

Appendix 4.4 Construction Plant Inventory (Unmitigated)

PME Group	Sub-Group ^[1]	Powered Mechanical Equipment (PME)	Reference	SWL, dB(A)	Number of Units	% of Utilization	SWL, dB(A) (PME Group)	SWL, dB(A) (Activity) ^[1]	
Site Clearance / Formation (A)	A-1	Excavator/loader, wheeled/tracked	CNP 081 ^[2]	112	2	50	112	116	
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	2	50	112		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	A-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	118	
		Dump truck, gross vehicle weight > 38 tonne	CNP 067 ^[2]	117	2	50	117		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Site Clearance / Formation (A1)	A1-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	112	
		Excavator/loader, wheeled/tracked	CNP 081 ^[2]	112	1	50	109		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	A1-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	115	
		Dump truck, gross vehicle weight > 38 tonne	CNP 067 ^[2]	117	1	50	114		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Demolition (Crushers) (B)	B-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	113	
		Concrete crusher, hand-held	CNP 053 ^[2]	97	8	80	105		
		Excavator/loader, wheeled/tracked	CNP 081 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	B-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	112	
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	B-3	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	113	
		Dump truck, gross vehicle weight > 38 tonne	CNP 067 ^[2]	117	1	30	112		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	Demolition (Breakers) (C)	C-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	130
			Breaker, excavator mounted (hydraulic)	CNP 028 ^[2]	122	8	80	130	
Excavator/loader, wheeled/tracked			CNP 081 ^[2]	112	2	70	113		
Generator, standard			CNP 101 ^[2]	108	1	100	108		
C-2		Water pump (electric)	CNP 281 ^[2]	88	1	100	88	115	
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	2	70	113		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
C-3		Water pump (electric)	CNP 281 ^[2]	88	1	100	88	118	
		Dump truck, gross vehicle weight > 38 tonne	CNP 067 ^[2]	117	2	50	117		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Demolition (Breakers) (C1)		C1-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	122
			Breaker, excavator mounted (hydraulic)	CNP 028 ^[2]	122	1	80	121	
	Excavator/loader, wheeled/tracked		CNP 081 ^[2]	112	1	70	110		
	Generator, standard		CNP 101 ^[2]	108	1	100	108		
	C1-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	112	
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	C1-3	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	115	
		Dump truck, gross vehicle weight > 38 tonne	CNP 067 ^[2]	117	1	50	114		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	Piling (D)	D-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	122
			Drill rig, rotary type (diesel)	CNP 072 ^[2]	110	8	90	119	
Crane, mobile/barge mounted (diesel)			CNP 048 ^[2]	112	8	70	119		
Generator, standard			CNP 101 ^[2]	108	1	100	108		
D-2		Water pump (electric)	CNP 281 ^[2]	88	1	100	88	120	
		Piling, large diameter bored, reverse circulation drill	CNP 166 ^[2]	100	8	90	109		
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	8	70	119		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
D-3		Water pump (electric)	CNP 281 ^[2]	88	1	100	88	109	
		Grout mixer	CNP 105 ^[2]	90	1	50	87		
		Grout pump	CNP 106 ^[2]	105	1	50	102		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Piling (D1)	D1-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	114	
		Drill rig, rotary type (diesel)	CNP 072 ^[2]	110	1	90	110		
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	D1-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	113	
		Piling, large diameter bored, reverse circulation drill	CNP 166 ^[2]	100	1	90	100		
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	D1-3	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	109	
		Grout mixer	CNP 105 ^[2]	90	1	50	87		
		Grout pump	CNP 106 ^[2]	105	1	50	102		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Superstructure (E)	E-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	114	
		Concrete lorry mixer	CNP 044 ^[2]	109	3	50	111		
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	50	109		
	E-2	Generator, standard	CNP 101 ^[2]	108	1	100	108	114	
		Bar bender and cutter (electric)	CNP 021 ^[2]	90	1	50	87		
		Poker, vibratory, hand-held	CNP 170 ^[2]	113	2	50	113		
	E-3	Generator, standard	CNP 101 ^[2]	108	1	100	108	112	
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	50	109		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
Roadworks (F)	F-1	Generator, standard	CNP 101 ^[2]	108	1	100	108	115	
		Chipper, hand-held (pneumatic)	CNP 043 ^[2]	112	1	60	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
		Poker, vibratory, hand-held	CNP 170 ^[2]	113	1	70	111		
	F-2	Generator, standard	CNP 101 ^[2]	108	1	100	108	110	
		Roller, vibratory	CNP 186 ^[2]	108	1	60	106		
	F-3	Generator, standard	CNP 101 ^[2]	108	1	100	108	113	
		Excavator/loader, wheeled/tracked	CNP 081 ^[2]	112	1	70	110		
		Crane, mobile/barge mounted (diesel)	CNP 048 ^[2]	112	1	70	110		
Pipe works (G)	G-1	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	115	
		Breaker, mini-robot mounted (electric)	CNP 031 ^[2]	115	1	70	113		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		
	G-2	Water pump (electric)	CNP 281 ^[2]	88	1	100	88	112	
		Excavator/loader, wheeled/tracked	CNP 081 ^[2]	112	1	70	110		
		Generator, standard	CNP 101 ^[2]	108	1	100	108		

Remarks:
 [1] Only one Sub-Group in a PME Group will be operating at the same time.
 [2] Reference of CNP refers to Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.