

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)	
1	Zone 1								
	Activity 5 - Superstructure								
	Crane, tower (electric)	CNP 049	95	1	50%			92	
	Crane, mobile	EPD-01516	101	2	50%	-5	Movable Barrier	96	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96	
	Bar bender and cutter (electric)	CNP 021	90	2	50%	-10	Movable Barrier	80	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89	
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104	
	Drill/grinder, hand-held (electric)	CNP 065	98	5	30%	-10	Movable Barrier	90	
	Water pump (electric)	CNP 281	88	3	30%	-15	Enclosure	73	
	Excavator, wheeled/tracked	EPD-01230	99	3	30%	-5	Movable Barrier	94	
	Fork Lift Truck	[2]	104	3	30%	-5	Movable Barrier	99	
	Hoist, passenger/ material (electric)	CNP 122	95	3	30%			95	
	Total SWL, dB (A)								108
	2a	Zone 2 (for area with less plant) [3]							
		Activity 4 - Basement and Underpass							
		Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
		Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	60%	-10	Movable Barrier	97	
Poker, vibratory, hand-held (electric)		[1]	102	5	60%	-10	Movable Barrier	97	
Bar bender and cutter (electric)		CNP 021	90	1	60%	-10	Movable Barrier	78	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	1	100%	-15	Enclosure	80	
Concrete lorry mixer		CNP 044	109	1	60%	-5	Movable Barrier	102	
Total SWL, dB (A)								105	
Activity 5 - Superstructure									
Crane, mobile		EPD-01516	101	1	50%	-5	Movable Barrier	93	
Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne		[1]	105	1	50%	-5	Movable Barrier	97	
Concrete pump, stationary/ lorry mounted		CNP 047	109	1	50%	-10	Movable Barrier	96	
Poker, vibratory, hand-held (electric)		[1]	102	5	50%	-10	Movable Barrier	96	
Bar bender and cutter (electric)		CNP 021	90	1	50%	-10	Movable Barrier	77	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	100%	-15	Enclosure	83	
Concrete lorry mixer		CNP 044	109	1	50%	-5	Movable Barrier	101	
Drill/grinder, hand-held (electric)		CNP 065	98	2	30%	-10	Movable Barrier	86	
Water pump (electric)		CNP 281	88	2	30%	-15	Enclosure	71	
Excavator, wheeled/tracked		EPD-01230	99	2	30%	-5	Movable Barrier	92	
Fork Lift Truck	[2]	104	2	30%	-5	Movable Barrier	97		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%			93		
Total SWL, dB (A)								106	
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	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	60%	-10	Movable Barrier	97	
	Poker, vibratory, hand-held (electric)	[1]	102	5	60%	-10	Movable Barrier	97	
	Bar bender and cutter (electric)	CNP 021	90	1	60%	-10	Movable Barrier	78	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89	
	Concrete lorry mixer	CNP 044	109	1	60%	-5	Movable Barrier	102	
	Total SWL, dB (A)								106
	Activity 5 - Superstructure								
	Crane, tower (electric)	CNP 049	95	1	50%			92	
	Crane, mobile	EPD-01516	101	1	50%	-5	Movable Barrier	93	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	50%	-5	Movable Barrier	97	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	-10	Movable Barrier	96	
	Poker, vibratory, hand-held (electric)	[1]	102	5	50%	-10	Movable Barrier	96	
	Bar bender and cutter (electric)	CNP 021	90	1	50%	-10	Movable Barrier	77	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89	
Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101		
Drill/grinder, hand-held (electric)	CNP 065	98	3	30%	-10	Movable Barrier	88		
Water pump (electric)	CNP 281	88	2	30%	-15	Enclosure	71		
Excavator, wheeled/tracked	EPD-01230	99	2	30%	-5	Movable Barrier	92		
Fork Lift Truck	[2]	104	2	30%	-5	Movable Barrier	97		
Hoist, passenger/ material (electric)	CNP 122	95	2	30%			93		
Total SWL, dB (A)								106	
3	Zone 3								
	Activity 4 - Basement and Underpass								
	Crane, tower (electric)	CNP 049	95	2	60%			96	
	Crane, mobile	EPD-01516	101	4	60%	-5	Movable Barrier	100	
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	4	60%	-5	Movable Barrier	104	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	4	60%	-10	Movable Barrier	103	
	Poker, vibratory, hand-held (electric)	[1]	102	20	60%	-10	Movable Barrier	103	
	Bar bender and cutter (electric)	CNP 021	90	4	60%	-10	Movable Barrier	84	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	100%	-15	Enclosure	86	
	Air compressor, air flow > 30m3/min	CNP 003	104	2	100%	-15	Enclosure	92	
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108	
	Total SWL, dB (A)								111

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)
Activity 5 - Superstructure								
	Crane, tower (electric)	CNP 049	95	1	50%			92
	Crane, mobile	EPD-01516	101	2	50%	-5	Movable Barrier	96
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	2	50%	-5	Movable Barrier	100
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	50%	-10	Movable Barrier	99
	Poker, vibratory, hand-held (electric)	[1]	102	10	50%	-10	Movable Barrier	99
	Bar bender and cutter (electric)	CNP 021	90	2	50%	-10	Movable Barrier	80
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85
	Air compressor, air flow > 30m3/min	CNP 003	104	1	100%	-15	Enclosure	89
	Concrete lorry mixer	CNP 044	109	2	50%	-5	Movable Barrier	104
	Drill/grinder, hand-held (electric)	CNP 065	98	6	30%	-10	Movable Barrier	91
	Water pump (electric)	CNP 281	88	4	30%	-15	Enclosure	74
	Excavator, wheeled/tracked	EPD-01230	99	4	30%	-5	Movable Barrier	95
	Fork Lift Truck	[2]	104	4	30%	-5	Movable Barrier	100
	Hoist, passenger/ material (electric)	CNP 122	95	4	30%			96
							Total SWL, dB (A)	109
4	Zone 4							
Activity 1 - D Walling								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Piling, diaphragm wall, hydraulic extractor	CNP 163	90	3	60%	-10	Fabric	83
	Excavator, wheeled/tracked	EPD-01230	99	6	60%	-5	Movable Barrier	100
	Grout Mixer	[1]	90	3	60%	-10	Movable Barrier	83
	Water pump, submersible (electric)	CNP 283	85	4	60%	-15	Enclosure	74
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	3	30%	-5	Movable Barrier	100
	Concrete lorry mixer	CNP 044	109	3	60%	-5	Movable Barrier	107
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	-15	Enclosure	85
							Total SWL, dB (A)	109
Activity 2 - Bored Piling								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	30%	-5	Movable Barrier	110
	Piling Rig	[2]	112	6	60%	-10	Fabric	108
	Drill Rig	[1]	110	6	60%	-10	Fabric	106
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113
	Piling, large diameter bored, grab and chisel	CNP 164	115	6	60%	-10	Fabric	111
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	6	60%	-10	Fabric	96
	Piling, large diameter bored, oscillator	CNP 165	115	6	60%	-10	Fabric	111
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Grout Mixer	[1]	90	6	60%	-10	Movable Barrier	86
	Grout Pump	[1]	105	6	60%	-10	Movable Barrier	101
	Bar bender and cutter (electric)	CNP 021	90	6	60%	-10	Movable Barrier	86
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-10	Enclosure	93
	Dump truck	CNP 067	117	3	30%	-5	Movable Barrier	112
	Concrete lorry mixer	CNP 044	109	3	60%	-5	Movable Barrier	107
	Welding Set	[2]	78	6	60%	-10	Movable Barrier	74
							Total SWL, dB (A)	119
Activity 3 - Excavation								
	Crane, mobile	EPD-01516	101	6	60%	-5	Movable Barrier	102
	Air compressor, air flow > 30m3/min	CNP 003	104	6	100%	-15	Enclosure	97
	Excavator/ loader, wheeled/ tracked	CNP 081	112	6	60%	-5	Movable Barrier	113
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	6	100%	-15	Enclosure	88
	Dump truck	CNP 067	117	9	30%	-5	Movable Barrier	116
							Total SWL, dB (A)	118
Activity 4 - Basement								
	Crane, tower (electric)	CNP 049	95	4	60%	-5	Movable Barrier	94
	Crane, mobile	EPD-01516	101	8	60%	-5	Movable Barrier	103
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	8	60%	-5	Movable Barrier	107
	Concrete pump, stationary/ lorry mounted	CNP 047	109	8	60%	-10	Movable Barrier	106
	Poker, vibratory, hand-held (electric)	[1]	102	40	60%	-10	Movable Barrier	106
	Bar bender and cutter (electric)	CNP 021	90	8	60%	-10	Movable Barrier	87
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	8	100%	-15	Enclosure	89
	Air compressor, air flow > 30m3/min	CNP 003	104	4	100%	-10	Movable Barrier	100
	Concrete lorry mixer	CNP 044	109	8	60%	-5	Movable Barrier	111
							Total SWL, dB (A)	114
5	Park Construction - Zone B							
	Dump truck, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
	Lorry, 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	60%	-5	Movable Barrier	98
							Total SWL, dB (A)	102
6	Flyover							
Group 1								
	Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	100%	-15	Enclosure	87
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	-10	Movable Barrier	102
	Crane, mobile	EPD-01516	101	1	100%	-5	Movable Barrier	96
	Crane Lorry 5.5 tonne < gross vehicle weight =< 38 tonne	[1]	105	1	70%	-5	Movable Barrier	98
	Bar bender and cutter (electric)	CNP 021	90	1	80%	-10	Movable Barrier	79
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
							Total SWL, dB (A)	104
Group 2								
	Breaker, hand-held, mass > 35kg	CNP 026	114	2	30%	-10	Movable Barrier	102
	Breaker, hand-held, mass > 10kg and < 20kg	CNP 024	108	1	30%	-10	Movable Barrier	93
	Concrete lorry mixer	CNP 044	109	1	50%	-5	Movable Barrier	101
	Poker, vibratory, hand-held (electric)	[1]	102	2	50%	-10	Movable Barrier	92
	Grout pump	[1]	105	1	20%	-10	Movable Barrier	88
	Saw, circular, wood	CNP 201	108	1	80%	-10	Movable Barrier	97
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	-15	Enclosure	80
							Total SWL, dB (A)	106
							Maximum SWL, dB (A)	106

Item	PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Screening Effect, dB(A)	Noise Mitigation Measures	Total SWL, dB(A)	
7/9	East / West Concrete Batching Plant (Operation)								
	Group 1								
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92	
	Concrete mixer (electric)	CNP 045	96	1	60%	-10	Movable Barrier	84	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81	
	Concrete mixer (petrol)	CNP 046	96	3	60%	-10	Movable Barrier	89	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
	Batching plant	CNP 022	108	1	60%			106	
	Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	60%	-15	Enclosure	88	
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	30%	-5	Movable Barrier	95	
								Total SWL, dB (A)	109
	Group 2								
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92	
	Concrete mixer (electric)	CNP 045	96	1	60%	-10	Movable Barrier	84	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	60%	-15	Enclosure	81	
	Concrete mixer (petrol)	CNP 046	96	3	60%	-10	Movable Barrier	89	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
	Batching plant	CNP 022	108	1	60%			106	
	Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	60%	-15	Enclosure	88	
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	30%	-5	Movable Barrier	95	
								Total SWL, dB (A)	109
								Maximum SWL, dB (A)	109
	8	East Concrete Batching Plant (Demolition)							
Crane, mobile		EPD-01516	101	2	60%	-5	Movable Barrier	97	
Generator, super silenced, 70 dB(A) at 7 m		CNP 103	95	2	60%	-15	Enclosure	81	
Welding set		[2]	78	2	60%	-10	Movable Barrier	69	
							Total SWL, dB (A)	97	
10	West Concrete Batching Plant (Construction)								
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	4	60%	-15	Enclosure	84	
	Excavator, wheeled/tracked	EPD-01230	99	2	60%	-5	Movable Barrier	95	
	Crane, mobile	EPD-01516	101	2	60%	-5	Movable Barrier	97	
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	30%	-5	Movable Barrier	98	
	Poker, vibratory, hand-held (electric)	[1]	102	4	60%	-10	Movable Barrier	96	
	Breaker, hand-held, mass > 35kg	CNP 026	114	1	30%	-10	Movable Barrier	99	
	Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	60%	-15	Enclosure	88	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
								Total SWL, dB (A)	107
11	Barging Points								
	Derrick barge	CNP 061	104	1	60%			102	
	Tug boat	CNP 221	110	1	60%			108	
	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	6	30%	-5	Movable Barrier	103	
	Excavator, wheeled/tracked	EPD-01230	99	1	60%	-5	Movable Barrier	92	
	Conveyor belt	CNP 041	90	1	60%			88	
							Total SWL, dB (A)	110	
12/13	Pier Construction (Optional)								
	Group 1								
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	-10	Fabric	90	
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	Tug boat	CNP 221	110	1	60%			108	
								Total SWL, dB (A)	108
	Group 2								
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102	
	Concrete lorry mixer	CNP 044	109	4	60%	-5	Movable Barrier	108	
	Water pump (electric)	CNP 281	88	4	100%	-15	Enclosure	79	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Enclosure	90	
	Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	60%	-5	Movable Barrier	105	
	Tug boat	CNP 221	110	1	60%			108	
								Total SWL, dB (A)	112
	Group 3								
	Crane, mobile	EPD-01516	101	1	60%	-5	Movable Barrier	94	
	Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	2	100%	-15	Enclosure	90	
	Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	-15	Enclosure	83	
	Concrete pump, stationary/ lorry mounted	CNP 047	109	2	100%	-10	Movable Barrier	102	
	Concrete lorry mixer	CNP 044	109	2	60%	-5	Movable Barrier	105	
	Poker, vibratory, hand-held (electric)	[1]	102	4	80%	-10	Movable Barrier	97	
	Tug boat	CNP 221	110	1	60%			108	
							Total SWL, dB (A)	111	
							Maximum SWL, dB (A)	112	
14	Viewing Platform (Optional)								
	Group 1								
	Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	100%	-10	Fabric	90	
	Crane, mobile	EPD-01516	101	1	80%	-5	Movable Barrier	95	
	Tug boat	CNP 221	110	1	60%			108	
								Total SWL, dB (A)	108
	Group 2								
	Crane, mobile	EPD-01516	101	2	100%			104	
								Total SWL, dB (A)	104
								Maximum SWL, dB (A)	108

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.

Mitigated 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,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	108	481	-62	3	50	50														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	116	-49	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
Zone 2.2	106	102	-48	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.3	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.4	105	357	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.5	105	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.6	105	258	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.7	106	179	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.8	106	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Activity 5 - Superstructure																				
Zone 2.1	106	116	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.2	106	102	-48	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	106	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.4	106	357	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.5	106	377	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.6	106	258	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.7	106	179	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.8	106	228	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	248	-56	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	571	-63	3	49		49	49	49	49	49	49	49	49	49	49	49			
Activity 3 - Excavation	118	655	-64	3	57					59	59	59	59	59	59	59	59			
Activity 4 - Basement	114	571	-63	3	54										54	54	54			
5) Park Construction - Zone B																				
6) Flyover	106	264	-56	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) East Concrete Batching Plant (Operation)	109	461	-61	3	50	50	50	50	50	50	50	50	50	50						
8) East Concrete Batching Plant (Demolition)	97	461	-61	3	39											39	39			
9) West Concrete Batching Plant (Construction)	107	506	-62	3	48				48	48	48	48	48	48						
10) West Concrete Batching Plant (Operation)	109	506	-62	3	50											50	50			
11) Barging Point (BP)																				
BP4	110	307	-58	3	55	55	55	55	55	55	55	55	55	55						
BP5	110	327	-58	3	54	54	54	54	54	54	54	54	54	54						
BP6	110	506	-62	3	51	51	51	51	51	51	51	51	51	51						
BP7	110	616	-64	3	49	49	49	49	49	49	49	49	49	49						
12) West Pier (Optional)	112	846	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) South Pier (Optional)	112	347	-59	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
14) Viewing Platform (Optional)	108	342	-59	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Predicted Noise Level of the Project, dB(A)						70	70	70	70	70	70	70	70	70	70	70	70			
														2016		2017				
														Min	Max	Min	Max			

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.

Mitigated 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	108	576	-63	3	48	48														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	111	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.2	106	169	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	105	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.4	105	446	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.5	105	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.6	105	342	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	228	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.8	106	208	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Activity 5 - Superstructure																				
Zone 2.1	106	111	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.2	106	169	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.3	106	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.4	106	446	-61	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.5	106	456	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.6	106	342	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	228	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.8	106	208	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	179	-53	3	59	59	59	59	59	59	59	59	59	59	59	59	59			
4) Zone 4																				
Activity 1 - D Walling	109	481	-62	3	51		51	51	51	51	51	51	51	51	51	51	51			
Activity 2 - Bored Piling	119	481	-62	3	60					60	60	60	60	60	60	60	60			
Activity 3 - Excavation	118	564	-63	3	58						58	58	58	58	58	58	58			
Activity 4 - Basement	114	481	-62	3	56										56	56	56			
5) Park Construction - Zone B	102	283	-57	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
6) Flyover	106	198	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
7) East Concrete Batching Plant (Operation)	109	554	-63	3	49	49	49	49	49	49	49	49	49	49						
8) East Concrete Batching Plant (Demolition)	97	554	-63	3	37											37	37			
9) West Concrete Batching Plant (Construction)	107	419	-60	3	50				50	50	50	50	50	50						
10) West Concrete Batching Plant (Operation)	109	419	-60	3	51											51	51			
11) Barging Point (BP)																				
BP4	110	302	-58	3	55	55	55	55	55	55	55	55	55	55	55					
BP5	110	312	-58	3	55	55	55	55	55	55	55	55	55	55	55					
BP6	110	461	-61	3	52	52	52	52	52	52	52	52	52	52	52					
BP7	110	576	-63	3	50	50	50	50	50	50	50	50	50	50	50					
12) West Pier (Optional)	112	756	-66	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
13) South Pier (Optional)	112	327	-58	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
14) Viewing Platform (Optional)	108	412	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of the Project, dB(A)						69	69	69	69	69	70	70	70	70	69	69	69			
												2016		2017						
												Min	Max	Min	Max					
												69	70	69	69					

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.

Mitigated Construction Noise Impact

NSR: AST (The Arch - Sun Tower)

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	108	391	-60	3	51	51														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	106	178	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.2	106	92	-47	3	61	61	61	61	61	61	61	61	61	61	61	61	61			
Zone 2.3	106	139	-51	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	105	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.5	105	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.6	105	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.7	106	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	105	282	-57	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Activity 5 - Superstructure																				
Zone 2.1	106	178	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.2	106	92	-47	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
Zone 2.3	106	139	-51	3	58	58	58	58	58	58	58	58	58	58	58	58	58			
Zone 2.4	106	257	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.5	106	302	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Zone 2.6	106	203	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.7	106	188	-53	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.8	106	282	-57	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	377	-60	3	55	55	55	55												
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	676	-65	3	58					58	58	58	58	58	58	58	58			
Activity 3 - Excavation	118	746	-65	3	56						56	56	56	56	56	56	56			
Activity 4 - Basement	114	676	-65	3	53										53	53	53			
5) Park Construction - Zone B																				
6) Flyover	106	379	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
7) East Concrete Batching Plant (Operation)	109	377	-60	3	52	52	52	52	52	52	52	52	52	52						
8) East Concrete Batching Plant (Demolition)	97	377	-60	3	40											40	40			
9) West Concrete Batching Plant (Construction)	107	598	-64	3	47				47	47	47	47	47	47						
10) West Concrete Batching Plant (Operation)	109	598	-64	3	48											48	48			
11) Barging Point (BP)																				
BP4	110	357	-59	3	54	54	54	54	54	54	54	54	54	54						
BP5	110	387	-60	3	53	53	53	53	53	53	53	53	53	53						
BP6	110	576	-63	3	50	50	50	50	50	50	50	50	50	50						
BP7	110	691	-65	3	48	48	48	48	48	48	48	48	48	48						
12) West Pier (Optional)	112	936	-67	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
13) South Pier (Optional)	112	396	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
14) Viewing Platform (Optional)	108	297	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Predicted Noise Level of the Project, dB(A)						70	69	69	70	70	70	70	70	70	70	70	70			
														2016		2017				
														Min	Max	Min	Max			

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.

Mitigated 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,	Calculated SPL,	2016												2017																											
						4	5	6	7	8	9	10	11	12	1	2	3																												
1) Zone 1																																													
Activity 5 - Superstructure	108	99	-48	3	63	63																																							
2) Zone 2																																													
Activity 4 - Basement and Underpass																																													
Zone 2.1	105	621	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44																
Zone 2.2	105	454	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47																
Zone 2.3	106	303	-58	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																
Zone 2.4	106	158	-52	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																
Zone 2.5	106	224	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																
Zone 2.6	106	330	-58	3	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50																
Zone 2.7	105	492	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46																
Zone 2.8	105	664	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44																
Activity 5 - Superstructure																																													
Zone 2.1	106	621	-64	3	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45																
Zone 2.2	106	454	-61	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47																
Zone 2.3	106	303	-58	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																
Zone 2.4	106	158	-52	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																
Zone 2.5	106	224	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54																
Zone 2.6	106	330	-58	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																
Zone 2.7	106	492	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47																
Zone 2.8	106	664	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44																
3) Zone 3																																													
Activity 4 - Basement and Underpass																																													
Activity 5 - Superstructure																																													
4) Zone 4																																													
Activity 1 - D Walling																																													
Activity 2 - Bored Piling																																													
Activity 3 - Excavation																																													
Activity 4 - Basement																																													
5) Park Construction - Zone B																																													
Flyover																																													
7) East Concrete Batching Plant (Operation)																																													
8) East Concrete Batching Plant (Demolition)																																													
9) West Concrete Batching Plant (Construction)																																													
10) West Concrete Batching Plant (Operation)																																													
11) Barging Point (BP)																																													
BP4																																													
BP5																																													
BP6																																													
BP7																																													
12) West Pier (Optional)																																													
13) South Pier (Optional)																																													
14) Viewing Platform (Optional)																																													
Predicted Noise Level of the Project, dB(A)						68	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66														
																								2016		2017																			
																								Min	Max	Min	Max																		
																								65	68	65	65																		

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.

Mitigated Construction Noise Impact

NSR: WOB (Wai On Building)

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	108	100	-48	3	63	63														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	695	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	370	-59	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.4	106	225	-55	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.5	106	260	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.6	106	405	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.7	105	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	105	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Zone 2.1	106	695	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	525	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	370	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	225	-55	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	260	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.6	106	405	-60	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Zone 2.7	106	570	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.8	106	750	-66	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	915	-67	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
4) Zone 4																				
Activity 1 - D Walling	109	1206	-70	3	43		43	43	43	43	43	43	43	43	43	43	43			
Activity 2 - Bored Piling	119	1206	-70	3	52					52	52	52	52	52	52	52	52			
Activity 3 - Excavation	118	1296	-70	3	51							51	51	51	51	51	51			
Activity 4 - Basement	114	1206	-70	3	48										48	48	48			
5) Park Construction - Zone B	102	282	-57	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
6) Flyover	106	922	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
7) East Concrete Batching Plant (Operation)	109	215	-55	3	57	57	57	57	57	57	57	57	57	57	57	57	57			
8) East Concrete Batching Plant (Demolition)	97	215	-55	3	45											45	45			
9) West Concrete Batching Plant (Construction)	107	1140	-69	3	41				41	41	41	41	41	41	41	41	41			
10) West Concrete Batching Plant (Operation)	109	1140	-69	3	43											43	43			
11) Barging Point (BP)																				
BP4	110	805	-66	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
BP5	110	850	-67	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
BP6	110	1060	-69	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
BP7	110	1160	-69	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
12) West Pier (Optional)	112	1475	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	845	-67	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	508	-62	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
Predicted Noise Level of the Project, dB(A)						66	64	64	64	64	64	64	64	64	63	63	63			
						2016		2017												
						Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max			
						63	66	63	63	63	63	63	63	63	63	63	63			

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.

Mitigated 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,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	108	74	-45	3	66	66														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	676	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	105	502	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	343	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	195	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.6	106	353	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	105	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Zone 2.1	106	676	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	502	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.3	106	343	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.5	106	195	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.6	106	353	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	517	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	106	716	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	901	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	1191	-70	3	53					53	53	53	53	53	53	53	53			
Activity 3 - Excavation	118	1271	-70	3	51						51	51	51	51	51	51	51			
Activity 4 - Basement	114	1191	-70	3	48										48	48	48			
5) Park Construction - Zone B																				
6) Flyover	106	914	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
7) East Concrete Batching Plant (Operation)	109	158	-52	3	60	60	60	60	60	60	60	60	60	60						
8) East Concrete Batching Plant (Demolition)	97	158	-52	3	48											48	48			
9) West Concrete Batching Plant (Construction)	107	1136	-69	3	41				41	41	41	41	41	41						
10) West Concrete Batching Plant (Operation)	109	1136	-69	3	43											43	43			
11) Barging Point (BP)																				
BP4	110	751	-66	3	47	47	47	47	47	47	47	47	47	47						
BP5	110	799	-66	3	47	47	47	47	47	47	47	47	47	47						
BP6	110	1001	-68	3	45	45	45	45	45	45	45	45	45	45						
BP7	110	1093	-69	3	44	44	44	44	44	44	44	44	44	44						
12) West Pier (Optional)	112	1451	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	786	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	422	-61	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of the Project, dB(A)						69	65	65	65	66	66	66	66	66	64	64	64	64		
														2016		2017				
														Min	Max	Min	Max			
														64	69	64	64			

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.

Mitigated 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	108	105	-48	3	63	63														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	685	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Zone 2.2	105	505	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.3	106	355	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Zone 2.5	106	175	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.6	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	105	515	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	105	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
Activity 5 - Superstructure																				
Zone 2.1	106	685	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.2	106	505	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.3	106	355	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.4	106	205	-54	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Zone 2.5	106	175	-53	3	56	56	56	56	56	56	56	56	56	56	56	56	56			
Zone 2.6	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.7	106	515	-62	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
Zone 2.8	106	720	-65	3	43	43	43	43	43	43	43	43	43	43	43	43	43			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	905	-67	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
4) Zone 4																				
Activity 1 - D Walling																				
Activity 2 - Bored Piling	119	1198	-70	3	53					53	53	53	53	53	53	53	53			
Activity 3 - Excavation	118	1279	-70	3	51						51	51	51	51	51	51	51			
Activity 4 - Basement	114	1198	-70	3	48										48	48	48			
5) Park Construction - Zone B																				
6) Flyover	106	927	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
7) East Concrete Batching Plant (Operation)	109	160	-52	3	60	60	60	60	60	60	60	60	60	60						
8) East Concrete Batching Plant (Demolition)	97	160	-52	3	48										48	48	48			
9) West Concrete Batching Plant (Construction)	107	1150	-69	3	41				41	41	41	41	41	41						
10) West Concrete Batching Plant (Operation)	109	1150	-69	3	42											42	42			
11) Barging Point (BP)																				
BP4	110	750	-66	3	47	47	47	47	47	47	47	47	47	47						
BP5	110	795	-66	3	47	47	47	47	47	47	47	47	47	47						
BP6	110	993	-68	3	45	45	45	45	45	45	45	45	45	45						
BP7	110	1083	-69	3	44	44	44	44	44	44	44	44	44	44						
12) West Pier (Optional)	112	1455	-71	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
13) South Pier (Optional)	112	780	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
14) Viewing Platform (Optional)	108	398	-60	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
Predicted Noise Level of the Project, dB(A)						67	66	66	66	66	66	66	66	66	65	65	65			
															2016		2017			
															Min	Max	Min	Max		

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.

Mitigated Construction Noise Impact

NSR: FQ (Fire Services Department Staff Quarter)

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	108	82	-46	3	65	65														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	580	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.2	105	415	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.3	106	256	-56	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
Zone 2.4	106	112	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.5	106	82	-46	3	62	62	62	62	62	62	62	62	62	62	62	62	62			
Zone 2.6	106	251	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.7	105	411	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.8	105	610	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Activity 5 - Superstructure																				
Zone 2.1	106	580	-63	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
Zone 2.2	106	415	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.3	106	256	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.4	106	112	-49	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
Zone 2.5	106	82	-46	3	63	63	63	63	63	63	63	63	63	63	63	63	63			
Zone 2.6	106	251	-56	3	53	53	53	53	53	53	53	53	53	53	53	53	53			
Zone 2.7	106	411	-60	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Zone 2.8	106	610	-64	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
3) Zone 3																				
Activity 4 - Basement and Underpass																				
Activity 5 - Superstructure	109	800	-66	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
4) Zone 4																				
Activity 1 - D Walling	109	1100	-69	3	43		43	43	43	43	43	43	43	43	43	43	43			
Activity 2 - Bored Piling	119	1100	-69	3	53					53	53	53	53	53	53	53	53			
Activity 3 - Excavation	118	1179	-69	3	52						52	52	52	52	52	52	52			
Activity 4 - Basement	114	1100	-69	3	49									49	49	49	49			
5) Park Construction - Zone B	102	72	-45	3	60	60	60	60	60	60	60	60	60	60	60	60	60			
6) Flyover	106	828	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
7) East Concrete Batching Plant (Operation)	109	68	-45	3	67	67	67	67	67	67	67	67	67	67	67	67	67			
8) East Concrete Batching Plant (Demolition)	97	68	-45	3	55											55	55			
9) West Concrete Batching Plant (Construction)	107	1050	-68	3	42				42	42	42	42	42	42	42	42	42			
10) West Concrete Batching Plant (Operation)	109	1050	-68	3	43											43	43			
11) Barging Point (BP)																				
BP4	110	650	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
BP5	110	695	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
BP6	110	900	-67	3	46	46	46	46	46	46	46	46	46	46	46	46	46			
BP7	110	985	-68	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
12) West Pier (Optional)	112	1350	-71	3	45	45	45	45	45	45	45	45	45	45	45	45	45			
13) South Pier (Optional)	112	680	-65	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
14) Viewing Platform (Optional)	108	291	-57	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
Predicted Noise Level of the Project, dB(A)						72	71	71	71	71	71	71	71	71	71	69	69	69		
															2016	2017	2016	2017		
															Min	Max	Min	Max		
															69	72	69	69		

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.

Mitigated 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,	2016												2017		
						4	5	6	7	8	9	10	11	12	1	2	3			
1) Zone 1																				
Activity 5 - Superstructure	108	681	-65	3	47	47														
2) Zone 2																				
Activity 4 - Basement and Underpass																				
Zone 2.1	105	829	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.2	105	659	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.3	106	499	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.4	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.5	106	345	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.6	106	501	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.7	105	672	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.8	105	866	-67	3	41	41	41	41	41	41	41	41	41	41	41	41	41			
Activity 5 - Superstructure																				
Zone 2.1	106	829	-66	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
Zone 2.2	106	659	-64	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.3	106	499	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.4	106	350	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.5	106	345	-59	3	50	50	50	50	50	50	50	50	50	50	50	50	50			
Zone 2.6	106	501	-62	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
Zone 2.7	106	672	-65	3	44	44	44	44	44	44	44	44	44	44	44	44	44			
Zone 2.8	106	866	-67	3	42	42	42	42	42	42	42	42	42	42	42	42	42			
3) Zone 3																				
Activity 4 - Basement and Underpass	111	377	-60	3	55	55	55	55	55	55	55	55	55	55	55	55	55			
Activity 5 - Superstructure	109	377	-60	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
4) Zone 4																				
Activity 1 - D Walling	109	631	-64	3	48		48	48	48	48	48	48	48	48	48	48	48			
Activity 2 - Bored Piling	119	631	-64	3	58				58	58	58	58	58	58	58	58	58			
Activity 3 - Excavation	118	714	-65	3	56					56	56	56	56	56	56	56	56			
Activity 4 - Basement	114	631	-64	3	53										53	53	53			
5) Park Construction - Zone B																				
6) Flyover	106	317	-58	3	51	51	51	51	51	51	51	51	51	51	51	51	51			
7) East Concrete Batching Plant (Operation)	109	703	-65	3	47	47	47	47	47	47	47	47	47	47	47	47	47			
8) East Concrete Batching Plant (Demolition)	97	703	-65	3	35											35	35			
9) West Concrete Batching Plant (Construction)	107	451	-61	3	49			49	49	49	49	49	49	49	49	49	49			
10) West Concrete Batching Plant (Operation)	109	451	-61	3	51											51	51			
11) Barging Point (BP)																				
BP4	110	451	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
BP5	110	461	-61	3	52	52	52	52	52	52	52	52	52	52	52	52	52			
BP6	110	611	-64	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
BP7	110	726	-65	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
12) West Pier (Optional)	112	826	-66	3	49	49	49	49	49	49	49	49	49	49	49	49	49			
13) South Pier (Optional)	112	476	-62	3	54	54	54	54	54	54	54	54	54	54	54	54	54			
14) Viewing Platform (Optional)	108	561	-63	3	48	48	48	48	48	48	48	48	48	48	48	48	48			
Predicted Noise Level of the Project, dB(A)																				
						64	64	64	64	64	65	65	65	65	65	65	64	64		
						2016												2017		
						Min												Max		
						Max												Min		
						Min												Max		
						Max												Min		

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.