

Appendix 4.3 Construction Plant Inventory (Unmitigated Scenario)

ID	Main Construction Tasks	Work Section (see Appendix 4.2)	Group ID	Construction Works	Sub-Group ^[1]	Sub-Plant ID ^[2]	Plant / Equipment	Ref Code	SWL, dB(A) (PME)	No. of Units	Utilization Rate (%)	Adjusted SWL, dB(A) (PME)	SWL, dB(A) (Sub-Plant) ^[2]	SWL, dB(A) (Sub-Group) ^[1]	SWL, dB(A) (PME Group)
A	Channel Bed Modification	1 to 6	A-1	Excavation, Re-surfacing and Greening along the Nullah	a	Excavation	Air Compressor, air flow < 10m3/min	CNP 001	^[3] 100	1	50	97	112	112	112
							Breaker, hand-held, mass < 10kg	CNP 023	^[3] 108	1	50	105			
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
							Roller, vibratory	CNP 186	^[3] 108	1	100	108			
B	Improvement of Existing Walkways	1 to 6	B-1	Construction of Viewing Deck / Pavillion, Renovation of Existing Footbridges	a	Construction of Viewing Deck / Pavillion, Renovation of Existing Footbridges	Air Compressor, air flow < 10m3/min	CNP 001	^[3] 100	1	50	97	111	111	111
							Breaker, hand-held, mass < 10kg	CNP 023	^[3] 108	1	50	105			
							Poker vibratory, hand-held (electric)	OCUPME-019	^[4] 102	1	70	100			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
C	Construction of Dry Weather Flow Interceptor (DWFI) System / Water pumps and Pipes for Ecological Enhancement Associated Water Retention and Supplement	2	C-1	Connection Work of DWFI System to Existing Sewerage System	a	Excavation and Lateral Support	Power rammer (petrol)	CNP 169	^[3] 108	1	70	106	112	112	112
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
							Ventilation fan	CNP 241	^[3] 108	1	100	108			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
	C	2 to 6 <i>*Midstream water pumps in Section 3 and Pipes from Section 3 to Section 6 for Ecological Enhancement Associated Water Retention and Supplement will be constructed along the DWFI channel</i>	C-2	Construction of DWFI Channel along Nullah, and Mid-stream water pumps and Pipes along Nullah for Ecological Enhancement Associated Water Supplement	c	Concreting	Concrete lorry mixer	CNP 044	^[3] 109	1	50	106	107	107	107
							Poker vibratory, hand-held (electric)	OCUPME-019	^[4] 102	1	70	100			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
							Saw, circular, wood	CNP 201	^[3] 108	1	70	106			
D	Landscaping and Miscellaneous	1 to 6	D-1	Landscaping / Greening along Nullah Bank	a	Planter Construction / Modification	Concrete mixer (petrol)	CNP 046	^[3] 96	1	50	93	102	108	108
							Poker vibratory, hand-held (electric)	OCUPME-019	^[4] 102	1	70	100			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
							Roller, vibratory	CNP 186	^[3] 108	1	100	108			
			D-2	Utility Works	c	Utility Laying/Connection	Crane, mobile/barge mounted (diesel)	CNP 048	^[3] 112	1	100	112	114	114	114
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
							Crane, mobile/barge mounted (diesel)	CNP 048	^[3] 112	1	100	112			
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
E	Underground Water Storage Tank	6	E-1	Excavation and Lateral Support	a	Excavation and Lateral Support	Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110	112	112	112
							Power rammer (petrol)	CNP 169	^[3] 108	1	70	106			
							Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110			
							Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95			
							Ventilation fan	CNP 241	^[3] 108	1	100	108			
			E-2	Foundation Works	a	Foundation Works by Mini-pile	Generator, super silenced, 70dB(A) at 7m	CNP 103	^[3] 95	1	100	95	109	109	109
							Piling, large diameter bored, reverse circulation drill	CNP 166	^[3] 100	1	70	98			
							Concrete lorry mixer	CNP 044	^[3] 109	1	50	106			
			E-3	Structural and E&M Installation Works for Storage Tank	a	Construction of Storage Tank	Poker vibratory, hand-held (electric)	OCUPME-019	^[4] 102	1	70	100	113	113	113
							Water pump (petrol)	CNP 282	^[3] 103	1	100	103			
							Bar bender and cutter (electric)	CNP 021	^[3] 90	1	70	88			
							Crane, mobile/barge mounted (diesel)	CNP 048	^[3] 112	1	70	110			
			E-4	Pipeworks at Kwei Tei Garden Connecting Nullah to Tank	a	Excavation, Utility Laying/Connection & Backfill	Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110	115	115	115
							Crane, mobile/barge mounted (diesel)	CNP 048	^[3] 112	1	100	112			
							Compactor, vibratory	CNP 050	^[3] 105	1	100	105			
E-5	Pipeworks under Kwei Tei Street Connecting Tank to Box Culvert	a	Excavation, Utility Laying/Connection & Backfill	Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110	115	115	115			
				Crane, mobile/barge mounted (diesel)	CNP 048	^[3] 112	1	100	112						
				Compactor, vibratory	CNP 050	^[3] 105	1	100	105						
F	Desilting Works	1	F-1	Desilting at Downstream Tidal Zone	a	Desilting	Excavator/loader, wheeled/tracked	CNP 081	^[3] 112	1	70	110	111	111	111
							Dump truck, 5.5 tonne< gross vehicle weight =< 38	OCUPME-038	^[4] 105	1	30	100			

Remarks:

[1] Only one Sub-Group in a PME Group will be operating at the same time.

[2] Only one Sub-Plant in a Sub-Group will be operating at the same time.

[3] The SWL is referenced with Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.

[4] The SWL is referenced to "Sound power levels of other commonly used PME" at EPD website, https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf