

**Appendix 4.5 Construction Plant Inventory (Mitigated Scenario)**

**1. Road Works**

**1a - Road Widening**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Lorry	OCUPME-42	1	105	100%	-5	100
Excavator	EPD-13453	1	91	100%	-5	86
Generator, Silenced	EPD-13286	1	88	100%	-15	73
Breaker, hand-held, mass > 10kg and < 20kg	EPD-12721	1	99	100%	-10	89
Dump Truck	OCUPME-46	1	105	100%	-5	100
<b>Total SWL</b>						<b>103</b>

**1b - Road paving**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Asphalt paver	EPD-12854	1	104	100%	-5	99
Road Roller	EPD-13135	1	97	100%	-5	92
Dump Truck	OCUPME-46	1	105	50%	-5	97
Paint line marker	OCUPME-30	1	87	100%	-5	82
<b>Total SWL</b>						<b>102</b>

**1c - Piers**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Generator, Silenced	EPD-13286	1	88	100%	-15	73
Air compressor	EPD-13031	2	94	100%	-15	82
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	-15	91
Poker, vibratory, hand-held	OCUPME-27	1	102	50%	-10	89
Lorry	OCUPME-42	1	105	100%	-5	100
Crane, mobile/barge mounted (diesel)	EPD-13334	1	89	100%	-5	84
Bar bender and cutter (electric)	CNP 021	1	90	80%	-10	79
<b>Total SWL</b>						<b>101</b>

**1d - Bridge Decks**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Generator, Silenced	EPD-13286	1	88	100%	-15	73
Air compressor	EPD-13031	2	94	100%	-15	82
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	-15	91
Poker, vibratory, hand-held	OCUPME-27	1	102	50%	-10	89
Lorry	OCUPME-42	1	105	100%	-5	100
Crane, mobile/barge mounted (diesel)	EPD-13334	1	89	100%	-5	84
Bar bender and cutter (electric)	CNP 021	1	90	80%	-10	79
<b>Total SWL</b>						<b>101</b>

**2. Demolition**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Lorry	OCUPME-42	1	105	100%	-5	100
Generator, Silenced	EPD-13286	1	88	100%	-15	73
Air compressor	EPD-13031	1	94	100%	-15	79
Quieter Type Blade Saw	[3]	1	106	100%	-10	96
<b>Total SWL</b>						<b>101</b>

**3. Geotechnical Work**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Excavator, mini-robot mounted	OCUPME-16	1	94	70%	-5	87
Generator, Silenced	EPD-13286	1	88	70%	-15	71
Air compressor	EPD-13031	1	94	70%	-15	77
Silent Piling by Press-in Method	[4]	1	94	50%	-10	81
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	-15	91
Poker, vibratory, hand-held	OCUPME-27	1	102	50%	-10	89
Lorry	OCUPME-42	1	105	100%	-5	100
Crane, mobile/barge mounted (diesel)	EPD-13334	1	89	50%	-5	81
Bar bender and cutter (electric)	CNP 021	1	90	80%	-10	79
<b>Total SWL</b>						<b>101</b>

**Appendix 4.5 Construction Plant Inventory (Mitigated Scenario)**

**4. Pile Wall Construction**

PME	TM Ref./ other Ref <sup>[1][2]</sup>	No. of Items	SWL/ Item, dB(A)	Utilization Rate (%)	Barrier Correction, dB(A)	Sub-total SWL, dB(A)
Crane, mobile/barge mounted (diesel)	EPD-13334	1	89	50%	-10	76
Drill rig, rotary type (diesel)	OCUPME-15	1	110	50%	-15	92
Rock drill, crawler mounted (hydraulic)	[5]	1	108	50%	0	105
Lorry	OCUPME-42	1	105	100%	-5	100
Air compressor	EPD-13031	1	94	70%	-15	77
Excavator/loader, wheeled/tracked	EPD-13453	1	91	50%	-5	83
Concrete pump, stationary/lorry mounted	CNP 047	1	109	50%	-15	91
<b>Total SWL</b>						<b>107</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] Reference was made to EPD's website on quieter construction equipment. ([https://www.epd.gov.hk/epd/misc/construction\\_noise/contents/index.php/en/demolition/item/85-quieter-type-blade-saw.html](https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/demolition/item/85-quieter-type-blade-saw.html))
- [4] Reference was made to EPD's website on quieter construction method. ([https://www.epd.gov.hk/epd/misc/construction\\_noise/contents/index.php/en/foundation-works/item/27-press-in-method.html](https://www.epd.gov.hk/epd/misc/construction_noise/contents/index.php/en/foundation-works/item/27-press-in-method.html))
- [5] Reference was made to the approved EIA Report for Tsim Sha Tsui Station Northern Subway (EIA-154/2008).