

Appendix 4.10 Construction Plant Inventory during Non-Restricted Hours (Mitigated Scenario)

Scenario:

Mitigated ▼

**Activity**

**1 - Site Clearance / Set-up / Plant Mobilization / Tree Felling and Transplanting Works**

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Excavator, wheeled/tracked	EPD-08247	2	87	100%	-5	Movable Noise Barrier	85
Saw, circular, wood	CNP 201	1	108	100%	-10	Barrier	98
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Loader, wheeled	EPD-12047	1	101	100%	-5	Movable Noise Barrier	96
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>Total SWL</b>							<b>102</b>

**2 - Utilities Protection and Diversion Works**

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Excavator, wheeled/tracked	EPD-08247	2	87	100%	-5	Movable Noise Barrier	85
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Loader, wheeled	EPD-12047	1	101	100%	-5	Movable Noise Barrier	96
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>Total SWL</b>							<b>99</b>

**3 - Slopework**

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Excavator, wheeled/tracked	EPD-08247	2	87	100%	-5	Movable Noise Barrier	85
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Air Compressor	EPD-07503	2	92	100%	-10	Barrier	85
Drill rig, rotary type (diesel)	OCUPME-15	2	110	100%	-10	Noise insulating fabric	103
Grout Mixer	OCUPME-21	2	90	100%	-10	Barrier	83
Grout Pump	OCUPME-22	2	105	100%	-10	Barrier	98
Lorry	OCUPME-44	2	105	100%	-10	Barrier	98
<b>Total SWL</b>							<b>105</b>

**4 - Piling Works**

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Air Compressor	EPD-07503	1	92	100%	-10	Barrier	82
Water Pump, submersible (electric)	CNP 283	1	85	100%	-10	Barrier	75
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
<b>SWL (General)</b>							<b>88</b>
<b>Group A [3]</b>							
Drill rig, rotary type (diesel)	OCUPME-15	1	110	80%	-10	Noise insulating fabric	99
Dump Truck	OCUPME-46	1	105	70%	-5	Movable Noise Barrier	98
<b>SWL (Group)</b>							<b>102</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	70%	-10	Barrier	97
Concrete mixer	CNP 045	1	96	70%	-10	Barrier	84
Concrete Pump	CNP 047	1	109	70%	-10	Barrier	97
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	Barrier	93
<b>SWL (Group)</b>							<b>101</b>
<b>Total SWL (General + Group A)</b>							<b>102</b>

**5 - Pile Caps and Piers**

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Air Compressor	EPD-07503	1	92	100%	-10	Barrier	82
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
Lorry	OCUPME-44	1	105	70%	-10	Barrier	93
Excavator, wheeled/tracked	EPD-08247	1	87	100%	-5	Movable Noise Barrier	82
Silent piling by press-in method	[8]	1	94	100%	-10	Barrier	84
<b>SWL (General)</b>							<b>96</b>
<b>Group A [3]</b>							
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	Barrier	80
Saw, circular, wood	CNP 201	1	108	100%	-10	Barrier	98
<b>SWL (Group)</b>							<b>98</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	70%	-10	Barrier	97
Concrete Pump	CNP 047	1	109	70%	-10	Barrier	97
Poker, vibratory, hand-held	OCUPME-27	1	102	70%	-10	Barrier	90
<b>SWL (Group)</b>							<b>101</b>
<b>Total SWL (General + Group B)</b>							<b>102</b>

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Activity

6 - Bridge Deck

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	4	80	100%	-15	Enclosure	71
Crawler Crane, mobile (diesel)	BS C7/112 [5]	1	102	100%	-5	Movable Noise Barrier	97
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
Lorry	OCUPME-44	1	105	70%	-10	Barrier	93
<b>SWL (General)</b>							<b>99</b>
<b>Group A [3]</b>							
Bar bender and cutter (electric)	CNP 021	1	90	100%	-10	Barrier	80
Saw, circular, wood	CNP 201	1	108	100%	-10	Barrier	98
<b>SWL (Group)</b>							<b>98</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	70%	-10	Barrier	97
Concrete mixer	CNP 045	1	96	70%	-10	Barrier	84
Concrete Pump	CNP 047	1	109	70%	-10	Barrier	97
Poker, vibratory, hand-held	OCUPME-27	2	102	70%	-10	Barrier	93
<b>SWL (Group)</b>							<b>101</b>
<b>Total SWL (General + Group B)</b>							<b>103</b>

7 - Roadworks, Drainage & Utilities

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Excavator, wheeled/tracked	EPD-08247	1	87	100%	-5	Movable Noise Barrier	82
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>Total SWL</b>							<b>96</b>

8 - Pavement

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
Loader, wheeled	EPD-12047	1	101	100%	-5	Movable Noise Barrier	96
Asphalt Paver	EPD-01226R	1	104	100%	-10	Barrier	94
Roller, vibratory	EPD-09720	1	94	100%	-5	Movable Noise Barrier	89
Paint line marker	OCUPME-30	1	87	100%	-5	Movable Noise Barrier	82
<b>Total SWL</b>							<b>100</b>

9 - Modification of Existing Bridge Structure of Tsuen Wan Road for Connection

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Air Compressor	EPD-07503	2	92	100%	-10	Barrier	85
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
Hand Held Concrete Crusher	[9]	1	94	100%	-10	Barrier	84
Dump truck with grab	OCUPME-47	1	105	100%	-5	Movable Noise Barrier	100
<b>Total SWL</b>							<b>101</b>

10 - Demolition of Existing Downramp

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
Hand Held Concrete Crusher	[9]	1	94	100%	-10	Barrier	84
Dump truck with grab	OCUPME-47	1	105	100%	-5	Movable Noise Barrier	100
<b>Total SWL</b>							<b>101</b>

11 - Noise Barriers / Enclosures

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Cherry Picker	BS C4/54 [7]	1	107	100%	-5	Movable Noise Barrier	102
Lorry	OCUPME-44	2	105	100%	-10	Barrier	98
Crane, mobile	EPD-07647	2	92	100%	-5	Movable Noise Barrier	90
Welding Set	[4]	2	78	100%	-10	Barrier	71
<b>Total SWL</b>							<b>104</b>

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Activity

12 - Modification of Underpass

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	6	80	100%	-15	Enclosure	73
Crawler Crane, mobile (diesel)	BS C7/112 [5]	1	102	100%	-5	Movable Noise Barrier	97
Water Pump, submersible (electric)	CNP 283	6	85	100%	-10	Barrier	83
Hand Held Concrete Crusher	[9]	2	94	100%	-10	Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>SWL (General)</b>							<b>99</b>
<b>Group A [3]</b>							
Bar bender and cutter (electric)	CNP 021	4	90	100%	-10	Barrier	86
Saw, circular, wood	CNP 201	2	108	100%	-10	Barrier	101
<b>SWL (Group)</b>							<b>101</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	100%	-10	Barrier	99
Concrete mixer	CNP 045	1	96	100%	-10	Barrier	86
Concrete Pump	CNP 047	1	109	100%	-10	Barrier	99
Poker, vibratory, hand-held	OCUPME-27	2	102	100%	-10	Barrier	95
<b>SWL (Group)</b>							<b>103</b>
<b>Total SWL (General + Group B)</b>							<b>105</b>

13 - Modification of Footbridge

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	6	80	100%	-15	Enclosure	73
Crawler Crane, mobile (diesel)	BS C7/112 [5]	1	102	100%	-5	Movable Noise Barrier	97
Water Pump, submersible (electric)	CNP 283	6	85	100%	-10	Barrier	83
Hand Held Concrete Crusher	[9]	2	94	100%	-10	Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>SWL (General)</b>							<b>99</b>
<b>Group A [3]</b>							
Bar bender and cutter (electric)	CNP 021	4	90	100%	-10	Barrier	86
Saw, circular, wood	CNP 201	2	108	100%	-10	Barrier	101
<b>SWL (Group)</b>							<b>101</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	100%	-10	Barrier	99
Concrete mixer	CNP 045	1	96	100%	-10	Barrier	86
Concrete Pump	CNP 047	1	109	100%	-10	Barrier	99
Poker, vibratory, hand-held	OCUPME-27	2	102	100%	-10	Barrier	95
<b>SWL (Group)</b>							<b>103</b>
<b>Total SWL (General + Group B)</b>							<b>105</b>

14 - Retaining Structures for At-grade Road

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	4	80	100%	-15	Enclosure	71
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hand Held Concrete Crusher	[9]	1	94	100%	-10	Barrier	84
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
Water Pump, submersible (electric)	CNP 283	4	85	100%	-10	Barrier	81
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
<b>SWL (General)</b>							<b>97</b>
<b>Group A [3]</b>							
Bar bender and cutter (electric)	CNP 021	2	90	100%	-10	Barrier	83
Saw, circular, wood	CNP 201	1	108	100%	-10	Barrier	98
<b>SWL (Group)</b>							<b>98</b>
<b>Group B [3]</b>							
Concrete lorry mixer	CNP 044	1	109	100%	-10	Barrier	99
Concrete mixer	CNP 045	1	96	100%	-10	Barrier	86
Concrete Pump	CNP 047	1	109	100%	-10	Barrier	99
Poker, vibratory, hand-held	OCUPME-27	2	102	100%	-10	Barrier	95
<b>SWL (Group)</b>							<b>103</b>
<b>Total SWL (General + Group B)</b>							<b>104</b>

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Scenario:

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Activity

15 - Removal of Existing Noise Barrier along Tsing Tsuen Road

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Generator, Silenced	EPD-08951	3	80	100%	-15	Enclosure	70
Air Compressor	EPD-07503	2	92	100%	-10	Barrier	85
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Hydraulic Crusher	[9]	1	94	100%	-5	Movable Noise Barrier	89
Hand Held Concrete Crusher	[9]	2	94	100%	-10	Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
<b>Total SWL</b>							<b>97</b>

16 - Dismantling Existing Parapet and Installation of New Profile Barrier

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
<b>General</b>							
Generator, Silenced	EPD-08951	2	80	100%	-15	Enclosure	68
Crane, mobile	EPD-07647	1	92	100%	-5	Movable Noise Barrier	87
Lorry	OCUPME-44	1	105	100%	-10	Barrier	95
Dump truck with grab	OCUPME-47	1	105	100%	-5	Movable Noise Barrier	100
Loader, wheeled	EPD-12047	1	101	100%	-5	Movable Noise Barrier	96
Asphalt Paver	EPD-01226R	1	104	100%	-10	Barrier	94
Roller, vibratory	EPD-09720	1	94	100%	-5	Movable Noise Barrier	89
Paint line marker	OCUPME-30	1	87	100%	-5	Movable Noise Barrier	82
<b>SWL (Group)</b>							<b>103</b>

17 - Modification of Tsuen Tsing Interchange Roundabout

PME	TM Ref./ other Ref [1][2]	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Barrier Type	Sub-total SWL
Paint line marker	OCUPME-30	1	87	100%	-5	Movable Noise Barrier	82
<b>Total SWL</b>							<b>82</b>

Remarks

- [1] Reference of CNP refers to Table 3 of EPD's Technical Memorandum on Noise from Construction Work Other Than Percussive Piling.
- [2] Reference of OCUPME refer to EPD's guidance "Sound power levels of other commonly used PME" ([https://www.epd.gov.hk/epd/sites/default/files/epd/english/application\\_for\\_licences/guidance/files/OtherSWLe.pdf](https://www.epd.gov.hk/epd/sites/default/files/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)).
- [3] Only one PME Group will be operating at the same time.
- [4] Reference is made to the approved EIA Report of Road Works at West Kowloon (EIA-175/2009).
- [5] Reference is made to the approved EIA Report of West Island Line (EIA-153/2008).
- [6] Reference is made to the approved EIA Report of Revised Trunk Road T4 in Sha Tin (EIA-273/2021).
- [7] Reference is made to the approved EIA Report of Sha Tin Cavern Sewage Treatment Works (EIA-240/2016).
- [8] Reference is made to EPD website on "Quieter Construction Methods" ([https://www.epd.gov.hk/epd/misc/construction\\_noise/contents/index.php/en/home2/quieter-construction-equipment/item/27-press-in-method.html](https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-equipment/item/27-press-in-method.html))
- [9] Reference is made to EPD website on "Quiet Construction Equipment" ([https://www.epd.gov.hk/epd/misc/construction\\_noise/contents/index.php/en/home2/quieter-construction-equipment.html](https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/home2/quieter-construction-equipment.html))