

SWLs of PMEs for TCE

Project: Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension
Title : SWLs of PMEs for TCE

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario		
	ID	Description	PME SWL, dB(A)	ID ^{[1][2]}	Power rating Size, wieght	PME SWL, dB(A)	Silencer, dB(A)	Enclosure, dB(A)	Barrier, dB(A)
Air Compressor	CNP003	Air compressor, air flow > 30m³/min	104	EPD-09607	AIRMAN, PDS100S-5C5	93			-10
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90						-10
Hand Held Breaker	CNP026	Breaker, hand held, mass > 35kg	114	EPD-03948	HILTI, TE800-AVR	101			-5
Breaker, excavator mounted/ Hydraulic breaker	CNP028	Breaker, excavator mounted (hydraulic)	122						-5
Concrete Lorry Mixer/ Concrete Truck	CNP044	Concrete lorry mixer	109						-5
Concrete Mixer/ Bentonite Mixer/ Grout Mixer	CNP045	Concrete mixer (electric)	96						-10
Concrete Pump/ Electric Bentonite Circulation Pump	CNP047	Concrete pump, stationary / lorry mounted	109						-10
Mobile Crane/ Service Crane/ Crawler Crane/ Lifting crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-09130	KOBELCO, Model:CKS900	101			-5
Electric drill/ Rock driller	CNP064	Drill, percussive, hand-held (electric)	103	EPD-08781	HILTI, TE1000-AVR	99			-5
Grinder	CNP065	Drill / grinder, hand-held (electric)	98						-5
Dump Truck	CPME#	Dump truck, 5.5 tonne < gross vehicle weight ≤38 tonne	105						-5
Drill Rig, DTH Drilling Machine	CPME#	Drill Rig, rotary type (Diesel)	110						-10
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90			-5
Generator	CNP103	Generator, super silenced, 70 db(A) at 7 m	95	EPD-03845	DENYO, Model: DCA-45LSK	87			-5
Grout Mixer	CNP105	Grout Mixer	90						-10
Grout Pump	CNP106	Grout Pump	105						-10
Lorry	CNP141	Lorry	112	CPME#	5.5 tonnes <gross vehicle weight ≤38 tonne	105			-5
Lorry, with crane/grab	CPME#	Lorry, 5.5 tonnes < gross vehicle weight ≤38 tonnes	105						-5
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME#	Poker, vibratory, hand-held (electric)	102			-10
Roller, Vibratory	CNP186	Roller, vibratory	108	EPD-06997	SAKAI, Model: SW502S-1	94			-5
Saw, Circular, Wood	CNP201	Saw, circular, wood	108						-10

Note:
[1] PME with code "EPD-XXXXX" are quiet equipment with SWLs extracted from EPD's QPME inventory.
[2] The plant with code "CPME#" are referenced from EPD's guidance "Sound Power Level of Other Commonly Used PME" from https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

SWLs of PME's for TCW

Project: Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : SWLs of PME's for TCW

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario		
	ID	Description	PME SWL, dB(A)	ID ^{[1][2]}	Power rating Size, weight	PME SWL, dB(A)	Silencer, dB(A)	Enclosure, dB(A)	Barrier, dB(A)
Air Compressor	CNP003	Air compressor, air flow > 30m³/min	104	EPD-09607	AIRMAN, PDS100S-5C5	93			-5
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90						-10
Hand Held Breaker	CNP026	Breaker, hand held, mass > 35kg	114	EPD-03948	HI-TI, TE800-AVR	101			-5
Breaker, excavator mounted/ Hydraulic breaker	CNP028	Breaker, excavator mounted (hydraulic)	122						-5
Concrete Lorry Mixer/ Concrete Truck	CNP044	Concrete lorry mixer	109					-15	-5
Concrete Mixer/ Bentonite Mixer/ Grout Mixer	CNP045	Concrete mixer (electric)	96						-10
Concrete Pump/ Electric Bentonite Circulation Pump	CNP047	Concrete pump, stationary / lorry mounted	109					-15	-10
Mobile Crane/ Service Crane/ Crawler Crane/ Lifting crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-09130	KOBELCO, Model:CKS900	101			-5
Electric drill/ Rock driller	CNP064	Drill, percussive, hand-held (electric)	103	EPD-08781	HI-TI, TE1000-AVR	99			-5
Grinder	CNP065	Drill / grinder, hand-held (electric)	98						-5
Dump Truck	CPME#	Dump truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne	105						-5
Drill Rig, DTH Drilling Machine	CPME#	Drill Rig, rotary type (Diesel)	110						-10
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90			-5
Generator	CNP103	Generator, super silenced, 70 dB(A) at 7 m	95	EPD-03845	DENYO, Model: DCA-45LSK	87			-5
Lorry	CNP141	Lorry	112	CPME#	5.5 tonnes < gross vehicle weight ≤ 38 tonne	105			-5
Lorry, with crane/grab	CPME#	Lorry, 5.5 tonnes < gross vehicle weight ≤ 38 tonnes	105						-5
Piling, diaphragm wall, bentonite filtering plant/ Desander	CNP162	Piling, diaphragm wall, bentonite filtering plant	105						-10
Piling, Diaphragm Wall	CNP163	Piling, D-wall, hydraulic extractor	90						-10
Trench Cutter	CNP164	Piling, large diameter bored, grab and chisel	115					-15	-10
Piling, Large Dia Bored, Reverse Circulation Drill	CNP166	Piling, large dia bored, reverse circulation drill	100						-10
Power Rammer (Petrol)	CNP169	Power rammer (petrol)	108						-10
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME#	Poker, vibratory, hand-held (electric)	102			-10
Rock Drill	CNP182	Rock Drill, crawler mounted (hydraulic)	123						-10
Roller, Vibratory	CNP186	Roller, vibratory	108	EPD-06997	SAKAI, Model: SW502S-1	94			-5
Saw, Circular, Wood	CNP201	Saw, circular, wood	108						-10
Ventilation Fan	CNP241	Ventilation fan	108				-15		-10
Water pump	CNP281	Water pump (electric)	88						-10
Water Pump (petrol)	CNP282	Water pump (petrol)	103					-15	-10
Water Pump, Submersible	CNP283	Water pump, submersible (electric)	85						-10

Note:

[1] PME with code "EPD-XXXXX" are quiet equipment with SWLs extracted from EPD's QPME inventory.

[2] The plant with code "CPME#" are referenced from EPD's guidance "Sound Power Level of Other Commonly Used PME" from https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

SWLs of PMEs for EAP /EEP and Launching Shaft

Project: Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension
Title : SWLs of PME for EAP/EEP and Launching Shaft near Shun Tung Road

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario	
	ID	Description	PME SWL, dB(A)	ID ^{[1][2]}	Power rating Size, wieght	PME SWL, dB(A)	Enclosure, dB(A)	Barrier, dB(A)
Air Compressor	CNP002	Air compressor, air flow > 10m³/min and <= 30m³/min	102					-5
Air Compressor	CNP003	Air compressor, air flow > 30m³/min	104	EPD-09607	AIRMAN, PDS100S-5C5	93		-5
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90					-10
Breaker, excavator mounted	CNP028	Breaker, excavator mounted (hydraulic)	122				-15	-5
Concrete Lorry Mixer/ Concrete Truck	CNP044	Concrete lorry mixer	109					-5
Concrete Mixer/ Bentonite Mixer/ Grout Mixer	CNP045	Concrete mixer (electric)	96					-5
Concrete Pump/ Electric Bentonite Circulation Pump	CNP047	Concrete pump, stationary / lorry mounted	109					-10
Mobile Crane/ Service Crane/ Crawler Crane/ Lifting crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-09130	KOBELCO, Model:CKS900	101		-5
Crawler Crane/ Gantry Crane	CNP049	Crawler Crane/ Gantry Crane	95					-5
Electric drill/ Rock driller	CNP064	Drill, percussive, hand-held (electric)	103	EPD-08781	HILTI, TE1000-AVR	99		-5
Dump Truck	CPME#	Dump Truck, gross vehicle weight > 38 tonne	117					-5
Drill Rig/ DTH Drilling Machine	CPME#	Drill Rig, rotary type (Diesel)	110					-10
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90		-5
Generator	CNP101	Generator, standard	108	EPD-03845	DENYO, Model:DCA-45LSK	87		-5
Generator	CNP103	Generator, super silenced, 70 db(A) at 7 m	95	EPD-03845	DENYO, Model: DCA-45LSK	87		-5
Lorry	CNP141	Lorry	112	CPME#	5.5 tonnes <gross vehicle weight ≤38 tonne	105		-5
Piling, diaphragm wall, bentonite filtering plant/ STP- Slurry Treatment Plant/ Filter Press Machine	CNP162	Piling, diaphragm wall, bentonite filtering plant	105					-10
Trench Cutter	CNP164	Piling, large diameter bored, grab and chisel	115					-10
Power Rammer (Petrol)	CNP169	Power rammer (petrol)	108					-10
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME#	Poker, vibratory, hand-held (electric)	102		-10
Rock Drill	CNP182	Rock Drill, crawler mounted (hydraulic)	123					-10
Roller, Vibratory	CNP186	Roller, vibratory	108	EPD-06997	SAKAI, Model: SW502S-1	94		-5
Saw, Circular, Wood	CNP201	Saw, circular, wood	108					-10
Ventilation Fan	CNP241	Ventilation fan	108					-10
Water pump	CNP281	Water pump (electric)	88					-10
Water Pump (petrol)	CNP282	Water pump (petrol)	103					-10
Water Pump, Submersible	CNP283	Water pump, submersible (electric)	85					-10

Note:

[1] PME with code "EPD-XXXXX" are quiet equipment with SWLs extracted from EPD's QPME inventory.

[2] The plant with code "CPME#" are referenced from EPD's guidance "Sound Power Level of Other Commonly Used PME" from https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf

SWLs of PMEs for Barging Point

Project: Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : SWLs of PME for Barging Point

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario	
	ID	Description	PME SWL, dB(A)	ID ^{[1][2]}	Power rating Size, wieght	PME SWL, dB(A)	Enclosure, dB(A)	Barrier, dB(A)
Mobile Crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-09130	KOBELCO, Model:CKS900	101		-5
Flat-top Barge	CNP061		104					
Electric drill	CNP064	Drill, percussive, hand-held (electric)	103	EPD-08781	HILTI, TE1000-AVR	99		-5
Dump Truck	CPME#	Dump truck, 5.5 tonne < gross vehicle weight <=38 tonne	105					-5
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90		-5
Generator	CNP103	Generator, super silenced, 70 db(A) at 7 m	95	EPD-03845	DENYO, Model: DCA-45LSK	87		-5
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME#	Poker, vibratory, hand-held (electric)	102		-10
Tug Boat	CNP221		110					

Note:

[1] PME with code "EPD-XXXXX" are quiet equipment with SWLs extracted from EPD's QPME inventory.

[2] The plant with code "CPME#" are referenced from EPD's guidance "Sound Power Level of Other Commonly Used PME" from https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf