

Appendix 3.5

Proposed Construction Plant Inventory and their Respective Sound Power Levels for Various Construction Activities (Mitigated Scenario)

Reclamation

Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Dredger	CNP 063	2	112	100%	0	115
Tug Boats	CNP 221	6	110	100%	0	118
Generators <sup>[1]</sup>	CNP 103	1	95	100%	0	95
Air Compressors	CNP 003	1	104	100%	0	104
Total						120

Filling for Sloping / Vertical Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Derrick Lighters	CNP 061	2	104	100%	0	107
Tug Boats	CNP 221	2	110	100%	0	113
Generators	CNP 101	1	108	100%	0	108
Air Compressors	CNP 003	1	104	100%	0	104
Total						115

Construct Sloping / Vertical Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Derrick Lighters	CNP 061	2	104	100%	0	107
Tug Boats	CNP 221	2	110	100%	0	113
Generators	CNP 101	1	108	100%	0	108
Air Compressors	CNP 003	1	104	100%	0	104
Total						115

Filling Behind Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
D9 Dozer	BS C3/27	1	109	100%	0	109
Excavators	CNP 081	2	112	100%	0	115
Backhoes	CNP 081	4	112	100%	0	118
Dump Trucks <sup>[1]</sup>	BS C9/27	10	105	100%	0	115
Generators <sup>[1]</sup>	CNP 103	3	95	100%	0	100
Air Compressors	CNP 003	5	104	100%	0	111
Total						122

Demolish Existing Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Derrick Lighters	CNP 061	2	104	100%	0	107
Tug Boats	CNP 221	2	110	100%	0	113
Generators	CNP 101	1	108	100%	0	108
Air Compressors	CNP 003	1	104	100%	0	104
Total						115

Surcharging Period

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
D9 Dozer	BS C3/27	1	109	100%	0	109
Excavators	CNP 081	2	112	100%	0	115
Backhoes	CNP 081	4	112	100%	0	118
Dump Trucks <sup>[1]</sup>	BS C9/27	10	105	100%	0	115
Generators <sup>[1]</sup>	CNP 103	3	95	100%	0	100
Air Compressors	CNP 003	5	104	100%	0	111
Total						122

Remove Surcharge

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
D9 Dozer	BS C3/27	1	109	100%	0	109
Excavators	CNP 081	2	112	100%	0	115
Backhoes	CNP 081	4	112	100%	0	118
Dump Trucks <sup>[1]</sup>	BS C9/27	10	105	100%	0	115
Generators <sup>[1]</sup>	CNP 103	3	95	100%	0	100
Air Compressors	CNP 003	5	104	100%	0	111
Total						122

## Slip Road 5 / Slip Road 6

### Substructure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Piling Rigs	CNP 164	3	115	100%	0	120
Backhoes	CNP 081	3	112	100%	0	117
Dump Trucks	CNP 067	3	117	100%	0	122
30T Mobile Cranes	CNP 048	3	112	100%	0	117
Generators	CNP 101	3	108	100%	0	113
Air Compressors	CNP 003	5	104	100%	0	111
<b>Total</b>						<b>126</b>

### Superstructure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
100T Mobile Cranes	CNP 048	2	112	100%	0	115
Trailer + Tractor	CNP 222	1	118	100%	0	118
Generators	CNP 101	3	108	100%	0	113
Air Compressors	CNP 003	5	104	100%	0	111
<b>Total</b>						<b>121</b>

### Steel decking section

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
30T Mobile Cranes	CNP 048	2	112	100%	0	115
Welding Sets	EIA**	4	78	100%	0	84
Generators	CNP 101	3	108	100%	0	113
Air Compressors	CNP 003	5	104	100%	0	111
<b>Total</b>						<b>118</b>

### At Grade Road Section and Remaining Roadworks

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Paver	BS C8/24	1	101	100%	0	101
Rubber Tyre Roller	CNP 185	1	108	100%	0	108
10T Roller	CNP 185	1	108	100%	0	108
Generators	CNP 101	3	108	100%	0	113
Air Compressors	CNP 003	5	104	100%	0	111
<b>Total</b>						<b>117</b>

### Road A

#### Roadworks and Surfacing

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. of Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Paver	BS C8/24	1	101	100%	0	101
Rubber Tyre Roller	CNP 185	1	108	100%	0	108
10T Roller	CNP 185	1	108	100%	0	108
Generators	CNP 101	3	108	100%	0	113
Air Compressors	CNP 003	5	104	100%	0	111
<b>Total</b>						<b>117</b>

Note:

[1]. Use of Quiet PME

EIA\*\* - SWL of PME is based on the Sheung Shui To Lok Ma Chau Spur Line EIA Final Report (January 2002)