

**Appendix 4.19**  
**Powered Mechanical Equipment (PME)**  
**for the Different Construction Tasks**  
**during Restricted Hours**  
**(Without Mitigation Measures)**

**Appendix 4.19**

**Powered Mechanical Equipment (PME) for the Different Construction Tasks during Restricted Hours (Without 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

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	CNP 030	2	115.0	100.0%	118.0
Total					119.5

**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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

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	CNP 030	2	115.0	100.0%	118.0
Total					119.5

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./ 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

##### 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	-	2	0.0	100.0%	0.0
Tug Boat	CNP 221	2	110.0	100.0%	113.0
Bulldozer	CNP 030	2	115.0	100.0%	118.0
Total					119.5

### 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

##### 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	CNP 030	2	115.0	100.0%	118.0
Total					119.5

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	CNP 221	1	110.0	100.0%	110.0
Crane	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

#### 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	CNP 221	2	115.0	100.0%	118.0
Total					119.5

## 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

#### 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	CNP 030	2	115.0	100.0%	118.0
Total					119.5

Note: No noise emits from barges during dredging.

**Appendix 4.19****Powered Mechanical Equipment (PME) for the Different Construction Tasks during Restricted Hours (Without 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

**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	CNP030	2	111.0	100.0%	114.0
Total					117.0

**3.1.2 Cooling Water Systems**

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Crane	CNP 048	2	112.0	100.0%	115.0
Excavator	CNP 081	2	112.0	100.0%	115.0
Breaker, excavator mounted	CNP 027	2	122.0	100.0%	125.0
Dump Truck	CNP 067	2	117.0	100.0%	120.0
Concrete Lorry Mixer	CNP 044	2	109.0	100.0%	112.0
Poker Vibrator	CNP 170	4	113.0	100.0%	119.0
Air Compressor	CNP 002	2	100.0	100.0%	103.0
Compactor	CNP 050	1	105.0	100.0%	105.0
Total					127.6

**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	-	6	0.0	100.0%	0.0
Total					117.1

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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

### 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	CNP030	2	115.0	100.0%	118.0
Total					119.5

### 3.2.1D Demolition of Structure

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Breaker	CNP 027	2	122.0	100.0%	125.0
Excavator	CNP 081	2	112.0	100.0%	115.0
Bulldozer	CNP 030	2	115.0	100.0%	118.0
Dump Truck	CNP 067	4	117.0	100.0%	123.0
Crane	CNP 048	1	112.0	100.0%	112.0
Total					128.0

## 3.4 HKCEC Reclamation Stage 3

### 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	CNP 048	2	112.0	100.0%	115.0
Barges	-	2	0.0	100.0%	0.0
Total					116.7

#### 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	CNP030	2	115.0	100.0%	118.0
Total					119.5

#### 3.4.2 Demolition of Structure

East Bridge

Powered Mechanical Equipment (PME)	TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Total SWL dB(A)
Breaker, excavator mounted	CNP 027	2	122.0	100.0%	125.0
Excavator	CNP 081	2	112.0	100.0%	115.0
Bulldozer	CNP 030	2	115.0	100.0%	118.0
Dump Truck	CNP 067	4	117.0	100.0%	123.0
Crane	CNP 048	1	112.0	100.0%	112.0
Total					128.0

Note: No noise emits from barges during dredging.