

Appendix 4.1 Unmitigated Construction Plant Inventory

PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
Kennedy Town CDA Decontamination Works					
Activity 1 - Preliminaries					
Air compressor, air flow > 10m ³ /min and ≤ 30m ³ /min	CNP 002	102	1	50%	99
Breaker, mini-robot mounted	[1]	115	1	50%	112
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	30%	100
Welding plant	[2]	78	1	50%	75
Cutter, circular, steel (electric)	[1]	112	2	70%	113
Saw, circular, wood	CNP 201	108	1	50%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Total SWL, dB (A)					117
Activity 2 - Excavation & Cement Solidification					
Group 1					
Piling, vibrating hammer	[1]	115	1	50%	112
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	30%	103
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	50%	117
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Water pump (electric)	CNP 281	88	6	100%	96
Saw, circular, wood	CNP 201	108	4	50%	111
Welding plant	[2]	78	4	50%	81
Total SWL, dB (A)					119
Group 2					
Piling, large diameter bored, grab and chisel	CNP 164	115	1	40%	111
Piling, large diameter bored, oscillator	CNP 165	115	1	40%	111
Piling, large diameter bored, reverse circulation drill	CNP 166	100	1	40%	96
Piling, earth auger, auger	CNP 167	114	1	40%	110
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	30%	100
Excavator/ loader, wheeled/ tracked	CNP 081	112	5	50%	116
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Water pump (electric)	CNP 281	88	6	100%	96
Saw, circular, wood	CNP 201	108	2	50%	108
Welding plant	[2]	78	4	50%	81
Total SWL, dB (A)					119
Maximum SWL, dB (A)					119
Activity 3 - Foundation					
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	4	30%	106
Excavator/ loader, wheeled/ tracked	CNP 081	112	8	50%	118
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Water pump (electric)	CNP 281	88	6	100%	96
Saw, circular, wood	CNP 201	108	4	50%	111
Welding plant	[2]	78	4	50%	81
Total SWL, dB (A)					119
Activity 4 - Form Biopile					
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	30%	103
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	50%	117
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Water pump (electric)	CNP 281	88	6	100%	96
Saw, circular, wood	CNP 201	108	4	50%	111
Welding plant	[2]	78	4	50%	81
Total SWL, dB (A)					118
Activity 5 - Operate Biopile					
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
Ventilation fan	CNP 241	108	2	100%	111
Total SWL, dB (A)					111
Activity 6 - Decommission Biopile					
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	30%	103
Excavator/ loader, wheeled/ tracked	CNP 081	112	6	50%	117
Total SWL, dB (A)					117
Activity 7 - Reinststate					
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	4	30%	106
Excavator/ loader, wheeled/ tracked	CNP 081	112	8	50%	118
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Water pump (electric)	CNP 281	88	6	100%	96
Saw, circular, wood	CNP 201	108	4	50%	111
Welding plant	[2]	78	4	50%	81
Total SWL, dB (A)					119

PME	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
Kennedy Town CDA Decontamination Works					
Activity 8 - Re-provision of RCP (by others)					
Excavator/ loader, wheeled/ tracked	CNP 081	112	4	50%	115
Roller, vibratory	CNP 186	108	2	50%	108
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Bar bender and cutter (electric)	CNP 021	90	2	50%	90
Saw, circular, wood	CNP 201	108	2	50%	108
Total SWL, dB (A)					118
Activity 9 - Re-provision of Car Park (by others)					
Excavator/ loader, wheeled/ tracked	CNP 081	112	4	50%	115
Roller, vibratory	CNP 186	108	2	50%	108
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Bar bender and cutter (electric)	CNP 021	90	2	50%	90
Saw, circular, wood	CNP 201	108	2	50%	108
Total SWL, dB (A)					118
Activity 10 - Re-provision of Temporary Garden (by others)					
Excavator/ loader, wheeled/ tracked	CNP 081	112	4	50%	115
Roller, vibratory	CNP 186	108	2	50%	108
Poker, vibratory, hand-held	CNP 170	113	2	50%	113
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Bar bender and cutter (electric)	CNP 021	90	2	50%	90
Saw, circular, wood	CNP 201	108	2	50%	108
Total SWL, dB (A)					118
Planned Residential Development / Planned Development					
Activity 1 - Demolition					
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	1	50%	99
Breaker, mini-robot mounted	[1]	115	1	50%	107
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	1	30%	100
Welding plant	[2]	78	1	50%	75
Cutter, circular, steel (electric)	[1]	112	2	70%	113
Saw, circular, wood	CNP 201	108	1	50%	105
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	1	100%	95
Total SWL, dB (A)					116
Activity 2 - Foundation					
Excavator/ loader, wheeled/ tracked	CNP 081	112	8	50%	118
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	3	100%	100
Breaker, mini-robot mounted	[1]	115	1	50%	107
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	4	30%	106
Water pump (electric)	CNP 281	88	4	100%	94
Total SWL, dB (A)					119
Activity 3 - Sub-structure					
Generator, standard	CNP 101	108	2	100%	111
Air compressor, air flow > 10m ³ /min and <= 30m ³ /min	CNP 002	102	2	50%	102
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	100%	103
Excavator/ loader, wheeled/ tracked	CNP 081	112	2	50%	112
Bar bender and cutter (electric)	CNP 021	90	2	50%	90
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Lorry, 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	50%	105
Dump truck , 5.5 tonne < gross vehicle weight ≤ 38 tonne	[1]	105	2	30%	103
Concrete lorry mixer	CNP 044	109	1	50%	106
Poker, vibratory, hand-held	CNP 170	113	4	50%	116
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Water pump (electric)	CNP 281	88	2	100%	91
Total SWL, dB (A)					120
Activity 4 - Superstructure					
Generator, standard	CNP 101	108	2	100%	111
Piling, large diameter bored, reverse circulation drill	CNP 166	100	2	100%	103
Crane, mobile/ barge mounted (diesel)	CNP 048	112	1	50%	109
Concrete lorry mixer	CNP 044	109	1	50%	106
Poker, vibratory, hand-held	CNP 170	113	4	50%	116
Concrete pump, stationary/ lorry mounted	CNP 047	109	1	50%	106
Total SWL, dB (A)					118

Note: [1] Extracted from EPD document namely, "Sound Power Levels of Other Commonly Used PME"

http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

[2] SWL of Welding set is referred to the Appendix 5.1 of approved EIA Report of Hong Kong Section of Guangzhou - Shenzhen - Hong Kong Express Rail Link