Construction Plant Inventory - Mitigated Scenario
Work Type 1 - Construction of Sewer (Open Cut Method)

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface									
Pulverizer mounted on excavator	BS C1/5	1	100	30%	-5	(b)	-10	84.8	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-
							Total	85.8	0.0
Stage 2 - Excavation of soil material									
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0
							Total	89.0	80.5
Stage 3 - Steel fixing & concreting of manholes									
Bar bender and cutter (electric)	CNP 021	1	90	20%	-7	(b)	-15	-	68.0
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	79.0
Poker, vibratory, hand-held	BS C4/34	1	97	50%	-3	(a) (b)	-15	79.0	-
							Total	82.0	79.3
Stage 4 - Laying of bedding material									
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Poker, vibratory, hand-held - 2	BS C4/34	1	97	100%	0	(a) (b)	-15	-	82.0
							Total	0.0	83.8
Stage 5 - Backfilling and soil compaction									
Vibratory compactor	QPME EPD 00055	1	102	50%	-3	(a) (b)	-10	89.0	-
							Total	89.0	0.0
Stage 6 - Reinstatement of road surface									
Poker, vibratory, hand-held - 2	BS C4/34	1	97	100%	0	(a) (b)	-15	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-
							Total	83.8	0.0

Max Noise Level
89.0

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30 and 50 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 2 - Construction of Sewer (Trenchless Method)

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Excavation of Pits											
Piling, earth auger, auger	CNP 167	1	114	100%	0	(b)	-10	104.0	-	-	-
Hoist (electric)	CNP 122	1	95	100%	0	(b)	-10	85.0	-	-	-
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a) (b)	-5	-	108.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	-	94.0	-
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	79.0	-
Submersible Pump	CNP 283	2	85	100%	0	(b)	-10	-	-	78.0	-
Grout Mixer	CNP 105	1	90	100%	0	(b)	-10	-	-	-	80.0
Grout Pump	CNP 106	1	105	100%	0	(b)	-10	-	-	-	95.0
							Total	104.1	108.0	98.2	95.1
Stage 2 - Pipe Laid by Trenchless Method											
Tunnel Boring Machine	CNP 183	1	116	100%	0	(b)	-10	106.0	-	-	-
Bentonite Filtering Plant	CNP 162	1	105	100%	0	(b)	-10	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-	-
Dumper - 2	BS D3/98	1	101	70%	-2	(b)	-5	94.5	-	-	-
Hoist (electric) - 2	CNP 122	1	95	70%	-2	-	0	93.5	-	-	-
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	75.0	-	-	-
Ventilation Fan	CNP 241	1	108	100%	0	(b)	-10	98.0	-	-	-
Grout Mixer	CNP 105	1	90	100%	0	(b)	-10	-	80.0	-	-
Grout Pump	CNP 106	1	105	100%	0	(b)	-10	-	95.0	-	-
							Total	107.4	95.1	0.0	0.0
Stage 3 - Steel fixing and concreting of manholes											
Bar bender and cutter (electric)	CNP 021	1	90	20%	-7	(b)	-15	68.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	50%	-3	(a) (b)	-15	-	79.0	-	-
							Total	68.0	82.0	0.0	0.0
Stage 4 - Reinstatement of road surface											
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	50%	-3	(a) (b)	-15	79.0	-	-	-
							Total	82.0	0.0	0.0	0.0

Max Noise Level
108.0

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 50 and 70 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 3 - Upgrading of Existing Sewer

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Breaking up of road surface									
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-
Pulverizer mounted on excavator	BS C1/5	1	100	30%	-5	(b)	-10	84.8	-
							Total	85.8	0.0
Stage 2 - Excavation of soil material									
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0
							Total	89.0	80.5
Stage 3 - Removal of existing sewers and laying of new sewers									
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-
							Total	89.0	0.0
Stage 4 - Steel fixing and concreting of manholes									
Bar bender and cutter (electric)	CNP 021	1	90	20%	-7	(b)	-15	68.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0
Poker, vibratory, hand-held	BS C4/34	1	97	50%	-3	(a) (b)	-15	-	79.0
							Total	68.0	82.0
Stage 5 - Laying of bedding material									
Poker, vibratory, hand-held - 2	BS C4/34	1	97	100%	0	(a) (b)	-15	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-
							Total	83.8	0.0
Stage 6 - Backfilling and soil compaction									
Vibratory compactor	QPME EPD 00055	1	102	50%	-3	(a) (b)	-10	89.0	-
							Total	89.0	0.0
Stage 7 - Reinstatement of road surface									
Poker, vibratory, hand-held - 2	BS C4/34	1	97	100%	0	(a) (b)	-15	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-
							Total	83.8	0.0

Max Noise Level
89.0

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 20, 30, 50 and 70 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 4 - Construction of Tai O STW & Seawall Construction

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Form part of permanent seawall - by forming rock / Gabion wall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
							Total	111.0	0.0	0.0	0.0
Stage 2 - Fill the reclamation to 3mPD											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	-	-	-
							Total	111.1	0.0	0.0	0.0
Stage 3 - Core boreholes											
Drill Rig	BS D10/2	1	112	100%	0	(a)	0	112.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
							Total	112.5	0.0	0.0	0.0
Stage 4 - 1 - 1: Excavation and Construction of substructures in new reclamation areas											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	110.0	110.0	110.0
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	95.0	95.0	95.0
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	97.0	97.0
Air Compressor	CNP 002	2	102	100%	0		0	105.0	105.0	105.0	105.0
Stage 4 - 1 - 2: Construct bored piles for above-ground-structures: 350m^3 boring in rock											
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	-	115.0	-	115.0
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	-	115.0	-	115.0
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	-	115.0	-	115.0
Air Compressor	CNP 002	1	102	100%	0		0	-	102.0	-	102.0
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	-	90.0	-	90.0
Stage 4 - 1 - 3: Construct sheet pile walls for excavation of substructure: 625 m^3 boring in rock											
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a)	0	94.0	-	94.0	-
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	115.0	-	115.0	-
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	115.0	-	115.0	-
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	115.0	-	115.0	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	102.0	-
Stage 4 - 1 - 4: Excavation for substructures: 1000m^3 excavation in rock											
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a)	0	113.0	113.0	113.0	-
Excavator	BS C4/65	1	99	100%	0	(a)	0	99.0	99.0	99.0	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	88.0	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	98.0	-
Stage 4 - 1 - 5: Construction of Substructures											
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	-	88.0
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	90.0	-	90.0
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	112.0	-	112.0
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	108.0	-	108.0
Poker, vibratory, hand-held	BS C4/34	3	97	100%	0	(a)	0	101.8	101.8	-	101.8
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	-	98.0
Stage 4 - 2: Construct Temporary Outfall Chamber through existing seawall and on existing outfall pipes											
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
							Total	122.1	121.9	121.2	121.3
Stage 5 - 1: Install Temporary Treatment Installation											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Stage 5 - 2: Construct Temporary Sewage Inlet Pipe from existing Inlet Chamber to Temporary Treatment											
Submersible Pump	CNP 283	1	85	100%	0		0	85.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Stage 5 - 3: Construct Temporary Treated Effluent Outlet Pipe from Temporary Treatment Installation to the Temporary Outfall Chamber											
Submersible Pump	CNP 283	1	85	100%	0		0	85.0	-	-	-
							Total	112.8	0.0	0.0	0.0
Stage 6 - 1 - 1: Demolish and remove the Imhoff Tank, pipework, chambers and workshop											
Breaker, excavator mounted	BS C9/12	1	113	100%	0	(a)	0	113.0	113.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a)	0	99.0	99.0	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	-	-
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	88.0	-	-
Stage 6 - 1 - 2: Construct sheet pile walls for excavation of substructure: 850m^3 boring in rock											
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a)	0	94.0	-	-	-
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0		0	115.0	-	-	-
Piling, large diameter bored, oscillator	CNP 165	1	115	100%	0		0	115.0	-	-	-
Piling, Crawler crane/chisel/oscillator/RCD	CNP 164	1	115	100%	0		0	115.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Stage 6 - 1 - 3: Excavation for substructures: 1000m^3 excavation in reinforced concrete (by saw-cut) and rock											
Saw/groover, concrete (petrol)	CNP 203	2	115	100%	0		0	-	118.0	-	-
							Total	120.7	119.3	0.0	0.0
Stage 7 - 1: Construct the new Preliminary Treatment											
Submersible Pump	CNP 283	2	85	100%	0		0	88.0	-	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Stage 7 - 2: Construct the superstructures of MBR, Pump House and Header Tank, Sludge Thickening Tanks, Sludge Pump House, Air Blower, Sludge Digestors, Sludge Holding Tanks, Dangerous Goods Store, Fire Pump Room and Workshop											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	110.0	-	-
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	95.0	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	97.0	-	-
Air Compressor	CNP 002	2	102	100%	0		0	105.0	105.0	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	90.0	-	-
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	112.0	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	108.0	-	-
Poker, vibratory, hand-held	BS C4/34	2	97	100%	0	(a)	0	100.0	100.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	98.0	-	-
							Total	116.5	115.8	0.0	0.0
Stage 8 - 1: Installation of major E&M equipments											
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	2	94	100%	0	(a)	0	97.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Winch (electric)	CNP 262	1	95	100%	0		0	95.0	-	-	-
Stage 8 - 3: Construct pipelines within the STW site and install a temporary pipeline											
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a)	0	97.0	-	-	-
							Total	110.1	0.0	0.0	0.0
Stage 9 - Remove Temporary Treatment Units and construct the new Sludge Dewatering House											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Bar Bender and Cutter	CNP 021	1	90	100%	0		0	90.0	-	-	-
Concrete Pump	CNP 047	2	109	100%	0		0	112.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Poker, vibratory, hand-held	BS C4/34	2	97	100%	0	(a)	0	100.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
							Total	115.5	0.0	0.0	0.0
Stage 10 - Installation of ancillary equipments and remove temporary platform											
Hoist (electric)	CNP 122	1	95	100%	0		0	95.0	-	-	-
Generator	BS C4/78	1	94	100%	0	(a)	0	94.0	-	-	-
Air Compressor	CNP 002	1	102	100%	0		0	102.0	-	-	-
Saw, circular, wood	CNP 201	1	108	100%	0		0	108.0	-	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0		0	98.0	-	-	-
Winch (electric)	CNP 262	1	95	100%	0		0	95.0	-	-	-
							Total	109.7	0.0	0.0	0.0
Construction of the remaining permanent seawall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
							Total	111.0	0.0	0.0	0.0
Laying of submarine outfall											
Tug Boat	CNP 221	1	110	100%	0		0	110.0	-	-	-
Dredger, grab	CNP 063	1	112	100%	0		0	112.0	-	-	-
Derrick Barge	CNP 061	1	104	100%	0		0	104.0	-	-	-
							Total	114.5	0.0	0.0	0.0

Max Noise Level
122.1

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 10, 20, 30, 60, 70 and 80 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 5 - Construction of Hang Mei Sewage Pumping Station

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance										
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
							Total	89.0	0.0	0.0
Stage 2 - Pilling										
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a) (b)	-10	84.0	-	-
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	92.5	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
							Total	93.2	0.0	0.0
Stage 3 - Excavation										
Breaker, hand-held, mass≥20kg and ≤35kg	CNP 025	1	111	100%	0	(b)	-10	101.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	94.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0	79.0
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	-	92.5	92.5
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0	75.0
Welding Machine	*AEIAR 052/2002	1	78	60%	-2	(b)	-10	-	65.8	-
							Total	101.0	96.4	97.7
Stage 4 - Steel fixing and conreting for structure										
Bar bender and cutter (electric)	CNP 021	1	90	30%	-5	(b)	-15	69.8	-	-
Concrete Pump	CNP 047	1	109	100%	0	(b)	-10	-	99.0	-
Saw, circular, wood	CNP 201	1	108	100%	0	(b)	-10	98.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a) (b)	-15	-	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	79.0	-
							Total	98.1	99.1	0.0
Stage 5 - Backfilling and Soil Compaction										
Vibratory Compactor	QPME EPD 00055	1	102	100%	0	(a) (b)	-10	92.0	-	-
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
							Total	93.8	0.0	0.0
Stage 6 - Installation of E&M equipments										
Crane, mobile mounted	BS C4/50	1	99	100%	0	(a) (b)	-5	94.0	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Winch (electric)	CNP 262	1	95	100%	0	(b)	-10	85.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0	(b)	-10	88.0	-	-
							Total	95.5	0.0	0.0

Max Noise Level
101.0

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
AEIAR-052/2002: Noise level of PME extracted from the Approved EIA Report in the Register: AEIAR-052/2002
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 30 and 60 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 6 - Construction of Fan Kwai Tong Sewage Pumping Station

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance										
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
							Total	89.0	0.0	0.0
Stage 2 - Pilling										
Hydraulic Vibratory Driver for driving Sheet Piling	BS D4/12	1	94	100%	0	(a) (b)	-10	84.0	-	-
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	92.5	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
							Total	93.2	0.0	0.0
Stage 3 - Excavation										
Breaker, hand-held, mass≥20kg and ≤35kg	CNP 025	1	111	100%	0	(b)	-10	101.0	-	-
Excavator	BS C4/65	1	99	100%	0	(a) (b)	-5	-	94.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	-	79.0	79.0
Dumper	BS D3/98	1	101	100%	0	(b)	-5	-	-	96.0
Crane, mobile mounted - 2	BS C4/50	1	99	70%	-2	(a) (b)	-5	-	92.5	92.5
Submersible Pump	CNP 283	1	85	100%	0	(b)	-10	-	75.0	75.0
Welding Machine	*AEIAR 052/2002	1	78	60%	-2	(b)	-10	-	65.8	-
							Total	101.0	96.4	97.7
Stage 4 - Steel fixing and conreting for structure										
Bar bender and cutter (electric)	CNP 021	1	90	30%	-5	(b)	-15	69.8	-	-
Concrete Pump	CNP 047	1	109	100%	0	(b)	-10	-	99.0	-
Saw, circular, wood	CNP 201	1	108	100%	0	(b)	-10	98.0	-	-
Poker, vibratory, hand-held	BS C4/34	1	97	100%	0	(a) (b)	-15	-	82.0	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	79.0	-
							Total	98.1	99.1	0.0
Stage 5 - Backfilling and Soil Compaction										
Vibratory Compactor	QPME EPD 00055	1	102	100%	0	(a) (b)	-10	92.0	-	-
Backhoe (mini)	CNP 082	1	94	100%	0	(b)	-5	89.0	-	-
							Total	93.8	0.0	0.0
Stage 6 - Installation of E&M equipments										
Crane, mobile mounted	BS C4/50	1	99	100%	0	(a) (b)	-5	94.0	-	-
Generator	BS C4/78	1	94	100%	0	(a) (b)	-15	79.0	-	-
Winch (electric)	CNP 262	1	95	100%	0	(b)	-10	85.0	-	-
Drill/grinder, hand-held	CNP 065	1	98	100%	0	(b)	-10	88.0	-	-
							Total	95.5	0.0	0.0

Max Noise Level
101.0

Remarks:
(a) Use of Quiet PME; (b) Use of Temporary Barrier
*EPD - Details extracted from EPD website: http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf
AEIAR-052/2002: Noise level of PME extracted from the Approved EIA Report in the Register: AEIAR-052/2002
Due to space constraint, concrete will be delivered manually from the temporary working area for the construction of trunk sewer, sewer and rising main; and upgrading of existing sewer in the villages.
Certain PMEs will be operated on site for a short period of time for the proposed works tasks. A 30 and 60 percentage on-time has been given accordingly.

Construction Plant Inventory - Mitigated Scenario
Work Type 7 - Temporary Workings Area

Mitigated

Project Specific PME Item	TM Ref./ other Ref	No. of Items	SWL, dB(A)	On-time %	On-time Cor.	Mitigation	Barrier Cor.	Total SWL, dB(A)	Total SWL, dB(A)
Stage 1 - Site Clearance									
Backhoe (mini)	CNP 082	1	94	100%	0	-	0	94.0	-
					Total			94.0	0.0
Stage 2 - Operation of concrete mixer									
Concrete mixer (petrol)	CNP 046	1	96	100%	0	-	0	96.0	-
					Total			96.0	0.0

Max Noise Level
96.0