Agreement CE 63/2008 (CE)
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

Appendix 10.2a Construction Plant Inventory

Scenario N1

Powered Mechanical Equipment	TM Ref. / Other Ref.	SWL, dB(A)	Quantity	% on time	Total SWL, dB(A)
Works Area A					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
Works Area B					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
Works Area C					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge	CNP061	104	2	50%	104
				Overall	115

Scenario N2

Powered Mechanical Equipment	TM Ref. / Other Ref.	SWL, dB(A)	Quantity	% on time	Total SWL, dB(A)
Works Area B					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
Works Area D					
Use of cutter suction dredger					
Cutter Suction Dredger	CNP070	103	1	100%	103
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	112
Use of grab dredger					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
				Maximum SWL in Works Area D	115
Works Area E					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115

Scenario N3

Powered Mechanical Equipment	TM Ref. / Other Ref.	SWL, dB(A)	Quantity	% on time	Total SWL, dB(A)
Works Area A					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
Works Area B					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115
Works Area E					
Grab Dredger	CNP063	112	1	100%	112
Tug Boat	CNP221	110	1	100%	110
Barge / Derrick Barge*	CNP061	104	2	50%	104
				Overall	115

Note(*) Only 1 barge would be in operation at any time. Hence the %on-time is 50%.

Agreement CE 63/2008 (CE)
Providing Sufficient Water Depth for Kwai Tsing Container Basin and its Approach Channel

Appendix 10.2b Construction Noise Impact Associated with Dredging Activity

NSR: Cheung Ching Estate - Ching Tao House (CTH)
Land Use: Residential

Scenario N1

Noise Impact from Works Area	Total SWL, dB(A)	Distance between NSR and noise source, m[#]	Distance Correction	Facade Correction	Predicted SPL at NSR
A	115	575	-63	3	**54**
B	115	2384	-76	3	**42**
C	115	6235	-84	3	**34**

Overall Noise Impact : **55** dB(A)

Scenario N2

Noise Impact from Works Area	Total SWL, dB(A)	Distance between NSR and noise source, m[#]	Distance Correction	Facade Correction	Predicted SPL at NSR
B	115	2384	-76	3	**42**
D	115	720	-65	3	**52**
E	115	1562	-72	3	**46**

Overall Noise Impact : **54** dB(A)

Scenario N3

Noise Impact from Works Area	Total SWL, dB(A)	Distance between NSR and noise source, m[#]	Distance Correction	Facade Correction	Predicted SPL at NSR
A	115	575	-63	3	**54**
B	115	2384	-76	3	**42**
E	115	1562	-72	3	**46**

Overall Noise Impact : **55** dB(A)

Overall Noise Impact Against Relevant Noise Criteria

		Noise Criteria, dB(A)	Scenario		
			N1	N2	N3
Day time period[1]	0700 - 1900	75	Comply	Comply	Comply
Evening time period[2]	1900 - 2300	70	Comply	Comply	Comply
Night time period[3]	2300 - 0700	55	Comply	Comply	Comply

Note[#] Horizontal distance to the notional noise source position in the Works Area
Note[1] 0700 to 1900 on any day not being a Sunday or general hoilday
Note[2] All days during 1900 to 2300, and general hoildays including Sundays during 0700 to 2300
Note[3] All days during 2300 to 0700