	115	914	-67	3	51	51	51	51																				
8) East Concrete Batching Plant (Demolition)																												
Activity 1 - Site Formation	109	158	-52	3	60	60	60	60																				
9) West Concrete Batching Plant (Operation)																												
Activity 1 - Site Formation	118	1136	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52											
10) West Pier (Optional)																												
Activity 1 - Site Formation	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49											
11) South Pier (Optional)																												
Activity 1 - Site Formation	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
12) Viewing Platform (Optional)																												
Activity 1 - Site Formation	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58											
Predicted Noise Level of this Project, dB (A)															74	74	74	74	74	73	73	71	71	71	71	71	71	71
															2017		2018											
															Min	Max	Min	Max										
															71	74	71	71										

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction, dB	Calculated SPL, dB	2017												2018										
						4	5	6	7	8	9	10	11	12	1	2	3											
1) Zone 2																												
Activity 4 - Basement and Underpass																												
Zone 2.1	115	702	-65	3	53	53	53	53	53																			
Zone 2.2	115	527	-62	3	55	55	55	55	55																			
Zone 2.3	114	368	-59	3	58	58	58	58	58																			
Zone 2.4	114	215	-55	3	62	62	62	62	62																			
Zone 2.5	114	215	-55	3	62	62	62	62	62																			
Zone 2.6	114	378	-60	3	58	58	58	58	58																			
Zone 2.7	115	547	-63	3	55	55	55	55	55																			
Zone 2.8	115	737	-65	3	52	52	52	52	52																			
Activity 5 - Superstructure																												
Zone 2.1	114	701	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
Zone 2.2	114	527	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Zone 2.3	116	367	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.4	116	214	-55	3	65	65	65	65	65	65	65	65	65	65	65	65	65											
Zone 2.5	116	214	-55	3	65	65	65	65	65	65	65	65	65	65	65	65	65											
Zone 2.6	116	377	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.7	114	547	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Zone 2.8	114	736	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52											
2) Zone 3																												
Activity 5 - Superstructure	118	916	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
3) Zone 4																												
Activity 2 - Bored Piling	127	1292	-70	3	60	60	60																					
Activity 3 - Excavation	124	1292	-70	3	57	57	57	57	57	57																		
Activity 4 - Basement	123	1292	-70	3	56	56	56	56	56	56	56																	
Activity 5 - Superstructure	124	1279	-70	3	57								57	57	57	57	57											
4) Zone 5																												
Activity 1 - Site Formation	124	1038	-68	3	59							59	59	59	59	59	59											
5) Park Construction - Zone B																												
Activity 1 - Site Formation	118	223	-55	3	66	66	66	66	66	66	66																	
6) Park Construction - Zone C																												
Activity 1 - Site Formation	124	1071	-69	3	58							58	58	58	58	58	58											
7) Flyover																												
Activity 1 - Site Formation	115	930	-67	3	51	51	51	51																				
8) East Concrete Batching Plant (Demolition)																												
Activity 1 - Site Formation	109	183	-53	3	59	59	59	59																				
9) West Concrete Batching Plant (Operation)																												
Activity 1 - Site Formation	118	1151	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52											
10) West Pier (Optional)																												
Activity 1 - Site Formation	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49											
11) South Pier (Optional)																												
Activity 1 - Site Formation	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
12) Viewing Platform (Optional)																												
Activity 1 - Site Formation	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
Predicted Noise Level of this Project, dB (A)															73	73	73	73	72	72	71	71	71	71	71	71	71	71
															2017	2018												
															Min	Max	Min	Max										
															71	73	71	71										

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018														
						4	5	6	7	8	9	10	11	12	1	2	3															
1) Zone 2																																
Activity 4 - Basement and Underpass																																
Zone 2.1	115	685	-65	3	53	53	53	53	53																							
Zone 2.2	115	505	-62	3	56	56	56	56	56																							
Zone 2.3	114	355	-59	3	58	58	58	58	58																							
Zone 2.4	114	205	-54	3	63	63	63	63	63																							
Zone 2.5	114	165	-52	3	65	65	65	65	65																							
Zone 2.6	114	350	-59	3	58	58	58	58	58																							
Zone 2.7	115	515	-62	3	55	55	55	55	55																							
Zone 2.8	115	720	-65	3	52	52	52	52	52																							
Activity 5 - Superstructure																																
Zone 2.1	114	685	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53															
Zone 2.2	114	505	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.3	116	355	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.4	116	205	-54	3	65	65	65	65	65	65	65	65	65	65	65	65	65															
Zone 2.5	116	165	-52	3	67	67	67	67	67	67	67	67	67	67	67	67	67															
Zone 2.6	116	350	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60															
Zone 2.7	114	515	-62	3	55	55	55	55	55	55	55	55	55	55	55	55	55															
Zone 2.8	114	720	-65	3	52	52	52	52	52	52	52	52	52	52	52	52	52															
2) Zone 3																																
Activity 5 - Superstructure	118	905	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54															
3) Zone 4																																
Activity 2 - Bored Piling	127	1279	-70	3	60	60	60																									
Activity 3 - Excavation	124	1279	-70	3	57	57	57	57	57	57																						
Activity 4 - Basement	123	1279	-70	3	56	56	56	56	56	56	56																					
Activity 5 - Superstructure	124	1292	-70	3	57								57	57	57	57	57															
4) Zone 5																																
Activity 1 - Site Formation	124	1022	-68	3	59							59	59	59	59	59	59															
5) Park Construction - Zone B																																
Activity 1 - Site Formation	118	150	-51	3	69	69	69	69	69	69	69																					
6) Park Construction - Zone C																																
Activity 1 - Site Formation	124	1079	-69	3	58							58	58	58	58	58	58															
7) Flyover																																
Activity 1 - Site Formation	115	927	-67	3	51	51	51	51																								
8) East Concrete Batching Plant (Demolition)																																
Activity 1 - Site Formation	109	160	-52	3	60	60	60																									
9) West Concrete Batching Plant (Operation)																																
Activity 1 - Site Formation	118	1150	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52															
10) West Pier (Optional)																																
Activity 1 - Site Formation	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49															
11) South Pier (Optional)																																
Activity 1 - Site Formation	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55															
12) Viewing Platform (Optional)																																
Activity 1 - Site Formation	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58															
Predicted Noise Level of this Project, dB (A)															75	75	75	75	73	73	72	72	72	72	72	72	72	72	72	72	72	72
															2017		2018															
															Min	Max	Min	Max														
															72	75	72	72														

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB	Distance (m)	Distance Correction, dB	Facade Correction,	Calculated SPL,	2017												2018										
						4	5	6	7	8	9	10	11	12	1	2	3											
1) Zone 2																												
Activity 4 - Basement and Underpass																												
Zone 2.1	115	829	-66	3	51	51	51	51	51																			
Zone 2.2	115	660	-64	3	53	53	53	53	53																			
Zone 2.3	114	500	-62	3	55	55	55	55	55																			
Zone 2.4	114	350	-59	3	58	58	58	58	58																			
Zone 2.5	114	345	-59	3	58	58	58	58	58																			
Zone 2.6	114	501	-62	3	55	55	55	55	55																			
Zone 2.7	115	673	-65	3	53	53	53	53	53																			
Zone 2.8	115	866	-67	3	51	51	51	51	51																			
Activity 5 - Superstructure																												
Zone 2.1	114	829	-66	3	51	51	51	51	51	51	51	51	51	51	51	51	51											
Zone 2.2	114	659	-64	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
Zone 2.3	116	499	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
Zone 2.4	116	350	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.5	116	345	-59	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
Zone 2.6	116	501	-62	3	57	57	57	57	57	57	57	57	57	57	57	57	57											
Zone 2.7	114	672	-65	3	53	53	53	53	53	53	53	53	53	53	53	53	53											
Zone 2.8	114	866	-67	3	51	51	51	51	51	51	51	51	51	51	51	51	51											
2) Zone 3																												
Activity 5 - Superstructure	118	377	-60	3	62	62	62	62	62	62	62	62	62	62	62	62	62											
3) Zone 4																												
Activity 2 - Bored Piling	127	714	-65	3	65	65	65																					
Activity 3 - Excavation	124	714	-65	3	62	62	62	62	62	62	62																	
Activity 4 - Basement	123	714	-65	3	61	61	61	61	61	61	61																	
Activity 5 - Superstructure	124	727	-65	3	62								62	62	62	62	62											
4) Zone 5																												
Activity 1 - Site Formation	124	471	-61	3	66							66	66	66	66	66	66											
5) Park Construction - Zone B	118	433	-61	3	60	60	60	60	60	60	60																	
6) Park Construction - Zone C	124	487	-62	3	65							65	65	65	65	65	65											
7) Flyover	115	318	-58	3	60	60	60	60																				
8) East Concrete Batching Plant (Demolition)	109	704	-65	3	47	47	47																					
9) West Concrete Batching Plant (Operation)	118	452	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60											
10) West Pier (Optional)	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54											
11) South Pier (Optional)	117	477	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59											
12) Viewing Platform (Optional)	115	562	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55											
Predicted Noise Level of this Project, dB (A)															73	73	72	72	71	71	72	72	72	72	72	72	72	72
															2017		2018											
															Min	Max	Min	Max										
															71	73	72	72										

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 2						
	Activity 5 - Superstructure						
	Group 1						
	Crane, tower (electric)	CNP 049	95	4	50%	98	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	6	50%	117	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	6	50%	110	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	6	50%	114	
	Poker, vibratory, hand-held (electric)	[1]	102	30	50%	114	
	Bar bender and cutter (electric)	CNP 021	90	6	50%	95	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	103	
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110	
	Concrete lorry mixer	CNP 044	109	4	50%	112	
	Total SWL, dB (A)					121	
	Group 2						
	Drill/grinder, hand-held (electric)	CNP 065	98	15	30%	105	
	Water pump (electric)	CNP 281	88	11	30%	93	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	11	30%	117	
	Fork Lift Truck	[2]	104	11	30%	109	
	Hoist, passenger/ material (electric)	CNP 122	95	11	30%	100	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)					118	
	Maximum SWL, dB (A) of Activity 5					121	
	2	Zone 4					
		Activity 5 - Superstructure					
		Crane, tower (electric)	CNP 049	95	4	50%	98
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	111
Concrete pump, stationary/ lorry mounted		CNP 047	109	8	50%	115	
Poker, vibratory, hand-held (electric)		[1]	102	40	50%	115	
Bar bender and cutter (electric)		CNP 021	90	8	50%	96	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	9	100%	105	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	110	
Concrete lorry mixer		CNP 044	109	8	50%	115	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	106	
Water pump (electric)		CNP 281	88	14	30%	94	
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%	118	
Fork Lift Truck		[2]	104	14	30%	110	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%	101	
Total SWL, dB (A)					124		
3		Zone 5					
		Activity 1 - Site Formation					
		Breaker, excavator mounted (hydraulic)	CNP 028	122	2	60%	123
		Dump truck	CNP 067	117	2	60%	118
		Total SWL, dB (A)					124
		Activity 2 - Foundation Works					
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	60%	113
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	30%	110
		Piling Rig	[2]	112	2	60%	113
		Drill Rig	[1]	110	2	60%	111
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113	
	Piling, large diameter bored, grab and chisel	CNP 164	115	2	60%	116	
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	60%	101	
	Piling, large diameter bored, oscillator	CNP 165	115	2	60%	116	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	107	
	Grout Mixer	[1]	90	2	60%	91	
	Grout Pump	[1]	105	2	60%	106	
	Bar bender and cutter (electric)	CNP 021	90	2	60%	91	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Dump truck	CNP 067	117	1	30%	112	
	Concrete lorry mixer	CNP 044	109	1	60%	107	
	Welding Set	[2]	78	2	60%	79	
	Total SWL, dB (A)					123	
	Activity 3 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100		
Water pump (electric)	CNP 281	88	3	30%	88		
Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112		
Fork Lift Truck	[2]	104	3	30%	104		
Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95		
Total SWL, dB (A)					118		

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
4	Park Construction - Zone C							
	Dump truck	CNP 067	117	4	60%	121		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116		
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101		
	Lorry	CNP 141	112	4	60%	116		
	Total SWL, dB (A)						124	
5	West Concrete Batching Plant (Operation)							
	Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113		
	Concrete mixer (electric)	CNP 045	96	2	60%	97		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99		
	Concrete mixer (petrol)	CNP 046	96	6	60%	102		
	Concrete lorry mixer	CNP 044	109	4	60%	113		
	Batching plant	CNP 022	108	2	60%	109		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	4	60%	106		
	Tipper Lorry	BS 5228 Table D.3/112	113	2	30%	111		
	Total SWL, dB (A)						118	
6/7	Pier Construction (Optional)							
	Group 1							
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						112	
	Group 2							
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	4	60%	113		
	Water pump (electric)	CNP 281	88	4	100%	94		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Group 3							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Maximum SWL, dB (A)						117	
	8	Viewing Platform (Optional)						
		Group 1						
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
		Tug boat	CNP 221	110	1	60%	108	
		Total SWL, dB (A)						113
		Group 2						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
Total SWL, dB (A)						115		
Maximum SWL, dB (A)						115		

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	87	-47	3	77	77	77	77	77	77	77	77	77	77	77	77	77			
2) Zone 4																				
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
3) Zone 5																				
Activity 1 - Site Formation	124	407	-60	3	67	67														
Activity 2 - Foundation Works	123	407	-60	3	65		65	65	65	65	65	65	65							
Activity 3 - Superstructure	118	407	-60	3	61									61	61	61	61			
4) Park Construction - Zone C	124	432	-61	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
5) West Concrete Batching Plant (Operation)	118	506	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
6) West Pier (Optional)	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
7) South Pier (Optional)	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
8) Viewing Platform (Optional)	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Predicted Noise Level of this Project, dB (A)						78	78	78	78	78	78	78	78	78	78	78	78			
														2018		2019				
														Min	Max	Min	Max			
														78	78	78	78			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	140	-51	3	73	73	73	73	73	73	73	73	73	73	73	73	73			
2) Zone 4																				
Activity 5 - Superstructure	124	577	-63	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
3) Zone 5																				
Activity 1 - Site Formation	124	321	-58	3	69	69														
Activity 2 - Foundation Works	123	321	-58	3	68		68	68	68	68	68	68	68							
Activity 3 - Superstructure	118	321	-58	3	63									63	63	63	63			
4) Park Construction - Zone C	124	337	-59	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
5) West Concrete Batching Plant (Operation)	118	419	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
6) West Pier (Optional)	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
7) South Pier (Optional)	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
8) Viewing Platform (Optional)	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						76	76	76	76	76	76	76	76	76	76	76	76			
														2018		2019				
														Min	Max	Min	Max			
														76	76	76	76			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	104	-48	3	76	76	76	76	76	76	76	76	76	76	76	76	76			
2) Zone 4																				
Activity 5 - Superstructure	124	610	-64	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
3) Zone 5																				
Activity 1 - Site Formation	124	498	-62	3	65	65														
Activity 2 - Foundation Works	123	498	-62	3	64		64	64	64	64	64	64	64							
Activity 3 - Superstructure	118	498	-62	3	59									59	59	59	59			
4) Park Construction - Zone C	124	542	-63	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
5) West Concrete Batching Plant (Operation)	118	598	-64	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
6) West Pier (Optional)	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
7) South Pier (Optional)	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
8) Viewing Platform (Optional)	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Predicted Noise Level of this Project, dB (A)						77	77	77	77	77	77	77	77	77	77	77	77			
														2018		2019				
														Min	Max	Min	Max			
														77	77	77	77			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	216	-55	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
2) Zone 4																				
Activity 5 - Superstructure	124	1217	-70	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
3) Zone 5																				
Activity 1 - Site Formation	124	981	-68	3	59	59														
Activity 2 - Foundation Works	123	981	-68	3	58		58	58	58	58	58	58	58							
Activity 3 - Superstructure	118	981	-68	3	53									53	53	53	53			
4) Park Construction - Zone C	124	966	-68	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
5) West Concrete Batching Plant (Operation)	118	1056	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
6) West Pier (Optional)	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
7) South Pier (Optional)	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) Viewing Platform (Optional)	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)						71	71	71	71	71	71	71	71	71	71	71	71			
															2018		2019			
															Min	Max	Min	Max		
															71	71	71	71		

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 2																													
Activity 5 - Superstructure	121	255	-56	3	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68					
2) Zone 4																													
Activity 5 - Superstructure	124	1302	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57					
3) Zone 5																													
Activity 1 - Site Formation	124	1040	-68	3	59	59																							
Activity 2 - Foundation Works	123	1040	-68	3	57		57	57	57	57	57	57	57																
Activity 3 - Superstructure	118	1040	-68	3	53															53	53	53	53						
4) Park Construction - Zone C	124	1054	-68	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
5) West Concrete Batching Plant (Operation)	118	1140	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52					
6) West Pier (Optional)	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49					
7) South Pier (Optional)	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54					
8) Viewing Platform (Optional)	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56					
Predicted Noise Level of this Project, dB (A)						70	70	70	70	70	70	70	70	70	70	70	70	70	70	69	69	69	69	69	69				
																		2018		2019									
																		Min	Max	Min	Max								
																		69	70	69	69								

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019			
						4	5	6	7	8	9	10	11	12	1	2	3				
1) Zone 2																					
Activity 5 - Superstructure	121	259	-56	3	68	68	68	68	68	68	68	68	68	68	68	68	68				
2) Zone 4																					
Activity 5 - Superstructure	124	1284	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57				
3) Zone 5																					
Activity 1 - Site Formation	124	1021	-68	3	59	59															
Activity 2 - Foundation Works	123	1021	-68	3	57		57	57	57	57	57	57	57								
Activity 3 - Superstructure	118	1021	-68	3	53									53	53	53	53				
4) Park Construction - Zone C																					
Activity 3 - Superstructure	124	1060	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58				
5) West Concrete Batching Plant (Operation)																					
Activity 3 - Superstructure	118	1136	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52				
6) West Pier (Optional)																					
Activity 3 - Superstructure	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49				
7) South Pier (Optional)																					
Activity 3 - Superstructure	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54				
8) Viewing Platform (Optional)																					
Activity 3 - Superstructure	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58				
Predicted Noise Level of this Project, dB (A)																					
																		2018		2019	
																		Min	Max	Min	Max
																		69	70	69	69

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	195	-54	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
2) Zone 4																				
Activity 5 - Superstructure	124	1279	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 1 - Site Formation	124	1038	-68	3	59	59														
Activity 2 - Foundation Works	123	1038	-68	3	57		57	57	57	57	57	57	57							
Activity 3 - Superstructure	118	1038	-68	3	53									53	53	53	53			
4) Park Construction - Zone C																				
Activity 3 - Superstructure	124	1071	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
5) West Concrete Batching Plant (Operation)																				
Activity 3 - Superstructure	118	1151	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)																				
Activity 3 - Superstructure	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)																				
Activity 3 - Superstructure	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
8) Viewing Platform (Optional)																				
Activity 3 - Superstructure	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)						71	71	71	71	71	71	71	71	71	71	71	71			
														2018		2019				
														Min	Max	Min	Max			
														71	71	71	71			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019																			
						4	5	6	7	8	9	10	11	12	1	2	3																				
1) Zone 2																																					
Activity 5 - Superstructure	121	152	-52	3	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73													
2) Zone 4																																					
Activity 5 - Superstructure	124	1298	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57													
3) Zone 5																																					
Activity 1 - Site Formation	124	1026	-68	3	59	59																															
Activity 2 - Foundation Works	123	1026	-68	3	57		57	57	57	57	57	57	57																								
Activity 3 - Superstructure	118	1026	-68	3	53																53	53	53	53													
4) Park Construction - Zone C	124	1080	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58														
5) West Concrete Batching Plant (Operation)	118	1155	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52														
6) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49														
7) South Pier (Optional)	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55														
8) Viewing Platform (Optional)	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58														
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73													
																		2018		2019																	
																		Min	Max	Min	Max																
																		73	73	73	73																

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	54	-43	3	82	82	82	82	82	82	82	82	82	82	82	82	82			
2) Zone 4																				
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
3) Zone 5																				
Activity 1 - Site Formation	124	923	-67	3	60	60														
Activity 2 - Foundation Works	123	923	-67	3	58		58	58	58	58	58	58	58							
Activity 3 - Superstructure	118	923	-67	3	54									54	54	54	54			
4) Park Construction - Zone C	124	982	-68	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
5) West Concrete Batching Plant (Operation)	118	1050	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
6) West Pier (Optional)	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
7) South Pier (Optional)	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
8) Viewing Platform (Optional)	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Predicted Noise Level of this Project, dB (A)						82	82	82	82	82	82	82	82	82	82	82	82			
														2018		2019				
														Min	Max	Min	Max			
														82	82	82	82			

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 2																													
Activity 5 - Superstructure	121	287	-57	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67				
2) Zone 4																													
Activity 5 - Superstructure	124	727	-65	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62				
3) Zone 5																													
Activity 1 - Site Formation	124	470	-61	3	66	66																							
Activity 2 - Foundation Works	123	470	-61	3	64		64	64	64	64	64	64	64																
Activity 3 - Superstructure	118	470	-61	3	60																60	60	60	60	60				
4) Park Construction - Zone C	124	487	-62	3	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65				
5) West Concrete Batching Plant (Operation)	118	451	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60				
6) West Pier (Optional)	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54				
7) South Pier (Optional)	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59				
8) Viewing Platform (Optional)	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55				
Predicted Noise Level of this Project, dB (A)						72	72	72	72	72	72	72	72	72	72	72	71	71	71	71	71	71	71	71	71				
																				2018		2019							
																				Min	Max	Min	Max						

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P7

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	121	39	-40	3	84	84	84	84	84	84	84	84	84	84	84	84	84			
2) Zone 4																				
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
3) Zone 5																				
Activity 1 - Site Formation	124	845	-67	3	60	60														
Activity 2 - Foundation Works	123	845	-67	3	59		59	59	59	59	59	59	59							
Activity 3 - Superstructure	118	845	-67	3	55									55	55	55	55			
4) Park Construction - Zone C	124	897	-67	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
5) West Concrete Batching Plant (Operation)	118	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
6) West Pier (Optional)	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
7) South Pier (Optional)	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
8) Viewing Platform (Optional)	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
Predicted Noise Level of this Project, dB (A)						84	84	84	84	84	84	84	84	84	84	84	84			
														2018		2019				
														Min	Max	Min	Max			
														84	84	84	84			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P13

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019																						
						4	5	6	7	8	9	10	11	12	1	2	3																							
1) Zone 2																																								
Activity 5 - Superstructure	121	47	-41	3	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83														
2) Zone 4																																								
Activity 5 - Superstructure	124	958	-68	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60													
3) Zone 5																																								
Activity 1 - Site Formation	124	693	-65	3	62	62																																		
Activity 2 - Foundation Works	123	693	-65	3	61		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61													
Activity 3 - Superstructure	118	693	-65	3	56																			56	56	56	56													
4) Park Construction - Zone C																																								
Activity 4 - Park Construction	124	759	-66	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61													
5) West Concrete Batching Plant (Operation)																																								
Activity 5 - West Concrete Batching Plant	118	811	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55													
6) West Pier (Optional)																																								
Activity 6 - West Pier	117	1115	-69	3	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51													
7) South Pier (Optional)																																								
Activity 7 - South Pier	117	456	-61	3	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59													
8) Viewing Platform (Optional)																																								
Activity 8 - Viewing Platform	115	134	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67													
Predicted Noise Level of this Project, dB (A)						83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83												
																				2018		2019																		
																				Min	Max	Min	Max																	

Note: Bold figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P21

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2018												2019											
						4	5	6	7	8	9	10	11	12	1	2	3												
1) Zone 2																													
Activity 5 - Superstructure	121	40	-40	3	84	84	84	84	84	84	84	84	84	84	84														
2) Zone 4																													
Activity 5 - Superstructure	124	755	-66	3	62	62	62	62	62	62	62	62	62	62	62														
3) Zone 5																													
Activity 1 - Site Formation	124	490	-62	3	65	65																							
Activity 2 - Foundation Works	123	490	-62	3	64		64	64	64	64	64	64	64																
Activity 3 - Superstructure	118	490	-62	3	59											59	59	59	59										
4) Park Construction - Zone C																													
Activity 4 - Park Construction	124	586	-63	3	63	63	63	63	63	63	63	63	63	63	63														
5) West Concrete Batching Plant (Operation)																													
Activity 5 - West Concrete Batching Plant	118	626	-64	3	57	57	57	57	57	57	57	57	57	57	57														
6) West Pier (Optional)																													
Activity 6 - West Pier	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53														
7) South Pier (Optional)																													
Activity 7 - South Pier	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64														
8) Viewing Platform (Optional)																													
Activity 8 - Viewing Platform	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67														
Predicted Noise Level of this Project, dB (A)						84	84	84	84	84	84	84	84	84	84	84													
															2018		2019												
															Min	Max	Min	Max											
															84	84	84	84											

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 2						
	Activity 5 - Superstructure						
	Group 1						
	Crane, tower (electric)	CNP 049	95	3	50%	97	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	50%	115	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	50%	108	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	50%	112	
	Poker, vibratory, hand-held (electric)	[1]	102	16	50%	111	
	Bar bender and cutter (electric)	CNP 021	90	4	50%	93	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	101	
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Total SWL, dB (A)						119
	Group 2						
	Drill/grinder, hand-held (electric)	CNP 065	98	10	30%	103	
	Water pump (electric)	CNP 281	88	8	30%	92	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	8	30%	116	
	Fork Lift Truck	[2]	104	8	30%	108	
	Hoist, passenger/ material (electric)	CNP 122	95	8	30%	99	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
	Total SWL, dB (A)						117
	Maximum SWL, dB (A)						119
	2	Zone 4					
		Activity 5 - Superstructure					
		Crane, tower (electric)	CNP 049	95	4	50%	98
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	50%	111
Concrete pump, stationary/ lorry mounted		CNP 047	109	8	50%	115	
Poker, vibratory, hand-held (electric)		[1]	102	40	50%	115	
Bar bender and cutter (electric)		CNP 021	90	8	50%	96	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	8	100%	104	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	110	
Concrete lorry mixer		CNP 044	109	8	50%	115	
Drill/grinder, hand-held (electric)		CNP 065	98	20	30%	106	
Water pump (electric)		CNP 281	88	14	30%	94	
Excavator/ loader, wheeled/ tracked		CNP 081	112	14	30%	118	
Fork Lift Truck		[2]	104	14	30%	110	
Hoist, passenger/ material (electric)		CNP 122	95	14	30%	101	
Total SWL, dB (A)						124	
3		Zone 5					
		Activity 3 - Superstructure					
		Crane, tower (electric)	CNP 049	95	1	50%	92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105
		Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
		Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109
		Bar bender and cutter (electric)	CNP 021	90	2	50%	90
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
		Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
	Water pump (electric)	CNP 281	88	3	30%	88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112	
	Fork Lift Truck	[2]	104	3	30%	104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
	Total SWL, dB (A)						118
	4	Park Construction - Zone C					
		Dump truck	CNP 067	117	4	60%	121
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	4	60%	116
		Excavator/ loader, wheeled/ tracked	CNP 081	112	4	60%	116
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99
		Lorry	CNP 141	112	4	60%	116
	Total SWL, dB (A)						124
	5	West Concrete Batching Plant (Operation)					
		Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113
		Concrete mixer (electric)	CNP 045	96	2	60%	97
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	4	60%	99	
Concrete mixer (petrol)		CNP 046	96	6	60%	102	
Concrete lorry mixer		CNP 044	109	4	60%	113	
Batching plant		CNP 022	108	2	60%	109	
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	4	60%	106	
Tipper Lorry		BS 5228 Table D.3/112	113	2	30%	111	
Total SWL, dB (A)						118	

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
6/7	Pier Construction (Optional)							
	Group 1							
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						112	
	Group 2							
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	4	60%	113		
	Water pump (electric)	CNP 281	88	4	100%	94		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Group 3							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Maximum SWL, dB (A)						117	
	8	Viewing Platform (Optional)						
		Group 1						
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
		Tug boat	CNP 221	110	1	60%	108	
		Total SWL, dB (A)						113
		Group 2						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
Total SWL, dB (A)						115		
Maximum SWL, dB (A)						115		

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	155	-52	3	71	71	71	71	71	71	71	71	71	71	71	71	71			
2) Zone 4																				
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
3) Zone 5																				
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
4) Park Construction - Zone C	124	432	-61	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
5) West Concrete Batching Plant (Operation)	118	506	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
6) West Pier (Optional)	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
7) South Pier (Optional)	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
8) Viewing Platform (Optional)	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	73	73	73	73	73	73			
															2019		2020			
															Min	Max	Min	Max		
															73	73	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	199	-54	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
2) Zone 4																				
Activity 5 - Superstructure	124	577	-63	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
3) Zone 5																				
Activity 3 - Superstructure	118	321	-58	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
4) Park Construction - Zone C	124	337	-59	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
5) West Concrete Batching Plant (Operation)	118	419	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
6) West Pier (Optional)	117	756	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
7) South Pier (Optional)	117	327	-58	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
8) Viewing Platform (Optional)	115	412	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	73	72	72	72	72	72			
															2019		2020			
															Min	Max	Min	Max		
															72	73	72	72		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	133	-50	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
2) Zone 4																				
Activity 5 - Superstructure	124	610	-64	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
3) Zone 5																				
Activity 3 - Superstructure	118	498	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
4) Park Construction - Zone C	124	542	-63	3	64	64	64	64	64	64	64									
5) West Concrete Batching Plant (Operation)	118	598	-64	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
6) West Pier (Optional)	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
7) South Pier (Optional)	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
8) Viewing Platform (Optional)	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Predicted Noise Level of this Project, dB (A)						74	74	74	74	74	74	74	73	73	73	73	73			
															2019		2020			
															Min	Max	Min	Max		
															73	74	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	216	-55	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
2) Zone 4																				
Activity 5 - Superstructure	124	1217	-70	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
3) Zone 5																				
Activity 3 - Superstructure	118	981	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	966	-68	3	59	59	59	59	59	59	59									
5) West Concrete Batching Plant (Operation)	118	1056	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
6) West Pier (Optional)	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
7) South Pier (Optional)	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) Viewing Platform (Optional)	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)						69	69	69	69	69	69	69	69	69	69	69	69			
															2019		2020			
															Min	Max	Min	Max		
															69	69	69	69		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	255	-56	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
2) Zone 4																				
Activity 5 - Superstructure	124	1302	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 3 - Superstructure	118	1040	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	1054	-68	3	58	58	58	58	58	58	58									
5) West Concrete Batching Plant (Operation)	118	1140	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
8) Viewing Platform (Optional)	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Predicted Noise Level of this Project, dB (A)						68	68	68	68	68	68	68	68	68	68	68	68			
															2019	2020				
															Min	Max	Min	Max		
															68	68	68	68		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	157	-52	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
2) Zone 4																				
Activity 5 - Superstructure	124	1284	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 3 - Superstructure	118	1021	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	1060	-69	3	58	58	58	58	58	58	58									
5) West Concrete Batching Plant (Operation)	118	1136	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
8) Viewing Platform (Optional)	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						71	71	71	71	71	71	71	71	71	71	71	71			
															2019		2020			
															Min	Max	Min	Max		
															71	71	71	71		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	195	-54	3	69	69	69	69	69	69	69	69	69	69	69	69	69			
2) Zone 4																				
Activity 5 - Superstructure	124	1279	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 3 - Superstructure	118	1038	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	1071	-69	3	58	58	58	58	58	58	58									
5) West Concrete Batching Plant (Operation)	118	1151	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
8) Viewing Platform (Optional)	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
Predicted Noise Level of this Project, dB (A)						70	70	70	70	70	70	70	69	69	69	69	69			
						2019		2020												
						Min		Max		Min		Max								
						69		70		69		69								

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	149	-51	3	71	71	71	71	71	71	71	71	71	71	71	71	71			
2) Zone 4																				
Activity 5 - Superstructure	124	1292	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 3 - Superstructure	118	1022	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	1079	-69	3	58	58	58	58	58	58	58									
5) West Concrete Batching Plant (Operation)	118	1150	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) Viewing Platform (Optional)	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						72	72	72	72	72	72	72	72	72	72	72	72			
															2019		2020			
															Min	Max	Min	Max		
															72	72	72	72		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	152	-52	3	71	71	71	71	71	71	71	71	71	71	71	71	71			
2) Zone 4																				
Activity 5 - Superstructure	124	1298	-70	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
3) Zone 5																				
Activity 3 - Superstructure	118	1026	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
4) Park Construction - Zone C	124	1080	-69	3	58	58	58	58	58	58	58									
5) West Concrete Batching Plant (Operation)	118	1155	-69	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
6) West Pier (Optional)	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) South Pier (Optional)	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
8) Viewing Platform (Optional)	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						72	72	72	72	72	72	72	71	71	71	71	71			
															2019		2020			
															Min	Max	Min	Max		
															71	72	71	71		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	54	-43	3	80	80	80	80	80	80	80	80	80	80	80	80	80			
2) Zone 4																				
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
3) Zone 5																				
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
4) Park Construction - Zone C	124	982	-68	3	59	59	59	59	59	59	59									
5) West Concrete Batching Plant (Operation)	118	1050	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
6) West Pier (Optional)	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
7) South Pier (Optional)	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
8) Viewing Platform (Optional)	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Predicted Noise Level of this Project, dB (A)						80	80	80	80	80	80	80	80	80	80	80	80	80		
																2019		2020		
																Min	Max	Min	Max	
																80	80	80	80	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	348	-59	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
2) Zone 4																				
Activity 5 - Superstructure	124	727	-65	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
3) Zone 5																				
Activity 3 - Superstructure	118	470	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
4) Park Construction - Zone C	124	487	-62	3	65	65	65	65	65	65	65									
5) West Concrete Batching Plant (Operation)	118	451	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
6) West Pier (Optional)	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
7) South Pier (Optional)	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
8) Viewing Platform (Optional)	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Predicted Noise Level of this Project, dB (A)						70	70	70	70	70	70	70	69	69	69	69	69			
															2019		2020			
															Min	Max	Min	Max		
															69	70	69	69		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P7

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	39	-40	3	83	83	83	83	83	83	83	83	83	83	83	83	83	83		
2) Zone 4																				
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58		
3) Zone 5																				
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
4) Park Construction - Zone C	124	897	-67	3	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
5) West Concrete Batching Plant (Operation)	118	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
6) West Pier (Optional)	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
7) South Pier (Optional)	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57	57		
8) Viewing Platform (Optional)	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62	62		
Predicted Noise Level of this Project, dB (A)						83	83	83	83	83	83	83	83	83	83	83	83	83	83	
															2019	2020				
															Min	Max	Min	Max		
															83	83	83	83		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P13

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	103	-48	3	74	74	74	74	74	74	74	74	74	74	74	74	74			
2) Zone 4																				
Activity 5 - Superstructure	124	883	-67	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
3) Zone 5																				
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
4) Park Construction - Zone C																				
Activity 3 - Superstructure	124	751	-66	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
5) West Concrete Batching Plant (Operation)																				
Activity 3 - Superstructure	118	741	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
6) West Pier (Optional)																				
Activity 3 - Superstructure	117	1045	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
7) South Pier (Optional)																				
Activity 3 - Superstructure	117	426	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
8) Viewing Platform (Optional)																				
Activity 3 - Superstructure	115	81	-46	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
Predicted Noise Level of this Project, dB (A)						77	77	77	77	77	77	77	76	76	76	76	76			
														2019	2020					
														Min	Max	Min	Max			
														76	77	76	76			

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	33	-38	3	84	84	84	84	84	84	84	84	84	84	84	84	84			
2) Zone 4																				
Activity 5 - Superstructure	124	813	-66	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
3) Zone 5																				
Activity 3 - Superstructure	118	553	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
4) Park Construction - Zone C	124	680	-65	3	62	62	62	62	62	62	62									
5) West Concrete Batching Plant (Operation)	118	670	-65	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
6) West Pier (Optional)	117	975	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
7) South Pier (Optional)	117	355	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
8) Viewing Platform (Optional)	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
Predicted Noise Level of this Project, dB (A)						84	84	84	84	84	84	84	84	84	84	84	84			
																2019		2020		
																Min	Max	Min	Max	
																84	84	84	84	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P21

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	40	-40	3	82	82	82	82	82	82	82	82	82	82	82	82	82			
2) Zone 4																				
Activity 5 - Superstructure	124	755	-66	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
3) Zone 5																				
Activity 3 - Superstructure	118	490	-62	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
4) Park Construction - Zone C	124	586	-63	3	63	63	63	63	63	63	63									
5) West Concrete Batching Plant (Operation)	118	626	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
6) West Pier (Optional)	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
7) South Pier (Optional)	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
8) Viewing Platform (Optional)	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
Predicted Noise Level of this Project, dB (A)						83	83	83	83	83	83	83	83	83	83	83	83			
															2019	2020				
															Min	Max	Min	Max		
															83	83	83	83		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P26

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	41	-40	3	82	82	82	82	82	82	82	82	82	82	82	82	82			
2) Zone 4																				
Activity 5 - Superstructure	124	664	-64	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
3) Zone 5																				
Activity 3 - Superstructure	118	399	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
4) Park Construction - Zone C	124	541	-63	3	64	64	64	64	64	64	64									
5) West Concrete Batching Plant (Operation)	118	536	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
6) West Pier (Optional)	117	821	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
7) South Pier (Optional)	117	193	-54	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
8) Viewing Platform (Optional)	115	233	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Predicted Noise Level of this Project, dB (A)						83	83	83	83	83	83	83	82	82	82	82	82			
															2019		2020			
															Min	Max	Min	Max		
															82	83	82	82		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P29

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	162	-52	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
2) Zone 4																				
Activity 5 - Superstructure	124	537	-63	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
3) Zone 5																				
Activity 3 - Superstructure	118	279	-57	3	64	64	64	64	64	64	64	64	64	64	64	64	64			
4) Park Construction - Zone C	124	356	-59	3	68	68	68	68	68	68	68	68	68	68	68	68	68			
5) West Concrete Batching Plant (Operation)	118	396	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
6) West Pier (Optional)	117	706	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
7) South Pier (Optional)	117	217	-55	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
8) Viewing Platform (Optional)	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Predicted Noise Level of this Project, dB (A)						74	74	74	74	74	74	74	73	73	73	73	73			
															2019		2020			
															Min	Max	Min	Max		
															73	74	73	73		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P32

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2019												2020		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 2																				
Activity 5 - Superstructure	119	163	-52	3	70	70	70	70	70	70	70	70	70	70	70	70	70			
2) Zone 4																				
Activity 5 - Superstructure	124	530	-62	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
3) Zone 5																				
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65	65	65	65	65	65	65			
4) Park Construction - Zone C	124	410	-60	3	66	66	66	66	66	66	66	66	66	66	66	66	66			
5) West Concrete Batching Plant (Operation)	118	420	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
6) West Pier (Optional)	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
7) South Pier (Optional)	117	109	-49	3	72	72	72	72	72	72	72	72	72	72	72	72	72			
8) Viewing Platform (Optional)	115	353	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Predicted Noise Level of this Project, dB (A)						76	76	76	76	76	76	76	76	76	76	76	76			
															2019		2020			
															Min	Max	Min	Max		
															75	76	75	75		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
1	Zone 2 (for superstructure only)							
	Activity 5 - Superstructure							
	Group 1							
		Crane, tower (electric)	CNP 049	95	2	50%	95	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	3	50%	114	
		Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	3	50%	107	
		Concrete pump, stationary/ lorry mounted	CNP 047	109	3	50%	111	
		Poker, vibratory, hand-held (electric)	[1]	102	12	50%	110	
		Bar bender and cutter (electric)	CNP 021	90	3	50%	92	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100	
		Air compressor, air flow > 30m3/min	CNP 003	104	3	100%	109	
		Concrete lorry mixer	CNP 044	109	3	50%	111	
		Total SWL, dB (A)					119	
	Group 2							
		Drill/grinder, hand-held (electric)	CNP 065	98	8	30%	102	
		Water pump (electric)	CNP 281	88	6	30%	91	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	115	
		Fork Lift Truck	[2]	104	6	30%	107	
		Hoist, passenger/ material (electric)	CNP 122	95	6	30%	98	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95	
		Total SWL, dB (A)					116	
		Maximum SWL, dB (A)					119	
	2	Zone 4						
		Activity 5 - Superstructure						
			Crane, tower (electric)	CNP 049	95	4	50%	98
			Crane, mobile/ barge mounted (diesel)	CNP 048	112	8	50%	118
			Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	8	50%	111
		Concrete pump, stationary/ lorry mounted	CNP 047	109	8	50%	115	
		Poker, vibratory, hand-held (electric)	[1]	102	40	50%	115	
		Bar bender and cutter (electric)	CNP 021	90	8	50%	96	
		Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	104	
		Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	110	
		Concrete lorry mixer	CNP 044	109	8	50%	115	
		Drill/grinder, hand-held (electric)	CNP 065	98	20	30%	106	
		Water pump (electric)	CNP 281	88	14	30%	94	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	14	30%	118	
		Fork Lift Truck	[2]	104	14	30%	110	
		Hoist, passenger/ material (electric)	CNP 122	95	14	30%	101	
		Total SWL, dB (A)					124	
3		Zone 5						
		Activity 3 - Superstructure						
			Crane, tower (electric)	CNP 049	95	1	50%	92
			Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
			Crane Lorry 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
			Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109
			Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109
			Bar bender and cutter (electric)	CNP 021	90	2	50%	90
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
			Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104
		Concrete lorry mixer	CNP 044	109	2	50%	109	
		Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
		Water pump (electric)	CNP 281	88	3	30%	88	
		Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112	
		Fork Lift Truck	[2]	104	3	30%	104	
		Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
		Total SWL, dB (A)					118	
	4	West Concrete Batching Plant (Operation)						
			Excavator/ loader, wheeled/ tracked	CNP 081	112	2	60%	113
			Concrete mixer (electric)	CNP 045	96	2	60%	97
			Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	99
			Concrete mixer (petrol)	CNP 046	96	6	60%	102
			Concrete lorry mixer	CNP 044	109	4	60%	113
			Batching plant	CNP 022	108	2	60%	109
			Air compressor, air flow > 10m3/min and ≤ 30m3/min	CNP 002	102	4	60%	106
			Tipper Lorry	BS 5228 Table D.3/112	113	2	30%	111
			Total SWL, dB (A)					118

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)		
5	Modification of seawalls and construction of seawater intake / outfall							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
Total SWL, dB (A)						117		
6/7	Pier Construction (Optional)							
	Group 1							
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						112	
	Group 2							
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	4	60%	113		
	Water pump (electric)	CNP 281	88	4	100%	94		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Group 3							
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105		
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112		
	Concrete lorry mixer	CNP 044	109	2	60%	110		
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107		
	Tug boat	CNP 221	110	1	60%	108		
	Total SWL, dB (A)						117	
	Maximum SWL, dB (A)						117	
	8	Viewing Platform (Optional)						
		Group 1						
		Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
		Tug boat	CNP 221	110	1	60%	108	
		Total SWL, dB (A)						113
		Group 2						
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
Total SWL, dB (A)						115		
Maximum SWL, dB (A)						115		

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
 [2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	155	-52	3	70	70	70	70	70	70	70	70	70	70	70		
2) Zone 4																	
Activity 5 - Superstructure	124	668	-64	3	63	63	63	63	63	63	63						
3) Zone 5																	
Activity 3 - Superstructure	118	407	-60	3	61	61	61	61	61	61	61						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	506	-62	3	59	59	59	59	59	59	59	59	59	59	59		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	816	-66	3	54				54	54	54	54	54	54	54		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	841	-66	3	53				53	53	53	53	53	53	53		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	846	-67	3	54	54	54	54	54	54	54	54	54	54	54		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	347	-59	3	62	62	62	62	62	62	62	62	62	62	62		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	342	-59	3	59	59	59	59	59	59	59	59	59	59	59		
Predicted Noise Level of this Project, dB (A)						72	72	72	72	72	72	71	71	71	71	72	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	133	-50	3	71	71	71	71	71	71	71	71	71	71	71		
2) Zone 4																	
Activity 5 - Superstructure	124	610	-64	3	64	64	64	64	64	64	64						
3) Zone 5																	
Activity 3 - Superstructure	118	498	-62	3	59	59	59	59	59	59	59						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	598	-64	3	58	58	58	58	58	58	58	58	58	58	58		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	901	-67	3	53				53	53	53	53	53	53	53		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	936	-67	3	53				53	53	53	53	53	53	53		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	936	-67	3	53	53	53	53	53	53	53	53	53	53	53		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	396	-60	3	60	60	60	60	60	60	60	60	60	60	60		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	297	-57	3	61	61	61	61	61	61	61	61	61	61	61		
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	72	72	72	72	73	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	432	-61	3	61	61	61	61	61	61	61	61	61	61	61		
2) Zone 4																	
Activity 5 - Superstructure	124	1217	-70	3	58	58	58	58	58	58	58						
3) Zone 5																	
Activity 3 - Superstructure	118	981	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1056	-68	3	53	53	53	53	53	53	53	53	53	53	53		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1351	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1391	-71	3	50	50	50	50	50	50	50	50	50	50	50		
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	771	-66	3	55	55	55	55	55	55	55	55	55	55	55		
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	447	-61	3	57	57	57	57	57	57	57	57	57	57	57		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	506	-62	3	59	59	59	59	59	59	59	59	59	59	59		
2) Zone 4																	
Activity 5 - Superstructure	124	1302	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1040	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1140	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1425	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1475	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	845	-67	3	54	54	54	54	54	54	54	54	54	54	54		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	508	-62	3	56	56	56	56	56	56	56	56	56	56	56		
Predicted Noise Level of this Project, dB (A)						64	64	64	64	64	64	63	63	63	63		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	461	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1284	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1021	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1136	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1401	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1451	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	786	-66	3	54	54	54	54	54	54	54	54	54	54	54		
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	422	-61	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	487	-62	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1279	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1038	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 3 - Superstructure	118	1151	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1426	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 3 - Superstructure	117	1471	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 3 - Superstructure	117	816	-66	3	54	54	54	54	54	54	54	54	54	54	54		
8) Viewing Platform (Optional)																	
Activity 3 - Superstructure	115	462	-61	3	57	57	57	57	57	57	57	57	57	57	57		
Predicted Noise Level of this Project, dB (A)						64	64	64	64	64	64	63	63	63	63	64	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	464	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1292	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1022	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1150	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1400	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	780	-66	3	55	55	55	55	55	55	55	55	55	55	55		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	398	-60	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	465	-61	3	60	60	60	60	60	60	60	60	60	60	60		
2) Zone 4																	
Activity 5 - Superstructure	124	1298	-70	3	57	57	57	57	57	57	57						
3) Zone 5																	
Activity 3 - Superstructure	118	1026	-68	3	53	53	53	53	53	53							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1155	-69	3	52	52	52	52	52	52	52	52	52	52	52		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49				49	49	49	49	49	49	49		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1410	-71	3	49				49	49	49	49	49	49	49		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1455	-71	3	49	49	49	49	49	49	49	49	49	49	49		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	775	-66	3	55	55	55	55	55	55	55	55	55	55	55		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	400	-60	3	58	58	58	58	58	58	58	58	58	58	58		
Predicted Noise Level of this Project, dB (A)						65	65	65	65	65	65	64	64	64	64		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	362	-59	3	62	62	62	62	62	62	62	62	62	62	62		
2) Zone 4																	
Activity 5 - Superstructure	124	1192	-70	3	58	58	58	58	58	58	58						
3) Zone 5																	
Activity 3 - Superstructure	118	923	-67	3	54	54	54	54	54	54							
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	1050	-68	3	53	53	53	53	53	53	53	53	53	53	53		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50				50	50	50	50	50	50	50		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1315	-70	3	50				50	50	50	50	50	50	50		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	1350	-71	3	50	50	50	50	50	50	50	50	50	50	50		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	291	-57	3	61	61	61	61	61	61	61	61	61	61	61	61	61
Predicted Noise Level of this Project, dB (A)						66	66	66	67	67	67	66	66	66	66	66	67
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	348	-59	3	63	63	63	63	63	63	63	63	63	63	63		
2) Zone 4																	
Activity 5 - Superstructure	124	727	-65	3	62	62	62	62	62	62	62						
3) Zone 5																	
Activity 3 - Superstructure	118	470	-61	3	60	60	60	60	60	60	60						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	451	-61	3	60	60	60	60	60	60	60	60	60	60	60		
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	801	-66	3	54				54	54	54	54	54	54	54		
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	876	-67	3	53				53	53	53	53	53	53	53		
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	826	-66	3	54	54	54	54	54	54	54	54	54	54	54		
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	476	-62	3	59	59	59	59	59	59	59	59	59	59	59		
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	561	-63	3	55	55	55	55	55	55	55	55	55	55	55		
Predicted Noise Level of this Project, dB (A)						68	68	68	69	69	69	67	67	67	67		
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P7

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020												
						4	5	6	7	8	9	10	11	12				
1) Zone 2																		
Activity 5 - Superstructure	119	252	-56	3	65	65	65	65	65	65	65	65	65	65	65	65	65	
2) Zone 4																		
Activity 5 - Superstructure	124	1109	-69	3	58	58	58	58	58	58	58	58	58	58	58	58	58	
3) Zone 5																		
Activity 3 - Superstructure	118	845	-67	3	55	55	55	55	55	55	55	55	55	55	55	55	55	
4) West Concrete Batching Plant (Operation)																		
Activity 5 - Superstructure	118	958	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53	
5) Modification of seawalls and construction of seawater intake / outfall																		
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50					50	50	50	50	50	50	50	50	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1225	-70	3	50					50	50	50	50	50	50	50	50	
6) West Pier (Optional)																		
Activity 5 - Superstructure	117	1265	-70	3	50	50	50	50	50	50	50	50	50	50	50	50	50	
7) South Pier (Optional)																		
Activity 5 - Superstructure	117	606	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57	
8) Viewing Platform (Optional)																		
Activity 5 - Superstructure	115	257	-56	3	62	62	62	62	62	62	62	62	62	62	62	62	62	
Predicted Noise Level of this Project, dB (A)						68	68	68	68	68	68	68	68	68	68	68	68	68
																2020		
																Min	Max	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P13

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																			
						4	5	6	7	8	9	10	11	12											
1) Zone 2																									
Activity 5 - Superstructure	119	102	-48	3	73	73	73	73	73	73	73	73	73	73	73	73	73								
2) Zone 4																									
Activity 5 - Superstructure	124	883	-67	3	60	60	60	60	60	60	60	60	60	60	60	60	60								
3) Zone 5																									
Activity 3 - Superstructure	118	623	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	57								
4) West Concrete Batching Plant (Operation)																									
Activity 5 - Superstructure	118	741	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	56								
5) Modification of seawalls and construction of seawater intake / outfall																									
Intake of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51	51	51								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	1075	-69	3	51					51	51	51	51	51	51	51	51								
6) West Pier (Optional)																									
Activity 5 - Superstructure	117	1045	-68	3	52	52	52	52	52	52	52	52	52	52	52	52	52								
7) South Pier (Optional)																									
Activity 5 - Superstructure	117	426	-61	3	60	60	60	60	60	60	60	60	60	60	60	60	60								
8) Viewing Platform (Optional)																									
Activity 5 - Superstructure	115	81	-46	3	72	72	72	72	72	72	72	72	72	72	72	72	72								
Predicted Noise Level of this Project, dB (A)						76	76	76	76	76	76	76	76	76	76	76	76	76							
																2020									
																Min	Max								

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
1) Zone 2																										
Activity 5 - Superstructure	119	32	-38	3	83	83	83	83	83	83	83	83	83	83	83	83	83									
2) Zone 4																										
Activity 5 - Superstructure	124	813	-66	3	61	61	61	61	61	61	61	61	61	61	61	61	61									
3) Zone 5																										
Activity 3 - Superstructure	118	553	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58									
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	118	670	-65	3	57	57	57	57	57	57	57	57	57	57	57	57	57									
5) Modification of seawalls and construction of seawater intake / outfall																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53					53	53	53	53	53	53	53	53									
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	940	-67	3	53					53	53	53	53	53	53	53	53									
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	975	-68	3	53	53	53	53	53	53	53	53	53	53	53	53	53									
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	355	-59	3	61	61	61	61	61	61	61	61	61	61	61	61	61									
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	115	161	-52	3	66	66	66	66	66	66	66	66	66	66	66	66	66									
Predicted Noise Level of this Project, dB (A)						84	84	84	84	84	84	84	83	83	83	83	83	84								

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P21

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	40	-40	3	81	81	81	81	81	81	81	81	81	81			
2) Zone 4																	
Activity 5 - Superstructure	124	755	-66	3	62	62	62	62	62	62	62						
3) Zone 5																	
Activity 3 - Superstructure	118	490	-62	3	59	59	59	59	59	59	59						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	626	-64	3	57	57	57	57	57	57	57	57	57	57	57	57	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53				53	53	53	53	53	53	53	53	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	890	-67	3	53				53	53	53	53	53	53	53	53	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	910	-67	3	53	53	53	53	53	53	53	53	53	53	53	53	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	257	-56	3	64	64	64	64	64	64	64	64	64	64	64	64	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	148	-51	3	67	67	67	67	67	67	67	67	67	67	67	67	
Predicted Noise Level of this Project, dB (A)						82	82	82	82	82	82	82	82	82	82	82	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P26

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020																				
						4	5	6	7	8	9	10	11	12												
1) Zone 2																										
Activity 5 - Superstructure	119	41	-40	3	81	81	81	81	81	81	81	81	81	81	81	81	81	81								
2) Zone 4																										
Activity 5 - Superstructure	124	664	-64	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63								
3) Zone 5																										
Activity 3 - Superstructure	118	399	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	61	61								
4) West Concrete Batching Plant (Operation)																										
Activity 5 - Superstructure	118	536	-63	3	58	58	58	58	58	58	58	58	58	58	58	58	58	58								
5) Modification of seawalls and construction of seawater intake / outfall																										
Intake of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54	54	54								
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	791	-66	3	54					54	54	54	54	54	54	54	54	54								
6) West Pier (Optional)																										
Activity 5 - Superstructure	117	821	-66	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54								
7) South Pier (Optional)																										
Activity 5 - Superstructure	117	193	-54	3	67	67	67	67	67	67	67	67	67	67	67	67	67	67								
8) Viewing Platform (Optional)																										
Activity 5 - Superstructure	115	233	-55	3	63	63	63	63	63	63	63	63	63	63	63	63	63	63								
Predicted Noise Level of this Project, dB (A)						82	82	82	82	82	82	82	82	82	82	82	82	82	82							
																		2020								
																		Min	Max							

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P29

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	162	-52	3	69	69	69	69	69	69	69	69	69	69			
2) Zone 4																	
Activity 5 - Superstructure	124	537	-63	3	65	65	65	65	65	65	65						
3) Zone 5																	
Activity 3 - Superstructure	118	279	-57	3	64	64	64	64	64	64	64						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	396	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	681	-65	3	55				55	55	55	55	55	55	55	55	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	701	-65	3	55				55	55	55	55	55	55	55	55	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	706	-65	3	55	55	55	55	55	55	55	55	55	55	55	55	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	217	-55	3	66	66	66	66	66	66	66	66	66	66	66	66	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	376	-60	3	58	58	58	58	58	58	58	58	58	58	58	58	
Predicted Noise Level of this Project, dB (A)						73	73	73	73	73	73	72	72	72	72	73	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Unmitigated Construction Noise Impact

NSR: P32

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB	Facade Correction, dB(A)	Calculated SPL, dB(A)	2020											
						4	5	6	7	8	9	10	11	12			
1) Zone 2																	
Activity 5 - Superstructure	119	163	-52	3	69	69	69	69	69	69	69	69	69	69			
2) Zone 4																	
Activity 5 - Superstructure	124	530	-62	3	65	65	65	65	65	65	65						
3) Zone 5																	
Activity 3 - Superstructure	118	266	-56	3	65	65	65	65	65	65	65						
4) West Concrete Batching Plant (Operation)																	
Activity 5 - Superstructure	118	420	-60	3	61	61	61	61	61	61	61	61	61	61	61	61	
5) Modification of seawalls and construction of seawater intake / outfall																	
Intake of Independent Coolinh System for MPV/EC & Hotel	117	660	-64	3	56				56	56	56	56	56	56	56	56	
Outfall of Independent Coolinh System for MPV/EC & Hotel	117	655	-64	3	56				56	56	56	56	56	56	56	56	
6) West Pier (Optional)																	
Activity 5 - Superstructure	117	680	-65	3	56	56	56	56	56	56	56	56	56	56	56	56	
7) South Pier (Optional)																	
Activity 5 - Superstructure	117	109	-49	3	72	72	72	72	72	72	72	72	72	72	72	72	
8) Viewing Platform (Optional)																	
Activity 5 - Superstructure	115	353	-59	3	59	59	59	59	59	59	59	59	59	59	59	59	
Predicted Noise Level of this Project, dB (A)						75	75	75	75	75	75	74	74	74	74	75	
														2020			
														Min	Max		

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria
Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
1	Zone 1						
	Activity 5 - Superstructure						
	Crane, tower (electric)	CNP 049	95	1	50%	92	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100	
	Water pump (electric)	CNP 281	88	3	30%	88	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112	
	Fork Lift Truck	[2]	104	3	30%	104	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95	
	Total SWL, dB (A)					118	
	2	Zone 2					
		Activity 5 - Superstructure					
Group 1							
Crane, tower (electric)		CNP 049	95	4	50%	98	
Crane, mobile/ barge mounted (diesel)		CNP 048	112	4	50%	115	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	4	50%	108	
Concrete pump, stationary/ lorry mounted		CNP 047	109	4	50%	112	
Poker, vibratory, hand-held (electric)		[1]	102	12	50%	110	
Bar bender and cutter (electric)		CNP 021	90	6	50%	95	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	4	100%	101	
Air compressor, air flow > 30m3/min		CNP 003	104	4	100%	110	
Concrete lorry mixer		CNP 044	109	4	50%	112	
Total SWL, dB (A)					120		
Group 2							
Drill/grinder, hand-held (electric)		CNP 065	98	12	30%	104	
Water pump (electric)		CNP 281	88	8	30%	92	
Excavator/ loader, wheeled/ tracked		CNP 081	112	8	30%	116	
Fork Lift Truck		[2]	104	8	30%	108	
Hoist, passenger/ material (electric)		CNP 122	95	8	30%	99	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	95	
Total SWL, dB (A)					117		
Maximum SWL, dB (A)					120		
3		Zone 3					
		Activity 5 - Superstructure					
		Crane, tower (electric)	CNP 049	95	1	50%	92
		Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109	
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	109	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104	
	Concrete lorry mixer	CNP 044	109	2	50%	109	
	Drill/grinder, hand-held (electric)	CNP 065	98	6	30%	101	
	Water pump (electric)	CNP 281	88	4	30%	89	
	Excavator/ loader, wheeled/ tracked	CNP 081	112	4	30%	113	
	Fork Lift Truck	[2]	104	4	30%	105	
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%	96	
	Total SWL, dB (A)					118	
	4/5/6	Flyover / Anchorage Footbridge / Kowloon Park Footbridge					
		Group 1					
Air compressor, air flow > 10m3/min and <= 30m3/min		CNP 002	102	1	100%	102	
Breaker, hand-held, mass > 35kg		CNP 026	114	1	30%	109	
Crane, mobile/ barge mounted (diesel)		CNP 048	112	1	100%	112	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	70%	103	
Bar bender and cutter (electric)		CNP 021	90	1	80%	89	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	95	
Total SWL, dB (A)					114		
Group 2							
Breaker, excavator mounted (pneumatic)		CNP 027	122	1	30%	117	
Breaker, hand-held, mass > 10kg and < 20kg		CNP 024	108	1	30%	103	
Concrete lorry mixer		CNP 044	109	1	50%	106	
Poker, vibratory, hand-held (electric)		[1]	102	2	50%	102	
Grout pump		[1]	105	1	20%	98	
Saw, circular, wood		CNP 201	108	1	80%	107	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	95	
Total SWL, dB (A)					118		
Maximum SWL, dB (A)					118		
7	West Concrete Batching Plant (Demolition)						
	Tracked crane (30kW)	BS 5228 Table D.7/105	108	2	60%	109	
	Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	60%	101	
	Welding set	[2]	78	2	60%	79	
Total SWL, dB (A)					109		
8/9	Pier Construction (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)					112	
	Group 2						
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	4	60%	113	
	Water pump (electric)	CNP 281	88	4	100%	94	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Tug boat	CNP 221	110	1	60%	108	
	Total SWL, dB (A)					117	

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)	
	Group 3						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110	
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	112	
	Concrete lorry mixer	CNP 044	109	2	60%	110	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	107	
	Tug boat	CNP 221	110	1	60%	108	
						Total SWL, dB (A)	117
						Maximum SWL, dB (A)	117
10	Viewing Platform (Optional)						
	Group 1						
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	100	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	80%	111	
	Tug boat	CNP 221	110	1	60%	108	
						Total SWL, dB (A)	113
	Group 2						
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
						Total SWL, dB (A)	115
						Maximum SWL, dB (A)	115
11	Fire Services Department Staff Quarter Demolition						
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	2	100%	105	
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	112	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	100%	115	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	70%	106	
	Generator, silenced, 75 dB(A) at 7 m	CNP 102	100	2	60%	101	
	Welding set	[2]	78	2	60%	79	
						Total SWL, dB (A)	117
	Excluded Area (Fire Service Department Staff Quarter)						
	Activity 1 - D Walling						
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
Air compressor, air flow > 10m3/min	CNP 003	104	1	100%	104		
Piling, diaphragm wall, hydraulic extractor	CNP 163	90	1	60%	88		
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
Grout Mixer	[1]	90	1	60%	88		
Water pump, submersible (electric)	CNP 283	85	1	60%	83		
Dump truck	CNP 067	117	1	30%	112		
Concrete lorry mixer	CNP 044	109	1	60%	107		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
					Total SWL, dB (A)	116	
Activity 2 - Bored Piling							
Group 1							
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	30%	107		
Piling Rig	[2]	112	1	60%	110		
Drill Rig	[1]	110	1	60%	108		
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
Piling, large diameter bored, grab and chisel	CNP 164	115	1	60%	113		
Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	60%	98		
Piling, large diameter bored, oscillator	CNP 165	115	1	60%	113		
Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
Welding Set	[2]	78	1	60%	76		
					Total SWL, dB (A)	119	
Group 2							
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
Grout Mixer	[1]	90	1	60%	88		
Grout Pump	[1]	105	1	60%	103		
Bar bender and cutter (electric)	CNP 021	90	1	60%	88		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
Dump truck	CNP 067	117	1	30%	112		
Concrete lorry mixer	CNP 044	109	1	60%	107		
					Total SWL, dB (A)	115	
					Maximum SWL, dB (A) of Activity 2	119	
Activity 3 - Excavation							
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
Excavator/ loader, wheeled/ tracked	CNP 081	112	1	60%	110		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
Dump truck	CNP 067	117	2	30%	115		
					Total SWL, dB (A)	117	
Activity 4 - Basement and Underpass							
Crane, tower (electric)	CNP 049	95	1	60%	93		
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	110		
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	103		
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	107		
Poker, vibratory, hand-held (electric)	[1]	102	5	60%	107		
Bar bender and cutter (electric)	CNP 021	90	1	60%	88		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95		
Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
Concrete lorry mixer	CNP 044	109	1	60%	107		
					Total SWL, dB (A)	115	
Activity 5 - Superstructure							
Crane, tower (electric)	CNP 049	95	1	50%	92		
Crane, mobile/ barge mounted (diesel)	CNP 048	112	2	50%	112		
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	105		
Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	109		
Poker, vibratory, hand-held (electric)	[1]	102	5	50%	106		
Bar bender and cutter (electric)	CNP 021	90	2	50%	90		
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98		
Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	104		
Concrete lorry mixer	CNP 044	109	2	50%	109		
Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	100		
Water pump (electric)	CNP 281	88	3	30%	88		
Excavator/ loader, wheeled/ tracked	CNP 081	112	3	30%	112		
Fork Lift Truck	[2]	104	3	30%	104		
Hoist, passenger/ material (electric)	CNP 122	95	3	30%	95		
					Total SWL, dB (A)	118	

Note: [1] Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLs.pdf
 [2] SWL of Welding Plant and Piling Rig are referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link (AEIAR-143/2009)

Unmitigated Construction Noise Impact

NSR: HT1 (The Harbourside Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	515	-62	3	59	59	59	59	59		
2) Zone 2											
Activity 5 - Superstructure	120	184	-53	3	69	69	69	69	69		
3) Zone 3											
Activity 5 - Superstructure	118	303	-58	3	64	64	64	64	64		
4) Anchorage Footbridge	118	325	-58	3	63	63	63	63	63		
5) Kowloon Park Footbridge (West)	118	643	-64	3	57					57	
6) Kowloon Park Footbridge (South)	118	574	-63	3	58					58	
7) West Concrete Batching Plant (Demolition)	109	506	-62	3	50	50					
8) West Pier (Optional)	117	846	-67	3	54	54					
9) South Pier (Optional)	117	347	-59	3	62	62					
10) Viewing Platform (Optional)	115	342	-59	3	59	59					
11) Fire Services Department Staff Quarter Demolition	117	551	-63	3	58			58			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	551	-63	3	56				56		
Activity 2 - Bored Piling	119	551	-63	3	59				59		
Activity 3 - Excavation	117	551	-63	3	57				57		
Activity 4 - Basement and Underpass	115	551	-63	3	55				55		
Activity 5 - Superstructure	118	551	-63	3	58				58		
Predicted Noise Level of this Project, dB (A)						72	71	71	72	60	72

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: HT3 (The Harbourside Tower 3)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	609	-64	3	57	57	57	57	57		
2) Zone 2											
Activity 5 - Superstructure	120	185	-53	3	69	69	69	69	69		
3) Zone 3											
Activity 5 - Superstructure	118	228	-55	3	66	66	66	66	66		
4) Anchorage Footbridge	118	272	-57	3	64	64	64	64	64		
5) Kowloon Park Footbridge (West)	118	732	-65	3	56					56	
6) Kowloon Park Footbridge (South)	118	663	-64	3	56					56	
7) West Concrete Batching Plant (Demolition)	109	419	-60	3	52	52					
8) West Pier (Optional)	117	756	-66	3	55	55					
9) South Pier (Optional)	117	327	-58	3	62	62					
10) Viewing Platform (Optional)	115	412	-60	3	58	58					
11) Fire Services Department Staff Quarter Demolition	117	626	-64	3	57			57			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	626	-64	3	55				55		
Activity 2 - Bored Piling	119	626	-64	3	58				58		
Activity 3 - Excavation	117	626	-64	3	56				56		
Activity 4 - Basement and Underpass	115	626	-64	3	54				54		
Activity 5 - Superstructure	118	626	-64	3	57				57		
Predicted Noise Level of this Project, dB (A)						73	72	72	72	59	73

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	425	-61	3	60	60	60	60	60		
2) Zone 2											
Activity 5 - Superstructure	120	238	-56	3	67	67	67	67	67		
3) Zone 3											
Activity 5 - Superstructure	118	392	-60	3	62	62	62	62	62		
4) Anchorage Footbridge	118	372	-59	3	61	61	61	61	61		
5) Kowloon Park Footbridge (West)	118	555	-63	3	58					58	
6) Kowloon Park Footbridge (South)	118	496	-62	3	59					59	
7) West Concrete Batching Plant (Demolition)	109	598	-64	3	49	49					
8) West Pier (Optional)	117	936	-67	3	53	53					
9) South Pier (Optional)	117	396	-60	3	60	60					
10) Viewing Platform (Optional)	115	297	-57	3	61	61					
11) Fire Services Department Staff Quarter Demolition	117	451	-61	3	59			59			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	451	-61	3	58					58	
Activity 2 - Bored Piling	119	451	-61	3	61					61	
Activity 3 - Excavation	117	451	-61	3	59					59	
Activity 4 - Basement and Underpass	115	451	-61	3	57					57	
Activity 5 - Superstructure	118	451	-61	3	60					60	
Predicted Noise Level of this Project, dB (A)						71	70	70	70	61	71

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: RD (Residential Development next to Austin Station)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	137	-51	3	70	70	70	70	70		
2) Zone 2											
Activity 5 - Superstructure	120	228	-55	3	67	67	67	67	67		
3) Zone 3											
Activity 5 - Superstructure	118	845	-67	3	55	55	55	55	55		
4) Anchorage Footbridge	118	754	-66	3	55	55	55	55	55		
5) Kowloon Park Footbridge (West)	118	240	-56	3	65					65	
6) Kowloon Park Footbridge (South)	118	246	-56	3	65					65	
7) West Concrete Batching Plant (Demolition)	109	1056	-68	3	44	44					
8) West Pier (Optional)	117	1391	-71	3	50	50					
9) South Pier (Optional)	117	771	-66	3	55	55					
10) Viewing Platform (Optional)	115	447	-61	3	57	57					
11) Fire Services Department Staff Quarter Demolition	117	190	-54	3	67			67			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	190	-54	3	66				66		
Activity 2 - Bored Piling	119	190	-54	3	68				68		
Activity 3 - Excavation	117	190	-54	3	67				67		
Activity 4 - Basement and Underpass	115	190	-54	3	64				64		
Activity 5 - Superstructure	118	190	-54	3	67				67		
Predicted Noise Level of this Project, dB (A)						72	72	73	74	68	74

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: WOB (Wai On Building)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
1) Zone 1											
Activity 5 - Superstructure	118	160	-52	3	69	69	69	69	69		
2) Zone 2											
Activity 5 - Superstructure	120	296	-57	3	65	65	65	65	65		
3) Zone 3											
Activity 5 - Superstructure	118	930	-67	3	54	54	54	54	54		
4) Anchorage Footbridge	118	835	-66	3	54	54	54	54	54		
5) Kowloon Park Footbridge (West)	118	223	-55	3	66						66
6) Kowloon Park Footbridge (South)	118	263	-56	3	64						64
7) West Concrete Batching Plant (Demolition)	109	1140	-69	3	43	43					
8) West Pier (Optional)	117	1475	-71	3	49	49					
9) South Pier (Optional)	117	845	-67	3	54	54					
10) Viewing Platform (Optional)	115	508	-62	3	56	56					
11) Fire Services Department Staff Quarter Demolition	117	185	-53	3	67			67			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	185	-53	3	66					66	
Activity 2 - Bored Piling	119	185	-53	3	69					69	
Activity 3 - Excavation	117	185	-53	3	67					67	
Activity 4 - Basement and Underpass	115	185	-53	3	64					64	
Activity 5 - Superstructure	118	185	-53	3	67					67	
Predicted Noise Level of this Project, dB (A)						71	71	72	73	68	73

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: VT1 (The Victoria Towers - Tower 1)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	93	-47	3	73	73	73	73	73		
2) Zone 2											
Activity 5 - Superstructure	120	260	-56	3	66	66	66	66	66		
3) Zone 3											
Activity 5 - Superstructure	118	904	-67	3	54	54	54	54	54		
4) Anchorage Footbridge	118	871	-67	3	54	54	54	54	54		
5) Kowloon Park Footbridge (West)	118	93	-47	3	73					73	
6) Kowloon Park Footbridge (South)	118	139	-51	3	70					70	
7) West Concrete Batching Plant (Demolition)	109	1136	-69	3	43	43					
8) West Pier (Optional)	117	1451	-71	3	49	49					
9) South Pier (Optional)	117	786	-66	3	54	54					
10) Viewing Platform (Optional)	115	422	-61	3	58	58					
11) Fire Services Department Staff Quarter Demolition	117	70	-45	3	76			76			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	70	-45	3	74					74	
Activity 2 - Bored Piling	119	70	-45	3	77					77	
Activity 3 - Excavation	117	70	-45	3	75					75	
Activity 4 - Basement and Underpass	115	70	-45	3	73					73	
Activity 5 - Superstructure	118	70	-45	3	76					76	
Predicted Noise Level of this Project, dB (A)						74	74	78	79	75	Min Max 74 79

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: VT2 (The Victoria Towers - Tower 2)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	102	-48	3	73	73	73	73	73			
2) Zone 2												
Activity 5 - Superstructure	120	283	-57	3	66	66	66	66	66			
3) Zone 3												
Activity 5 - Superstructure	118	925	-67	3	54	54	54	54	54			
4) Anchorage Footbridge	118	874	-67	3	54	54	54	54	54			
5) Kowloon Park Footbridge (West)	118	137	-51	3	70							70
6) Kowloon Park Footbridge (South)	118	187	-53	3	67							67
7) West Concrete Batching Plant (Demolition)	109	1151	-69	3	43	43						
8) West Pier (Optional)	117	1471	-71	3	49	49						
9) South Pier (Optional)	117	816	-66	3	54	54						
10) Viewing Platform (Optional)	115	462	-61	3	57	57						
11) Fire Services Department Staff Quarter Demolition	117	109	-49	3	72			72				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	109	-49	3	70						70	
Activity 2 - Bored Piling	119	109	-49	3	73						73	
Activity 3 - Excavation	117	109	-49	3	71						71	
Activity 4 - Basement and Underpass	115	109	-49	3	69						69	
Activity 5 - Superstructure	118	109	-49	3	72						72	
Predicted Noise Level of this Project, dB (A)						74	74	76	76	72	72	76

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: LCS (Lai Chack Middle School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	100	-48	3	73	73	73	73	73			
2) Zone 2												
Activity 5 - Superstructure	120	270	-57	3	66	66	66	66	66			
3) Zone 3												
Activity 5 - Superstructure	118	912	-67	3	54	54	54	54	54			
4) Anchorage Footbridge	118	903	-67	3	54	54	54	54	54			
5) Kowloon Park Footbridge (West)	118	33	-38	3	83							83
6) Kowloon Park Footbridge (South)	118	105	-48	3	72							72
7) West Concrete Batching Plant (Demolition)	109	1150	-69	3	43	43						
8) West Pier (Optional)	117	1455	-71	3	49	49						
9) South Pier (Optional)	117	780	-66	3	55	55						
10) Viewing Platform (Optional)	115	398	-60	3	58	58						
11) Fire Services Department Staff Quarter Demolition	117	50	-42	3	78			78				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	50	-42	3	77					77		
Activity 2 - Bored Piling	119	50	-42	3	80					80		
Activity 3 - Excavation	117	50	-42	3	78					78		
Activity 4 - Basement and Underpass	115	50	-42	3	76					76		
Activity 5 - Superstructure	118	50	-42	3	79					79		
Predicted Noise Level of this Project, dB (A)						74	74	80	81	83	74	83

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: CRGPS (Canton Road Government Primary School)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	115	-49	3	72	72	72	72	72			
2) Zone 2												
Activity 5 - Superstructure	120	280	-57	3	66	66	66	66	66			
3) Zone 3												
Activity 5 - Superstructure	118	916	-67	3	54	54	54	54	54			
4) Anchorage Footbridge	118	915	-67	3	54	54	54	54	54			
5) Kowloon Park Footbridge (West)	118	14	-31	3	90							90
6) Kowloon Park Footbridge (South)	118	100	-48	3	73							73
7) West Concrete Batching Plant (Demolition)	109	1155	-69	3	43	43						
8) West Pier (Optional)	117	1455	-71	3	49	49						
9) South Pier (Optional)	117	775	-66	3	55	55						
10) Viewing Platform (Optional)	115	400	-60	3	58	58						
11) Fire Services Department Staff Quarter Demolition	117	50	-42	3	78			78				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	50	-42	3	77						77	
Activity 2 - Bored Piling	119	50	-42	3	80						80	
Activity 3 - Excavation	117	50	-42	3	78						78	
Activity 4 - Basement and Underpass	115	50	-42	3	76						76	
Activity 5 - Superstructure	118	50	-42	3	79						79	
Predicted Noise Level of this Project, dB (A)						73	73	79	81	90	73	90

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: FQa (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030		After 2030		
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)		
1) Zone 1												
Activity 5 - Superstructure	118	48	-42	3	79	79	79					
2) Zone 2												
Activity 5 - Superstructure	120	172	-53	3	70	70	70					
3) Zone 3												
Activity 5 - Superstructure	118	810	-66	3	55	55	55					
4) Anchorage Footbridge	118	815	-66	3	55	55	55					
5) Kowloon Park Footbridge (West)	118	89	-47	3	74							
6) Kowloon Park Footbridge (South)	118	56	-43	3	78							
7) West Concrete Batching Plant (Demolition)	109	1050	-68	3	44	44						
8) West Pier (Optional)	117	1350	-71	3	50	50						
9) South Pier (Optional)	117	680	-65	3	56	56						
10) Viewing Platform (Optional)	115	311	-58	3	60	60						
11) Fire Services Department Staff Quarter Demolition												
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling												
Activity 2 - Bored Piling												
Activity 3 - Excavation												
Activity 4 - Basement and Underpass												
Activity 5 - Superstructure	118											
Predicted Noise Level of this Project, dB (A)						80	80			0	Min	Max
											80	80

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: FQb (Fire Services Department Staff Quarter)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030		After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	59	-43	3	77	77	77				
2) Zone 2											
Activity 5 - Superstructure	120	181	-53	3	69	69	69				
3) Zone 3											
Activity 5 - Superstructure	118	808	-66	3	55	55	55				
4) Anchorage Footbridge	118	825	-66	3	55	55	55				
5) Kowloon Park Footbridge (West)	118	82	-46	3	75						
6) Kowloon Park Footbridge (South)	118	45	-41	3	80						
7) West Concrete Batching Plant (Demolition)	109	1053	-68	3	44	44					
8) West Pier (Optional)	117	1353	-71	3	50	50					
9) South Pier (Optional)	117	675	-65	3	56	56					
10) Viewing Platform (Optional)	115	306	-58	3	60	60					
11) Fire Services Department Staff Quarter Demolition											
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling											
Activity 2 - Bored Piling											
Activity 3 - Excavation											
Activity 4 - Basement and Underpass											
Activity 5 - Superstructure	118										
Predicted Noise Level of this Project, dB (A)						78	78				
										Min	Max
										78	78

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: CUL (The Cullirian I)

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	759	-66	3	55	55	55	55	55		
2) Zone 2											
Activity 5 - Superstructure	120	333	-58	3	64	64	64	64	64		
3) Zone 3											
Activity 5 - Superstructure	118	377	-60	3	62	62	62	62	62		
4) Anchorage Footbridge	118	58	-43	3	78	78	78	78	78		
5) Kowloon Park Footbridge (West)	118	882	-67	3	54					54	
6) Kowloon Park Footbridge (South)	118	813	-66	3	55					55	
7) West Concrete Batching Plant (Demolition)	109	451	-61	3	51	51					
8) West Pier (Optional)	117	826	-66	3	54	54					
9) South Pier (Optional)	117	476	-62	3	59	59					
10) Viewing Platform (Optional)	115	561	-63	3	55	55					
11) Fire Services Department Staff Quarter Demolition	117	751	-66	3	55		55				
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	751	-66	3	54					54	
Activity 2 - Bored Piling	119	751	-66	3	57					57	
Activity 3 - Excavation	117	751	-66	3	55					55	
Activity 4 - Basement and Underpass	115	751	-66	3	52					52	
Activity 5 - Superstructure	118	751	-66	3	55					55	
Predicted Noise Level of this Project, dB (A)						78	78	78	78	57	78

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P3

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2022-2030				After 2030 Footbridge Construction (2 years)		
						2021 Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*			
1) Zone 1												
Activity 5 - Superstructure												
2) Zone 2												
Activity 5 - Superstructure												
3) Zone 3												
Activity 5 - Superstructure												
4) Anchorage Footbridge												
5) Kowloon Park Footbridge (West)	118	75	-46	3	75						75	
6) Kowloon Park Footbridge (South)	118	30	-38	3	83						83	
7) West Concrete Batching Plant (Demolition)												
8) West Pier (Optional)												
9) South Pier (Optional)												
10) Viewing Platform (Optional)												
11) Fire Services Department Staff Quarter Demolition												
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling												
Activity 2 - Bored Piling												
Activity 3 - Excavation												
Activity 4 - Basement and Underpass												
Activity 5 - Superstructure												
Predicted Noise Level of this Project, dB (A)											Min	Max
											0	84

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P6

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	124	-50	3	71	71	71	71	71		
2) Zone 2											
Activity 5 - Superstructure	120	35	-39	3	84	84	84	84	84		
3) Zone 3											
Activity 5 - Superstructure	118	663	-64	3	57	57	57	57	57		
4) Anchorage Footbridge	118	666	-64	3	56	56	56	56	56		
5) Kowloon Park Footbridge (West)	118	243	-56	3	65					65	
6) Kowloon Park Footbridge (South)	118	187	-53	3	67					67	
7) West Concrete Batching Plant (Demolition)	109	915	-67	3	45	45					
8) West Pier (Optional)	117	1215	-70	3	51	51					
9) South Pier (Optional)	117	566	-63	3	57	57					
10) Viewing Platform (Optional)	115	232	-55	3	63	63					
11) Fire Services Department Staff Quarter Demolition	117	104	-48	3	72			72			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	104	-48	3	71				71		
Activity 2 - Bored Piling	119	104	-48	3	74				74		
Activity 3 - Excavation	117	104	-48	3	72				72		
Activity 4 - Basement and Underpass	115	104	-48	3	69				69		
Activity 5 - Superstructure	118	104	-48	3	72				72		
Predicted Noise Level of this Project, dB (A)						84	84	84	84	69	84

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P7

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	45	-41	3	80	80	80	80	80			
2) Zone 2												
Activity 5 - Superstructure	120	66	-44	3	78	78	78	78	78			
3) Zone 3												
Activity 5 - Superstructure	118	696	-65	3	57	57	57	57	57			
4) Anchorage Footbridge	118	711	-65	3	56	56	56	56	56			
5) Kowloon Park Footbridge (West)	118	162	-52	3	69							69
6) Kowloon Park Footbridge (South)	118	118	-49	3	71							71
7) West Concrete Batching Plant (Demolition)	109	950	-68	3	45	45						
8) West Pier (Optional)	117	1250	-70	3	50	50						
9) South Pier (Optional)	117	601	-64	3	57	57						
10) Viewing Platform (Optional)	115	252	-56	3	62	62						
11) Fire Services Department Staff Quarter Demolition	117	104	-48	3	72			72				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	104	-48	3	71						71	
Activity 2 - Bored Piling	119	104	-48	3	74						74	
Activity 3 - Excavation	117	104	-48	3	72						72	
Activity 4 - Basement and Underpass	115	104	-48	3	69						69	
Activity 5 - Superstructure	118	104	-48	3	72						72	
Predicted Noise Level of this Project, dB (A)						82	82	83	83	73	83	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P13

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	45	-41	3	80	80	80	80	80			
2) Zone 2												
Activity 5 - Superstructure	120	66	-44	3	78	78	78	78	78			
3) Zone 3												
Activity 5 - Superstructure	118	696	-65	3	57	57	57	57	57			
4) Anchorage Footbridge	118	711	-65	3	56	56	56	56	56			
5) Kowloon Park Footbridge (West)	118	162	-52	3	69							69
6) Kowloon Park Footbridge (South)	118	118	-49	3	71							71
7) West Concrete Batching Plant (Demolition)	109	950	-68	3	45	45						
8) West Pier (Optional)	117	1250	-70	3	50	50						
9) South Pier (Optional)	117	601	-64	3	57	57						
10) Viewing Platform (Optional)	115	252	-56	3	62	62						
11) Fire Services Department Staff Quarter Demolition	117	104	-48	3	72			72				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	104	-48	3	71						71	
Activity 2 - Bored Piling	119	104	-48	3	74						74	
Activity 3 - Excavation	117	104	-48	3	72						72	
Activity 4 - Basement and Underpass	115	104	-48	3	69						69	
Activity 5 - Superstructure	118	104	-48	3	72						72	
Predicted Noise Level of this Project, dB (A)						82	82	83	83	73	83	

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	192	-54	3	67	67	67	67	67			
2) Zone 2												
Activity 5 - Superstructure	120	53	-42	3	80	80	80	80	80			
3) Zone 3												
Activity 5 - Superstructure	118	541	-63	3	59	59	59	59	59			
4) Anchorage Footbridge	118	611	-64	3	57	57	57	57	57			
5) Kowloon Park Footbridge (West)	118	301	-58	3	63							63
6) Kowloon Park Footbridge (South)	118	242	-56	3	65							65
7) West Concrete Batching Plant (Demolition)	109	800	-66	3	46	46						
8) West Pier (Optional)	117	1100	-69	3	52	52						
9) South Pier (Optional)	117	451	-61	3	59	59						
10) Viewing Platform (Optional)	115	123	-50	3	68	68						
11) Fire Services Department Staff Quarter Demolition	117	242	-56	3	65			65				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	242	-56	3	64						64	
Activity 2 - Bored Piling	119	242	-56	3	66						66	
Activity 3 - Excavation	117	242	-56	3	64						64	
Activity 4 - Basement and Underpass	115	242	-56	3	62						62	
Activity 5 - Superstructure	118	242	-56	3	65						65	
Predicted Noise Level of this Project, dB (A)						81	80	81	81		67	81

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030 Footbridge Construction (2 years)
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*		
1) Zone 1											
Activity 5 - Superstructure	118	332	-58	3	62	62	62	62	62		
2) Zone 2											
Activity 5 - Superstructure	120	168	-53	3	70	70	70	70	70		
3) Zone 3											
Activity 5 - Superstructure	118	401	-60	3	61	61	61	61	61		
4) Anchorage Footbridge	118	476	-62	3	59	59	59	59	59		
5) Kowloon Park Footbridge (West)	118	456	-61	3	60						60
6) Kowloon Park Footbridge (South)	118	386	-60	3	61						61
7) West Concrete Batching Plant (Demolition)	109	651	-64	3	48	48					
8) West Pier (Optional)	117	951	-68	3	53	53					
9) South Pier (Optional)	117	351	-59	3	61	61					
10) Viewing Platform (Optional)	115	153	-52	3	66	66					
11) Fire Services Department Staff Quarter Demolition	117	376	-60	3	61			61			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	376	-60	3	60					60	
Activity 2 - Bored Piling	119	376	-60	3	63					63	
Activity 3 - Excavation	117	376	-60	3	61					61	
Activity 4 - Basement and Underpass	115	376	-60	3	58					58	
Activity 5 - Superstructure	118	376	-60	3	61					61	
Predicted Noise Level of this Project, dB (A)						73	72	72	72	63	73

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P17

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	400	-60	3	61	61	61	61	61			
2) Zone 2												
Activity 5 - Superstructure	120	131	-50	3	72	72	72	72	72			
3) Zone 3												
Activity 5 - Superstructure	118	340	-59	3	63	63	63	63	63			
4) Anchorage Footbridge	118	515	-62	3	59	59	59	59	59			
5) Kowloon Park Footbridge (West)	118	510	-62	3	59							59
6) Kowloon Park Footbridge (South)	118	440	-61	3	60							60
7) West Concrete Batching Plant (Demolition)	109	625	-64	3	49	49						
8) West Pier (Optional)	117	890	-67	3	53	53						
9) South Pier (Optional)	117	251	-56	3	64	64						
10) Viewing Platform (Optional)	115	87	-47	3	71	71						
11) Fire Services Department Staff Quarter Demolition	117	242	-56	3	65			65				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	242	-56	3	64					64		
Activity 2 - Bored Piling	119	242	-56	3	66					66		
Activity 3 - Excavation	117	242	-56	3	64					64		
Activity 4 - Basement and Underpass	115	242	-56	3	62					62		
Activity 5 - Superstructure	118	242	-56	3	65					65		
Predicted Noise Level of this Project, dB (A)						76	73	74	74	74	62	76

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P29

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	628	-64	3	57	57	57	57	57		
2) Zone 2											
Activity 5 - Superstructure	120	90	-47	3	76	76	76	76	76		
3) Zone 3											
Activity 5 - Superstructure	118	161	-52	3	69	69	69	69	69		
4) Anchorage Footbridge	118	366	-59	3	62	62	62	62	62		
5) Kowloon Park Footbridge (West)	118	741	-65	3	55					55	
6) Kowloon Park Footbridge (South)	118	671	-65	3	56					56	
7) West Concrete Batching Plant (Demolition)	109	396	-60	3	52	52					
8) West Pier (Optional)	117	706	-65	3	55	55					
9) South Pier (Optional)	117	217	-55	3	66	66					
10) Viewing Platform (Optional)	115	374	-59	3	59	59					
11) Fire Services Department Staff Quarter Demolition	117	626	-64	3	57			57			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	626	-64	3	55					55	
Activity 2 - Bored Piling	119	626	-64	3	58					58	
Activity 3 - Excavation	117	626	-64	3	56					56	
Activity 4 - Basement and Underpass	115	626	-64	3	54					54	
Activity 5 - Superstructure	118	626	-64	3	57					57	
Predicted Noise Level of this Project, dB (A)						77	77	77	77	59	77

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P32a

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021		2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	Min	Max
1) Zone 1												
Activity 5 - Superstructure	118	642	-64	3	57	57	57	57	57			
2) Zone 2												
Activity 5 - Superstructure	120	36	-39	3	83	83	83	83	83			
3) Zone 3												
Activity 5 - Superstructure	118	169	-53	3	69	69	69	69	69			
4) Anchorage Footbridge	118	470	-61	3	59	59	59	59	59			
5) Kowloon Park Footbridge (West)	118	740	-65	3	55							55
6) Kowloon Park Footbridge (South)	118	663	-64	3	56							56
7) West Concrete Batching Plant (Demolition)	109	425	-61	3	52	52						
8) West Pier (Optional)	117	690	-65	3	56	56						
9) South Pier (Optional)	117	114	-49	3	71	71						
10) Viewing Platform (Optional)	115	335	-59	3	59	59						
11) Fire Services Department Staff Quarter Demolition	117	650	-64	3	56			56				
12) Excluded Area (Fire Service Department Staff												
Activity 1 - D Walling	116	650	-64	3	55						55	
Activity 2 - Bored Piling	119	650	-64	3	58						58	
Activity 3 - Excavation	117	650	-64	3	56						56	
Activity 4 - Basement and Underpass	115	650	-64	3	53						53	
Activity 5 - Superstructure	118	650	-64	3	57						57	
Predicted Noise Level of this Project, dB (A)						84	84	84	84		59	84

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.

Unmitigated Construction Noise Impact

NSR: P32b

Construction Programme with Predicted Noise Level (dB, (A))	Total SWL, dB (A)	Distance (m)	Distance Correction, dB (A)	Facade Correction, dB(A)	Calculated SPL, dB(A)	2021	2022-2030			After 2030	
						Jan-Dec	Before FQ Relocation (Before 2025)	FQ Demolition (Half year)	Excluded Area Construction (3 years)*	Footbridge Construction (2 years)	
1) Zone 1											
Activity 5 - Superstructure	118	660	-64	3	56	56	56	56	56		
2) Zone 2											
Activity 5 - Superstructure	120	50	-42	3	81	81	81	81	81		
3) Zone 3											
Activity 5 - Superstructure	118	156	-52	3	70	70	70	70	70		
4) Anchorage Footbridge	118	475	-62	3	59	59	59	59	59		
5) Kowloon Park Footbridge (West)	118	755	-66	3	55					55	
6) Kowloon Park Footbridge (South)	118	680	-65	3	56					56	
7) West Concrete Batching Plant (Demolition)	109	420	-60	3	52	52					
8) West Pier (Optional)	117	680	-65	3	56	56					
9) South Pier (Optional)	117	109	-49	3	72	72					
10) Viewing Platform (Optional)	115	353	-59	3	59	59					
11) Fire Services Department Staff Quarter Demolition	117	650	-64	3	56			56			
12) Excluded Area (Fire Service Department Staff											
Activity 1 - D Walling	116	650	-64	3	55					55	
Activity 2 - Bored Piling	119	650	-64	3	58					58	
Activity 3 - Excavation	117	650	-64	3	56					56	
Activity 4 - Basement and Underpass	115	650	-64	3	53					53	
Activity 5 - Superstructure	118	650	-64	3	57					57	
Predicted Noise Level of this Project, dB (A)						81	81	81	81	59	81

Note: **Bold** figure in shaded box denotes exceedance of relevant construction noise criteria

Distances between NSR and the activities are different in same zone since worst case scenario of their notional point have been adopted.

* Activities after Fire Service Department Staff Quarter in excluded area will not be carried out simultaneously. Therefore, maximum predicted noise level of those activities has been adopted as conservative approach.