

Appendix 4.4 Sample Calculation of Construction Noise Levels - Unmitigated Scenario

NSR: CH1 - Hoi Deen Court  
 Scenario: Unmitigated

Package	Construction Activity	Work Site No. <sup>[1]</sup>	SWL	Dist <sup>[2]</sup> (m)	SPL <sup>[3]</sup>	Building Screening	2011												2012												2013												2014					
							Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
<b>Construction Works under Project</b>																																																
<b>Protection Works at CBTS</b>	<b>Protection Work for CWB at CBTS</b>																																															
	Dredging (= Removal Temp. Seawall)	1501	117	95	73	0																																										
	Temporary Seawall Construction	1501	117	95	72	0													73																													
	Filling behind Temporary Seawall	1501	119	95	75	0																																										
	Diaphragm Wall Construction	1502	129	167	79	0																																										
	Excavation	1502	131	167	82	0																																										
	Construction of Tunnel Box Structure	1502	123	167	74	0																																										
	Backfill	1502	125	167	76	0																																										
	Construction of Temporary Seawall for Retained Reclamation	1502	115	167	65	0																																										
	Removal Temp. Reclamation (= Dredging)	1501	117	95	73	0																																										
<b>Mooring Site at SE Corner of CBTS</b>	<b>Temporary Relocation of Mooring Space at SE Corner of CBTS</b>																																															
	Mobilization <sup>[#]</sup>																																															
<b>Temporary Relocation of Jetty</b>	Dredging of SE Corner	1507	113	669	51	0																																										
	<b>Temporary Relocation of Jetty</b>																																															
	Mobilization <sup>[#]</sup>																																															
	Construction of New Temporary Jetty	1504	117	269	64	0																																										
<b>Remarks:</b>	Demolition of CWB Temporary Jetty	1505	121	105	75	0																																										
	Demolition of Temporary Jetty	1504	121	269	67	0																																										
<b>Overall Noise Level (SCL Protection Works, Leq (30min), dB(A))</b>																																																
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-												
							64	75	-	73	72	80	80	79	79	79	84	82	83	83	83	83	74	74	74	74	76	76	76	73	-	-	67	-	-	-	-											

Remarks:  
 [1] The Works Area with length to width ratio exceeding 5 : 1 is divided into Subareas.  
 [2] Noise source at more than 300m from the sensitive receiver are not considered in the noise assessment due to large distance attenuation effect.  
 [3] For the calculation of sound pressure levels (SPL), the PMEs are assumed to be placed at the notional source position according to the "Technical Memorandum on Noise from Construction Work other than Percussive Piling" by EPD.



