

Appendix 3.8 Powered Mechanical Equipment for Various Construction Activities (Mitigated - Use of Quiet PME and Movable Noise Barriers)

1. Site Clearance

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Backhoes	[1] [2]	BS C3/97	1	105	85%	5	99
Generator		CNP 103	1	95	100%	0	95
Dump Trucks	[1]	BS C9/39	1	103	50%	0	100
Total							103

2. Site Formation

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Backhoes	[1] [2]	BS C3/97	1	105	80%	5	99
Dump Trucks	[1]	BS C9/39	1	103	50%	0	100
10T Roller	[1] [2]	BS C8/30	1	101	85%	5	95
3T Roller	[1]	BS C8/25	1	96	85%	0	95
Total							104

3. Construct Retaining Walls

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Backhoes	[1] [2]	BS C3/97	2	105	90%	5	103
30T Cranes	[1] [2]	BS C7/112	2	102	90%	5	100
Total							104

4. Construct Bored Piles

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
100T cranes with oscillators and chisel	[2]	CNP 165	1	115	100%	5	110
Dump Trucks	[1]	BS C9/39	1	103	50%	0	100
Total							110

5. Construct Pilecaps, Abutments and Piers

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Backhoes	[1]	BS C3/97	1	105	90%	0	105
30T Cranes	[1]	BS C7/112	1	102	90%	0	102
Dump Trucks	[1]	BS C9/39	1	103	50%	0	100
Total							107

6. Erect Concrete Segments by Launching Girder

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
Launching Girder		EIA-2	1	102	90%	0	102
Segments Carriers	[1]	BS C3/59	2	105	65%	0	106
Total							107

7. Erect Concrete Segments by Mobile Crane

Powered Mechanical Equipment (PME)		TM Ref./ other Ref.	No. Items	SWL/Item dB(A)	On-time %	Barrier dB	Total SWL dB(A)
100T Mobile Cranes	[1] [2]	BS C7/105	1	108	90%	5	103
Segment Carriers	[1]	BS C3/59	1	105	65%	0	103
Total							106