

Appendix 4.21
Powered Mechanical Equipment (PME) for
the Different Construction Tasks
during Restricted Hours
(With Mitigation Measures)

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Powered Mechanical Equipment (PME) for the Different Construction Tasks during Restricted Hours (With Mitigation Measures)

2 Wan Chai Reclamation

2.1 Wan Chai Reclamation Stage 1 (WCR1)

2.1.1 Dredging, Seawalls & Filling

2.1.1A Dredging(=Removal Temp. seawall)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	4	0.0	100.0%	0.0
Total					117.1

2.1.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

2.1.1C Filling behind seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

2.2 Wan Chai Reclamation Stage 2 (WCR2)

2.2.1 Dredging, Seawalls & Filling

2.2.1A Dredging(=Removal Temp. seawall)

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	6	0.0	100.0%	0.0
Total					117.1

2.2.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

2.2.1C Filling behind seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

*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.

2.3 Wan Chai Reclamation Stage 3 (WCR3)

2.3.1 Dredging, Seawalls & Filling

2.3.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	6	0.0	100.0%	0.0
Total					117.1

2.3.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ EPD-00064**	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	
Total					112.4

2.3.1C Filling behind Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	EPD-00064**	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

2.4 Wan Chai Reclamation Stage 4 (WCR4)

2.4.1 Dredging, Seawalls & Filling

2.4.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	6	0.0	100.0%	0.0
Total					117.1

2.4.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

2.4.1C Filling behind Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

*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.

2.5 Temporary Reclamation at PCWA Stage 1

2.5.1 Dredging , Seawalls & Filling (TPCWAE)

2.5.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	4	0.0	100.0%	0.0
Total					117.1

2.5.1B Temporary Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CMP221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

2.5.1C Filling behind seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

2.6 Temporary Reclamation at PCWA Stage 2

2.6.1 Dredging , Seawalls & Filling (TPCWAW)

2.6.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	4	0.0	100.0%	0.0
Total					117.1

2.6.1B Temporary Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

2.6.1C Filling behind seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Barge	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer*	Table C9/2	2	104.0	100.0%	107.0
Total					114.8

*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 4.21

Powered Mechanical Equipment (PME) for the Different Construction Tasks during Restricted Hours (With Mitigation Measures)

3 Hong Kong Convention and Exhibition Centre (HKCEC) Reclamation

3.1 HKCEC Reclamation Stage 1 (Water Channel)

3.1.1 Dredging, Seawalls & Filling

3.1.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	4	0.0	100.0%	0.0
Total					117.1

3.1.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	
Total					112.4

3.1.1C Filling behind Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104	100.0%	107.0
Barges	-	2	0	100.0%	0
Tug Boat	CNP221	2	110	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

3.1.2 Cooling Water Systems

Powered Mechanical Equipment (PME)	TableC3/97 other Ref.	No. Items	SWL/Item dB(A)	On-time %	Noise Barrier Reduction	Total SWL dB(A)
Crane*	TableC7/114	2	101.0	100.0%	0.00	104.0
Excavator*#	TableC3/97	2	105.0	100.0%	5.00	103.0
Breaker, excavator mounted*#	TableC8/13	2	110.0	100.0%	5.00	108.0
Dump Truck*	TableC9/27	2	105.0	100.0%	0.00	108.0
Concrete Lorry Mixer*	TableC6/35	2	100.0	100.0%	0.00	103.0
Poker Vibrator*#	TableC6/32	4	100.0	100.0%	5.00	101.0
Air Compressor*#	TableC7/16	2	96.0	100.0%	10.00	89.0
Compactor#	CNP 050	1	105.0	100.0%	5.00	100.0
Total						113.3

3.2 HKCEC Reclamation Stage 2

3.2.1 Dredging, Seawalls & Filling

3.2.1A Dredging

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	4	0.0	100.0%	0.0
Total					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.

3.2.1B Seawall Construction

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane *	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

3.2.1C Filling behind Seawall

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104	100.0%	107.0
Barges	-	2	0	100.0%	0
Tug Boat	CNP221	2	110	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

3.2.1D Demolition of Structure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Noise Barrier Reduction	Total SWL dB(A)
Breaker, excavator mounted*#	TableC8/13	2	110.0	100.0%	5.00	108.0
Excavator*#	TableC3/97	2	105.0	100.0%	5.00	103.0
Bulldozer*	TableC9/2	2	104.0	100.0%	0.00	107.0
Dump Truck*	TableC9/27	4	105.0	100.0%	0.00	111.0
Crane *	TableC7/114	1	101.0	100.0%	0.00	101.0
Total						114.4

3.4.1 Dredging, Seawalls & Filling

3.4.1A Dredging

HKCEC3W, 3Ea & 3Eb

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Grab Dredger	CNP 063	2	112.0	100.0%	115.0
Tug boat	CNP 221	2	110.0	100.0%	113.0
Barges	-	6	0.0	100.0%	0.0
Total					117.1

3.4.1B Seawall Construction

HKCEC3W & 3Eb

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104.0	100.0%	107.0
Tug boat	CNP 221	1	110.0	100.0%	110.0
Crane*	TableC7/114	2	101.0	100.0%	104.0
Barges	-	2	0.0	100.0%	0.0
Total					112.4

3.4.1C Filling behind Seawall

HKCEC3W, 3Ea & 3Eb

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Derrick Barge	CNP 061	2	104	100.0%	107.0
Barges	-	2	0	100.0%	0
Tug Boat	CNP221	2	110	100.0%	113.0
Bulldozer*	TableC9/2	2	104.0	100.0%	107.0
Total					114.8

3.4.2 Demolition of Structure

East Bridge

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Noise Barrier Reduction	Total SWL dB(A)
Breaker, excavator mounted*#	Table C8/13	2	110.0	100.0%	5.00	108.0
Excavator*#	TableC3/97	2	105.0	100.0%	5.00	103.0
Bulldozer*	TableC9/2	2	104.0	100.0%	0.00	107.0
Dump Truck*	Table C9/27	4	105.0	100.0%	0.00	111.0
Crane *	TableC7/114	1	101.0	100.0%	0.00	101.0
Total						114.4

*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.