Alternative Ground Decontamination Works at the Proposed Kennedy Town Comprehensive Development Area Site Environmental Impact Assessment Report



Appendix 4.1 Unmitigated Construction Plant Inventory

РМЕ	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)
Kennedy Town CDA Decontamination Works					
Activity 1 - Preliminaries		1			
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102	1	50%	99
Breaker, mini-robot mounted Dump truck , 5.5 tonne < gross vehicle weight ≦ 38 tonne	[1]	115 105	1	50% 30%	112 100
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 SW		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 Total SW	50% /L, dB (A)	81 119
			ı olai SVV	_, ub (A)	113
Group 2	OND 404	445		4007	444
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 CNP 281	95 88	6	100%	95 06
Water pump (electric)	CNP 201	108	2	100% 50%	96 108
Saw, circular, wood		78	4	50%	81
Welding plant	[2]	70	-	/L, dB (A)	119
		Max	dimum SW	, , ,	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 SW	L, 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	Total CV	50%	81
			rotai SW	L, dB (A)	118
Activity 5 - Operate Biopile	1 0000				
Generator, super silenced, 70 dB(A) at 7 m	CNP 103	95	2	100%	98
Ventilation fan	CNP 241	108	2 Total SM	100%	111
			Total SW	L, UB (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 SW	/L, dB (A)	117
Activity 7 - Reinstate					
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 SW	L, dB (A)	119

Environmental Impact Assessment Report

РМЕ	TM or other reference	SWL, dB(A)	No. of PME	% on time	Total SWL, dB(A)					
Kennedy Town CDA Decontamination Works										
Activity 8 - Reprovision 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 SW	/L, dB (A)	118					
Activity 9 - Reprovision 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 SW	L, dB (A)	118					
Activity 40 Demonician of Towns 2 1 (1 11)										
Activity 10 - Reprovision of Temporary Garden (by others) Excavator/ loader, wheeled/ tracked	CND 004	112	1	E00/	115					
Roller, vibratory	CNP 081 CNP 186	108	2	50% 50%	115 108					
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 SW	/L, dB (A)	118					
Planned Residential Development / Planned Development										
Activity 1 - Demolition	CND 000	1 400	1 4	F00/	00					
Air compressor, air flow > 10m3/min and <= 30m3/min	CNP 002	102 115	1	50%	99 107					
Breaker, mini-robot mounted Dump truck , 5.5 tonne < gross vehicle weight ≦ 38 tonne	[1] [1]	105	1	50% 30%	107					
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 SW	/L, 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 SW	L, dB (A)	119					
Antibility O. Outh advantages										
Activity 3 - Sub-structure Generator, standard	CNP 101	108	2	100%	111					
Air compressor, air flow > 10m3/min and <= 30m3/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 Water pump (electric)	CNP 047 CNP 281	109 88	2	50% 100%	106 91					
water purify (electric)	ONF ZOI	00	∠ Total SW		120					
				_, ab (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	CND 044	109	1 1	50%	106					
	CNP 044	1								
Poker, vibratory, hand-held	CNP 170	113	4	50%	116					
		1		50% 50%	116 106 118					

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