

Appendix 4.6 Construction Plant Inventory for SCL Protection Works at CBTS - Mitigated Scenario

Plant Inventory for Construction Noise Assessment - SCL Protection Works at CBTS

Scenario: Mitigated ▼

Package: SCL Protection Works at CBTS

SCL Protection Work at CBTS (reference to CWB EIA, EIA-141/2007)

Dredging (= Removal Temp. Seawall)

(1/5/2012 - 31/5/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Grab Dredger	CNP 063	2	112	100%	0	115
Tug boat	CNP 221	2	110	100%	0	113
Barges	-	4	0	100%	0	0
Overall Noise Level, dB(A)						117.1

Temporary Seawall Construction

(1/6/2012 - 30/6/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Derrick Barge	CNP 061	2	104	100%	0	107
Tug boat	CNP 221	1	110	100%	0	110
Crane*	Table C7/114	2	101	100%	0	104
Barges	-	2	0	100%	0	0
Overall Noise Level, dB(A)						112.4

Filling behind Temporary Seawall

(1/7/2012 - 31/8/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Derrick Barge	CNP 061	2	104	100%	0	107
Barge	-	2	0	100%	0	0
Tug Boat	CNP 221	2	110	100%	0	113
Bulldozer*	Table C9/2	2	104	100%	0	107
Overall Noise Level, dB(A)						114.8

Diaphragm Wall Construction

(1/7/2012 - 31/12/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane*	Table C7/114	4	101	100%	0	107
Excavator*#	Table C3/97	4	105	100%	-5	106
Dump Truck*	Table C9/27	8	105	100%	0	114
Concrete Pump*#	Table C6/36	4	106	100%	-10	102
Concrete Lorry Mixer*	Table C6/35	4	100	100%	0	106
Bentonite Plants#	CNP 162	4	105	100%	-5	106
Bar Bender#	CNP 021	2	90	100%	-10	83
Diaphragm Wall Rigs#	CNP 164	4	115	100%	-5	116
Overall Noise Level, dB(A)						119.2

Excavation

(1/12/2012 - 30/4/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator*#	Table C3/97	8	105	100%	-5	109
Dump Truck*	Table C9/27	24	105	100%	0	119
Overall Noise Level, dB(A)						119.2

Construction of Tunnel Box Structure

(1/2/2013 - 31/8/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane*	Table C7/114	2	101	100%	0	104
Concrete Pump*#	Table C6/36	4	106	100%	-10	102
Concrete Lorry Mixer*	Table C6/35	8	100	100%	0	109
Derrick Barge	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Poker Vibrator*#	Table C6/32	4	100	100%	-5	101
Bar Bender#	CNP 021	2	90	100%	-10	83
Air Compressor*#	Table C7/16	4	96	100%	-10	92
Overall Noise Level, dB(A)						114.2

Backfill

(1/9/2013 - 31/11/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator*#	TableC3/97	4	105	100%	-5	106
Bulldozer*#	TableC9/2	2	104	100%	0	107
Derrick Barge	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Roller*	TableC8/27	2	104	100%	0	107
Trucks*	TableC9/27	4	105	100%	0	111
Overall Noise Level, dB(A)						115.9

Construction of Temporary Seawall for Retained Reclamation

(1/11/2013 - 30/11/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Derrick Barge	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Crane*	Table C7/114	1	101	100%	0	101
Barges	-	1	0	100%	0	0
Overall Noise Level, dB(A)						111.4

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Plant Inventory for Construction Noise Assessment - SCL Protection Works at CBTS

Scenario: ▼

Package: SCL Protection Works at CBTS

Removal Temp. Reclamation (= Dredging)							(1/12/2013 - 31/12/2013)
PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL	
Grab Dredger	CNP 063	2	112	100%	0	115	
Tug boat	CNP 221	2	110	100%	0	113	
Barges	-	4	0	100%	0	0	
Overall Noise Level, dB(A)						117.1	

* Use of QPME

Use of Barrier

** EPD website (www.epd.gov.hk/cgi-bin/npg/qpme/search.gen.pl)

Note: No noise emits from barges during dredging.

Appendix 4.6 Construction Plant Inventory for SCL Protection Works at CBTS - Mitigated Scenario

Plant Inventory for Construction Noise Assessment - Temporary Relocation of Mooring Space at SE Corner of CBTS

Scenario:

Mitigated ▼

Package: Mooring Site at CBTS

Temporary Relocation of Mooring Space at SE Corner of CBTS

Dredging of SE Corner

(1/2/2012 - 30/4/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dredger, grab		CNP 063	1	112	100%	0	112
Derrick Barges		CNP 061	1	104	100%	0	104
Overall Noise Level, dB(A)							113

Plant Inventory for Construction Noise Assessment - Temporary Relocation of Jetty

Scenario:

Mitigated ▼

Package: Temporary Relocation of Jetty

Construction of New Temporary Jetty

Piling

(1/2/2012 - 29/2/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Piling, large diameter bored, grab and chisel	CNP 164	1	115	100%	0	115
Generator	CNP 103	1	95	100%	0	95
Water Pump	CNP 281	1	88	100%	0	88
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Air Compressor	BS D7/16	1	96	100%	0	96
Concrete Pump	BS D6/36	1	106	100%	0	106
Barge	-	1	0	100%	0	0
Overall Noise Level, dB(A)						117

Demolition of CWB Temporary Jetty

Demolition of CWB Temporary Jetty

(1/3/2012 - 31/3/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/97	1	105	100%	0	105
Hand-held Breaker	BS D2/10	1	110	100%	0	110
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Dump Truck	BS D9/27	1	105	100%	0	105
Crane	BS D7/114	1	101	100%	0	101
Overall Noise Level, dB(A)						115

Demolition of Temporary Jetty

Demolition of Temporary Jetty

(1/3/2014 - 31/3/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	BS D3/97	1	105	100%	0	105
Hand-held Breaker	BS D2/10	1	110	100%	0	110
Derrick Barges	CNP 061	1	104	100%	0	104
Tug boat	CNP 221	1	110	100%	0	110
Dump Truck	BS D9/27	1	105	100%	0	105
Crane	BS D7/114	1	101	100%	0	101
Overall Noise Level, dB(A)						115

Note: No noise emits from barges during dredging.