Appendix 4.7
Calculations and Results of Construction Noise Impacts During Normal Daytime Working Hours (Without Mitigation Measures)

Predicted Construction Noise Levels, dB(A)
N1 HKAPA (Open Arena)

		SWL	Distance	2009												2010												2011												2012											
		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
3 Hong Kong Convention and Exhibition Centre (HKCEC) Reclamation																																																			
3.1 HKCEC Reclamation Stage 1 (Water Channel)																																																			
3.1.1 Dredging, Seawalls & Filling																																																			
3.1.1A Dredging																																																			
3.1.1B Seawall Construction		117	300	63	63																																														
3.1.1C Filling behind Seawall		117	300			62																																													
3.1.2 Cooling Water Systems		117	300																																																
3.1.3 CWB Tunnel		128	300												73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73																				
3.1.3A Diaphragm Wall																																																			
3.1.3B Excavation		129	300				74	74	74	74	74																																								
3.1.3C Construction of Slabs		128	300					74	74	74	74	74	74																																						
3.1.3D Backfill		123	300							69	69		69	69																																					
3.2 HKCEC Reclamation Stage 2		125	300									71	71		71																																				
3.2.1 Dredging, Seawalls & Filling																																																			
3.2.1A Dredging																																																			
3.2.1B Seawall Construction	East	117	250																																																
3.2.1C Filling behind Seawall	East	117	250																														64																		
3.2.1D Demolition of Structure	East	120	250																															64	64					64	64										
3.2.1A Dredging	West	128	250																75	75	75																					67	67	67								
3.2.1B Seawall Construction	West	117	180																												67	67																			
3.2.1C Filling behind Seawall	West	117	180																														67	67					67	67											
3.2.2 Drainage Culverts (2 cell)	West	120	180																																							69	69	69	69							
3.2.3 CWB Tunnel	L	126	75																																																
3.2.3A Diaphragm Wall																																																			
3.2.3B Excavation	East	129	260																																																
3.2.3C Construction of slabs	East	128	260																																																
3.2.3D Backfill	East	123	260																																																
3.2.3A Diaphragm Wall	East	125	260																																																
3.2.3B Excavation	West	129	200																																																
3.2.3C Construction of slabs	West	128	200																																																
3.2.3D Backfill	West	123	200																																														78	78	78
3.3 MTR Tunnel Crossing	West	125	200																																																
3.3.1 Pilling																																																			
3.3.1A Pilling for CWB tunnel unit																																																			
3.3.1B Pilling for deck		120	235																																																
3.3.2 Tunnel & Deck Construction		120	200																					68	68	68	68																								
3.3.2A Place precast CWB Tunnel Unit																												69	69																							
3.3.2B Deck Construction		121	235																																																
3.2.1B Seawall Construction		123	200																							69	69	69	69							69	69	69	69	69											
4 Cross Harbour Watermains		117	285																											72	72	72	72	72																	
4.1 Submarine Pipeline																																									63										
4.2 Land Section																																																			
2.11 Roads		125	60								84	84	84	84	84	84	84	84	84																															
9.0 Tunnel Building and Installation		124	75																																																
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																																			
9.0A Substructures																																																			
9.0B Superstructures	C.Vent. B.	121	210																																																
CRIII	C.Vent. B.	121	210																																																
CWB in FRAE																																																			
Culverts K Construction	CRIII	120	250	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67										
Roadworks	CRIII	113	115	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67				
Predicted Construction Noise Levels, dB(A)(with Façade Effect)	CRIII	117	110	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71				
Predicted Construction Noise Levels, dB(A)(with Façade and Barrier Effect)				74	74	74	77	79	79	79	79	85	85	85	85	85	85	85	85	79	76	76	76	77	77	78	78	78	78	78	76	76	76	75	75	75	75	76	74	75	75	74	72	72	72	78	78	78
				69	69	69	72	74	74	74	74	80	80	80	80	80	80	80	80	74	71	71	71	72	72	73	73	73	73	73	71	71	71	70	70	70	70	71	69	70	70	70	69	67	67	67	73	73	73

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																										
N1 HKAPA (Open Arena)		dB(A)	(m)	2013												2014												2015												2016			
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
3 Hong Kong Convention and Exhibition Centre (HKCEC) Reclamation																																											
3.1 HKCEC Reclamation Stage 1 (Water Channel)																																											
3.1.1 Dredging, Seawalls & Filling																																											
3.1.1A Dredging		117	300																																								
3.1.1B Seawall Construction		117	300																																								
3.1.1C Filling behind Seawall		117	300																																								
3.1.2 Cooling Water Systems		128	300																																								
3.1.3 CWB Tunnel																																	73	73	73	73	73	73	73	73	73	73	73
3.1.3A Diaphragm Wall		129	300																																								
3.1.3B Excavation		128	300																																								
3.1.3C Construction of Slabs		123	300																																								
3.1.3D Backfill		125	300																																								
3.2 HKCEC Reclamation Stage 2																																											
3.2.1 Dredging, Seawalls & Filling																																											
3.2.1A Dredging																																											
3.2.1B Seawall Construction	East	117	250																																								
3.2.1C Filling behind Seawall	East	117	250																																								
3.2.1D Demolition of Structure	East	120	250																																								
3.2.1A Dredging	West	128	250																																								
3.2.1B Seawall Construction	West	117	180																																								
3.2.1C Filling behind Seawall	West	117	180																																								
3.2.2 Drainage Culverts (2 cell)	West	120	180																																								
3.2.3 CWB Tunnel	L	126	75						84	84	84	84	84	84	84	84	84	84																									
3.2.3A Diaphragm Wall																																											
3.2.3B Excavation	East	129	260							75	75	75	75	75	75	75																											
3.2.3C Construction of slabs	East	128	260									75	75	75	75	75	75																										
3.2.3D Backfill	East	123	260											70	70		70																										
3.2.3A Diaphragm Wall	East	125	260													72	72	72																									
3.2.3B Excavation	West	129	200	78	78	78	78	78	78	78																																	
3.2.3C Construction of slabs	West	128	200	77	77	77	77	77	77	77	77																																
3.2.3D Backfill	West	123	200			72	72	72		72	72																																
3.3 MTR Tunnel Crossing	West	125	200						74			74																															
3.3.1 Pilling																																											
3.3.1A Pilling for CWB tunnel unit		120	235																																								
3.3.1B Pilling for deck		120	200																																								
3.3.2 Tunnel & Deck Construction																																											
3.3.2A Place precast CWB Tunnel Unit		121	235																																								
3.3.2B Deck Construction		123	200																																								
3.2.1B Seawall Construction		117	285																																								
4 Cross Harbour Watermains																																											
4.1 Submarine Pipeline																																											
4.2 Land Section		125	60																																								
2.11 Roads		124	75																																								
9.0 Tunnel Building and Installation																	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81				
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																											
9.0A Substructures	C.Vent. B.	121	210												70	70																											
9.0B Superstructures	C.Vent. B.	121	210														70	70	70	70																							
CRIII																																											
CWB in FRAE	CRIII	120	250																																								
Culverts K Construction	CRIII	113	115																																								
Roadworks	CRIII	117	110																																								
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				80	80	81	81	81	86	86	85	85	85	85	85	85	85	86	82	82	82	81	81	81	81	81	81	81	81	81	81	81	82	82	82	82	82	82	73	73	73	73
Predicted Construction Noise Levels, dB(A)(with Façade and Barrier Effect)				75	75	76	76	76	81	81	80	80	80	80	80	80	80	81	77	77	77	76	76	76	76	76	76	76	76	76	76	76	77	77	77	77	77	77	68	68	68	68	68

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																																		
N2 Causeway Centre		dB(A)	(m)	2009												2010												2011												2012											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
3.4 HKCEC Reclamation Stage 3																																																					
3.4.1 Dredging, Seawalls & Filling																																																					
3.4.1A Dredging		117	300																																																		
3.4.1B Seawall Construction		117	300																											58	58																						
3.4.1C Filling behind Seawall		120	300																													60	60																				
3.4.2 Demolition of Structure		128	270																																		69	69															
3.4.3 Drainage Culverts (2 cell)	M	126	220																																			74	74	74	74	74	74	74	74	74							
3.4.4 CWB Tunnel																																																					
3.4.4A Diaphragm Wall	East	129	250																																					76	76													
3.4.4B Excavation	East	128	250																																							75												
3.4.4C Construction of slabs	East	123	250																																								70										
3.4.4D Backfill	East	125	250																																									72									
3.4.4A Diaphragm Wall	West	129	290																																																74	74
3.4.4B Excavation	West	128	290																																																	74
3.4.4C Construction of slabs	West	123	290																																																	
3.4.4D Backfill	West	125	290																																																	
3.5 Roads																																																					
3.5 Roadworks		124	215																																																		
2 Wan Chai Reclamation																																																					
2.1 Wan Chai Reclamation Stage 1 (WCR1)																																																					
2.1.1 Dredging , Seawalls & Filling																																																					
2.1.1A Dredging		117	275	63	63																																																
2.1.1B Seawall Construction		117	275			63	63	63	63	63	63																																										
2.1.1C Filling behind seawall		120	275									66	66																																								
2.1.2 Drainage Culverts (2 cell)	N	126	275		72	72																		72	72	72	72	72																									
2.1.3 Cooling Water System																																																					
2.1.3A Cooling water intake chamber		116	255		63	63	63	63	63	63	63																																										
2.1.3B Pipeline works		124	100																					79	79																											
2.1.4 CWB Tunnel																																																					
2.1.4A Diaphragm Wall		129	260													75	75	75	75	75	75																																
2.1.4B Excavation		128	260														75	75	75	75	75	75	75																														
2.1.4C Construction of Slabs		123	260																				70	70																													
2.1.4D Backfill		125	260																						72	72	72	72																									
2.2 Wan Chai Reclamation Stage 2 (WCR2)																																																					
2.2.1 Dredging, Seawalls & Filling																																																					
2.2.1A Dredging		117	200																								66	66																									
2.2.1B Seawall Construction		117	200																																																		
2.2.1C Filling behind seawall		120	200																											68	68																						
2.2.2 CWB Tunnel																																																					
2.2.2A Diaphragm Wall		129	210																																77	77	77	77	77														
2.2.2B Excavation		128	210																																			77	77	77	77	77	77	77								
2.2.2C Construction of Slabs		123	210																																								72	72	72							
2.2.2D Backfill		125	210																																											74	74	74	74			
2.3 Wan Chai Reclamation Stage 3 (WCR3)																																																					
2.3.1 Dredging, Seawalls & Filling																																																					
2.3.1A Dredging		117	195																												66	66																					
2.3.1B Seawall Construction		117	195																														66													66						
2.3.1C Filling behind Seawall		120	195																																												69	69	69				
2.3.2 CWB Tunnel																																																					
2.3.2A Diaphragm Wall		132	205																																																		
2.3.2B Excavation		128	205																																																		
2.3.2C Construction of Slabs		123	205																																																		
2.3.2D Backfill		125	205																																																		
2.7 Ferry Pier Reprovisioning																																																					
2.7.1 Temporary Ferry Pier		122	240		69	69	69																																														
2.7.2 New Ferry Pier																																																					
2.7.2A Piling. Deck construction, & Superstructure		122	280					68	68	68	68	68	68	68	68	68	68	68	68																																	
2.7.2B Demolition of Structure		129	180																								79	79	79	79	79																						
2.9 Sewage Outfall																																																					
2.9.1 Marine Section		119	300									64	64	64	64	64	64	64	64	64	64																																
2.9.2 Land Section		125	250																					72	72	72	72	72	72																								
2.10 WSD's Salt Water Pumping Station																																																					
2.10A Diversion of Intake/Connection back to existing system		125	205													74	74	74	74	74	74	74																														
2.10B Construction of new pumping station		123	300		69	69	69	69	69	69	69																																									
2.11 Road																																																					
2.11A Roadworks		124	125																																																		
HKCEC Atrium Link Extension		127	310	72	72	72																																														
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				73	77	77	73	72	72	72	72	70	71	69	69	69	78	80	80	80	80	80	78	76	81	81	77	81	81	80	79	79	67		77	77	78	81	81	80	80	80	79	80	80	77	75	75	75	77	77

Predicted Construction Noise Levels, dB(A)		SWL	Distance	2013												2014												2015												2016			
N2 Causeway Centre		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
3.4 HKCEC Reclamation Stage 3																																											
3.4.1 Dredging, Seawalls & Filling																																											
3.4.1A Dredging		117	300																																								
3.4.1B Seawall Construction		117	300																																								
3.4.1C Filling behind Seawall		120	300																																								
3.4.2 Demolition of Structure		128	270																																								
3.4.3 Drainage Culverts (2 cell)	M	126	220																																								
3.4.4 CWB Tunnel																																											
3.4.4A Diaphragm Wall	East	129	250																																								
3.4.4B Excavation	East	128	250																																								
3.4.4C Construction of slabs	East	123	250																																								
3.4.4D Backfill	East	125	250																																								
3.4.4A Diaphragm Wall	West	129	290	74	74	74	74	74																																			
3.4.4B Excavation	West	128	290	74	74	74	74	74	74	74	74																																
3.4.4C Construction of slabs	West	123	290			69	69	69	69	69	69																																
3.4.4D Backfill	West	125	290						71	71	71	71	71																														
3.5 Roads																																											
3.5 Roadworks		124	215														72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72					
2 Wan Chai Reclamation																																											
2.1 Wan Chai Reclamation Stage 1 (WCR1)																																											
2.1.1 Dredging , Seawalls & Filling																																											
2.1.1A Dredging		117	275																																								
2.1.1B Seawall Construction		117	275																																								
2.1.1C Filling behind seawall		120	275																																								
2.1.2 Drainage Culverts (2 cell)	N	126	275																																								
2.1.3 Cooling Water System																																											
2.1.3A Cooling water intake chamber		116	255																																								
2.1.3B Pipeline works		124	100																																								
2.1.4 CWB Tunnel																																											
2.1.4A Diaphragm Wall		129	260																																								
2.1.4B Excavation		128	260																																								
2.1.4C Construction of Slabs		123	260																																								
2.1.4D Backfill		125	260																																								
2.2 Wan Chai Reclamation Stage 2 (WCR2)																																											
2.2.1 Dredging, Seawalls & Filling																																											
2.2.1A Dredging		117	200																																								
2.2.1B Seawall Construction		117	200																																								
2.2.1C Filling behind seawall		120	200																																								
2.2.2 CWB Tunnel																																											
2.2.2A Diaphragm Wall		129	210																																								
2.2.2B Excavation		128	210																																								
2.2.2C Construction of Slabs		123	210																																								
2.2.2D Backfill		125	210																																								
2.3 Wan Chai Reclamation Stage 3 (WCR3)																																											
2.3.1 Dredging, Seawalls & Filling																																											
2.3.1A Dredging		117	195																																								
2.3.1B Seawall Construction		117	195																																								
2.3.1C Filling behind Seawall		120	195																																								
2.3.2 CWB Tunnel																																											
2.3.2A Diaphragm Wall		132	205		80	80	80	80	80	80																																	
2.3.2B Excavation		128	205						77	77	77	77	77	77	77	77	77	77	77																								
2.3.2C Construction of Slabs		123	205														72	72	72	72																							
2.3.2D Backfill		125	205																		74	74	74	74	74																		
2.7 Ferry Pier Reprovisioning																																											
2.7.1 Temporary Ferry Pier		122	240																																								
2.7.2 New Ferry Pier																																											
2.7.2A Piling, Deck construction, & Superstructure		122	280																																								
2.7.2B Demolition of Structure		129	180																																								
2.9 Sewage Outfall																																											
2.9.1 Marine Section		119	300																																								
2.9.2 Land Section		125	250																																								
2.10 WSD's Salt Water Pumping Station																																											
2.10A Diversion of Intake/Connection back to existing system		125	205																																								
2.10B Construction of new pumping station		123	300																																								
2.11 Road																																											
2.11A Roadworks		124	125																						77	77	77	77	77	77	77	77	77	77	77	77							
HKCEC Atrium Link Extension		127	310																																								
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				77	82	82	82	82	83	83	80	78	78	77	77	77	77	79	79	75	75	76	76	76	80	80	78	78	78	78	78	78	78	78	78	78	78	72	72				

Predicted Construction Noise Levels, dB(A)

N3 Gloucester Road 169-170

		SWL	Distance	2009												2010												2011												2012											
		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
2 Wan Chai Reclamation																																																			
2.1 Wan Chai Reclamation Stage 1 (WCR1)																																																			
2.1.1 Dredging , Seawalls & Filling																																																			
2.1.1A Dredging		117	325	62	62																																														
2.1.1B Seawall Construction		117	325			61	61	61	61	61	61																																								
2.1.1C Filling behind seawall		120	325									64	64																																						
2.1.2 Drainage Culverts (2 cell)	N	126	300		72	72																			72	72	72	72	72																							
2.1.3 Cooling Water System																																																			
2.1.3B Pipeline works		124	150																						76	76																									
2.1.4 CWB Tunnel																																																			
2.1.4A Diaphragm Wall		129	300													74	74	74	74	74	74																														
2.1.4B Excavation		128	300														74	74	74	74	74	74	74																												
2.1.4C Construction of Slabs		123	300																				69	69																											
2.1.4D Backfill		125	300																						71	71	71	71																							
2.2 Wan Chai Reclamation Stage 2 (WCR2)																																																			
2.2.1 Dredging, Seawalls & Filling																																																			
2.2.1A Dredging		117	320																									62	62																						
2.2.1B Seawall Construction		117	320																											64	64																				
2.2.1C Filling behind seawall		120	320																																																
2.2.2 CWB Tunnel																																																			
2.2.2A Diaphragm Wall		129	300																															74	74	74	74	74													
2.2.2B Excavation		128	300																																		74	74	74	74	74										
2.2.2C Construction of Slabs		123	300																																					69	69	69									
2.2.2D Backfill		125	300																																											71	71	71	71		
2.9 Sewage Outfall																																																			
2.9.2 Land Section		125	270																						71	71	71	71	71	71																					
2.10 WSD's Salt Water Pumping Station																																																			
2.10A Diversion of Intake/Connection back to existing system		125	240													72	72	72	72	72	72	72																												
2.10B Construction of new pumping station		123	215		72	72	72	72	72	72	72																																								
2.11 Roads																																																			
2.11A Roadworks		124	255																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				62	75	75	72	72	72	72	72	64	64			76	78	78	78	78	78	77	75	79	79	76	76	75	72	64				74	74	74	77	77	74	74	74	74	75	75	69	71	71	71	71

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																								
N3 Gloucester Road 169-170		dB(A)	(m)	2013												2014												2015												2016			
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
2 Wan Chai Reclamation																																											
2.1 Wan Chai Reclamation Stage 1 (WCR1)																																											
2.1.1 Dredging , Seawalls & Filling																																											
2.1.1A Dredging		117	325																																								
2.1.1B Seawall Construction		117	325																																								
2.1.1C Filling behind seawall		120	325																																								
2.1.2 Drainage Culverts (2 cell)	N	126	300																																								
2.1.3 Cooling Water System																																											
2.1.3B Pipeline works		124	150																																								
2.1.4 CWB Tunnel																																											
2.1.4A Diaphragm Wall		129	300																																								
2.1.4B Excavation		128	300																																								
2.1.4C Construction of Slabs		123	300																																								
2.1.4D Backfill		125	300																																								
2.2 Wan Chai Reclamation Stage 2 (WCR2)																																											
2.2.1 Dredging, Seawalls & Filling																																											
2.2.1A Dredging		117	320																																								
2.2.1B Seawall Construction		117	320																																								
2.2.1C Filling behind seawall		120	320																																								
2.2.2 CWB Tunnel																																											
2.2.2A Diaphragm Wall		129	300																																								
2.2.2B Excavation		128	300																																								
2.2.2C Construction of Slabs		123	300																																								
2.2.2D Backfill		125	300																																								
2.9 Sewage Outfall																																											
2.9.2 Land Section		125	270																																								
2.10 WSD's Salt Water Pumping Station																																											
2.10A Diversion of Intake/Connection back to existing system		125	240																																								
2.10B Construction of new pumping station		123	215																																								
2.11 Roads																																											
2.11A Roadworks		124	255																																								
Predicted Construction Noise Levels, dB(A)(with Façade Effect)																									71	71	71	71	71	71	71	71	71	71	71	71							
																									71	71	71	71	71	71	71	71	71	71	71	71							

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																																	
N6 Elizabeth House		dB(A)	(m)	2009												2010												2011												2012											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1.2.3 CWB Tunnel (CHT)																																																			
1.2.3A Rock Blasting/Excavation		130	270																																																
1.2.3B Construction of Slabs		123	270																									76	76	76	76	76	76	76																	
2.5 Temporary Reclamation at PCWA Stage 1																																				69	69	69													
2.5.1 Dredging , Seawalls & Filling (TPCWAE)																																																			
2.5.1A Dredging (=Removal Temp. seawall)		117	235	65																																															
2.5.1B Temporary Seawall Construction		117	235		64																																														
2.5.1C Filling behind seawall		120	235																																																
2.5.2 CWB Tunnel (TPCWAE)																																																			
2.5.2A Diaphragm Wall		129	230				76	76	76	76	76	76																																							
2.5.2B Excavation		128	230										76	76	76	76	76	76	76	76	76																														
2.5.2C Construction of Slabs		123	230																			71	71																												
2.5.2D Backfill		125	230																																			73	73	73	73										
2.5.1A Removal of Temp. Reclamation (Dredging)		117	235																																							65	65								
2.6 Temporary Reclamation at PCWA Stage 2																																																			
2.6.1 Dredging , Seawalls & Filling (TPCWAW)																																																			
2.6.1A Dredging(=Removal Temp. seawall)		117	220																																							65									
2.6.1B Temporary Seawall Construction		117	220																																								65								
2.6.1C Filling behind seawall		120	220																																									68							
2.6.2 CWB Tunnel (TPCWAW)																																													76	76	76	76	76	76	76
2.6.2A Diaphragm Wall		129	250																																																	
2.6.2B Excavation		128	250																																																	
2.6.2C Construction of Slabs		123	250																																																	
2.6.2D Backfill		125	250																																																	
2.5.1A Removal of Temp. Reclamation (Dredging)		117	220																																																	
2.4 Wan Chai Reclamation Stage 4 (WCR4)																																																				
2.4.2 Drainage Culverts (3 cell)	O	126	225																																																	
2.10 WSD's Salt Water Pumping Station																																																				
2.10A Diversion of Intake/Connection back to existing system		125	265													72	72	72	72	72	72	72																													
2.10B Construction of new pumping station		123	225	71	71	71	71	71	71	71																																										
2.11 Roads																																																				
2.11A Roadworks		124	255																																																	
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				72	72	77	77	77	77	77	76	76	76	76	76	77	77	77	77	77	74	74						76	76	76	76	76	76	76	69	69	75	73	73	73	68	68	68	76	76	76	76	76	76	76

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																								
N6 Elizabeth House		dB(A)	(m)	2013												2014												2015												2016			
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
1.2.3 CWB Tunnel (CHT)																																											
1.2.3A Rock Blasting/Excavation		130	270																																								
1.2.3B Construction of Slabs		123	270																																								
2.5 Temporary Reclamation at PCWA Stage 1																																											
2.5.1 Dredging , Seawalls & Filling (TPCWAE)																																											
2.5.1A Dredging (=Removal Temp. seawall)		117	235																																								
2.5.1B Temporary Seawall Construction		117	235																																								
2.5.1C Filling behind seawall		120	235																																								
2.5.2 CWB Tunnel (TPCWAE)																																											
2.5.2A Diaphragm Wall		129	230																																								
2.5.2B Excavation		128	230																																								
2.5.2C Construction of Slabs		123	230																																								
2.5.2D Backfill		125	230																																								
2.5.1A Removal of Temp. Reclamation (Dredging)		117	235																																								
2.6 Temporary Reclamation at PCWA Stage 2																																											
2.6.1 Dredging , Seawalls & Filling (TPCWAW)																																											
2.6.1A Dredging(=Removal Temp. seawall)		117	220																																								
2.6.1B Temporary Seawall Construction		117	220																																								
2.6.1C Filling behind seawall		120	220																																								
2.6.2 CWB Tunnel (TPCWAW)																																											
2.6.2A Diaphragm Wall		129	250																																								
2.6.2B Excavation		128	250	75	75	75	75	75	75	75	75	75	75	75																													
2.6.2C Construction of Slabs		123	250												70	70																											
2.6.2D Backfill		125	250														72	72	72	72																							
2.5.1A Removal of Temp. Reclamation (Dredging)		117	220																											65	65	65											
2.4 Wan Chai Reclamation Stage 4 (WCR4)																																											
2.4.2 Drainage Culverts (3 cell)	O	126	225		74	74	74	74	74												74	74	74	74	74	74	74	74	74	74													
2.10 WSD's Salt Water Pumping Station																																											
2.10A Diversion of Intake/Connection back to existing system		125	265																																								
2.10B Construction of new pumping station		123	225																																								
2.11 Roads																																											
2.11A Roadworks		124	255																																								
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				75	78	78	78	78	78	75	75	75	75	75	70	70	72	72	72	72	74	74	74	74	76	76	76	76	76	76	72	72	71	71	71	71							

Predicted Construction Noise Levels, dB(A)	SWL	Distance	2009												2010												2011												2012											
N8 Marco Polo Mansion	dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1 Causeway Bay Reclamation																																																		
1.1 Temporary Relocation CBTS																																																		
1.2.1D Dredging (TCBR1W)(=Removal Temp. Seawall)	117	210										66	66																																					
1.2.1E Temporary Seawall (TCBR1W)	117	210												65	65	65																																		
1.2.1F Filling behind seawall (TCBR1W)	120	210															68																																	
1.2.2E Diaphragm Wall (TCBR1W)	129	215																77	77	77	77	77	77	77																										
1.2.2F Excavation (TCBR1W)	131	215																				80	80	80	80	80	80	80																						
1.2.2G Construction of Slabs (TCBR1W)	123	215																									72	72	72	72																				
1.2.2H Backfill (TCBR1W)	125	215																																			74	74	74	74	74									
1.2.1D Removal Temp. Reclamation (Dredging)	117	210																																								66	66							
1.2.3 CWB Tunnel (CHT)																																																		
1.2.3A Rock Blasting/Excavation	130	285																										76	76	76	76	76	76	76																
1.2.3B Construction of Slabs	123	285																																	69	69	69													
1.4 CBTS Temporary Reclamation Stage 3																																																		
1.4.1 Dredging, Seawalls & Filling (TCBR3)																																																		
1.4.1A Dredging	117	280																									63	63	63																					
1.4.1B Temporary Seawall	117	280																												63	63	63																		
1.4.1C Filling behind seawall	120	280																															66																	
1.4.2 CWB Tunnel																																																		
1.4.2A Diaphragm Wall	129	280																																75	75	75	75	75	75											
1.4.2B Excavation	128	280																																																
1.4.2C Construction of Slabs	123	280																																																
1.4.2D Backfill	125	280																																																
1.4.1A Removal Temp. Reclamation (Dredging)	117	280																																																
1.5 CBTS Temporary Reclamation Stage 4																																																		
1.5.1 Dredging, Seawalls & Filling (TCBR4)																																																		
1.5.1A Dredging	117	160																																																
1.5.1B Temporary Seawall	117	160																																									68	68	68	68				
1.5.1C Filling behind seawall	120	160																																													68	68	68	
1.5.2 CWB Tunnel																																																		70
1.5.2A Diaphragm Wall	129	185																																																
1.5.2B Excavation	131	185																																																
1.5.2C Construction of Slabs	123	185																																																
1.5.2D Backfill	125	185																																																
1.5.1A Removal Temp. Reclamation (Dredging)	117	160																																																
1.6 Temporary diversion of cooling system																																																		
1.6.1 Temporary cooling water pipeline	124	170																						75	75	75																								
1.9 Slip Road 8 & Victoria Park Reprovisioning																																																		
1.9.1 Slip Road 8 Tunnel	124	190																																																
1.9.2 At-grade Road	123	190																																																
1.9.3 Landscape Deck																																																		
1.9.3A Substructure works	124	160																																																
1.9.3B Superstructure works	123	160																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)												66	66	65	65	65	68	77	77	77	77	81	81	82	81	81	80	82	77	77	76	76	76	78	76	76	78	77	77	74	74	66	70	68	68	68	68	68	68	70

Predicted Construction Noise Levels, dB(A)

N8 Marco Polo Mansion

	SWL dB(A)	Distance (m)	2013 1	2013 2	2013 3	2013 4	2013 5	2013 6	2013 7	2013 8	2013 9	2013 10	2013 11	2013 12	2014 1	2014 2	2014 3	2014 4	2014 5	2014 6	2014 7	2014 8	2014 9	2014 10	2014 11	2014 12	2015 1	2015 2	2015 3	2015 4	2015 5	2015 6	2015 7	2015 8	2015 9	2015 10	2015 11	2015 12	2016 1	2016 2	2016 3	2016 4
1 Causeway Bay Reclamation																																										
1.1 Temporary Relocation CBTS																																										
1.2.1D Dredging (TCBR1W)(=Removal Temp. Seawall)	117	210																																								
1.2.1E Temporary Seawall (TCBR1W)	117	210																																								
1.2.1F Filling behind seawall (TCBR1W)	120	210																																								
1.2.2E Diaphragm Wall (TCBR1W)	129	215																																								
1.2.2F Excavation (TCBR1W)	131	215																																								
1.2.2G Construction of Slabs (TCBR1W)	123	215																																								
1.2.2H Backfill (TCBR1W)	125	215																																								
1.2.1D Removal Temp. Reclamation (Dredging)	117	210																																								
1.2.3 CWB Tunnel (CHT)																																										
1.2.3A Rock Blasting/Excavation	130	285																																								
1.2.3B Construction of Slabs	123	285																																								
1.4 CBTS Temporary Reclamation Stage 3																																										
1.4.1 Dredging, Seawalls & Filling (TCBR3)																																										
1.4.1A Dredging	117	280																																								
1.4.1B Temporary Seawall	117	280																																								
1.4.1C Filling behind seawall	120	280																																								
1.4.2 CWB Tunnel																																										
1.4.2A Diaphragm Wall	129	280																																								
1.4.2B Excavation	128	280	74	74	74	74	74	74	74	74	74	74																														
1.4.2C Construction of Slabs	123	280									69	69	69																													
1.4.2D Backfill	125	280												71	71	71	71																									
1.4.1A Removal Temp. Reclamation (Dredging)	117	280																63																								
1.5 CBTS Temporary Reclamation Stage 4																																										
1.5.1 Dredging, Seawalls & Filling (TCBR4)																																										
1.5.1A Dredging	117	160																																								
1.5.1B Temporary Seawall	117	160																																								
1.5.1C Filling behind seawall	120	160	70	70																																						
1.5.2 CWB Tunnel																																										
1.5.2A Diaphragm Wall	129	185			78	78	78	78	78	78	78	78	78	78	78	78	78	78																								
1.5.2B Excavation	131	185									81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																	
1.5.2C Construction of Slabs	123	185																			73	73	73	73	73	73	73	73	73													
1.5.2D Backfill	125	185																							75	75	75	75	75	75	75	75	75	75								
1.5.1A Removal Temp. Reclamation (Dredging)	117	160																																	68	68						
1.6 Temporary diversion of cooling system																																										
1.6.1 Temporary cooling water pipeline	124	170																																		75	75					
1.9 Slip Road 8 & Victoria Park Reprovisioning																																										
1.9.1 Slip Road 8 Tunnel	124	190										74	74	74	74	74	74	74	74	74	74	74																				
1.9.2 At-grade Road	123	190													72	72	72	72	72	72	72	72	72	72																		
1.9.3 Landscape Deck																																										
1.9.3A Substructure works	124	160													75	75	75	75	75																							
1.9.3B Superstructure works	123	160																		74	74	74	74	74	74	74																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)			76	76	80	80	80	80	80	80	80	84	83	84	84	84	84	84	83	83	83	83	83	83	83	83	77	77	77	77	75	75	75	75	75	68	75	75				

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																															
N11 Mayson Garden		dB(A)	(m)	2009												2010												2011												2012											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
6.0 Construction of IECL																																																			
6.2 IEC Connection Work																																																			
6.2A Substructures																																																			
6.2B Superstructures	NPR2W	121	300																																																
1 Causeway Bay Reclamation	NPR2W w/temp bridge	112	300																																																
1.9 Slip Road 8 & Victoria Park Reprovisioning																																								67	67	67										
1.9.1 Slip Road 8 Tunnel																																																		57	57
1.9.2 At-grade Road		124	210																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)		123	7																																																
																																								67	67	67									57	57

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																										
N11 Mayson Garden		dB(A)	(m)	2013												2014												2015												2016			
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
6.0 Construction of IECL																																											
6.2 IEC Connection Work																																											
6.2A Substructures	NPR2W	121	300																																								
6.2B Superstructures	NPR2W w/temp bridge	112	300	**57**	**57**																																						
1 Causeway Bay Reclamation																																											
1.9 Slip Road 8 & Victoria Park Reprovisioning																																											
1.9.1 Slip Road 8 Tunnel																																											
1.9.2 At-grade Road		124	210											**73**	**73**	**73**	**73**	**73**	**73**	**73**	**73**	**73**	**73**	**73**																			
Predicted Construction Noise Levels, dB(A)(with Façade Effect)		123	7														**101**	**101**	**101**	**101**	**101**			**101**	**101**	**101**																	
				57	57									73	73	73	101	101	101	101	101	73	73	101	101	101																	

Predicted Construction Noise Levels, dB(A)

N13 Belle House

		SWL	Distance	2009												2010												2011												2012											
		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
1.2 CBTS Temporary Reclamation Stage 1																																																			
1.2.1 Dredging, Seawalls & Filling (TCBR1)																																																			
1.2.1A Dredging (TCBR1E)(Removal Temp. Seawall TCBR1E)																																																			
1.2.1B Temporary Seawall (TCBR1E)		116	220								65	65																																							
1.2.1C Filling behind seawall (TCBR1E)		115	220										63	63	63																																				
1.2.2 CWB Tunnel (TCBR1)		119	220													67																																			
1.2.2A Diaphragm Wall (TCBR1E)																																																			
1.2.2B Excavation (TCBR1E)		128	230														76	76	76	76	76																														
1.2.2C Construction of Slabs (TCBR1E)		128	230																76	76	76	76	76	76																											
1.2.2D Backfill (TCBR1E)		123	230																					70	70																										
1.2.1A Removal Temp. Reclamation (Dredging)		125	230																							73																									
1.3 CBTS Temporary Reclamation Stage 2		116	220																								65																									
1.3.1 Dredging, Seawalls & Filling (TCBR2)																																																			
1.3.1A Dredging																																																			
1.3.1B Temporary Seawall		117	280										63	63																																					
1.3.1C Filling behind seawall		117	280													63	63	63																																	
1.3.2 CWB Tunnel		120	280																66	66																															
1.3.2A Diaphragm Wall																																																			
1.3.2B Excavation		129	280																		75	75	75	75	75																										
1.3.2C Construction of Slabs		128	280																																																
1.3.2D Backfill		123	280																												74	74	74	74	74	74	74	74													
1.3.1A Removal Temp. Reclamation (Dredging)		125	280																																				69	69											
1.9 Slip Road 8 & Victoria Park Reprovisioning		116	280																																						71	71									
1.9.1 Slip Road 8 Tunnel																																											62								
1.9.2 At-grade Road		124	205																																																
5 North Point Reclamtion		123	50																																																
5.1 North Point Reclamtion Stage 1																																																			
5.1.1 Dredging, Seawalls & Filling																																																			
5.1.1A Dredging																																																			
5.1.1B Seawall Construction		116	300	62	62	62																																													
5.1.1C Filling behind Seawall		115	300				61	61	61																																										
5.1.2 CWB Tunnel		119	300							65	65	65																																							
5.1.2A Diaphragm Wall																																																			
5.1.2B Excavation		128	265																																																
5.1.2C Construction of Slabs		128	265												75	75	75	75																																	
5.1.2D Backfill		123	265																75	75	75																														
5.2 North Point Reclamtion Stage 2		125	265																			69																													
5.2.1 Dredging, Seawalls & Filling																							72	72																											
5.2.1A Dredging																																																			
5.2.1B Seawall Construction	West	116	250				63	63																																											
5.2.1C Filling behind Seawall	West	115	250						62	62																																									
5.2.2 CWB Tunnel (NPR2W)	West	119	250								66	66																																							
5.2.2A Diaphragm Wall																																																			
5.2.2B Excavation		128	220																																																
5.2.2C Construction of Slabs		128	220												77	77																																			
5.2.2D Backfill		123	220																																				77	77	77	77									
5.2.2E Foundation of East Vent Building		125	220																																								76	76	76	76					
6.0 Construction of IECL		123	210																																												71				
6.2 IEC Connection Work																																																73	73		
6.2A Substructures																																																			
6.2B Superstructures	EB at NPR1	121	220																																				71	71	71	71									
6.2A Substructures	EB at NPR1 w/temp bridge	112	220																																															
6.2B Superstructures	EB at NPR2W	121	150																				69	69	69																										
Reconstruction IEC West Bound	EB at NPR2W w/temp bridge	112	150																							60	60	60	60	60	60	60																			
6.2C Demolition of Structure																																																			
6.2A Substructures	WB	127	165																																				73	73	73										
6.2B Superstructures	WB	121	165																																														63	63	
6.2C Demolition of Structure	WB	112	165																																																
9.0 Tunnel Building and Installation	EB	127	185																																																
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																																			
9.0B Superstructures																																																			
Predicted Construction Noise Levels, dB(A)(with Façade Effect)	E Vent. B.	121	210																																																
				62	62	62	65	65	65	67	70	70	63	66	66	79	81	79	81	81	81	80	79	80	78	74	71	60	60	60	60	74	74	74	74	74	74	74	74	79	79	80	79	76	76	76	76	71	73	75	71

Predicted Construction Noise Levels, dB(A)

N13 Belle House

		SWL	Distance	2013												2014												2015												2016			
		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
1.2 CBTS Temporary Reclamation Stage 1																																											
1.2.1 Dredging, Seawalls & Filling (TCBR1)																																											
1.2.1A Dredging (TCBR1E)(Removal Temp. Seawall TCBR1E)																																											
1.2.1B Temporary Seawall (TCBR1E)		116	220																																								
1.2.1C Filling behind seawall (TCBR1E)		115	220																																								
1.2.2 CWB Tunnel (TCBR1)		119	220																																								
1.2.2A Diaphragm Wall (TCBR1E)																																											
1.2.2B Excavation (TCBR1E)		128	230																																								
1.2.2C Construction of Slabs (TCBR1E)		128	230																																								
1.2.2D Backfill (TCBR1E)		123	230																																								
1.2.1A Removal Temp. Reclamation (Dredging)		125	230																																								
1.3 CBTS Temporary Reclamation Stage 2		116	220																																								
1.3.1 Dredging, Seawalls & Filling (TCBR2)																																											
1.3.1A Dredging																																											
1.3.1B Temporary Seawall		117	280																																								
1.3.1C Filling behind seawall		117	280																																								
1.3.2 CWB Tunnel		120	280																																								
1.3.2A Diaphragm Wall																																											
1.3.2B Excavation		129	280																																								
1.3.2C Construction of Slabs		128	280																																								
1.3.2D Backfill		123	280																																								
1.3.1A Removal Temp. Reclamation (Dredging)		125	280																																								
1.9 Slip Road 8 & Victoria Park Reprovisioning		116	280																																								
1.9.1 Slip Road 8 Tunnel																																											
1.9.2 At-grade Road		124	205																																								
5 North Point Reclamtion		123	50										73	73	73	73	73	73	73	73	73	73	73																				
5.1 North Point Reclamtion Stage 1																84	84	84	84	84			84	84	84																		
5.1.1 Dredging, Seawalls & Filling																																											
5.1.1A Dredging																																											
5.1.1B Seawall Construction		116	300																																								
5.1.1C Filling behind Seawall		115	300																																								
5.1.2 CWB Tunnel		119	300																																								
5.1.2A Diaphragm Wall																																											
5.1.2B Excavation		128	265																																								
5.1.2C Construction of Slabs		128	265																																								
5.1.2D Backfill		123	265																																								
5.2 North Point Reclamtion Stage 2		125	265																																								
5.2.1 Dredging, Seawalls & Filling																																											
5.2.1A Dredging																																											
5.2.1B Seawall Construction	West	116	250																																								
5.2.1C Filling behind Seawall	West	115	250																																								
5.2.2 CWB Tunnel (NPR2W)	West	119	250																																								
5.2.2A Diaphragm Wall																																											
5.2.2B Excavation		128	220																																								
5.2.2C Construction of Slabs		128	220																																								
5.2.2D Backfill		123	220																																								
5.2.2E Foundation of East Vent Building		125	220																																								
6.0 Construction of IECL		123	210																																								
6.2 IEC Connection Work																																											
6.2A Substructures																																											
6.2B Superstructures	EB at NPR1	121	220																																								
6.2A Substructures	EB at NPR1 w/temp bridge	112	220																																								
6.2B Superstructures	EB at NPR2W	121	150																																								
Reconstruction IEC West Bound	EB at NPR2W w/temp bridge	112	150	63																																							
6.2C Demolition of Structure																																											
6.2A Substructures	WB	127	165		78	78	78																																				
6.2B Superstructures	WB	121	165					72	72	72																																	
6.2C Demolition of Structure	WB	112	165								62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62																
9.0 Tunnel Building and Installation	EB	127	185																									77	77	77													
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																											
9.0B Superstructures																																											
Predicted Construction Noise Levels, dB(A)(with Façade Effect)	E Vent. B.	121	210	70	70																																						
				71	78	78	78	72	72	72	62	62	62	74	74	74	84	84	84	84	84	74	74	84	84	84	62	62	77	77	77												

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																				
N15 Staff Quarters of FEHD Depot		dB(A)	(m)	2009												2010												2011												2012	
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2
1.1 Temporary Relocation CBTS																																									
1.1.1 Temporary Breakwater																																									
1.1.1B Piling		119	130		72	72	72																																		
1 Causeway Bay Reclamation																																									
1.2 CBTS Temporary Reclamation Stage 1																																									
1.2.1 Dredging, Seawalls & Filling (TCBR1)																																									
1.2.1A Dredging (TCBR1E)(Removal Temp. seawall)		116	125								69	69																													
1.2.1B Temporary Seawall (TCBR1E)		115	125										68	68	68																										
1.2.1C Filling behind seawall (TCBR1E)		119	125													72																									
1.2.2 CWB Tunnel (TCBR1)																																									
1.2.2A Diaphragm Wall (TCBR1E)		128	140														80	80	80	80	80																				
1.2.2B Excavation (TCBR1E)		128	140																80	80	80	80	80	80																	
1.2.2C Construction of Slabs (TCBR1E)		123	140																					75	75																
1.2.2D Backfill (TCBR1E)		125	140																							77															
1.2.1A Removal Temp. Reclamation (Dredging)		116	125																								69														
1.3 CBTS Temporary Reclamation Stage 2																																									
1.3.1 Dredging, Seawalls & Filling (TCBR2)																																									
1.3.1A Dredging		117	210											66	66	66																									
1.3.1B Temporary Seawall		117	210														65	65																							
1.3.1C Filling behind seawall		120	210																68	68																					
1.3.2 CWB Tunnel																																									
1.3.2A Diaphragm Wall		129	200																		78	78	78	78	78																
1.3.2B Excavation		128	200																													77	77	77	77	77	77	77	77		
1.3.2C Construction of Slabs		123	200																																					72	72
5 North Point Reclamtion																																									
5.1 North Point Reclamtion Stage 1																																									
5.1.1 Dredging, Seawalls & Filling																																									
5.1.1A Dredging		116	180	66	66	66																																			
5.1.1B Seawall Construction		115	180				65	65	65																																
5.1.1C Filling behind Seawall		119	180							69	69	69																													
5.1.2 CWB Tunnel																																									
5.1.2A Diaphragm Wall		128	150													80	80	80	80																						
5.1.2B Excavation		128	150																	80	80	80																			
5.1.2C Construction of Slabs		123	150																				74																		
5.1.2D Backfill		125	150																					77	77																
5.2 North Point Reclamtion Stage 2																																									
5.2.1 Dredging, Seawalls & Filling																																									
5.2.1A Dredging	W	116	130				69	69																																	
5.2.1B Seawall Construction	W	115	130						68	68																															
5.2.1C Filling behind Seawall	W	119	130								72	72																													
5.2.2 CWB Tunnel (NPR2W)																																									
5.2.2A Diaphragm Wall		128	100													83	83																							83	83
5.2.2B Excavation		128	100																																						
5.2.2C Construction of Slabs		123	100																																						
5.2.2D Backfill		125	100																																						
5.2.2E Foundation of East Vent Building		123	90																																					78	78
6.0 Construction of IECL																																									
6.2A Substructures	EB at NPR1	121	100																					76	76	76															
6.2B Superstructures	EB at NPR1 w/temp bridge	112	100																									67	67	67	67	67	67	67							
6.2A Substructures	EB at NPR2W	121	40																																					84	84
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				66	73	73	74	71	70	71	75	75	68	70	70	85	86	83	85	85	86	84	83	84	82	80	77	67	67	67	67	78	78	78	77	77	77	77	77	87	87

According to the tentative programme, FEHD depot would be relocated in Feb 2012

Predicted Construction Noise Levels, dB(A)
N17 Harbour Heights

		SWL dB(A)	Distance (m)	2009 1	2009 2	2009 3	2009 4	2009 5	2009 6	2009 7	2009 8	2009 9	2009 10	2009 11	2009 12	2010 1	2010 2	2010 3	2010 4	2010 5	2010 6	2010 7	2010 8	2010 9	2010 10	2010 11	2010 12	2011 1	2011 2	2011 3	2011 4	2011 5	2011 6	2011 7	2011 8	2011 9	2011 10	2011 11	2011 12	2012 1	2012 2	2012 3	2012 4	2012 5	2012 6	2012 7	2012 8	2012 9	2012 10	2012 11	2012 12
1.1 Temporary Relocation CBTS																																																			
1.1.1 Temporary Breakwater																																																			
1.1.1B Piling																																																			
1 Causeway Bay Reclamation		117	280		63	63	63																																												
1.2 CBTS Temporary Reclamation Stage 1																																																			
1.2.1 Dredging, Seawalls & Filling (TCBR1)																																																			
1.2.1A Dredging (TCBR1E)																																																			
1.2.1B Temporary Seawall (TCBR1E)		116	250								63	63																																							
1.2.1C Filling behind seawall (TCBR1E)		115	250										62	62	62																																				
1.2.2 CWB Tunnel (TCBR1)		119	250													66																																			
1.2.2A Diaphragm Wall (TCBR1E)																																																			
1.2.2B Excavation (TCBR1E)		128	250														75	75	75	75	75																														
1.2.2C Construction of Slabs (TCBR1E)		128	250																75	75	75	75	75	75																										
1.2.2D Backfill (TCBR1E)		123	250																					70	70																										
1.2.1A Removal of Temp. Seawall (Dredging)		125	250																							72																									
5 North Point Reclamtion		116	250																								63																								
5.1 North Point Reclamtion Stage 1																																																			
5.1.1 Dredging, Seawalls & Filling																																																			
5.1.1A Dredging																																																			
5.1.1B Seawall Construction		116	105	71	71	71																																													
5.1.1C Filling behind Seawall		115	105				70	70	70																																										
5.1.2 CWB Tunnel		119	105							74	74	74																																							
5.1.2A Diaphragm Wall																																																			
5.1.2B Excavation		128	81													85	85	85	85																																
5.1.2C Construction of Slabs		128	81																	85	85	85																													
5.1.2D Backfill		122	81																				79																												
5.2 North Point Reclamtion Stage 2		125	81																					82	82																										
5.2.1 Dredging, Seawalls & Filling																																																			
5.2.1A Dredging																																																			
5.2.1B Seawall Construction	E	116	250					63	63	63	63																																								
5.2.1C Filling behind Seawall	E	115	250									62	62	62	62	62	62																																	
5.2.2 CWB Tunnel (NPR2W)	E	119	250															66	66	66	66	66																												
5.2.1A Dredging																																																			
5.2.1B Seawall Construction	W	116	170				67	67																																											
5.2.1C Filling behind Seawall	W	115	170						65	65																																									
5.2.2A Diaphragm Wall	W	119	170								69	69																																							
5.2.2B Excavation		128	150													80	80																																		
5.2.2C Construction of Slabs		128	150																																				80	80	80	80									
5.2.2D Backfill		123	150																																								80	80	80	80					
5.2.2E Foundation of East Vent Building		125	150																																												74				
6.0 Construction of IECL		123	190																																													77	77	
6.2 IEC Connection Work																																							72	72	72	72									
6.2A Substructures																																																			
6.2B Superstructures	NPR1	121	75																					79	79	79																									
6.2A Substructures	NPR1	112	68																								70	70	70	70	70	70	70																		
6.2B Superstructures	NPR2E	121	160																							72	72	72	72	72																					
6.2A Substructures	NPR2E	112	160																												63	63	63	63	63	63	63	63	63	63	63										
6.2B Superstructures	NPR2W	121	110																																				75	75	75										
Reconstruction IEC West Bound	NPR2W	112	110																																														66	66	
6.2C Demolition of Structure																																																			
6.2A Substructures	WB	127	20																																																
6.2B Superstructures	WB	121	28																																																
6.3.3 Demolition of Structure	WB	112	20																																																
6.3 East Portal and IEC Connection Work	EB	127	32																																																
6.3.1 Substructures																																																			
6.3.2 Retaining Structures		121	105																																																
9.0 Tunnel Building and Installation		121	105																																																
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																																			
9.0B Superstructures																																																			
Predicted Construction Noise Levels, dB(A)(with Façade Effect)	East Vent B.	121	190	71	72	72	72	72	72	75	76	76	65	65	65	86	87	86	86	86	86	85	81	83	84	80	80	74	74	74	74	71	71	71	63	63	63	63	63	82	82	82	81	80	80	80	80	74	77	78	72

Predicted Construction Noise Levels, dB(A)

N17 Harbour Heights

		SWL dB(A)	Distance (m)	2013 1	2	3	4	5	6	7	8	9	10	11	12	2014 1	2	3	4	5	6	7	8	9	10	11	12	2015 1	2	3	4	5	6	7	8	9	10	11	12	2016 1	2	3	4	5
1.1 Temporary Relocation CBTS																																												
1.1.1 Temporary Breakwater																																												
1.1.1B Piling																																												
1 Causeway Bay Reclamation		117	280																																									
1.2 CBTS Temporary Reclamation Stage 1																																												
1.2.1 Dredging, Seawalls & Filling (TCBR1)																																												
1.2.1A Dredging (TCBR1E)																																												
1.2.1B Temporary Seawall (TCBR1E)		116	250																																									
1.2.1C Filling behind seawall (TCBR1E)		115	250																																									
1.2.2 CWB Tunnel (TCBR1)		119	250																																									
1.2.2A Diaphragm Wall (TCBR1E)																																												
1.2.2B Excavation (TCBR1E)		128	250																																									
1.2.2C Construction of Slabs (TCBR1E)		128	250																																									
1.2.2D Backfill (TCBR1E)		123	250																																									
1.2.1A Removal of Temp. Seawall (Dredging)		125	250																																									
5 North Point Reclamtion		116	250																																									
5.1 North Point Reclamtion Stage 1																																												
5.1.1 Dredging, Seawalls & Filling																																												
5.1.1A Dredging																																												
5.1.1B Seawall Construction		116	105																																									
5.1.1C Filling behind Seawall		115	105																																									
5.1.2 CWB Tunnel		119	105																																									
5.1.2A Diaphragm Wall																																												
5.1.2B Excavation		128	81																																									
5.1.2C Construction of Slabs		128	81																																									
5.1.2D Backfill		122	81																																									
5.2 North Point Reclamtion Stage 2		125	81																																									
5.2.1 Dredging, Seawalls & Filling																																												
5.2.1A Dredging																																												
5.2.1B Seawall Construction	E	116	250																																									
5.2.1C Filling behind Seawall	E	115	250																																									
5.2.2 CWB Tunnel (NPR2W)	E	119	250																																									
5.2.1A Dredging																																												
5.2.1B Seawall Construction	W	116	170																																									
5.2.1C Filling behind Seawall	W	115	170																																									
5.2.2A Diaphragm Wall	W	119	170																																									
5.2.2B Excavation		128	150																																									
5.2.2C Construction of Slabs		128	150																																									
5.2.2D Backfill		123	150																																									
5.2.2E Foundation of East Vent Building		125	150																																									
6.0 Construction of IECL		123	190																																									
6.2 IEC Connection Work																																												
6.2A Substructures																																												
6.2B Superstructures	NPR1	121	75																																									
6.2A Substructures	NPR1	112	68																																									
6.2B Superstructures	NPR2E	121	160																																									
6.2A Substructures	NPR2E	112	160																																									
6.2B Superstructures	NPR2W	121	110																																									
Reconstruction IEC West Bound	NPR2W	112	110	**66**																																								
6.2C Demolition of Structure																																												
6.2A Substructures	WB	127	20		**96**	**96**	**96**																																					
6.2B Superstructures	WB	121	28					**87**	**87**	**87**																																		
6.3.3 Demolition of Structure	WB	112	20								**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**	**81**																	
6.3 East Portal and IEC Connection Work	EB	127	32																									**92**	**92**	**92**														
6.3.1 Substructures																																												
6.3.2 Retaining Structures		121	105																												**76**	**76**												
9.0 Tunnel Building and Installation		121	105																														**76**	**76**	**76**	**76**	**76**							
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																												
9.0B Superstructures	East Vent B.	121	190	**71**	**71**																																							
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				72	96	96	96	87	87	87	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	92	92	92	76	76	76	76	76	76	76						

Predicted Construction Noise Levels, dB(A)

N18 City Garden, Block 10

		SWL	Distance	2009												2010												2011												2012											
		dB(A)	(m)	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
5 North Point Reclamtion																																																			
5.1 North Point Reclamtion Stage 1																																																			
5.1.1 Dredging, Seawalls & Filling																																																			
5.1.1A Dredging																																																			
5.1.1B Seawall Construction		116	270	63	63	63																																													
5.1.1C Filling behind Seawall		115	270				62	62	62																																										
5.1.2 CWB Tunnel		119	270							65	65	65																																							
5.1.2A Diaphragm Wall																																																			
5.1.2B Excavation		128	295													74	74	74	74																																
5.1.2C Construction of Slabs		128	295																	74	74	74																													
5.1.2D Backfill		123	295																				69																												
5.2 North Point Reclamtion Stage 2		125	295																					71	71																										
5.2.1 Dredging, Seawalls & Filling																																																			
5.2.1A Dredging																																																			
5.2.1B Seawall Construction	E	116	75				74	74	74	74																																									
5.2.1C Filling behind Seawall	E	115	75								73	73	73	73	73	73																																			
6.0 Construction of IECL	E	119	75															77	77	77	77	77																													
6.2 IEC Connection Work																																																			
6.2A Substructures																																																			
6.2B Superstructures	NPR1	121	255																						68	68	68																								
6.2A Substructures	NPR1	112	255																									59	59	59	59	59	59	59																	
6.2B Superstructures	NPR2E(EB)	121	68																								79	79	79	79	79																				
Reconstruction IEC West Bound	NPR2E(EB)	112	68																													70	70	70	70	70	70	70	70	70	70	70									
6.2C Demolition of Structure																																																			
6.2A Substructures	WB	127	16																																																
6.2B Superstructures	WB	121	34																																																
6.2C Demolition of Structure	WB	112	20																																																
6.2A Substructures		127	30																																																
6.2B Superstructures		121	50																																																
6.3 East Portal and IEC Connection Work		112	50																																																
6.3.1 Substructures																																																			
6.3.2 Retaining Structures		121	34																																																
9.0 Tunnel Building and Installation		121	34																																																
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																																			
9.0A Substructures																																																			
9.0B Superstructures	Admin B.	121	40																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)	Admin B.	121	40																																																
				63	63	63	62	74	74	74	74	73	73	73	73	76	76	78	78	78	78	78	69	71	73	68	80	80	80	80	80	70	70	70	70	70	70	70	70	70	70	70									

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																									
N18 City Garden, Block 10		dB(A)	(m)	2013												2014												2015												2016				
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
5 North Point Reclamtion																																												
5.1 North Point Reclamtion Stage 1																																												
5.1.1 Dredging, Seawalls & Filling																																												
5.1.1A Dredging		116	270																																									
5.1.1B Seawall Construction		115	270																																									
5.1.1C Filling behind Seawall		119	270																																									
5.1.2 CWB Tunnel																																												
5.1.2A Diaphragm Wall		128	295																																									
5.1.2B Excavation		128	295																																									
5.1.2C Construction of Slabs		123	295																																									
5.1.2D Backfill		125	295																																									
5.2 North Point Reclamtion Stage 2																																												
5.2.1 Dredging, Seawalls & Filling																																												
5.2.1A Dredging	E	116	75																																									
5.2.1B Seawall Construction	E	115	75																																									
5.2.1C Filling behind Seawall	E	119	75																																									
6.0 Construction of IECL																																												
6.2 IEC Connection Work																																												
6.2A Substructures	NPR1	121	255																																									
6.2B Superstructures	NPR1	112	255																																									
6.2A Substructures	NPR2E(EB)	121	68																																									
6.2B Superstructures	NPR2E(EB)	112	68																																									
Reconstruction IEC West Bound																																												
6.2C Demolition of Structure	WB	127	16		98	98	98																																					
6.2A Substructures	WB	121	34					86	86	86																																		
6.2B Superstructures	WB	112	20								81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81																
6.2C Demolition of Structure		127	30																										92	92	92													
6.2A Substructures		121	50																													82	82											
6.2B Superstructures		112	50																															73	73	73	73	73	73	73	73	73	73	73
6.3 East Portal and IEC Connection Work																																												
6.3.1 Substructures		121	34																													86	86											
6.3.2 Retaining Structures		121	34																															86	86	86	86	86						
9.0 Tunnel Building and Installation																																												
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																												
9.0A Substructures	Admin B.	121	40																										84															
9.0B Superstructures	Admin B.	121	40																											84	84													
Predicted Construction Noise Levels, dB(A)(with Façade Effect)					98	98	98	86	86	86	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	93	93	93	87	87	86	86	86	86	86	73	73	73	73	73	73

Predicted Construction Noise Levels, dB(A)

N20 Hong Kong Baptist Church Henrietta Secondary School

		SWL	Distance (m)	2009 1	2	3	4	5	6	7	8	9	10	11	12	2010 1	2	3	4	5	6	7	8	9	10	11	12	2011 1	2	3	4	5	6	7	8	9	10	11	12	2012 1	2	3	4	5	6	7	8	9	10	11	12
5 North Point Reclamtion																																																			
5.2 North Point Reclamtion Stage 2																																																			
5.2.1 Dredging, Seawalls & Filling																																																			
5.2.1A Dredging																																																			
5.2.1B Seawall Construction	E	116	150					68	68	68	68																																								
5.2.1C Filling behind Seawall	E	115	150									67	67	67	67	67	67																																	
6.0 Construction of IECL	E	119	150															71	71	71	71	71																												
6.2 IEC Connection Work																																																			
6.2A Substructures																																																			
6.2B Superstructures	NPR2E	121	130																								74	74	74	74	74																				
6.2C Demolition of Structure	NPR2E	112	130																													65	65	65	65	65	65	65	65	65	65	65									
6.2A Substructures	WB	127	40																																																
6.2B Superstructures	WB	121	50																																																
6.2C Demolition of Structure	WB	112	40																																																
6.2A Substructures	EB	127	57																																																
6.2B Superstructures		121	75																																																
6.3 East Portal and IEC Connection Work		112	60																																																
6.3.1 Substructures																																																			
6.3.2 Retaining Structures		121	180																																																
9.0 Tunnel Building and Installation		121	180																																																
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																																			
9.0A Substructures	Admin B.	121	200																																																
9.0B Superstructures	Admin B.	121	200																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)								68	68	68	68	67	67	67	67	67	67	71	71	71	71	71					74	74	74	74	74	65	65	65	65	65	65	65	65	65	65	65								

Predicted Construction Noise Levels, dB(A)

N20 Hong Kong Baptist Church Henrietta Secondary School

		SWL	Distance (m)	2013 1	2	3	4	5	6	7	8	9	10	11	12	2014 1	2	3	4	5	6	7	8	9	10	11	12	2015 1	2	3	4	5	6	7	8	9	10	11	12	2016 1	2	3	4	5
5 North Point Reclamtion																																												
5.2 North Point Reclamtion Stage 2																																												
5.2.1 Dredging, Seawalls & Filling																																												
5.2.1A Dredging																																												
5.2.1B Seawall Construction	E	116	150																																									
5.2.1C Filling behind Seawall	E	115	150																																									
6.0 Construction of IECL	E	119	150																																									
6.2 IEC Connection Work																																												
6.2A Substructures																																												
6.2B Superstructures	NPR2E	121	130																																									
6.2C Demolition of Structure	NPR2E	112	130																																									
6.2A Substructures	WB	127	40		90	90	90																																					
6.2B Superstructures	WB	121	50					82	82	82																																		
6.2C Demolition of Structure	WB	112	40								75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75																	
6.2A Substructures	EB	127	57																									87	87	87														
6.2B Superstructures		121	75																													79	79											
6.3 East Portal and IEC Connection Work		112	60																															71	71	71	71	71	71	71	71	71	71	71
6.3.1 Substructures																																71	71	71										
6.3.2 Retaining Structures		121	180																															71	71	71								
9.0 Tunnel Building and Installation		121	180																															71	71	71	71							
9.0 Tunnel Building and Installation at East Ventilation Building, Adminisatrtion Building, & Central Ventilation Building, West Ventilation Building																																												
9.0A Substructures	Admin B.	121	200																									70																
9.0B Superstructures	Admin B.	121	200																										70	70														
Predicted Construction Noise Levels, dB(A)(with Façade Effect)				90	90	90	82	82	82	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	87	87	87	79	79	74	74	74	74	74	71	71	71	71	71	71

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																														
N22 Provident Centre, Block 6			(m)	2009												2010												2011												2012											
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12
6.0 Construction of IECL																																																			
6.2 IEC Connection Work																																																			
Reconstruction IEC																																																			
6.2C Demolition of Structure^	WB	127	141																																																
6.2A Substructures^	WB	121	145																																																
6.2B Superstructures^	WB	112	141																																																
6.2C Demolition of Structure^	EB	127	150																																																
6.2A Substructures^	EB	121	70																																																
6.2B Superstructures^	EB	112	70																																																
Predicted Construction Noise Levels, dB(A)(with Façade Effect)																																																			
^ Marine Works																																																			

Predicted Construction Noise Levels, dB(A)		SWL	Distance																																								
N22 Provident Centre, Block 6			(m)	2013												2014												2015												2016				
				1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
6.0 Construction of IECL																																												
6.2 IEC Connection Work																																												
Reconstruction IEC																																												
6.2C Demolition of Structure^	WB	127	141		79	79	79																																					
6.2A Substructures^	WB	121	145					73	73	73																																		
6.2B Superstructures^	WB	112	141								64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64																	
6.2C Demolition of Structure^	EB	127	150																										78	78	78													
6.2A Substructures^	EB	121	70																													79												
6.2B Superstructures^	EB	112	70																														70	70	70	70	70	70	70	70	70	70	70	70
Predicted Construction Noise Levels, dB(A)(with Façade Effect)					79	79	79	73	73	73	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	78	78	78	79	70	70	70	70	70	70	70	70	70	70	70

^ Marine Works