

Appendix 4.4 Proposed Construction Plant Inventory without Mitigation Measures

1 Site Clearance

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Backhoe	CNP 081	1	112	100%	0	112
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						112

2 Excavation and Lateral Support (ELS)

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Backhoe	CNP 081	2	112	30%	0	110
Breaker, hand-held, mass > 35kg	CNP 026	1	114	30%	0	109
Dump Truck with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	OCNP	1	105	50%	0	102
Water Pump, Submersible (Electric)	CNP 283	4	85	80%	0	90
Piling, oscillator	CNP 165	1	115	80%	0	114
Mobile Crane	CNP 048	1	112	40%	0	108
Drill/Grinder, Hand-held (Electric)	CNP 065	1	98	40%	0	94
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	OCNP	1	105	30%	0	100
Air compressor, air flow > 10m ³ /min and ≤ 30 m ³ /min	CNP 002	2	102	80%	0	104
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	2	95	100%	0	98
Total, dB(A)						117

3 Bulk Excavation

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Backhoe	CNP 081	1	112	70%	0	110
Breaker, hand-held, mass > 35kg	CNP 026	1	114	70%	0	112
Dump Truck with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	OCNP	1	105	50%	0	102
Roller, Vibratory	CNP 186	1	108	70%	0	106
Water Pump, Submersible (Electric)	CNP 283	4	85	100%	0	91
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						115

4 Steel Fixing and Concreting of Structure

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Mobile crane	CNP 048	1	112	30%	0	107
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	OCNP	1	105	30%	0	100
Bar bender and cutter	CNP 021	1	90	70%	0	88
Poker, vibratory, hand-held (electric)	OCNP	1	102	100%	0	102
Concrete lorry mixer	CNP 044	1	109	70%	0	107
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						111

5 Backfilling

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Backhoe	CNP 081	1	112	30%	0	107
Dump Truck with grab, 5.5 tonne < gross vehicle weight ≤ 38 tonne	OCNP	1	105	50%	0	102
Roller, Vibratory	CNP 186	1	108	30%	0	103
Water Pump, Submersible (Electric)	CNP 283	1	85	80%	0	84
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						109

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6 E&M Installations & Pipeworks

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Mobile crane	CNP 048	1	112	30%	0	107
Lorry, with crane/grab, 5.5 tonne < gross vehicle weight <= 38 tonne	OCNP	1	105	30%	0	100
Drill/Grinder, Hand-held (Electric)	CNP 065	1	98	80%	0	97
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						108

7 Finishing and Landscape Works

Powered Mechanical Equipment	Reference ^[1]	No. of Items	SWL/Item, dB(A)	On-Time %	Barrier Correction, dB(A)	Total SWL, dB(A)
Backhoe	CNP 081	1	112	30%	0	107
Mobile crane	CNP 048	1	112	30%	0	107
Poker, vibratory, hand-held (electric)	OCNP	1	102	60%	0	100
Concrete lorry mixer	CNP 044	1	109	60%	0	107
Breaker, hand-held, mass > 35kg	CNP 026	1	114	50%	0	111
Generator, super silenced, 70dB(A) at 7m ^[2]	CNP 103	1	95	100%	0	95
Total, dB(A)						114

Notes:

- [1] CNP – Table 3, Technical Memorandum on Noise from Construction Work Other than Percussive Piling (GW-TM)
 OCNP – "Sound power levels of other commonly used PME" issued by EPD
 (http://www.epd.gov.hk/epd/english/application_for_licences/guidance/files/OtherSWLe.pdf)
- [2] Electricity generator is used for general purpose.