

PME	% Operation	Corr. dB(A)	Unmitigated SWLs					Quiet Plant				Mitigated Scenario					
			ID	Description	Power rating Size, weight	PME SWL, dB(A)	Unmitigated SWL, dB(A) [1]	ID	Power rating Size, weight	PME SWL, dB(A)	Quiet Plant SWL, dB(A) [1]	Enclosure, dB(A)	Barrier, dB(A)	Acoustic Mat, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A) [1]	
Air Compressor (CNP001) (40%)	40	-4	CNP001	Air Compressor, air flow <= 10m3/min	-	100	96				96	-10			-10	86	
Air Compressor (CNP002) (30%)	30	-5	CNP002	Air compressor, air flow > 10m3/min and <= 30 m3/min	-	102	97				97	-10			-10	87	
Air Compressor (CNP002) (50%)	50	-3	CNP002	Air compressor, air flow > 10m3/min and <= 30 m3/min	-	102	99				99	-10			-10	89	
Air Compressor (CNP002) (100%)	100	0	CNP002	Air compressor, air flow > 10m3/min and <= 30 m3/min	-	102	102				102	-10			-10	92	
Air Compressor (CNP003) (20%)	20	-7	CNP003	Air compressor, air flow > 30m3/min	-	104	97	D7-44	above 34m3/min	103	96	-10			-10	86	
Air Compressor (CNP003) (30%)	30	-5	CNP003	Air compressor, air flow > 30m3/min	-	104	99	D7-44	above 34m3/min	103	98	-10			-10	88	
Air Compressor (CNP003) (50%)	50	-3	CNP003	Air compressor, air flow > 30m3/min	-	104	101	D7-44	above 34m3/min	103	100	-10			-10	90	
Air Compressor (CNP003) (60%)	60	-2	CNP003	Air compressor, air flow > 30m3/min	-	104	102	D7-44	above 34m3/min	103	101	-10			-10	91	
Air Compressor (CNP003) (70%)	70	-2	CNP003	Air compressor, air flow > 30m3/min	-	104	102	D7-44	above 34m3/min	103	101	-10			-10	91	
Air Compressor (CNP003) (80%)	80	-1	CNP003	Air compressor, air flow > 30m3/min	-	104	103	D7-44	above 34m3/min	103	102	-10			-10	92	
Air Compressor (CNP003) (100%)	100	0	CNP003	Air compressor, air flow > 30m3/min	-	104	104	D7-44	above 34m3/min	103	103	-10			-10	93	
Asphalt Paver (CNP004) (30%)	30	-5	CNP004	Asphalt paver	-	109	104	D8-24	90kW, 13t	101	96	-5			-5	91	
Asphalt Paver (CNP004) (50%)	50	-3	CNP004	Asphalt paver	-	109	106	D8-24	90kW, 13t	101	98	-5			-5	93	
Asphalt Paver (CNP004) (80%)	80	-1	CNP004	Asphalt paver	-	109	108	D8-24	90kW, 13t	101	100	-5			-5	95	
Bar Bender and Cutter @ Stockpiling Area (CNP021) (50%)	50	-3	CNP021	Bar bender and cutter (electric)	-	90	87				87					87	
Bar Bender and Cutter (CNP021) (20%)	20	-7	CNP021	Bar bender and cutter (electric)	-	90	83				83					83	
Bar Bender and Cutter (CNP021) (30%)	30	-5	CNP021	Bar bender and cutter (electric)	-	90	85				85					85	
Bar Bender and Cutter (CNP021) (50%)	50	-3	CNP021	Bar bender and cutter (electric)	-	90	87				87					87	
Bar Bender and Cutter (CNP021) (60%)	60	-2	CNP021	Bar bender and cutter (electric)	-	90	88				88					88	
Bar Bender and Cutter (CNP021) (70%)	70	-2	CNP021	Bar bender and cutter (electric)	-	90	88				88					88	
Bar Bender and Cutter (CNP021) (80%)	80	-1	CNP021	Bar bender and cutter (electric)	-	90	89				89					89	
Bar Bender and Cutter (Electric) (CNP021) (100%)	100	0	CNP021	Bar bender and cutter (electric)	-	90	90				90					90	
Batching Plant (CNP022) (100%)	100	0	CNP022	Batching Plant	-	108	108				108		-5			-5	103
Breaker, hand-held, mass > 10kg and < 20kg (CNP024) (20%)	20	-7	CNP024	Breaker, hand held, mass > 10kg and < 20 kg	-	108	101				101		-5			-5	101
Hand Held Breaker (CNP025) (30%)	30	-5	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	106	D8-12	52kW	106	101	-5			-5	96	
Hand Held Breaker (CNP025) (50%)	50	-3	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	108	D8-12	52kW	106	103	-5			-5	98	
Hand Held Breaker (CNP025) (60%)	60	-2	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	109	D8-12	52kW	106	104	-5			-5	99	
Hand Held Breaker (CNP025) (70%)	70	-2	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	109	D8-12	52kW	106	104	-5			-5	99	
Hand Held Breaker (CNP025) (20%)	20	-7	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	104	D8-12	52kW	106	99	-5			-5	94	
Hand Held Breaker (CNP025) (10%)	10	-10	CNP025	Breaker, hand held, mass >= 20kg and <= 35 kg	-	111	101	D8-12	52kW	106	96	-5			-5	91	
Hand-held breaker, mass > 35kg (CNP 026) (30%)	30	-5	CNP026	Breaker, hand-held, mass > 35kg	-	114	109	D8-12	52kW	106	101	-5			-5	96	
Hand-held breaker (CNP 026) (100%)	100	0	CNP026	Breaker, hand-held, mass > 35kg	-	114	114	D8-12	52kW	106	106	-5			-5	101	
Breaker (Pneumatic) (CNP027) (20%)	20	-7	CNP027	Breaker, excavator mounted (pneumatic)	-	122	115	D3-100	27kg	112	105	-5			-5	100	
Breaker (Pneumatic) (CNP027) (30%)	30	-5	CNP027	Breaker, excavator mounted (pneumatic)	-	122	117	D3-100	27kg	112	107	-5			-5	102	
Breaker (Pneumatic) (CNP027) (50%)	50	-3	CNP027	Breaker, excavator mounted (pneumatic)	-	122	119	D3-100	27kg	112	109	-5			-5	104	
Breaker (Pneumatic) (CNP027) (70%)	70	-2	CNP027	Breaker, excavator mounted (pneumatic)	-	122	120	D3-100	27kg	112	110	-5			-5	105	
Breaker (Pneumatic) (CNP027) (80%)	80	-1	CNP027	Breaker, excavator mounted (pneumatic)	-	122	121	D3-100	27kg	112	111	-5			-5	106	
Breaker (Pneumatic) (CNP027) (100%)	100	0	CNP027	Breaker, excavator mounted (pneumatic)	-	122	122	D3-100	27kg	112	112	-5			-5	107	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (20%)	20	-7	CNP028	Breaker, excavator mounted (hydraulic)	-	122	115	D8-13		110	103	-5			-5	98	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	30	-5	CNP028	Breaker, excavator mounted (hydraulic)	-	122	117	D8-13		110	105	-5			-5	100	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (40%)	40	-4	CNP028	Breaker, excavator mounted (hydraulic)	-	122	118	D8-13	73kW, 200kg	110	106	-5			-5	101	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (50%)	50	-3	CNP028	Breaker, excavator mounted (hydraulic)	-	122	119	D8-13	73kW, 200kg	110	107	-5			-5	102	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (70%)	70	-2	CNP028	Breaker, excavator mounted (hydraulic)	-	122	120	D8-13		110	108	-5			-5	103	
Bulldozer (CNP030) (70%)	70	-2	CNP030	Bulldozer	-	115	113	D9-2	200kW	104	102	-5			-5	97	
Bulldozer (CNP030) (100%)	100	0	CNP030	Bulldozer	-	115	115	D9-2	200kW	104	104	-5			-5	99	
Conveyor (CNP041) (20%)	20	-7	CNP041	Conveyor Belt	-	90	83				83					83	
Conveyor (CNP041) (40%)	40	-4	CNP041	Conveyor Belt	-	90	86				86					86	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (30%)	30	-5	CNP028	Breaker, excavator mounted (hydraulic)	-	122	117	D8-13	73kW, 200kg	110	107	-5			-5	100	
Breaker, Excavator Mounted (Hydraulic) (CNP028) (60%)	60	-2	CNP028	Breaker, excavator mounted (hydraulic)	-	122	120	D8-13	73kW, 200kg	110	108	-5			-5	103	
Concrete Lorry Mixer (CNP044) (10%)	10	-10	CNP044	Concrete lorry mixer	-	109	99	D6-23	22kW, 6m3	100	90	-5			-5	85	
Concrete Lorry Mixer (CNP044) (10%)	10	-10	CNP044	Concrete lorry mixer	-	109	99	D6-23	22kW	100	90	-5			-5	85	
Concrete Lorry Mixer (CNP044) (20%)	20	-7	CNP044	Concrete lorry mixer	-	109	102	D6-23	22kW	100	93	-5			-5	88	
Concrete Lorry Mixer (CNP044) (30%)	30	-5	CNP044	Concrete lorry mixer	-	109	104	D6-23	22kW	100	95	-5			-5	90	
Concrete Lorry Mixer (CNP044) (40%)	30	-5	CNP044	Concrete lorry mixer	-	109	104	D6-23	22kW	100	95	-5			-5	90	
Concrete Lorry Mixer (CNP044) (50%)	50	-3	CNP044	Concrete lorry mixer	-	109	106	D6-23	22kW	100	97	-5			-5	92	
Concrete Lorry Mixer (CNP044) (80%)	80	-1	CNP044	Concrete lorry mixer	-	109	108	D6-23	22kW	100	99	-5			-5	94	
Concrete Lorry Mixer (CNP044) (100%)	100	0	CNP044	Concrete lorry mixer	-	109	109	D6-23	22kW	100	100	-5			-5	95	
Concrete mixer electric (CNP045) (100%)	100	0	CNP045	Concrete mixer (Electric)	-	96	96				96		-5			-5	91
Concrete pump (CNP047) (10%)	10	-10	CNP047	Concrete pump, stationary / lorry mounted	-	109	99	D6-34	100kW	107	97	-5			-5	92	
Concrete pump (CNP047) (15%)	15	-8	CNP047	Concrete pump, stationary / lorry mounted	-	109	101	D6-34	100kW	107	99	-5			-5	94	
Concrete pump (CNP047) (20%)	20	-7	CNP047	Concrete pump, stationary / lorry mounted	-	109	102	D6-34	100kW	107	100	-5			-5	95	
Concrete pump (CNP047) (30%)	30	-5	CNP047	Concrete pump, stationary / lorry mounted	-	109	104	D6-34	100kW	107	102	-5			-5	97	
Concrete pump (CNP047) (40%)	40	-4	CNP047	Concrete pump, stationary / lorry mounted	-	109	105	D6-34	100kW	107	103	-5			-5	98	
Concrete pump (CNP047) (50%)	50	-3	CNP047	Concrete pump, stationary / lorry mounted	-	109	106	D6-34	100kW	107	104	-5			-5	99	
Concrete pump (CNP047) (100%)	100	0	CNP047	Concrete pump, stationary / lorry mounted	-	109	109	D6-34	100kW	107	107	-5			-5	102	
Crane Mobile (CNP048) (5%)	5	-13	CNP048	Crane, mobile / barge mounted (diesel)	-	112	99	D7-114	62kW	101	88	-5			-5	83	
Crane Mobile (CNP048) (10%)	10	-10	CNP048	Crane, mobile / barge mounted (diesel)	-	112	102	D7-114	62kW	101	91	-5			-5	86	
Crane Mobile (CNP048) (20%)	20	-7	CNP048	Crane, mobile / barge mounted (diesel)	-	112	105	D7-114	62kW	101	94	-5			-5	89	
Crane Mobile (CNP048) (25%)	25	-6	CNP048	Crane, mobile / barge mounted (diesel)	-	112	106	D7-114	62kW	101	95	-5			-5	90	
Crane Mobile (CNP048) (30%)	30	-5	CNP048	Crane, mobile / barge mounted (diesel)	-	112	107	D7-114	62kW	101	96	-5			-5	91	
Crane Mobile (CNP048) (40%)	30	-5	CNP048	Crane, mobile / barge mounted (diesel)	-	112	107	D7-114	62kW	101	96	-5			-5	91	
Crane Mobile (CNP048) (50%)	50	-3	CNP048	Crane, mobile / barge mounted (diesel)	-	112	109	D7-114	62kW	101	98	-5			-5	93	
Crane Mobile (CNP048) (60%)	60	-2	CNP048	Crane, mobile / barge mounted (diesel)	-	112	110	D7-114	62kW	101	99	-5			-5	94	
Crane Mobile (CNP048) (70%)	70	-2	CNP048	Crane, mobile / barge mounted (diesel)	-	112	110	D7-114	62kW	101	99	-5			-5	94	
Crane Mobile (CNP048) (80%)	80	-1	CNP048	Crane, mobile / barge mounted (diesel)	-	112	111	D7-114	62kW	101	100	-5			-5	95	
Crane Mobile (CNP048) (90%)	90	0	CNP048	Crane, mobile / barge mounted (diesel)	-	112	112	D7-114	62kW	101	101	-5			-5	96	

PME	% Operation	Corr. dB(A)	Unmitigated SWLs				Quiet Plant				Mitigated Scenario					
			ID	Description	Power rating Size, weight	PME SWL, dB(A)	Unmitigated SWL, dB(A) [1]	ID	Power rating Size, weight	PME SWL, dB(A)	Quiet Plant SWL, dB(A) [1]	Enclosure, dB(A)	Barrier, dB(A)	Acoustic Mat, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A) [1]
Crane Mobile (CNP048) (100%)	100	0	CNP048	Crane, mobile / barge mounted (diesel)	-	112	112	D7-114	62kW	101	101			-5	-5	96
Hydraulic Crawler Crane (CNP048) (30%)	30	-5	CNP048	Crane, mobile / barge mounted (diesel)	-	112	107	D7-114	62kW	101	96			-5	-5	91
Hydraulic Crawler Crane (CNP048) (50%)	50	-3	CNP048	Crane, mobile / barge mounted (diesel)	-	112	109	D7-114	62kW	101	98			-5	-5	93
Hydraulic Crawler Crane (CNP048) (60%)	60	-2	CNP048	Crane, mobile / barge mounted (diesel)	-	112	110	D7-114	62kW	101	99			-5	-5	94
Hydraulic Crawler Crane (CNP048) (80%)	80	-1	CNP048	Crane, mobile / barge mounted (diesel)	-	112	111	D7-114	62kW	101	100			-5	-5	95
Hydraulic Crawler Crane (CNP048) (100%)	100	0	CNP048	Crane, mobile / barge mounted (diesel)	-	112	112	D7-114	62kW	101	101			-5	-5	96
Tower Crane (CNP049) (20%)	20	-7	CNP049	Crane, tower (electric)	-	95	88				88					88
Tower Crane (CNP049) (50%)	50	-3	CNP049	Crane, tower (electric)	-	95	92				92					92
Tower Crane (CNP049) (60%)	60	-2	CNP049	Crane, tower (electric)	-	95	93				93					93
Tower Crane (CNP049) (80%)	80	-1	CNP049	Crane, tower (electric)	-	95	94				94					94
Compactor, vibratory (CNP050) (20%)	20	-7	CNP050	Compactor, vibratory	-	105	98				98			-5	-5	93
Compactor, vibratory (CNP050) (40%)	40	-4	CNP050	Compactor, vibratory	-	105	101				101			-5	-5	96
Concrete Pumping Lorry (CNP054) (10%)	10	-10	CNP054	Concrete pumping lorry	-	109	99				99			-5	-5	94
Concrete Pumping Lorry (CNP054) (20%)	20	-7	CNP054	Concrete pumping lorry	-	109	102				102			-5	-5	97
Concrete Pumping Lorry (CNP054) (30%)	30	-5	CNP054	Concrete pumping lorry	-	109	104				104			-5	-5	99
Cutter, Circular, Steel (CNP056) (10%)	10	-10	CNP056	Cutter, circular, steel (electric)	-	112	102				102			-5	-5	97
Barge (CNP061) (100%)	100	0	CNP061	Derrick Barge	-	104	104				104			-5	-5	99
Hopper Barge (CNP061) (40%)	40	-4	CNP061	Derrick Barge	-	104	100				100			-5	-5	95
Dump Truck (CNP067) (10%)	10	-10	CNP067	Dump truck	-	117	107	D9-24	24t	104	94			-5	-5	89
Dump Truck (CNP067) (20%)	20	-7	CNP067	Dump truck	-	117	110	D9-24	24t	104	97			-5	-5	92
Dump Truck (CNP067) (25%)	25	-6	CNP067	Dump truck	-	117	111	D9-24	24t	104	98			-5	-5	93
Dump Truck (CNP067) (30%)	30	-5	CNP067	Dump truck	-	117	112	D9-24	24t	104	99			-5	-5	94
Dump Truck (CNP067) (40%)	40	-4	CNP067	Dump truck	-	117	113	D9-24	24t	104	100			-5	-5	95
Dump Truck (CNP067) (50%)	50	-3	CNP067	Dump truck	-	117	114	D9-24	24t	104	101			-5	-5	96
Dump Truck (CNP067) (60%)	60	-2	CNP067	Dump truck	-	117	115	D9-24	24t	104	102			-5	-5	97
Dump Truck (CNP067) (70%)	70	-2	CNP067	Dump truck	-	117	115	D9-24	24t	104	102			-5	-5	97
Dump Truck (CNP067) (80%)	80	-1	CNP067	Dump truck	-	117	116	D9-24	24t	104	103			-5	-5	98
Dump Truck (CNP067) (90%)	90	0	CNP067	Dump truck	-	117	117	D9-24	24t	104	104			-5	-5	99
Dump Truck (CNP067) (100%)	100	0	CNP067	Dump truck	-	117	117	D9-24	24t	104	104			-5	-5	99
Dump Truck with Grab (CNP069) (20%)	20	-7	CNP069	Dump truck	-	105	98	D9-39	450kW, 50t	103	96			-5	-5	91
Dump Truck with Grab (CNP069) (60%)	60	-2	CNP069	Dump truck	-	105	103	D9-39	450kW, 50t	103	101			-5	-5	96
Dump Truck with Grab (CNP069) (80%)	80	-1	CNP069	Dump truck	-	105	104	D9-39	450kW, 50t	103	102			-5	-5	97
Drill, Hand-Held (Battery) (CNP071) (40%)	40	-4	CNP071	Drill, hand held (battery)	-	89	85				85					85
Drill, Hand-Held (Battery) (CNP071) (50%)	50	-3	CNP071	Drill, hand held (battery)	-	89	86				86					86
Drill, Hand-Held (Battery) (CNP071) (60%)	60	-2	CNP071	Drill, hand held (battery)	-	89	87				87					87
Drill Rig, Rotary Type (Diesel) (50%)	50	-3	CNP072	Drill rig, rotary typr (diesel)	-	110	107				107			-5	-5	102
Drill Rig, Rotary Type (Diesel) (CNP072) (100%)	100	0	CNP072	Drill rig, rotary typr (diesel)	-	110	110				110			-5	-5	105
Excavator/Loader, Wheeled/Tracked (CNP081) (30%)	30	-5	CNP081	Excavator / loader, wheeled / tracked	-	112	107	D3-35	45kW	106	101			-5	-5	96
Excavator/Loader, Wheeled/Tracked (CNP081) (50%)	50	-3	CNP081	Excavator / loader, wheeled / tracked	-	112	109	D3-35	45kW	106	103			-5	-5	98
Excavator/Loader, Wheeled/Tracked (CNP081) (60%)	70	-2	CNP081	Excavator / loader, wheeled / tracked	-	112	110	D3-35	45kW	106	104			-5	-5	99
Excavator/Loader, Wheeled/Tracked (CNP081) (70%)	70	-2	CNP081	Excavator / loader, wheeled / tracked	-	112	110	D3-35	45kW	106	104			-5	-5	99
Excavator/Loader, Wheeled/Tracked (CNP081) (80%)	80	-1	CNP081	Excavator / loader, wheeled / tracked	-	112	111	D3-35	45kW	106	105			-5	-5	100
Excavator/Loader, Wheeled/Tracked (CNP081) (90%)	90	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112	D3-35	45kW	106	106			-5	-5	101
Excavator/Loader, Wheeled/Tracked (CNP081) (100%)	100	0	CNP081	Excavator / loader, wheeled / tracked	-	112	112	D3-35	45kW	106	106			-5	-5	101
Mini Backhoe (CNP082) (20%)	20	-7	CNP082	Excavator, mini-robot mounted	-	94	87				87			-5	-5	82
Mini Backhoe (CNP082) (30%)	30	-5	CNP082	Excavator, mini-robot mounted	-	94	89				89			-5	-5	84
Mini Backhoe (CNP082) (50%)	50	-3	CNP082	Excavator, mini-robot mounted	-	94	91				91			-5	-5	86
Mini Backhoe (CNP082) (60%)	60	-2	CNP082	Excavator, mini-robot mounted	-	94	92				92			-5	-5	87
Mini Backhoe (CNP082) (70%)	70	-2	CNP082	Excavator, mini-robot mounted	-	94	92				92			-5	-5	87
Mini Backhoe (CNP082) (80%)	80	-1	CNP082	Excavator, mini-robot mounted	-	94	93				93			-5	-5	88
Mini Backhoe (CNP082) (90%)	90	0	CNP082	Excavator, mini-robot mounted	-	94	94				94			-5	-5	89
Mini Backhoe (CNP082) (100%)	100	0	CNP082	Excavator, mini-robot mounted	-	94	94				94			-5	-5	89
Generator (CNP101) (100%)	100	0	CNP101	Generator, standard	-	108	108	CNP103	Generator, super silenced, 70dB(A) at 7m	95	95	-10		-10	-10	85
Generator (CNP101) (70%)	70	-2	CNP101	Generator, standard	-	108	106	CNP103	Generator, super silenced, 70dB(A) at 7m	95	93	-10		-10	-10	83
Generator (CNP102) (30%)	30	-5	CNP102	Generator, silenced, 75dB(A) at 7m	-	100	95	CNP103	Generator, super silenced, 70dB(A) at 7m	95	90	-10		-10	-10	80
Generator (CNP102) (40%)	40	-4	CNP102	Generator, silenced, 75dB(A) at 7m	-	100	96	CNP103	Generator, super silenced, 70dB(A) at 7m	95	91	-10		-10	-10	81
Generator (CNP102) (50%)	50	-3	CNP102	Generator, silenced, 75dB(A) at 7m	-	100	97	CNP103	Generator, super silenced, 70dB(A) at 7m	95	92	-10		-10	-10	82
Generator (CNP102) (70%)	50	-3	CNP102	Generator, silenced, 75dB(A) at 7m	-	100	97	CNP103	Generator, super silenced, 70dB(A) at 7m	95	92	-10		-10	-10	82
Generator (CNP102) (80%)																
Generator (CNP102) (100%)																
Generator (silenced) (CNP103) (30%)	30	-5	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	90				90	-10		-10	-10	80
Generator (silenced) (CNP103) (50%)	50	-3	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	92				92	-10		-10	-10	82
Generator (silenced) (CNP103) (60%)	60	-2	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	93				93	-10		-10	-10	83
Generator (silenced) (CNP103) (70%)	70	-2	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	93				93	-10		-10	-10	83
Generator (silenced) (CNP103) (80%)	80	-1	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	94				94	-10		-10	-10	84
Generator (silenced) (CNP103) (100%)	100	0	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	95				95	-10		-10	-10	85
Generator (CNP103) (100%)	100	0	CNP103	Generator, super silenced, 70dB(A) at 7m	-	95	95				95	-10		-10	-10	85
Grout Mixer (CNP105) (20%)	20	-7	CNP105	Grout mixer	-	90	83				83			-5	-5	78
Grout Mixer (CNP105) (30%)	30	-5	CNP105	Grout mixer	-	90	85				85			-5	-5	80
Grout Mixer (CNP105) (50%)	50	-3	CNP105	Grout mixer	-	90	87				87			-5	-5	82
Grout Pump (CNP106) (20%)	20	-7	CNP106	Grout pump	-	105	98				98			-5	-5	93
Grout Pump (CNP106) (30%)	30	-5	CNP106	Grout pump	-	105	100				100			-5	-5	95
Grout Pump (CNP106) (40%)	40	-4	CNP106	Grout pump	-	105	101				101			-5	-5	96
Grout Pump (CNP106) (50%)	50	-3	CNP106	Grout pump	-	105	102				102			-5	-5	97
Welder/Generator, portable (CNP107) (10%)	10	-10	CNP107	Generator, portable	-	100	90				90			-5	-5	85
Welder/Generator, portable (CNP107) (20%)	20	-7	CNP107	Generator, portable	-	100	93				93			-5	-5	88

PME	% Operation	Corr. dB(A)	Unmitigated SWLs					Quiet Plant				Mitigated Scenario					
			ID	Description	Power rating Size, weight	PME SWL, dB(A)	Unmitigated SWL, dB(A) [1]	ID	Power rating Size, weight	PME SWL, dB(A)	Quiet Plant SWL, dB(A) [1]	Enclosure, dB(A)	Barrier, dB(A)	Acoustic Mat, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A) [1]	
Welder/Generator, portable (CNP107) (30%)	30	-5	CNP107	Generator, portable	-	100	95				95			-5		-5	90
Welder/Generator, portable (CNP107) (40%)	40	-4	CNP107	Generator, portable	-	100	96				96			-5		-5	91
Welder/Generator, portable (CNP107) (50%)	50	-3	CNP107	Generator, portable	-	100	97				97			-5		-5	92
Welder/Generator, portable (CNP107) (60%)	60	-2	CNP107	Generator, portable	-	100	98				98			-5		-5	93
Welder/Generator, portable (CNP107) (100%)	100	0	CNP107	Generator, portable	-	100	100				100			-5		-5	95
Hoist, Passenger / Material (CNP122) (20%)	20	-7	CNP122	Hoist, passenger / material (electric)	-	95	88				88						88
Hoist, Passenger / Material (CNP122) (40%)	40	-4	CNP122	Hoist, passenger / material (electric)	-	95	91				91						91
Lorry (CNP 141) (10%)	10	-10	CNP141	Lorry	-	112	102	D9-19	20t		102	92		-5		-5	87
Lorry (CNP141) (20%)	20	-7	CNP141	Lorry	-	112	105	D9-19	20t		102	95		-5		-5	90
Lorry (CNP141) (30%)	30	-5	CNP141	Lorry	-	112	107	D9-19	20t		102	97		-5		-5	92
Lorry (CNP141) (50%)	50	-3	CNP141	Lorry	-	112	109	D9-19	20t		102	99		-5		-5	94
Lorry (CNP141) (70%)	70	-2	CNP141	Lorry	-	112	110	D9-19	20t		102	100		-5		-5	95
Lorry (CNP141) (80%)	80	-1	CNP141	Lorry	-	112	111	D9-19	20t		102	101		-5		-5	96
Lorry (CNP141) (100%)	30	-5	CNP141	Lorry	-	112	107	D9-19	20t		102	97		-5		-5	92
Lorry (CNP142) (20%)	20	-7	CNP142	Lorry	-	112	105	D9-19	20t		102	95		-5		-5	90
Lorry (CNP142) (30%)	30	-5	CNP142	Lorry	-	112	107	D9-19	20t		102	97		-5		-5	92
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (20%)	20	-7	CNP144	Lorry	> 38 tonnes	112	105	D9-19	20t		102	95		-5		-5	90
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (50%)	50	-3	CNP144	Lorry	> 38 tonnes	112	109	D9-19	20t		102	99		-5		-5	94
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (70%)	70	-2	CNP144	Lorry	> 38 tonnes	112	110	D9-19	20t		102	100		-5		-5	95
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (80%)	80	-1	CNP144	Lorry	> 38 tonnes	112	111	D9-19	20t		102	101		-5		-5	96
Lorry, with Crane/Grab, Gross wt. > 38 tonnes (CNP144) (100%)	100	0	CNP144	Lorry	> 38 tonnes	112	112	D9-19	20t		102	102		-5		-5	97
Lorry, Crane/Grab (CNP145) (10%)	10	-10	CNP145	Lorry	-	105	95	D9-19	20t		102	92		-5		-5	87
Lorry, Crane/Grab (CNP145) (40%)	40	-4	CNP145	Lorry	-	105	101	D9-19	20t		102	98		-5		-5	93
Lorry, Crane/Grab (CNP145) (50%)	50	-3	CNP145	Lorry	-	105	102	D9-19	20t		102	99		-5		-5	94
Lorry, Crane/Grab (CNP145) (60%)	60	-2	CNP145	Lorry	-	105	103	D9-19	20t		102	100		-5		-5	95
Lorry, Crane/Grab (CNP145) (70%)	70	-2	CNP145	Lorry	-	105	103	D9-19	20t		102	100		-5		-5	95
Lorry, Crane/Grab (CNP145) (80%)	80	-1	CNP145	Lorry	-	105	104	D9-19	20t		102	101		-5		-5	96
Lorry, Crane/Grab (CNP145) (90%)	90	0	CNP145	Lorry	-	105	105	D9-19	20t		102	102		-5		-5	97
Lorry with Grab (CNP145) (100%)	100	0	CNP145	Lorry	-	105	105	D9-19	20t		102	102		-5		-5	97
Paint Line Marker (CNP161) (80%)	80	-1	CNP161	Paint line marker	-	90	89				89						89
Piling, Diaphragm Wall, Bentonite Filtering Plant (CNP162) (80%)	80	-1	CNP162	Piling, D-wall, bentonite filtering plant	-	105	104				104			-10		-10	94
Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (60%)	60	-2	CNP163	Piling, D-wall, hydraulic extractor	-	90	88				88			-5		-5	83
Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (70%)	70	-2	CNP163	Piling, D-wall, hydraulic extractor	-	90	88				88			-5		-5	83
Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (80%)	80	-1	CNP163	Piling, D-wall, hydraulic extractor	-	90	89				89			-5		-5	84
Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (90%)	90	0	CNP163	Piling, D-wall, hydraulic extractor	-	90	90				90			-5		-5	85
Piling, Diaphragm Wall, Hydraulic Extractor (CNP163) (100%)	100	0	CNP163	Piling, D-wall, hydraulic extractor	-	90	90				90			-5		-5	85
Drilling Rig (CNP163) (70%)	70	-2	CNP163	Piling, D-wall, hydraulic extractor	-	90	88				88			-5		-5	83
Trench Cutter (CNP164) (90%)	100	0	CNP164	Piling, large dia bored, grab & chisel	-	115	115	D3-106	25kW		105	105			-10	-10	95
Trench Cutter (CNP164) (100%)	100	0	CNP164	Piling, large dia bored, grab & chisel	-	115	115	D3-106	25kW		105	105			-10	-10	95
Piling, Large Diameter Bored, Grab and Chisel (CNP164) (30%)	30	-5	CNP164	Piling, large dia bored, grab & chisel	-	115	110	D3-106	25kW		105	100		-10		-10	90
Piling, Large Diameter Bored, Grab and Chisel (CNP164) (70%)	70	-2	CNP164	Piling, large dia bored, grab & chisel	-	115	113	D3-106	25kW		105	103		-10		-10	93
Piling, Large Diameter Bored, Grab and Chisel (CNP164) (80%)	80	-1	CNP164	Piling, large dia bored, grab & chisel	-	115	114	D3-106	25kW		105	104		-10		-10	94
Piling, Large Diameter Bored, Grab and Chisel (CNP164) (90%)	90	0	CNP164	Piling, large dia bored, grab & chisel	-	115	115	D3-106	25kW		105	105			-10	-10	95
Piling, large dia bored, oscillator (CNP165) (20%)	20	-7	CNP165	Piling, large dia bored, oscillator	-	115	108				108			-10		-10	98
Piling, large dia bored, oscillator (CNP165) (30%)	30	-5	CNP165	Piling, large dia bored, oscillator	-	115	110				110			-10		-10	100
Piling, large dia bored, oscillator (CNP165) (50%)	50	-3	CNP165	Piling, large dia bored, oscillator	-	115	112	D3-106	25kW		105	102		-10		-10	92
Piling, Large Diameter Bored, rcd (CNP166) (50%)	50	-3	CNP166	Piling, large dia bored, RCD	-	100	97				97			-10		-10	87
Piling, Large Diameter Bored, rcd (CNP166) (80%)	80	-1	CNP166	Piling, large dia bored, RCD	-	100	99				99			-10		-10	89
Piling, Large Diameter Bored, rcd (CNP166) (90%)	90	0	CNP166	Piling, large dia bored, RCD	-	100	100				100			-10		-10	90
Piling Rig and Drilling Rig (CNP167) (30%)	30	-5	CNP167	Piling, earth auger, auger	-	114	109	D4-44	75kW		109	104		-10		-10	94
Piling Rig and Drilling Rig (CNP167) (50%)	50	-3	CNP167	Piling, earth auger, auger	-	114	111	D4-44	75kW		109	106		-10		-10	96
Piling Rig and Drilling Rig (CNP167) (60%)	60	-2	CNP167	Piling, earth auger, auger	-	114	112	D4-44	75kW		109	107		-10		-10	97
Piling Rig and Drilling Rig (CNP167) (70%)	70	-2	CNP167	Piling, earth auger, auger	-	114	112	D4-44	75kW		109	107		-10		-10	97
Piling Rig and Drilling Rig (CNP167) (80%)	80	-1	CNP167	Piling, earth auger, auger	-	114	113	D4-44	75kW		109	108		-10		-10	98
Piling Rig and Drilling Rig (CNP167) (90%)	90	0	CNP167	Piling, earth auger, auger	-	114	114	D4-44	75kW		109	109		-10		-10	99
Piling Rig and Drilling Rig (CNP167) (100%)	100	0	CNP167	Piling, earth auger, auger	-	114	114	D4-44	75kW		109	109		-10		-10	99
Power rammer (petrol) (CNP169) (100%)	100	0	CNP169	Power rammer (petrol)	-	108	108				108			-5		-5	103
Poker, Vibratory, Hand Held (CNP170) (10%)	10	-10	CNP170	Poker, vibratory, hand held	-	113	103	D6-40	0.75kW		98	88		-5		-5	83
Poker, Vibratory, Hand Held (CNP170) (15%)	15	-8	CNP170	Poker, vibratory, hand held	-	113	105	D6-40	0.75kW		98	90		-5		-5	85
Poker, Vibratory, Hand Held (CNP170) (20%)	20	-7	CNP170	Poker, vibratory, hand held	-	113	106	D6-40	0.75kW		98	91		-5		-5	86
Poker, Vibratory, Hand Held (CNP170) (30%)	30	-5	CNP170	Poker, vibratory, hand held	-	113	108	D6-40	0.75kW		98	93		-5		-5	88
Poker, Vibratory, Hand Held (CNP170) (40%)	40	-4	CNP170	Poker, vibratory, hand held	-	113	109	D6-40	0.75kW		98	94		-5		-5	89
Poker, Vibratory, Hand Held (CNP170) (50%)	50	-3	CNP170	Poker, vibratory, hand held	-	113	110	D6-40	0.75kW		98	95		-5		-5	90
Poker, Vibratory, Hand Held (CNP170) (100%)	100	0	CNP170	Poker, vibratory, hand held	-	113	113	D6-40	0.75kW		98	98		-5		-5	93
Poker, Vibratory, Hand Held (CNP170) (20%)	20	-7	CNP170	Poker, vibratory, hand held	-	113	106	D6-40	0.75kW		98	91		-5		-5	86
Piling, Vibrating Hammer (CNP172) (40%)	40	-4	CNP172	Piling, vibrating hammer	-	115	111	D4-13	220000kg/pile		106	102		-5		-5	97
Piling, Vibrating Hammer (CNP172) (50%)	50	-3	CNP172	Piling, vibrating hammer	-	115	112	D4-13	220000kg/pile		106	103		-5		-5	98
Piling, Vibrating Hammer (CNP172) (60%)	60	-2	CNP172	Piling, vibrating hammer	-	115	113	D4-13	220000kg/pile		106	104		-5		-5	99
Piling, Vibrating Hammer (CNP172) (80%)	80	-1	CNP172	Piling, vibrating hammer	-	115	114	D4-13	220000kg/pile		106	105		-5		-5	100
Piling, Vibrating Hammer (CNP172) (100%)	100	0	CNP172	Piling, vibrating hammer	-	115	115	D4-13	220000kg/pile		106	106		-5		-5	101
Paint Line Marker (Low Pressure) (CNP176) (20%)	20	-7	CNP176	Paint Line Marker	-	87	80				80						80
Rock Drill (CNP182) (80%)	80	-1	CNP182	Rock drill, crawler mounted (hydraulic)	-	123	122	D4-106	25kW		105	104		-10		-10	94
Roller (CNP185) (20%)	20	-7	CNP185	Road Roller	-	108	101	D8-30	51kW		101	94		-5		-5	89
Roller (CNP185) (30%)	30	-5	CNP185	Road Roller	-	108	103	D8-30	51kW		101	96		-5		-5	91
Roller (CNP185) (50%)	50	-3	CNP185	Road Roller	-	108	105	D8-30	51kW		101	98		-5		-5	93
Roller (CNP185) (70%)	70	-2	CNP185	Road Roller	-	108	106	D8-30	51kW		101	99		-5		-5	94

Project : 25445 Shatin to Central Link
 Title : SWLs of PMEs

PME	% Operation	Corr. dB(A)	Unmitigated SWLs				Quiet Plant				Mitigated Scenario						
			ID	Description	Power rating Size, wieght	PME SWL, dB(A)	Unmitigated SWL, dB(A) [1]	ID	Power rating Size, wieght	PME SWL, dB(A)	Quiet Plant SWL, dB(A) [1]	Enclosure, dB(A)	Barrier, dB(A)	Acoustic Mat, dB(A)	Total Reduction, dB(A)	Mitigated SWL, dB(A) [1]	
Roller, Vibratory (CNP186) (20%)	20	-7	CNP186	Roller, vibratory	-	108	101				101			-5		-5	96
Roller, Vibratory (CNP186) (30%)	30	-5	CNP186	Roller, vibratory	-	108	103				103			-5		-5	98
Roller, Vibratory (CNP186) (60%)	60	-2	CNP186	Roller, vibratory	-	108	106				106			-5		-5	101
Roller, Vibratory (CNP186) (100%)	100	0	CNP186	Roller, vibratory	-	108	108				108			-5		-5	103
Saw, Circular Wood (CNP201) (30%)	30	-5	CNP201	Saw, circular, wood	-	108	103	D7-78	660mm blade	106	101			-5		-5	96
Saw, Circular Wood (CNP201) (40%)	40	-4	CNP201	Saw, circular, wood	-	108	104	D7-78	660mm blade	106	102			-5		-5	97
Saw, Circular Wood (CNP201) (50%)	50	-3	CNP201	Saw, circular, wood	-	108	105	D7-78	660mm blade	106	103			-5		-5	98
Saw, Chain, Hand-held (CNP202) (30%)	30	-5	CNP202	Saw, chain, hand-held	-	114	109	D7-78	660mm blade	106	101			-5		-5	96
Saw, Chain, Hand-held (CNP202) (50%)	50	-3	CNP202	Saw, chain, hand-held	-	114	111	D7-78	660mm blade	106	103			-5		-5	98
Saw, Chain, Hand-held (CNP202) (100%)	100	0	CNP202	Saw, chain, hand-held	-	114	114	D7-78	660mm blade	106	106			-5		-5	101
Saw, Concrete (50%)	50	-3	CNP203	Saw / groover, concrete (petrol)	-	115	112				112			-5		-5	107
Ventilation Fan (CNP241) (100%)	100	0	CNP241	Ventilation fan	-	108	108				108		-10			-10	98
Electric Winch (CNP262) (50%)	50	-3	CNP262	Winch (electric)	-	95	92				92						92
Water Pump, Submersible (Electric) (CNP283) (90%)	90	0	CNP283	Water pump, submersible (electric)	-	85	85				85						85
Water Pump, Submersible (Electric) (CNP283) (100%)	100	0	CNP283	Water pump, submersible (electric)	-	85	85				85						85
H-Pile rig (90%)	90	0		Crane-mounted auger: donkey engine in acoustic enclosure		110	110	D4-89a	90kW	110	110		-10			-10	100
Giken Pile Rig (90%)	90	0		Giken Pile Rig		101	101				101			-5		-5	96
Giken Pile Rig (70%)	70	-2		Giken Pile Rig		101	99				99			-5		-5	94
Giken Pile Rig (10%)	10	-10		Giken Pile Rig		101	91				91			-5		-5	86
Giken Pile Rig (5%)	5	-13		Giken Pile Rig		101	88				88			-5		-5	83
Cherry Picker (20%)	20	-7		Cherry Picker		105	98				98		-10			-10	88
Mini Concrete Cruncher (30%)	30	-5				93	88				88						88
Giken Piler and Power-Pack (50%)	50	-3	Giken			101	98				98						98

Note: [1] SWL with utilisation rates adjustment