

## Appendix 4.4.1

### SWL of PME

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario					
	ID	Description	PME SWL, dB(A)	ID <sup>[1][2][3]</sup>	Power rating Size, weight	PME SWL, dB(A)	Silencer, dB(A)	Acoustic Mat, dB(A)	Enclosure, dB(A)	Barrier, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A)
Air Compressor	CNP002	Air compressor, air flow > 10m <sup>3</sup> /min and <= 30m <sup>3</sup> /min	102							-5	-5	97
Air Compressor	CNP003	Air compressor, air flow > 30m <sup>3</sup> /min	104							-5	-5	99
Asphalt Paver	CNP004	Asphalt paver	109	EPD-01226R	VOLVO, Model: ABG5770	104				-5	-5	99
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90							-5	-5	85
Hand Held Breaker	CNP025	Breaker, hand held, mass => 20kg and <= 35kg	111	EPD-12755	Hilti, TE 3000-AVR	108				-5	-5	103
Breaker, excavator mounted	CNP027	Breaker, excavator mounted (pneumatic)	122	QCM#	Hydraulic Crusher	94				-5	-5	89
Breaker, excavator mounted	CNP028	Breaker, excavator mounted (hydraulic)	122	QCM#	Hydraulic Crusher	94				-5	-5	89
Concrete Corer	CNP042	Concrete corer	117							-5	-5	112
Concrete Lorry Mixer	CNP044	Concrete lorry mixer	109							-5	-5	104
Concrete Pump	CNP047	Concrete pump, stationary / lorry mounted	109					-15		-15	-15	94
Mobile Crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-13684	KOBELCO, Model:CKS900	101				-5	-5	96
Compactor, vibratory	CNP050	Compactor, vibratory	105							-5	-5	100
Drill, percussive, hand-held (electric)	CNP064	Drill, percussive, hand-held (electric)	103							-5	-5	98
Grinder	CNP065	Drill / grinder, hand-held (electric)	98							-5	-5	93
Dump Truck	CNP067	Dump truck, gross vehicle weight > 38 tonne	117							-5	-5	112
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90				-5	-5	85
Generator	CNP101	Generator, standard	108	EPD-13064	DENYO, Model:DCA-45LSK	87						87
Generator	CNP102	Generator, silenced, 75 db(A) at 7 m	100	EPD-13064	DENYO, Model: DCA-45LSK	87						87
Generator	CNP103	Generator, super silenced, 70 db(A) at 7 m	95	EPD-13064	DENYO, Model: DCA-45LSK	87						87
Hoist	CNP122	Hoist, passenger / material (electric)	95							-5	-5	90
Hoist	CNP123	Hoist, passenger/material (Petrol)	104							-5	-5	99
Lorry	CNP141	Lorry	112	CPME-042	Lorry, 5.5 tonnes <gross vehicle weight <=38 tonne	105				-5	-5	100
Piling, Large Dia Bored, Reverse Circulation Drill	CNP166	Piling, large dia bored, reverse circulation drill	100							-5	-5	95
Power Rammer (Petrol)	CNP169	Power rammer (petrol)	108	EPD-09746	Wacker Neuson, Model: BS60-4As	108				-10	-10	98
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME-027	Poker, vibratory, hand-held (electric)	102				-10	-10	92
Rock Drill	CNP181	Rock Drill, crawler mounted (pneumatic)	128					-10		-10	-10	118
Rock Drill	CNP183	Rock drill, hand-held (pneumatic)	116							-5	-5	111
Road Roller	CNP185	Road Roller	108	EPD-09720	SAKAI, Model: SW502S-1	94				-5	-5	89
Roller, Vibratory	CNP186	Roller, vibratory	108	EPD-09720	SAKAI, Model: SW502S-1	94				-5	-5	89
Saw, Circular, Wood	CNP201	Saw, circular, wood	108	QCM#	Quieter Type Saw	107				-10	-10	97
Saw, chain, hand-held	CNP202	Saw, chain, hand-held	114							-10	-10	104
Saw, Concrete	CNP203	Saw / groover, concrete (petrol)	115							-10	-10	105
Ventilation Fan	CNP241	Ventilation fan	108				-15			-15	-15	93
Water pump	CNP281	Water pump (electric)	88							-5	-5	83
Water Pump, Submersible	CNP283	Water pump, submersible (electric)	85							-5	-5	80
Air Blower (electric)	CPME-003	Air Blower (electric)	95							-5	-5	90
Drill Rig	CPME-015	Drill Rig, rotary type (Diesel)	110							-5	-5	105
Grout Mixer	CPME-021	Grout Mixer	90							-10	-10	80
Grout Pump	CPME-022	Grout Pump	105							-10	-10	95
Vibrating Hammer	CPME-026	Piling, vibrating hammer	115	QCM#	Silent Piling by Press-in Method	94				-10	-10	84
Poker	CPME-027	Poker, vibratory, hand-held (electric)	102							-5	-5	97
Lorry, with crane/grab	CPME-043	Lorry, with crane/grab, gross vehicle weight >38 tonne	112							-5	-5	107
Dump Truck, with grab	CPME-047	Dump truck, with grab, 5.5 tonne < gross vehicle weight <=38 tonne	105							-5	-5	100

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

[2] The SWL of quiet plant with code "CPME#" are based on SWLs of other commonly used PME from [https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWL.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWL.pdf)

[3] The SWL of quiet plant with code "QCM#" are based on SPL at 7m from equipment of quieter construction methods from [https://www.epd.gov.hk/epd/misc/construction\\_noise/contents/index.php/en/index.html](https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/index.html). Distance correction of + 20log(D) + 8 is applied to the referenced SPL.

Title : SWL of PME for Workfront FM2 (with retractable noise barrier)

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario			
	ID	Description	PME SWL, dB(A)	ID <sup>[1][2][3]</sup>	Power rating Size, wieght	PME SWL, dB(A)	Silencer, dB(A)	Barrier, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A)
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90					-10	-10	80
Breaker, excavator mounted	CNP027	Breaker, excavator mounted (pneumatic)	122	QCM#	Hydraulic Crusher	94		-10	-10	84
Breaker, excavator mounted	CNP028	Breaker, excavator mounted (hydraulic)	122	QCM#	Hydraulic Crusher	94		-10	-10	84
Concrete Lorry Mixer	CNP044	Concrete lorry mixer	109					-10	-10	99
Mobile Crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-13684	KOBELCO, Model:CKS900	101		-10	-10	91
Compactor, vibratory	CNP050	Compactor, vibrator	105					-10	-10	95
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90		-10	-10	80
Generator	CNP101	Generator, standard	108	EPD-13064	DENYO, Model:DCA-45LSK	87		-10	-10	77
Generator	CNP102	Generator, silenced, 75 db(A) at 7 m	100	EPD-13064	DENYO, Model: DCA-45LSK	87		-10	-10	77
Lorry	CNP141	Lorry	112	CPME-042	Lorry, 5.5 tonnes <gross vehicle weight ≤38 tonne	105		-10	-10	95
Power Rammer (Petrol)	CNP169	Power rammer (petrol)	108	EPD-09746	Wacker Neuson, Model: BS60-4As	108		-10	-10	98
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME-027	Poker, vibratory, hand-held (electric)	102		-10	-10	92
Road Roller	CNP185	Road Roller	108	EPD-09720	SAKAI, Model: SW502S-1	94		-10	-10	84
Saw, Circular, Wood	CNP201	Saw, circular, wood	108					-10	-10	98
Saw, chain, hand-held	CNP202	Saw, chain, hand-held	114					-10	-10	104
Ventilation Fan	CNP241	Ventilation fan	108				-15		-15	93
Water pump	CNP281	Water pump (electric)	88					-10	-10	78
Air Blower (electric)	CPME-003	Air Blower (electric)	95					-10	-10	90
Dump Truck, with grab	CPME-047	Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤38 tonne	105					-10	-10	95

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Title : SWL of PME for Workfront AF3-b (with retractable noise barrier)

PME	Unmitigated SWLs			Quiet Plant			Mitigated Scenario			
	ID	Description	PME SWL, dB(A)	ID <sup>[1][2][3]</sup>	Power rating Size, wieght	PME SWL, dB(A)	Silencer, dB(A)	Barrier, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A)
Bar Bender and Cutter	CNP021	Bar bender and cutter (electric)	90							80
Breaker, excavator mounted	CNP027	Breaker, excavator mounted (pneumatic)	122	QCM#	Hydraulic Crusher	94		-10	-10	84
Breaker, excavator mounted	CNP028	Breaker, excavator mounted (hydraulic)	122	QCM#	Hydraulic Crusher	94		-10	-10	84
Mobile Crane	CNP048	Crane, mobile / barge mounted (diesel)	112	EPD-13684	KOBELCO, Model:CKS900	101		-10	-10	91
Compactor, vibratory	CNP050	Compactor, vibrator	105					-10	-10	95
Excavator	CNP081	Excavator / loader, wheeled / tracked	112	EPD-07150	YANMAR, Model: SV08-1A	90		-10	-10	80
Generator	CNP101	Generator, standard	108	EPD-13064	DENYO, Model:DCA-45LSK	87		-10	-10	77
Generator	CNP102	Generator, silenced, 75 db(A) at 7 m	100	EPD-13064	DENYO, Model: DCA-45LSK	87		-10	-10	77
Lorry	CNP141	Lorry	112	CPME-042	Lorry, 5.5 tonnes <gross vehicle weight ≤38 tonne	105		-10	-10	95
Power Rammer (Petrol)	CNP169	Power rammer (petrol)	108	EPD-09746	Wacker Neuson, Model: BS60-4As	108		-10	-10	98
Vibratory Poker	CNP170	Poker, vibratory, hand held	113	CPME-027	Poker, vibratory, hand-held (electric)	102		-10	-10	92
Road Roller	CNP185	Road Roller	108	EPD-09720	SAKAI, Model: SW502S-1	94		-10	-10	84
Saw, Circular, Wood	CNP201	Saw, circular, wood	108					-10	-10	98
Ventilation Fan	CNP241	Ventilation fan	108				-15		-15	93
Water pump	CNP281	Water pump (electric)	88					-10	-10	78
Air Blower (electric)	CPME-003	Air Blower (electric)	95					-10	-10	90
Dump Truck, with grab	CPME-047	Dump truck, with grab, 5.5 tonne < gross vehicle weight ≤38 tonne	105					-10	-10	95

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