

Annex B

Construction Plant Inventory

Table B1 - Plant Inventory for North Lantau (No mitigation measures)

North Lantau						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Reclamation	Grab dredger	CNP 063	2	112	0	115
	Derrick barges	CNP 061	2	104	0	107
	Tug boat	CNP 221	2	110	0	113
	Dump truck	CNP 067	3	117	0	122
					Total SWL	
Earthworks excavation at Sam Chuen	Rock drill	CNP 182	2	123	0	126
	Bulldozer	CNP 030	2	115	0	118
	Excavator	CNP 081	2	112	0	115
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	2	112	0	115
				Total SWL		128
Earthworks excavation at Fa Peng	Rock drill	CNP 182	2	123	0	126
	Bulldozer	CNP 030	2	115	0	118
	Excavator	CNP 081	2	112	0	115
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	2	112	0	115
				Total SWL		128
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	2	115	0	118
	Excavator	CNP 081	1	112	0	112
	Air compressor	CNP 001	1	100	0	100
	Concrete pump	CNP 047	1	109	0	109
	Dump truck	CNP 067	1	117	0	117
	Generator, standard	CNP 101	1	108	0	108
	Concrete lorry mixer	CNP 044	1	109	0	109
	Poker vibrator	CNP 170	1	113	0	113
	Bar bender and cutter	CNP 021	1	90	0	90
	Lorry	CNP 141	1	112	0	112
	Mobile crane	CNP 048	1	112	0	112
	Saw, circular, wood	CNP 201	1	108	0	108
					Total SWL	
Road pavement and finishes at Sam Chuen	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
				Total SWL		117
Road pavement and finishes at Fa Peng	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
				Total SWL		117

Table B2 - Plant Inventory for North Lantau (Use of quiet plant)

North Lantau		Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Reclamation	Grab dredger	CNP 063	2	112	0	115	
	Derrick barges	CNP 061	2	104	0	107	
	Tug boat	CNP 221	2	111	0	114	
	Dump truck	BS5228 C.9-29	3	109	0	114	
						Total SWL	119
Earthworks excavation at Sam Chuen	Rock drill	CNP 182	2	123	0	126	
	Bulldozer	BS5228 C.3-65	2	111	0	114	
	Excavator	BS5228 C.3-97	2	105	0	108	
	Dump truck	BS5228 C.9-29	2	109	0	112	
	Lorry	BS5228 C.9-27	2	105	0	108	
						Total SWL	127
Earthworks excavation at Fa Peng	Rock drill	CNP 182	2	123	0	126	
	Bulldozer	BS5228 C.3-65	2	111	0	114	
	Excavator	BS5228 C.3-97	2	105	0	108	
	Dump truck	BS5228 C.9-29	2	109	0	112	
	Lorry	BS5228 C.9-27	2	105	0	108	
						Total SWL	127
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	2	115		118	
	Excavator	BS5228 C.3-97	1	105	0	105	
	Air compressor	BS5228 C.7-25	1	98	0	98	
	Concrete pump	BS5228 C.6-36	1	106	0	106	
	Dump truck	BS5228 C.9-29	1	109	0	109	
	Generator, standard	BS5228 C.7-62	1	100	0	100	
	Concrete lorry mixer	BS5228 C.6-35	1	100	0	100	
	Poker vibrator	BS5228 C.6-32	1	100	0	100	
	Bar bender and cutter	CNP 021	1	90	0	90	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Mobile crane	BS5228 C.7-110	1	106	0	106	
	Saw, circular, wood	BS5228 C.7-78	1	106	0	106	
						Total SWL	120
	Road pavement and finishes at Sam Chuen	Ballast tamper	CNP 029	2	105	0	108
Compactor		CNP 050	1	105	0	105	
Road roller		BS5228 C.8-27	1	104	0	104	
Lorry		BS5228 C.9-27	1	105	0	105	
Asphalt Paver		BS5228 C.8-24	1	101	0	101	
Loader		BS5228 C.3-97	1	105	0	105	
						Total SWL	113
Road pavement and finishes at Fa Peng	Ballast tamper	CNP 029	2	105	0	108	
	Compactor	CNP 050	1	105	0	105	
	Road roller	BS5228 C.8-27	1	104	0	104	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Asphalt Paver	BS5228 C.8-24	1	101	0	101	
	Loader	BS5228 C.3-97	1	105	0	105	
						Total SWL	113
PME indicated as bold and <i>italics</i> denote : Use of Quiet Equipment							

Table B3 - Plant Inventory for North Lantau (Use of quiet plant and limiting no. of plant)

North Lantau						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Reclamation	Grab dredger	CNP 063	1	112	0	112
	Demck barges	CNP 061	1	104	0	104
	Tug boat	CNP 221	1	110	0	110
	<i>Dump truck</i>	BS5228 C.9-29	1	109	0	109
					Total SWL	116
Earthworks excavation at Sam Chuen	Rock drill	CNP 182	1	123	0	123
	<i>Bulldozer</i>	BS5228 C.3-65	1	111	0	111
	<i>Excavator</i>	BS5228 C.3-97	1	105	0	105
	<i>Dump truck</i>	BS5228 C.9-29	1	109	0	109
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105
				Total SWL	124	
Earthworks excavation at Fa Peng	Rock drill*	CNP 182	1	123	0	123
	<i>Bulldozer*</i>	BS5228 C.3-65	1	111	0	111
	<i>Excavator*</i>	BS5228 C.3-97	1	105	0	105
	<i>Dump truck*</i>	BS5228 C.9-29	1	109	0	109
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
				Total SWL	124	
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	1	115	0	115
	<i>Excavator</i>	BS5228 C.3-97	1	105	0	105
	<i>Air compressor</i>	BS5228 C.7-25	1	98	0	98
	<i>Concrete pump</i>	BS5228 C.6-36	1	106	0	106
	<i>Dump truck</i>	BS5228 C.9-29	1	109	0	109
	<i>Generator, standard</i>	BS5228 C.7-62	1	100	0	100
	<i>Concrete lorry mixer</i>	BS5228 C.6-35	1	100	0	100
	<i>Poker vibrator</i>	BS5228 C.6-32	1	100	0	100
	Bar bender and cutter	CNP 021	1	90	0	90
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105
	<i>Mobile crane</i>	BS5228 C.7-110	1	106	0	106
	<i>Saw, circular, wood</i>	BS5228 C.7-78	1	106	0	106
					Total SWL	118
Road pavement and finishes at Sam Chuen	Ballast tamper	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	<i>Road roller</i>	BS5228 C.8-27	1	104	0	104
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105
	<i>Asphalt Paver</i>	BS5228 C.8-24	1	101	0	101
	<i>Loader</i>	BS5228 C.3-97	1	105	0	105
				Total SWL	112	
Road pavement and finishes at Fa Peng	Ballast tamper	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	<i>Road roller</i>	BS5228 C.8-27	1	104	0	104
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105
	<i>Asphalt Paver</i>	BS5228 C.8-24	1	101	0	101
	<i>Loader</i>	BS5228 C.3-97	1	105	0	105
				Total SWL	112	
PME indicated as bold and <i>italics</i> denote : Use of Quiet Equipment						
*denote: Limited No. of PME to one item						

Table B4 - Plant Inventory for North Lantau (Use of quiet plant, limiting no. of plant and use of movable noise barriers)

North Lantau		Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Reclamation	Noise Source					
	Grab dredger	CNP 063	1	112	0	112
	Demck barges	CNP 061	1	104	0	104
	Tug boat	CNP 221	1	110	0	110
	Dump truck	BS5228 C.9-29	1	109	0	109
				Total SWL		116
Earthworks excavation at Sam Chuen	Rock drill	CNP 182	1	123	0	123
	Bulldozer	BS5228 C.3-65	1	111	0	111
	Excavator	BS5228 C.3-97	1	105	0	105
	Dump truck	BS5228 C.9-29	1	109	0	109
	Lorry	BS5228 C.9-27	1	105	0	105
					Total SWL	
Earthworks excavation at Fa Peng	Rock drill*	CNP 182	1	123	5	118
	Bulldozer*	BS5228 C.3-65	1	111	0	111
	Excavator*	BS5228 C.3-97	1	105	5	100
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
					Total SWL	
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	1	115	0	115
	Excavator	BS5228 C.3-97	1	105	0	105
	Air compressor	BS5228 C.7-25	1	98	0	98
	Concrete pump	BS5228 C.6-36	1	106	0	106
	Dump truck	BS5228 C.9-29	1	109	0	109
	Generator, standard	BS5228 C.7-62	1	100	0	100
	Concrete lorry mixer	BS5228 C.6-35	1	100	0	100
	Poker vibrator	BS5228 C.6-32	1	100	0	100
	Bar bender and cutter	CNP 021	1	90	0	90
	Lorry	BS5228 C.9-27	1	105	0	105
	Mobile crane	BS5228 C.7-110	1	106	0	106
	Saw, circular, wood	BS5228 C.7-78	1	106	0	106
					Total SWL	
Road pavement and finishes at Sam Chuen	Ballast tamper	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
					Total SWL	
Road pavement and finishes at Fa Peng	Ballast tamper	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
					Total SWL	
PME indicated as bold and <i>italics</i> denote : Use of Quiet Equipment						
*denote: Limited No. of PME to one item						

Table B5 - Plant Inventory for Tsing Lung Tau (No mitigation measures)

TSING LUNG TAU						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Tsing Lung Tau Tower						
Excavation of Seabed	Grab dredger	CNP 063	1	112	0	112
	Derrick barge	CNP 061	1	104	0	104
	Rock drill	CNP 181#	1	108	0	108
	Total SWL					
Caission Fitting						
	Derrick barge	CNP 061	2	104	0	107
	Tug boat	CNP 221	2	110	0	113
	Concrete pump	CNP 047	2	109	0	112
Total SWL						116
Formation of Bridge Tower						
	Tower cranes	CNP 049	2	95	0	98
	Concrete pump	CNP 047	2	109	0	112
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Poker vibrator	CNP 170	1	113	0	113
Total SWL						117
Reclamation						
	Grab dredger	CNP 063	2	112	0	115
	Derrick barges	CNP 061	2	104	0	107
	Tug boat	CNP 221	2	110	0	113
	Dump truck	CNP 067	3	117	0	122
Total SWL						123
Tsing Lung Tau Cable Anchorage						
Adit formation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Rock drill	CNP 182	2	123	0	126
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Breaker, excavator	CNP 027	2	122	0	125
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	4	112	0	118
Total SWL						130
Adit excavation						
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
Total SWL						121
Removal of spoil						
	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	2	112	0	115
	Derrick barge	CNP 061	1	104	0	104
Total SWL						115
Concreting						
	Concrete pump	CNP 047	2	109	0	112
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Poker vibrator	CNP 170	1	113	0	113
Total SWL						117
Cable Spinning						
	Convey belt	CNP 041	2	90	0	93

Table B5 - Plant Inventory for Tsing Lung Tau (No mitigation measures)

	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
	Generator	CNP 102	2	100	0	103
	Hoist	CNP 122	2	95	0	98
	Winch	CNP 262	2	95	0	98
					Total SWL	105
Viaduct Section						
Viaduct foundation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Piling	CNP 164	2	115	0	118
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Lorry	CNP 141	4	112	0	118
					Total SWL	123
Viaduct superstructure	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Mobile crane	CNP 048	2	112	0	115
	Lorry	CNP 141	2	112	0	115
					Total SWL	121
Road pavement and finishes	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
					Total SWL	117
Tai Lam Chung Tunnel						
Portal formation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Rock drill	CNP 182	2	123	0	126
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Breaker, excavator	CNP 027	2	122	0	125
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	4	112	0	118
					Total SWL	130
Tunnel excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
					Total SWL	121
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	4	112	0	118
	Derrick barge	CNP 061	1	104	0	104
					Total SWL	118
# denotes that 20dB(A) is deducted from the SWL of the conventional rock drill assuming the rock drill is operated under water and screened by derrick barge.						

Table B6 - Plant Inventory for Tsing Lung Tau (Use of Quiet Plant)

TSING LUNG TAU						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Tsing Lung Tau Tower						
Excavation of Seabed	Grab dredger	CNP 063	1	112	0	112
	Derrick barge	CNP 061	1	104	0	104
	Rock drill	CNP 181#	1	108	0	108
	Total SWL					
Caisson Fitting						
	Derrick barge	CNP 061	2	104	0	107
	Tug boat	CNP 221	2	110	0	110
	Concrete pump	BS5228 C.6-36	2	106	0	109
Total SWL						114
Formation of Bridge Tower						
	Tower cranes	CNP 049	2	95	0	98
	Concrete pump	BS5228 C.6-36	2	106	0	109
	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Poker vibrator	BS5228 C.6-32	1	100	0	100
Total SWL						111
Reclamation						
	Grab dredger	CNP 063	2	112	0	115
	Derrick barges	CNP 061	2	104	0	107
	Tug boat	CNP 221	2	110	0	113
	Dump truck	BS5228 C.9-29	3	109	0	114
Total SWL						119
Tsing Lung Tau Cable Anchorage						
Adit formation	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Rock drill	CNP 182	2	123	0	126
	Excavator	BS5228 C.3-97	2	105	0	108
	Loader	BS5228 C.3-97	2	105	0	108
	Breaker, excavator mounted	BS5228 C.2-4	2	119	0	122
	Dump truck	BS5228 C.9-29	2	109	0	112
	Lorry	BS5228 C.9-27	4	105	0	111
Total SWL						128
Adit excavation						
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
Total SWL						121
Removal of spoil						
	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	2	112	0	115
	Derrick barge	CNP 061	1	104	0	104
Total SWL						115
Concreting						
	Concrete pump	CNP 047	2	109	0	112
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Poker vibrator	CNP 170	1	113	0	113
Total SWL						117
Cable Spinning						
	Convey belt	CNP 041	2	90	0	93
	Generator	CNP 102	2	100	0	103
	Hoist	CNP 122	2	95	0	98
	Winch	CNP 262	2	95	0	98
Total SWL						105

Table B6 - Plant Inventory for Tsing Lung Tau (Use of Quiet Plant)

	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Section						
Viaduct foundation	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Piling	CNP 164	2	115	0	118
	Concrete pump	BS5228 C.6-36	2	106	0	109
	Poker vibrator	BS5228 C.6-32	2	100	0	103
	Lorry	BS5228 C.9-27	4	105	0	111
						Total SWL
Viaduct superstructure						
Viaduct superstructure	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Concrete pump	BS5228 C.6-36	2	106	0	109
	Poker vibrator	BS5228 C.6-32	2	100	0	103
	Mobile crane	BS5228 C.7-110	2	106	0	109
	Lorry	BS5228 C.9-27	2	105	0	108
						Total SWL
Road pavement and finishes						
Road pavement and finishes	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
						Total SWL
Tai Lam Chung Tunnel						
Portal formation	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Rock drill	CNP 182	2	123	0	126
	Excavator	BS5228 C.3-97	2	105	0	108
	Loader	BS5228 C.3-97	2	105	0	108
	Breaker, excavator mounted	BS5228 C.2-4	2	119	0	122
	Dump truck	BS5228 C.9-29	2	109	0	112
	Lorry	BS5228 C.9-27	4	105	0	111
						Total SWL
Tunnel excavation						
Tunnel excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
						Total SWL
Removal of spoil						
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	4	112	0	118
	Derrick barge	CNP 061	1	104	0	104
					Total SWL	118
PME indicated as bold & italics denote: Use of Quiet Equipment						
# denotes that 20dB(A) is deducted from the SWL of the conventional rock drill assuming the rock drill is operated under water and screened by derrick barge.						

Table B7 - Plant Inventory for Tsing Lung Tau (Use of quiet plant and limiting no. of plant)

TSING LUNG TAU						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Tsing Lung Tau Tower						
Excavation of Seabed	Grab dredger	CNP 063	1	112	0	112
	Derrick barge	CNP 061	1	104	0	104
	Rock drill	CNP 181#	1	108	0	108
						Total SWL
Caission Fitting						
	Derrick barge*	CNP 061	1	104	0	104
	Tug boat*	CNP 221	1	110	0	110
	Concrete pump*	BS5228 C.6-36	1	106	0	106
					Total SWL	112
Formation of Bridge Tower						
	Tower cranes*	CNP 049	1	95	0	95
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Poker vibrator	BS5228 C.6-32	1	100	0	100
					Total SWL	108
Reclamation						
	Grab dredger*	CNP 063	1	112	0	112
	Derrick barges*	CNP 061	1	104	0	104
	Tug boat*	CNP 221	1	110	0	110
	Dump truck*	BS5228 C.9-29	1	109	0	109
					Total SWL	116
Tsing Lung Tau Cable Anchorage						
Adit formation	Generator	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Rock drill*	CNP 182	1	123	0	123
	Excavator*	BS5228 C.3-97	1	105	0	105
	Loader*	BS5228 C.3-97	1	105	0	105
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	0	119
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Adit excavation						
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
					Total SWL	121
Removal of spoil						
	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	2	112	0	115
	Derrick barge	CNP 061	1	104	0	104
					Total SWL	115
Concreting						
	Concrete pump	CNP 047	2	109	0	112
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Poker vibrator	CNP 170	1	113	0	113
					Total SWL	117
Cable Spinning						
	Convey belt	CNP 041	2	90	0	93
	Generator	CNP 102	2	100	0	103
	Hoist	CNP 122	2	95	0	98
	Winch	CNP 262	2	95	0	98
					Total SWL	105
Viaduct Section						

Table B7 - Plant Inventory for Tsing Lung Tau (Use of quiet plant and limiting no. of plant)

Viaduct foundation	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Piling*	CNP 164	1	115	0	115
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Road pavement and finishes	Ballast tamper*	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
						Total SWL
Tai Lam Chung Tunnel						
Portal formation	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Rock drill*	CNP 182	1	123	0	123
	Excavator*	BS5228 C.3-97	1	105	0	105
	Loader*	BS5228 C.3-97	1	105	0	105
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	0	119
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Tunnel excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
						Total SWL
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	4	112	0	118
	Derrick barge	CNP 061	1	104	0	104
						Total SWL
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						
# denotes that 20dB(A) is deducted from the SWL of the conventional rock drill assuming the rock drill is operated under water and screened by derrick barge.						

Table B8 - Plant Inventory for Tsing Lung Tau (Use of quiet plant, limiting no. of plant and the use of movable noise barriers)

TSING LUNG TAU						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Tsing Lung Tau Tower Excavation of Seabed	Grab dredger	CNP 063	1	112	0	112
	Derrick barge	CNP 061	1	104	0	104
	Rock drill	CNP 181#	1	108	0	108
	Total SWL					
Caisson Fitting	Derrick barge*	CNP 061	1	104	0	104
	Tug boat*	CNP 221	1	110	0	110
	Concrete pump*	BS5228 C.6-36	1	106	0	106
Total SWL						112
Formation of Bridge Tower	Tower cranes*	CNP 049	1	95	0	95
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Poker vibrator	BS5228 C.6-32	1	100	0	100
Total SWL						108
Reclamation	Grab dredger*	CNP 063	1	112	0	112
	Derrick barges*	CNP 061	1	104	0	104
	Tug boat*	CNP 221	1	110	0	110
	Dump truck*	BS5228 C.9-29	1	109	0	109
Total SWL						116
Tsing Lung Tau Cable Anchorage						
Adit formation	Generator	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Rock drill*	CNP 182	1	123	5	118
	Excavator*	BS5228 C.3-97	1	105	5	100
	Loader*	BS5228 C.3-97	1	105	5	100
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	5	114
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
Total SWL						120
Adit excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
Total SWL						121
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	2	112	0	115
	Derrick barge	CNP 061	1	104	0	104
Total SWL						115
Concreting	Concrete pump	CNP 047	2	109	0	112
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Poker vibrator	CNP 170	1	113	0	113
Total SWL						117
Cable Spinning	Convey belt	CNP 041	2	90	0	93
	Generator	CNP 102	2	100	0	103
	Hoist	CNP 122	2	95	0	98
	Winch	CNP 262	2	95	0	98
Total SWL						105

Table B8 - Plant Inventory for Tsing Lung Tau (Use of quiet plant, limiting no. of plant and the use of movable noise barriers)

	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Section						
Viaduct foundation	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Piling*	CNP 164	1	115	0	115
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Poker vibrator*	BS5228 C.6-32	1	100	10	90
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Road pavement and finishes	Ballast tamper*	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	5	99
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	5	100
						Total SWL
Tai Lam Chung Tunnel						
Portal formation	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Rock drill*	CNP 182	1	123	5	118
	Excavator*	BS5228 C.3-97	1	105	0	105
	Loader*	BS5228 C.3-97	1	105	5	100
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	5	114
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Tunnel excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
						Total SWL
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	4	112	0	118
	Derrick barge	CNP 061	1	104	0	104
						Total SWL
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						
# denotes that 20dB(A) is deducted from the SWL of the conventional rock drill assuming the rock drill is operated under water and screened by derrick barge.						

Table B9 - Plant Inventory for Tai Lam Chung (No mitigation measures)

Tai Lam Chung						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Tai Lam Chung Tunnel						
Portal formation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Rock drill	CNP 182	2	123	0	126
	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Breaker, excavator mounted	CNP 027	2	122	0	125
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	4	112	0	118
					Total SWL	
Tunnel excavation	Excavator	CNP 081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP 141	4	112	0	118
	Ventilation fan	CNP 241	2	108	0	111
					Total SWL	
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90
	Loader	CNP 081	4	112	0	118
	Dump Truck	CNP 067	8	117	0	126
					Total SWL	
Noise from Haul Road	Dump Truck	CNP 067	8	117	0	126
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	2	115	0	118
	Excavator	CNP 081	1	112	0	112
	Air compressor	CNP 001	1	100	0	100
	Concrete pump	CNP 047	1	109	0	109
	Dump truck	CNP 067	1	117	0	117
	Generator, standard	CNP 101	1	108	0	108
	Concrete lorry mixer	CNP 044	1	109	0	109
	Poker vibrator	CNP 170	1	113	0	113
	Bar bender and cutter	CNP 021	1	90	0	90
	Lorry	CNP 141	1	112	0	112
	Mobile crane	CNP 048	1	112	0	112
	Saw, circular, wood	CNP 201	1	108	0	108
					Total SWL	
Tai Lam Chung Viaduct						
Viaduct foundation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Piling	CNP 164	2	115	0	118
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Lorry	CNP 141	4	112	0	118
					Total SWL	
Viaduct superstructure	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Mobile crane	CNP 048	2	112	0	115
	Lorry	CNP 141	2	112	0	115
					Total SWL	
Road pavement and finishes	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
					Total SWL	

Table B10- Plant Inventory for Tai Lam Chung (Use of quiet plant)

Tai Lam Chung							
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL	
Tai Lam Chung Tunnel	<i>Generator</i>	CNP 101	2	100	0	103	
	<i>Air compressor</i>	BS5228 C.7-25	2	98	0	101	
	Rock drill	CNP 182	2	123	0	126	
	<i>Excavator</i>	BS5228 C.3-97	2	105	0	108	
	<i>Loader</i>	BS5228 C.3-97	2	105	0	108	
	<i>Breaker, excavator mounted</i>	BS5228 C.2-4	2	119	0	122	
	<i>Dump truck</i>	BS5228 C.9-29	2	109	0	112	
	<i>Lorry</i>	BS5228 C.9-27	4	105	0	111	
						Total SWL	128
	Tunnel excavation	<i>Excavator</i>	BS5228 C.3-97	2	105	0	108
<i>Loader</i>		BS5228 C.3-97	2	105	0	108	
<i>Lorry</i>		BS5228 C.9-27	4	105	0	111	
Ventilation fan		CNP241	2	108	0	111	
						Total SWL	116
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90	
	<i>Loader</i>	BS5228 C.3-97	4	105	0	111	
	<i>Dump Truck</i>	BS5228 C.9-29	8	109	0	118	
						Total SWL	119
Noise from Haul Road	<i>Dump Truck</i>	BS5228 C.9-29	8	109	0	118	
Control building construction	Piling, large diameter bored, grab and chisel	CNP 164	2	115	0	118	
	<i>Excavator</i>	BS5228 C.3-97	1	105	0	105	
	<i>Air compressor</i>	BS5228 C.7-25	1	98	0	98	
	<i>Concrete pump</i>	BS5228 C.6-36	1	106	0	106	
	<i>Dump truck</i>	BS5228 C.9-29	1	109	0	109	
	<i>Generator, standard</i>	BS5228 C.7-62	1	100	0	100	
	<i>Concrete lorry mixer</i>	BS5228 C.6-35	1	100	0	100	
	<i>Poker vibrator</i>	BS5228 C.6-32	1	100	0	100	
	Bar bender and cutter	CNP 021	1	90	0	90	
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105	
	<i>Mobile crane</i>	BS5228 C.7-110	1	106	0	106	
	<i>Saw, circular, wood</i>	BS5228 C.7-78	1	106	0	106	
						Total SWL	120
	Tai Lam Chung Viaduct	<i>Generator</i>	BS5228 C.7-62	2	108	0	111
<i>Air compressor</i>		BS5228 C.7-25	2	98	0	101	
Piling		CNP 164	2	115	0	118	
<i>Concrete pump</i>		BS5228 C.6-36	2	106	0	109	
<i>Poker vibrator</i>		BS5228 C.6-32	2	100	0	103	
<i>Lorry</i>		BS5228 C.9-27	4	105	0	111	
						Total SWL	120
Viaduct superstructure		<i>Generator</i>	BS5228 C.7-62	2	100	0	103
	<i>Air compressor</i>	BS5228 C.7-25	2	98	0	101	
	<i>Concrete pump</i>	BS5228 C.6-36	2	106	0	109	
	<i>Poker vibrator</i>	BS5228 C.6-32	2	100	0	103	
	<i>Mobile crane</i>	BS5228 C.7-110	2	106	0	109	
	<i>Lorry</i>	BS5228 C.9-27	2	105	0	108	
						Total SWL	114
Road pavement and finishes	Ballast tamper	CNP 029	2	105	0	108	
	Compactor	CNP 050	1	105	0	105	
	<i>Road roller</i>	BS5228 C.8-27	1	104	0	104	
	<i>Lorry</i>	BS5228 C.9-27	1	105	0	105	
	<i>Asphalt Paver</i>	BS5228 C.8-24	1	101	0	101	
	<i>Loader</i>	BS5228 C.3-97	1	105	0	105	
						Total SWL	113
PME indicated as bold and <i>italics</i> denote : Use of Quiet Equipment							

Table B11 - Plant Inventory for Tai Lam Chung (Use of quiet plant and limiting no. of PME)

Tai Lam Chung							
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL	
Tai Lam Chung Tunnel							
Portal formation	Generator*	BS5228 C.7-62	1	100	0	100	
	Air compressor*	BS5228 C.7-25	1	98	0	98	
	Rock drill*	CNP 182	1	123	0	123	
	Excavator*	BS5228 C.3-97	1	105	0	105	
	Loader*	BS5228 C.3-97	1	105	0	105	
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	0	119	
	Dump truck*	BS5228 C.9-29	1	109	0	109	
	Lorry*	BS5228 C.9-27	1	105	0	105	
				Total SWL		125	
Tunnel excavation	Excavator*	BS5228 C.3-97	2	105	0	108	
	Loader*	BS5228 C.3-97	2	105	0	108	
	Lorry*	BS5228 C.9-27	4	105	0	111	
	Ventilation fan*	CNP 241	2	108	0	111	
				Total SWL		116	
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90	
	Loader*	BS5228 C.3-97	4	105	0	111	
	Dump Truck*	BS5228 C.9-29	8	109	0	118	
				Total SWL		119	
Noise from Haul Road	Dump Truck	BS5228 C.9-29	8	109	0	118	
Control building construction							
Control building construction	Piling, large diameter bored, grab and chisel*	CNP 164	2	115	0	118	
	Excavator	BS5228 C.3-97	1	105	0	105	
	Air compressor	BS5228 C.7-25	1	98	0	98	
	Concrete pump	BS5228 C.6-38	1	106	0	106	
	Dump truck	BS5228 C.9-29	1	109	0	109	
	Generator, standard	BS5228 C.7-62	1	100	0	100	
	Concrete lorry mixer	BS5228 C.6-35	1	100	0	100	
	Poker vibrator	BS5228 C.6-32	1	100	0	100	
	Bar bender and cutter	CNP 021	1	90	0	90	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Mobile crane	BS5228 C.7-110	1	106	0	106	
	Saw, circular, wood	BS5228 C.7-78	1	106	0	106	
					Total SWL		120
	Tai Lam Chung Viaduct						
Viaduct foundation	Generator*	CNP101	1	108	0	108	
	Air compressor*	BS5228 C.7-25	1	98	0	98	
	Piling*	CNP 164	1	115	0	115	
	Concrete pump*	BS5228 C.6-38	1	106	0	106	
	Poker vibrator*	BS5228 C.6-32	1	100	0	100	
	Lorry*	BS5228 C.9-27	1	105	0	105	
					Total SWL		117
Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100	
	Air compressor*	BS5228 C.7-25	1	98	0	98	
	Concrete pump*	BS5228 C.6-38	1	106	0	106	
	Poker vibrator*	BS5228 C.6-32	1	100	0	100	
	Mobile crane*	BS5228 C.7-110	1	106	0	106	
	Lorry*	BS5228 C.9-27	1	105	0	105	
					Total SWL		111
Road pavement and finishes							
Road pavement and finishes	Ballast tamper*	CNP 029	2	105	0	108	
	Compactor	CNP 050	1	105	0	105	
	Road roller	BS5228 C.8-27	1	104	0	104	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Asphalt Paver	BS5228 C.8-24	1	101	0	101	
	Loader	BS5228 C.3-97	1	105	0	105	
					Total SWL		113
PME indicated as bold and italics denote : Use of Quiet Equipment							
*denote: Limited No. of PME to one item							

Table B12 - Plant inventory for Tai Lam Chung (Use of quiet plant, limiting no of PME and use of movable noise barriers)

Tai Lam Chung							
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL	
Tai Lam Chung Tunnel Portal formation	Generator*	BS5228 C.7-62	1	100	10	90	
	Air compressor*	BS5228 C.7-25	1	98	10	88	
	Rock drill*	CNP 182	1	123	0	123	
	Excavator*	BS5228 C.3-97	1	105	5	100	
	Loader*	BS5228 C.3-97	1	105	5	100	
	Breaker, excavator mounted*	BS5228 C.2-4	1	119	5	114	
	Dump truck*	BS5228 C.9-29	1	109	0	109	
	Lorry*	BS5228 C.9-27	1	105	0	105	
						Total SWL	124
Tunnel excavation	Excavator*	BS5228 C.3-97	2	105	0	108	
	Loader*	BS5228 C.3-97	2	105	0	108	
	Lorry*	BS5228 C.9-27	4	105	0	111	
	Ventilation fan*	CNP 241	2	108	0	111	
					Total SWL	116	
Removal of spoil	Conveyor belt	CNP 041	1	90	0	90	
	Loader*	BS5228 C.3-97	4	105	0	111	
	Dump Truck*	BS5228 C.9-29	8	109	0	118	
					Total SWL	119	
Noise from Haul Road	Dump Truck	BS5228 C.9-29	8	109	0	118	
Control building construction	Piling, large diameter bored, grab and chisel*	CNP 164	2	115	0	118	
	Excavator	BS5228 C.3-97	1	105	0	105	
	Air compressor	BS5228 C.7-25	1	98	0	98	
	Concrete pump	BS5228 C.6-36	1	106	0	106	
	Dump truck	BS5228 C.9-29	1	109	0	109	
	Generator, standard	BS5228 C.7-62	1	100	0	100	
	Concrete lorry mixer	BS5228 C.6-35	1	100	0	100	
	Poker vibrator	BS5228 C.6-32	1	100	0	100	
	Bar bender and cutter	CNP 021	1	90	0	90	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Mobile crane	BS5228 C.7-110	1	106	0	106	
	Saw, circular, wood	BS5228 C.7-78	1	106	0	106	
						Total SWL	120
Tai Lam Chung Viaduct Viaduct foundation	Generator*	CNP 101	1	108	10	98	
	Air compressor*	BS5228 C.7-25	1	98	10	88	
	Piling*	CNP 164	1	115	0	115	
	Concrete pump*	BS5228 C.6-36	1	106	10	96	
	Poker vibrator*	BS5228 C.6-32	1	100	10	90	
	Lorry*	BS5228 C.9-27	1	105	0	105	
						Total SWL	116
	Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100
Air compressor*		BS5228 C.7-25	1	98	0	98	
Concrete pump*		BS5228 C.6-36	1	106	0	106	
Poker vibrator*		BS5228 C.6-32	1	100	0	100	
Mobile crane*		BS5228 C.7-110	1	106	0	106	
Lorry*		BS5228 C.9-27	1	105	0	105	
					Total SWL	111	
Road pavement and finishes	Ballast tamper*	CNP 029	2	105	0	108	
	Compactor	CNP 050	1	105	0	105	
	Road roller	BS5228 C.8-27	1	104	0	104	
	Lorry	BS5228 C.9-27	1	105	0	105	
	Asphalt Paver	BS5228 C.8-24	1	101	0	101	
	Loader	BS5228 C.3-97	1	105	0	105	
					Total SWL	113	

PME indicated as bold and *italics* denote : Use of Quiet Equipment
 *denote: Limited No. of PME to one item

Table B13 - Plant Inventory for Siu Lam (No Mitigation Measures)

Siu Lam						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Siu Lam Viaduct						
Viaduct foundation	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Piling	CNP 164	2	115	0	118
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Lorry	CNP 141	4	112	0	118
					Total SWL	123
Viaduct superstructure						
	Generator	CNP 101	2	108	0	111
	Air compressor	CNP 001	2	100	0	103
	Concrete pump	CNP 047	2	109	0	112
	Poker vibrator	CNP 170	2	113	0	116
	Mobile crane	CNP 048	2	112	0	115
	Lorry	CNP 141	2	112	0	115
					Total SWL	121
Siu Lam Cutting						
	Rock drill	CNP 182	2	123	0	126
	Bulldozer	CNP 030	2	115	0	118
	Excavator	CNP 081	2	112	0	115
	Dump truck	CNP 067	2	117	0	120
	Lorry	CNP 141	2	112	0	115
					Total SWL	128
Road pavement and finishes						
	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
					Total SWL	117

Table B14 - Plant Inventory for Siu Lam (Use of Quiet Plant)

Siu Lam						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Siu Lam Viaduct						
Viaduct foundation	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Piling	CNP 164	2	115	0	118
	Concrete pump	BS5228 C.6-36	2	106	0	109
	Poker vibrator	BS5228 C.6-32	2	100	0	103
	Lorry	BS5228 C.9-27	4	105	0	111
						Total SWL
Viaduct superstructure						
Viaduct superstructure	Generator	BS5228 C.7-62	2	100	0	103
	Air compressor	BS5228 C.7-25	2	98	0	101
	Concrete pump	BS5228 C.6-36	2	106	0	109
	Poker vibrator	BS5228 C.6-32	2	100	0	103
	Mobile crane	BS5228 C.7-110	2	106	0	109
	Lorry	BS5228 C.9-27	2	105	0	108
						Total SWL
Siu Lam Cutting						
Siu Lam Cutting	Rock drill	CNP 182	2	123	0	126
	Bulldozer	BS5228 C.3-65	2	111	0	114
	Excavator	BS5228 C.3-97	2	105	0	108
	Dump truck	BS5228 C.9-29	2	109	0	112
	Lorry	BS5228 C.9-27	2	105	0	108
						Total SWL
Road pavement and finishes						
Road pavement and finishes	Ballast tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
						Total SWL
PME indicated as bold & italics denote: Use of Quiet Equipment						

Table B15 - Plant Inventory for Siu Lam (Use of Quiet Plant Limiting the No. of Plant)

Siu Lam						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Siu Lam Viaduct						
Viaduct foundation	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Piling*	CNP 164	1	115	0	115
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
					Total SWL	116
Viaduct superstructure						
Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Lorry*	BS5228 C.9-27	1	105	0	105
					Total SWL	111
Siu Lam Cutting						
Siu Lam Cutting	Rock drill*	CNP 182	1	123	0	123
	Bulldozer*	BS5228 C.3-65	1	111	0	111
	Excavator*	BS5228 C.3-97	1	105	0	105
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
					Total SWL	124
Road pavement and finishes						
Road pavement and finishes	Ballast tamper*	CNP 029	1	105	0	105
	Compactor	CNP 050	1	105	0	105
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
					Total SWL	112
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						

Table B16 - Plant Inventory for Siu Lam (Use of Quiet Plant, Limiting the No. of Plant Movable Barriers)

Siu Lam						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Siu Lam Viaduct Viaduct foundation	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Piling*	CNP 164	1	115	5	110
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Poker vibrator*	BS5228 C.6-32	1	100	10	90
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Viaduct superstructure	Generator*	BS5228 C.7-62	1	100	0	100
	Air compressor*	BS5228 C.7-25	1	98	0	98
	Concrete pump*	BS5228 C.6-36	1	106	0	106
	Poker vibrator*	BS5228 C.6-32	1	100	0	100
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Siu Lam Cutting	Rock drill*	CNP 182	1	123	5	118
	Bulldozer*	BS5228 C.3-65	1	111	0	111
	Excavator*	BS5228 C.3-97	1	105	0	105
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
						Total SWL
Road pavement and finishes	Ballast tamper*	CNP 029	1	105	10	95
	Compactor	CNP 050	1	105	5	100
	Road roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	5	100
						Total SWL
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						

Table B17 - Plant Inventory for So Kwun Wat (No Mitigation Measures)

So Kwun Wat						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Foundation	Generator	CNP 101	2	108	0	111
	Air Compressor	CNP 001	2	100	0	103
	Piling	CNP 164	2	115	0	118
	Concrete Pump	CNP 047	2	109	0	112
	Poker Vibrator	CNP 170	2	113	0	116
	Lorry	CNP 141	4	112	0	118
	Area Total SWL					
Viaduct Superstructure	Generator	CNP 101	2	108	0	111
	Air Compressor	CNP 001	2	100	0	103
	Concrete Pump	CNP 047	2	109	0	112
	Poker Vibrator	CNP 170	2	113	0	116
	Mobile Crane	CNP 048	2	112	0	115
	Lorry	CNP 141	2	112	0	115
	Area Total SWL					
Earthworks	Rock Drill	CNP 182	2	123	0	126
	Bulldozer	CNP 030	2	115	0	118
	Excavator	CNP 081	2	112	0	115
	Dump Truck	CNP 067	2	117	0	120
	Lorry	CNP 141	2	112	0	115
	Area Total SWL					
Road Pavement and Finishes	Ballast Tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road Roller	CNP 185	1	108	0	108
	Lorry	CNP 141	1	112	0	112
	Asphalt Paver	CNP 004	1	109	0	109
	Loader	CNP 081	1	112	0	112
	Area Total SWL					

Table B18 - Plant Inventory for So Kwun Wat (Use of Quiet Plant)

So Kwun Wat		Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Foundation	Generator	BS5228 C.7-62	2	100	0	103
	Air Compressor	BS5228 C.7-25	2	98	0	101
	Piling	CNP 164	2	115	0	118
	Concrete Pump	BS5228 C.6-36	2	106	0	109
	Poker Vibrator	BS5228 C.6-32	2	100	0	103
	Lorry	BS5228 C.9-27	4	105	0	111
						Area Total SWL
Viaduct Superstructure	Generator	BS5228 C.7-62	2	100	0	103
	Air Compressor	BS5228 C.7-25	2	98	0	101
	Concrete Pump	BS5228 C.6-36	2	106	0	109
	Poker Vibrator	BS5228 C.6-32	2	100	0	103
	Mobile Crane	BS5228 C.7-110	2	106	0	109
	Lorry	BS5228 C.9-27	2	105	0	108
					Area Total SWL	114
Earthworks	Rock Drill	CNP 182	2	123	0	126
	Bulldozer	BS5228 C.3-65	2	111	0	114
	Excavator	BS5228 C.3-97	2	105	0	108
	Dump Truck	BS5228 C.9-29	2	109	0	112
	Lorry	BS5228 C.9-27	2	105	0	108
					Area Total SWL	127
Road Pavement and Finishes	Ballast Tamper	CNP 029	2	105	0	108
	Compactor	CNP 050	1	105	0	105
	Road Roller	BS5228 C.8-27	1	104	0	104
	Lorry	BS5228 C.9-27	1	105	0	105
	Asphalt Paver	BS5228 C.8-24	1	101	0	101
	Loader	BS5228 C.3-97	1	105	0	105
					Area Total SWL	113
PME indicated as bold & italics denote: Use of Quiet Equipment						

Table B19 - Plant Inventory for So Kwun Wat (Use of Quiet Plant and Limiting the No. of Plant)

So Kwun Wat						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Foundation	<i>Generator*</i>	BS5228 C.7-62	1	100	0	100
	<i>Air Compressor*</i>	BS5228 C.7-25	1	98	0	98
	<i>Piling*</i>	CNP 164*	1	115	0	115
	<i>Concrete Pump*</i>	BS5228 C.6-36	1	106	0	106
	<i>Poker Vibrator*</i>	BS5228 C.6-32	1	100	0	100
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
						Area Total SWL
Viaduct Superstructure	<i>Generator*</i>	BS5228 C.7-62	1	100	0	100
	<i>Air Compressor*</i>	BS5228 C.7-25	1	98	0	98
	<i>Concrete Pump*</i>	BS5228 C.6-36	1	106	0	106
	<i>Poker Vibrator*</i>	BS5228 C.6-32	1	100	0	100
	<i>Mobile Crane*</i>	BS5228 C.7-110	1	106	0	106
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
						Area Total SWL
Earthworks	<i>Rock Drill*</i>	CNP 182	1	123	0	123
	<i>Bulldozer*</i>	BS5228 C.3-65	1	111	0	111
	<i>Excavator*</i>	BS5228 C.3-97	1	105	0	105
	<i>Dump Truck*</i>	BS5228 C.9-29	1	109	0	109
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
					Area Total SWL	124
Road Pavement and Finishes	<i>Ballast Tamper*</i>	CNP 029	1	105	0	105
	<i>Compactor</i>	CNP 050	1	105	0	105
	<i>Road Roller*</i>	BS5228 C.8-27	1	104	0	104
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
	<i>Asphalt Paver*</i>	BS5228 C.8-24	1	101	0	101
	<i>Loader*</i>	BS5228 C.3-97	1	105	0	105
					Area Total SWL	112
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						

Table B20 - Plant Inventory for So Kwun Wat (Use of Quiet Plant, Limiting the No. of Plant and Use of Movable Noise Barriers)

So Kwun Wat		Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL
Viaduct Foundation	<i>Generator*</i>	BS5228 C.7-62	1	100	10	90	
	<i>Air Compressor*</i>	BS5228 C.7-25	1	98	10	88	
	<i>Piling*</i>	CNP 164	1	115	0	115	
	<i>Concrete Pump*</i>	BS5228 C.6-36	1	106	10	96	
	<i>Poker Vibrator*</i>	BS5228 C.6-32	1	100	10	90	
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105	
							Area Total SWL
Viaduct Superstructure	<i>Generator*</i>	BS5228 C.7-62	1	100	0	100	
	<i>Air Compressor*</i>	BS5228 C.7-25	1	98	0	98	
	<i>Concrete Pump*</i>	BS5228 C.6-36	1	106	0	106	
	<i>Poker Vibrator*</i>	BS5228 C.6-32	1	100	0	100	
	<i>Mobile Crane*</i>	BS5228 C.7-110	1	106	0	106	
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105	
							Area Total SWL
Earthworks	<i>Rock Drill*</i>	CNP 182	1	123	5	118	
	<i>Bulldozer*</i>	BS5228 C.3-65	1	111	0	111	
	<i>Excavator*</i>	BS5228 C.3-97	1	105	5	100	
	<i>Dump Truck*</i>	BS5228 C.9-29	1	109	0	109	
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105	
							Area Total SWL
Road Pavement and Finishes	<i>Ballast Tamper*</i>	CNP 029	1	105	0	105	
	<i>Compactor</i>	CNP 050	1	105	0	105	
	<i>Road Roller*</i>	BS5228 C.8-27	1	104	5	99	
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105	
	<i>Asphalt Paver*</i>	BS5228 C.8-24	1	101	0	101	
	<i>Loader*</i>	BS5228 C.3-97	1	105	5	100	
							Area Total SWL
PME indicated as <i>bold & italics</i> denote: Use of Quiet Equipment							
* denote: Limited No. of PME to one item							

Table B20a - Plant Inventory for So Kwun Wat (Use of Quiet Plant, Limiting the No. of Plant and Use of Movable Noise Barriers for Particular Plant and along Site Boundary)

So Kwun Wat							
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	sub-SWL	
Viaduct Foundation	Generator*	BS5228 C.7-62	1	100	10	90	
	Air Compressor*	BS5228 C.7-25	1	98	10	88	
	Piling*	CNP 164	1	115	10	105	
	Concrete Pump*	BS5228 C.6-36	1	106	10	96	
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90	
	Lorry*	BS5228 C.9-27	1	105	5	100	
						Area Total SWL	107
Viaduct Superstructure	Generator*	BS5228 C.7-62	1	100	10	90	
	Air Compressor*	BS5228 C.7-25	1	98	10	88	
	Concrete Pump*	BS5228 C.6-36	1	106	10	96	
	Poker Vibrator*	BS5228 C.6-32	1	100	0	100	
	Mobile Crane*	BS5228 C.7-110	1	106	10	96	
	Lorry*	BS5228 C.9-27	1	105	5	100	
						Area Total SWL	105
Earthworks	Rock Drill*	CNP 182	1	123	10	113	
						Area Total SWL	113
	Bulldozer*	BS5228 C.3-65	1	111	5	106	
	Excavator*	BS5228 C.3-97	1	105	10	95	
	Dump Truck*	BS5228 C.9-29	1	109	5	104	
	Lorry*	BS5228 C.9-27	1	105	5	100	
						Area Total SWL	109
Road Pavement and Finishes	Ballast Tamper*	CNP 029	1	105	10	95	
	Compactor	CNP 050	1	105	10	95	
	Road Roller*	BS5228 C.8-27	1	104	5	99	
	Lorry*	BS5228 C.9-27	1	105	5	100	
	Asphalt Paver*	BS5228 C.8-24	1	101	5	96	
	Loader*	BS5228 C.3-97	1	105	5	100	
						Area Total SWL	106
PME indicated as bold & italics denote: Use of Quiet Equipment							
* denote: Limited No. of PME to one item							

Table B20b - Plant Inventory for So Kwun Wat (Use of Quiet Plant, Limiting the No. of Plant, Use of Movable Noise Barriers for Particular Plant and along Site Boundary and Restricting % on time)

So Kwun Wat							
	Noise Source	Ref. No.	No.	SWL/unit	Barrier Atten.	% on time corr.	sub-SWL
Viaduct Foundation	Generator*	BS5228 C.7-62	1	100	10	3	87
	Air Compressor*	BS5228 C.7-25	1	98	10	3	85
	Piling*	CNP 164	1	115	10	3	102
	Concrete Pump*	BS5228 C.6-36	1	106	10	3	93
	Poker Vibrator*	BS5228 C.6-32	1	100	10	3	87
	Lorry*	BS5228 C.9-27	1	105	5	3	97
						Area Total SWL	
Viaduct Superstructure	Generator*	BS5228 C.7-62	1	100	10	3	87
	Air Compressor*	BS5228 C.7-25	1	98	10	3	85
	Concrete Pump*	BS5228 C.6-36	1	106	10	3	93
	Poker Vibrator*	BS5228 C.6-32	1	100	0	3	97
	Mobile Crane*	BS5228 C.7-110	1	106	10	3	93
	Lorry*	BS5228 C.9-27	1	105	5	3	97
						Area Total SWL	
Earthworks	Rock Drill*	CNP 182	1	123	10	7	106
						Area Total SWL	106
	Bulldozer*	BS5228 C.3-65	1	111	5	3	103
	Excavator*	BS5228 C.3-97	1	105	10	3	92
	Dump Truck*	BS5228 C.9-29	1	109	5	3	101
	Lorry*	BS5228 C.9-27	1	105	5	3	97
						Area Total SWL	106
Road Pavement and Finishes	Ballast Tamper*	CNP 029	1	105	10	3	92
	Compactor	CNP 050	1	105	10	3	92
	Road Roller*	BS5228 C.8-27	1	104	5	3	96
	Lorry*	BS5228 C.9-27	1	105	5	3	97
	Asphalt Paver*	BS5228 C.8-24	1	101	5	3	93
	Loader*	BS5228 C.3-97	1	105	5	3	97
						Area Total SWL	103
PME indicated as bold & italics denote: Use of Quiet Equipment							
* denote: Limited No. of PME to one item							
3 dB(A) % on time correction is assumed for equipment with 50% on time except for the shaded equipment where 20% on time is assumed.							

Table B21 - Evening and Night-time Plant Inventory for Tsing Lung Tau and Tai Lam Chung
(Use of quiet plant, limiting no. of plant and the use of enclosures and movable noise barriers)

TSING LUNG TAU						
	Noise Source	Ref. No.	No.	SWL/unit	Barrier	At sub-SWL
Tsing Lung Tau Tower						
Formation of Bridge Tower	Tower cranes*	CNP 049	1	95	0	95
						Total SWL 95
	Concrete pump*	BS5228 C.6-36	1	106	20	86
	Generator*	BS5228 C.7-62	1	100	20	80
	Air compressor*	BS5228 C.7-25	1	98	20	78
	Poker vibrator	BS5228 C.6-32	1	100	10	90
						Total SWL 92
Tsing Lung Tau Cable Anchorage						
Cable Spinning	Convey belt*	CNP 041	1	90	0	90
	Generator*	CNP 102	1	100	0	100
	Hoist*	CNP 122	1	95	0	95
	Winch*	CNP 262	1	95	0	95
						Total SWL 102
Tai Lam Chung Tunnel						
Tunnel excavation	Ventilation fan*	CNP 241	1	108	0	108
						Total SWL 108
TAI LAM CHUNG						
Tai Lam Chung Tunnel						
Tunnel excavation	Ventilation fan*	CNP 241	1	108	0	108
						Total SWL 108
PME indicated as bold & italics denote: Use of Quiet Equipment						
* denote: Limited No. of PME to one item						
Shaded PME indicated the use of enclosure around the equipment						