

Annex C

Predictions of Construction Noise

Table C1 - Predicted Noise Level for North Lantau (No mitigation measures)

	SWL	Noise Levels		Distance (m)	
		Tso Wan	Fa Peng	NL-N1	NL-N2
		NL-N1	NL-N2		
North Lantau					
Toil Plaza Reclamation	123	71	71	220	240
Earthworks Excavation at Sam Chuen	128	73	66	300	720
Earthworks Excavation at Fa Peng	128	68	82	540	110
Control Building Construction	123	71	71	220	240
Road Pavement and Finishes at Sam Chuen	117	66	65	220	240
Road Pavement and Finishes at Toil Plaza	117	63	62	300	320
Road Pavement and Finishes at Fa Peng	117	58	72	540	110

Table C2 - Predicted Noise Levels for North Lantau (Use of Quiet Plant)

	SWL	Noise Levels		Distance (m)	
		Tso Wan	Fa Peng	NL-N1	NL-N2
		NL-N1	NL-N2	NL-N1	NL-N2
North Lantau					
Toll Plaza Reclamation	119	67	67	220	240
Earthworks Excavation at Sam Chuen	127	72	64	300	720
Earthworks Excavation at Fa Peng	127	67	81	540	110
Control Building Construction	120	68	67	220	240
Road Pavement and Finishes at Sam Chuen	113	61	60	220	240
Road Pavement and Finishes at Toll Plaza	113	58	58	300	320
Road Pavement and Finishes at Fa Peng	113	53	67	540	110

Table C3 - Predicted Noise Levels for North Lantau (Use of quiet plant and limiting no. of plant)

	SWL	Noise Levels		Distance (m)	
		Tso Wan NL-N1	Fa Peng NL-N2	NL-N1	NL-N2
North Lantau					
Toll Plaza Reclamation	116	64	63	220	240
Earthworks Excavation at Sam Chuen	124	69	61	300	720
Earthworks Excavation at Fa Peng	124	64	78	540	110
Control Building Construction	118	66	65	220	240
Road Pavement and Finishes at Sam Chuen	112	60	60	220	240
Road Pavement and Finishes at Toll Plaza	112	58	57	300	320
Road Pavement and Finishes at Fa Peng	112	53	66	540	110

Table C4 - Predicted Noise Levels for North Lantau (Use of quiet plant, limiting no. of plant and use of movable noise barriers)

	SWL	Noise Levels		Distance (m)	
		Tso Wan NL-N1	Fa Peng NL-N2	NL-N1	NL-N2
North Lantau					
Toll Plaza Reclamation	116	64	63	220	240
Earthworks Excavation at Sam Chuen	124	69	61	300	720
Earthworks Excavation at Fa Peng	119	60	74	540	110
Control Building Construction	118	66	65	220	240
Road Pavement and Finishes at Sam Chuen	112	60	60	220	240
Road Pavement and Finishes at Toll Plaza	112	58	57	300	320
Road Pavement and Finishes at Fa Peng	112	53	66	540	110

Table C5 - Predicted Noise Levels for Tsing Lung Tau (No Mitigation Measures)

	SWL	Noise Levels				Distance (m)							
		Hong Kong Garden	Grand Bay Villa	Scattered House	Bayside Villa	TLT-N1	TLT-N2	TLT-N4	TLT-N5				
Tsing Lung Tau													
Tsing Lung Tau Tower													
Excavation of Seabed	114	58	88	56	59	350	11	430	310				
Caission Fitting	116	60	90	58	61	350	11	430	310				
Formation of Bridge Tower	117	61	91	59	62	350	11	430	310				
Tsing Lung Tau Reclamation	123	67	86	65	70	365	40	470	245				
Tsing Lung Tau Cable Anchorage													
Adit formation	130	76	79	77	77	290	200	240	260				
Adit excavation	121	67	70	69	68	290	200	240	260				
Removal of spoil	115	57	68	55	59	450	130	580	360				
Concreting	117	63	66	64	64	290	200	240	260				
Cable Spinning	105	51	54	53	52	290	200	240	260				
Viaduct Section													
Viaduct foundation	123	69	88	69	68	280	30	280	300				
Viaduct superstructure	121	67	87	67	67	280	30	280	300				
Road pavement and finishes	117	63	83	63	63	280	30	280	300				
Tai Lam Chung Tunnel													
Portal formation	130	76	77	77	70	285	250	240	570				
Tunnel excavation	121	67	68	69	68	285	250	240	270				
Removal of spoil	118	60	71	58	62	445	130	590	360				

Table C6 - Predicted Noise Levels for Tsing Lung Tau (Use Of Quiet Plant)

	SWL	Noise Levels			Distance (m)					
		Hong Kong Garden	Grand Bay Villa	Scattered House	Bayside Villa	TLT-N1	TLT-N2	TLT-N4	TLT-N5	
Tsing Lung Tau										
Tsing Lung Tau Tower										
Excavation of Seabed	114	58	88	56	59	350	11	430	310	
Caission Fitting	114	58	88	56	59	350	11	430	310	
Formation of Bridge Tower	111	55	85	53	56	350	11	430	310	
Tsing Lung Tau Reclamation	119	63	82	61	66	365	40	470	245	
Tsing Lung Tau Cable Anchorage										
Adit formation	128	74	77	75	74	290	200	240	260	
Adit excavation	121	67	70	69	68	290	200	240	260	
Removal of spoil	115	57	68	55	59	450	130	580	360	
Concreting	117	63	66	64	64	290	200	240	260	
Cable Spinning	105	51	54	53	52	290	200	240	260	
Viaduct Section										
Viaduct foundation	119	66	85	66	65	280	30	280	300	
Viaduct superstructure	114	60	80	60	60	280	30	280	300	
Road pavement and finishes	113	59	78	59	58	280	30	280	300	
Tai Lam Chung Tunnel										
Portal formation	128	74	75	75	68	285	250	240	570	
Tunnel excavation	121	67	68	69	68	285	250	240	270	
Removal of spoil	118	60	71	58	62	445	130	590	360	

Table C7 - Predicted Noise Levels for Tsing Lung Tau (Use of Quiet Plant and Limiting the No. of Plant)

	SWL	Noise Levels		Scattered House	Bayside Villa	Distance (m)					
		Hong Kong Garden	Grand Bay Villa			TLT-N1	TLT-N2	TLT-N4	TLT-N5		
Tsing Lung Tau											
Tsing Lung Tau Tower											
Excavation of Seabed	114	58	88	56	59	350	11	430	310		
Caission Fitting	112	56	86	55	57	350	11	430	310		
Formation of Bridge Tower	108	53	83	51	54	350	11	430	310		
Tsing Lung Tau Reclamation	116	59	79	57	63	365	40	470	245		
Tsing Lung Tau Cable Anchorage											
Adit formation	125	70	74	72	71	290	200	240	260		
Adit excavation	121	67	70	69	68	290	200	240	260		
Removal of spoil	115	57	68	55	59	450	130	580	360		
Concreting	117	63	66	64	64	290	200	240	260		
Cable Spinning	105	51	54	53	52	290	200	240	260		
Viaduct Section											
Viaduct foundation	116	62	82	62	62	280	30	280	300		
Viaduct superstructure	111	57	77	57	57	280	30	280	300		
Road pavement and finishes	112	58	78	58	58	280	30	280	300		
Tai Lam Chung Tunnel											
Portal formation	125	71	72	72	65	285	250	240	570		
Tunnel excavation	121	67	68	69	68	285	250	240	270		
Removal of spoil	118	60	71	58	62	445	130	590	360		

Table C8 - Predicted Noise Levels for Tsing Lung Tau (Use of Quiet Plant, Limiting the No. of Plant and Use of Movable Noise Barriers)

	SWL	Noise Levels			Distance (m)			TLT-N5	
		Hong Kong Garden	Grand Bay Villa	Scattered House	Bayside Villa	TLT-N1	TLT-N2		TLT-N4
Tsing Lung Tau									
Tsing Lung Tau Tower									
Excavation of Seabed	114	58	88	56	59	350	11	430	310
Caisson Fitting	112	56	86	55	57	350	11	430	310
Formation of Bridge Tower	108	53	83	51	54	350	11	430	310
Tsing Lung Tau Reclamation	116	59	79	57	63	365	40	470	245
Tsing Lung Tau Cable Anchorage									
Adit formation	120	66	69	67	67	290	200	240	260
Adit excavation	121	67	70	69	68	290	200	240	260
Removal of spoil	115	57	68	55	59	450	130	580	360
Concreting	117	63	66	64	64	290	200	240	260
Cable Spinning	105	51	54	53	52	290	200	240	260
Viaduct Section									
Viaduct foundation	115	62	81	62	61	280	30	280	300
Viaduct superstructure	111	57	77	57	57	280	30	280	300
Road pavement and finishes	111	57	76	57	56	280	30	280	300
Tai Lam Chung Tunnel									
Portal formation	120	66	67	68	60	285	250	240	570
Tunnel excavation	121	67	68	69	68	285	250	240	270
Removal of spoil	118	60	71	58	62	445	130	590	360

Table C9 - Predicted noise levels at Tai Lam Chung (No mitigation measures)

	Noise Levels					Distance (m)				
	Correctional Institution (Staff Quarters)	Correctional Institution (Clinic)	Tai Lam Chung Tsuen	Scattered village houses - west of Tai Lam Chung Road	Tai Lam Chung Tsuen	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5
	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5
Tai Lam Chung										
Tai Lam Chung Tunnel										
Portal Formation	78	79	79	74	70	220	190	200	330	520
Tunnel excavation	70	71	70	66	62	220	190	200	330	520
Removal of spoil	75	76	76	71	67	220	190	200	330	520
Control building construction	71	73	72	68	64	220	190	200	330	520
Noise from Haul Road	57	59	64	60	60	140	90	30	70	70
Tai Lam Chung Viaduct										
Viaduct foundation	76	79	76	73	66	130	85	120	180	400
Viaduct superstructure	74	78	75	71	64	130	85	120	180	400
Road pavement and finishes	70	74	71	67	60	130	85	120	180	400

Table C10 - Predicted noise levels at Tai Lam Chung (Use of quiet plant)

	SWL	Noise Levels					Distance (m)							
		Correctional Institution (Staff Quarters) TLC-N1	Correctional Institution (Clinic) TLC-N2	Tai Lam Chung Tsuen TLC-N3	Scattered village houses - west of Tai Lam Chung Road TLC-N4	Tai Lam Chung Tsuen TLC-N5	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5			
Tai Lam Chung														
Tai Lam Chung Tunnel														
Portal Formation	128	76	77	77	72	68	220	190	200	330	520			
Tunnel excavation	116	64	65	65	60	56	220	190	200	330	520			
Removal of spoil	119	67	68	68	63	60	220	190	200	330	520			
Control building construction	120	68	69	69	64	60	220	190	200	330	520			
Noise from Haul Road	118	49	51	56	52	52	140	90	30	70	70			
Tai Lam Chung Viaduct														
Viaduct foundation	120	73	76	73	70	63	130	85	120	180	400			
Viaduct superstructure	114	67	71	68	64	57	130	85	120	180	400			
Road pavement and finishes	113	66	69	66	63	56	130	85	120	180	400			

Table C11- Predicted noise levels at Tai Lam Chung (Use of quiet plant and limiting no. of PME)

	SWL	Noise Levels				Distance (m)						
		Correctional Institution (Staff Quarters)	Correctional Institution (Clinic)	Tai Lam Chung Tsuen	Scattered village houses - west of Tai Lam Chung Road	Tai Lam Chung Tsuen	TLC-N5	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5
Tai Lam Chung												
Tai Lam Chung Tunnel												
Portal Formation	125	73	74	74	69	65	220	190	200	330	520	
Tunnel excavation	116	64	65	65	60	56	220	190	200	330	520	
Removal of spoil	119	67	68	68	63	60	220	190	200	330	520	
Control building construction	120	68	69	69	64	60	220	190	200	330	520	
Noise from Haul Road	118	49	51	56	52	52	140	90	30	70	70	
Tai Lam Chung Viaduct												
Viaduct foundation	117	69	73	70	67	60	130	85	120	180	400	
Viaduct superstructure	111	64	68	65	61	54	130	85	120	180	400	
Road pavement and finishes	113	66	69	66	63	56	130	85	120	180	400	

Table C-12 - Predicted noise levels at Tai Lam Chung (Use of quiet plant, limiting no. of PME and use of movable noise barriers)

	SWL	Noise Levels					Distance (m)							
		Correctional Institution (Staff Quarters) TLC-N1	Correctional Institution (Clinic) TLC-N2	Tai Lam Chung Tsuen TLC-N3	Scattered village houses - west of Tai Lam Chung Road TLC-N4	Tai Lam Chung Tsuen TLC-N5	TLC-N1	TLC-N2	TLC-N3	TLC-N4	TLC-N5			
Tai Lam Chung														
Tai Lam Chung Tunnel														
Portal Formation	124	72	73	73	68	64	220	190	200	330	520			
Tunnel excavation	116	64	65	65	60	56	220	190	200	330	520			
Removal of spoil	119	67	68	68	63	60	220	190	200	330	520			
Control building construction	120	68	69	69	64	60	220	190	200	330	520			
Noise from Hajul Road	118	49	51	56	52	52	140	90	30	70	70			
Tai Lam Chung Viaduct														
Viaduct foundation	116	68	72	69	65	59	130	85	120	180	400			
Viaduct superstructure	111	64	68	65	61	54	130	85	120	180	400			
Road pavement and finishes	113	66	69	66	63	56	130	85	120	180	400			

Table C13 - Predicted Noise Levels for Siu Lam (No Mitigation Measures), Part 1

Siu Lam	Noise Levels SWL	Siu Lam Psychiatric Centre	Siu Lam Hospital	Correctional Institution (South Bound of the Siu Lam Interchange)	Correctional Institution (North Bound of the Siu Lam Interchange)	Police Quarters	Correctional Institution Staff Quarters	Kings Park Villa	The Castle Bay	Castle Peak Villa	Scattered House	Scattered House
		SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
Viaduct foundation	123	71	76	86	74	83	78	71	71	67	75	90
Viaduct superstructure	121	69	74	84	73	81	77	69	69	65	73	88
Siu Lam Cutting / Quarry Cutting	128	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes(viaduct)	117	66	70	80	69	78	73	66	65	62	70	84
Road pavement and finishes(excavation)	117	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C13 - Predicted Noise Levels for Siu Lam (No Mitigation Measures), Part 1

Siu Lam	Distance (m)		SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
	220	130	40	150	55	95	220	230	350	140	25	25	
Viaduct foundation	220	130	40	150	55	95	220	230	350	140	25	25	
Viaduct superstructure	220	130	40	150	55	95	220	230	350	140	25	25	
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Road pavement and finishes(viaduct)	220	130	40	150	55	95	220	230	350	140	25	25	
Road pavement and finishes(excavation)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table C13 - Predicted Noise Levels for Siu Lam (No Mitigation Measures), Part 2

Siu Lam	Noise Levels SWL	Scattered House	West of Siu Lam Tsuen	Poseidon Coast	Correctional Institution Staff Quarters	Correctional Institution Staff Quarters	Scattered house to the north of CI staff quarters	Home for the Aged at Siu Lam	Village house along Siu Lam Road	Village house along Siu Lam Road	Village house along Siu Lam Road	Village house along Siu Lam Road	Seamen's Training Centre
		SL-N12	SL-N13	SL-P3	SL-N15**	SL-N16**	SL-N17*	SL-N18*	SL-N19*	SL-N20	SL-N21	SL-N22	SL-N23
Viaduct foundation	123	83	82	78	71	73	79	74	78	83	80	N/A	78
Viaduct superstructure	121	81	80	76	70	71	77	73	76	81	78	N/A	77
Siu Lam Cutting / Quarry Cutting	128	N/A	N/A	N/A	77	77	82	79	80	73	75	82	N/A
Road pavement and finishes(viaduct)	117	78	76	72	66	67	73	69	72	78	74	N/A	73
Road pavement and finishes(excavation)	117	N/A	N/A	N/A	66	66	71	68	70	62	64	71	N/A

Note :

(**) SL-N15 to SL-N19 are expected to be affected by both noise from viaduct and at-grade sections

Table C13 - Predicted Noise Levels for Siu Lam (No Mitigation Measures), Part 2

<i>Siu Lam</i>	Distance (m)											
	SL-N12	SL-N13	SL-P3	SL-N15	SL-N16	SL-N17	SL-N18	SL-N19	SL-N20	SL-N21	SL-N22	SL-N23
Viaduct foundation	55	65	105	217	185	92	150	100	55	80	NA	95
Viaduct superstructure	55	65	105	217	185	92	150	100	55	80	NA	95
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	200	200	112	165	140	330	260	115	NA
Road pavement and finishes(viaduct)	55	66	105	217	185	92	150	100	55	80	NA	95
Road pavement and finishes(excavation)	N/A	N/A	N/A	200	200	112	165	140	330	260	115	NA

Table C14 - Predicted Noise Levels for Siu Lam (Use of Quite Plant), Part 1

Siu Lam	Noise Levels SWL	Siu Lam Psychiatric Centre	Siu Lam Hospital	Correctional Institution (South Bound of the Siu Lam Interchange)	Correctional Institution (North Bound of the Siu Lam Interchange)	Police Quarters	Correctional Institution Staff Quarters	Kings Park Villa	The Castle Bay Villa	Castle Peak Villa	Scattered House	Scattered House
		SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
Viaduct foundation	119	68	72	82	71	80	75	68	64	72	87	
Viaduct superstructure	114	63	67	77	66	75	70	63	59	66	81	
Siu Lam Cutting / Quarry Cutting	127	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes(viaduct)	113	61	66	76	64	73	68	61	57	65	80	
Road pavement and finishes(excavation)	113	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C14 - Predicted Noise Levels for Siu Lam (Use of Quite Plant), Part 1

Siu Lam	Distance (m)										
	SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
Viaduct foundation	220	130	40	150	55	95	220	230	350	140	25
Viaduct superstructure	220	130	40	150	55	95	220	230	350	140	25
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes(viaduct)	220	130	40	150	55	95	220	230	350	140	25
Road pavement and finishes(excavation)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C14 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant), Part 2

Siu Lam	Noise Levels SWL	Scattered House	West of Siu Lam Tsuen	Poseidon Coast	Correctional Institution Staff Quarters	Correctional Institution Staff Quarters	Scattered house to the north of CI staff quarters	Home for the Aged at Siu Lam	Village house along Siu Lam Road	Village house along Siu Lam Road	Village house along Siu Lam Road	Village house along Siu Lam Road	Seamen's Training Centre
		SL-N12	SL-N13	SL-P3	SL-N15**	SL-N16**	SL-N17**	SL-N18**	SL-N19**	SL-N20	SL-N21	SL-N22	SL-N23
Viaduct foundation	119	80	78	74	68	69	75	71	74	80	76	N/A	75
Viaduct superstructure	114	75	73	69	63	64	70	66	69	75	71	N/A	70
Siu Lam Cutting / Quarry Cutting	127	N/A	N/A	N/A	76	76	81	77	79	71	73	80	N/A
Road pavement and finishes(viaduct)	113	73	72	67	61	63	69	64	68	73	70	N/A	68
Road pavement and finishes(excavation)	113	N/A	N/A	N/A	62	62	67	64	65	58	60	67	N/A

Note :

(**) SL-N15 to SL-N19 are expected to be affected by both noise from viaduct and at-grade sections

Table C14 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant), Part 2

<i>Siu Lam</i>	Distance (m)											
	SL-N12	SL-N13	SL-P3	SL-N15	SL-N16	SL-N17	SL-N18	SL-N19	SL-N20	SL-N21	SL-N22	SL-N23
Viaduct foundation	55	65	105	217	185	92	150	100	55	80	N/A	95
Viaduct superstructure	55	65	105	217	185	92	150	100	55	80	N/A	95
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	200	200	112	165	140	330	260	115	N/A
Road pavement and finishes (viaduct)	55	66	105	217	185	92	150	100	55	80	N/A	95
Road pavement and finishes (excavation)	N/A	N/A	N/A	200	200	112	165	140	330	260	115	N/A

Table C15 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant and Limiting the No. of Plant), Part 1

Siu Lam	Noise Levels SWL	Siu Lam Psychiatric Centre	Siu Lam Hospital	Correctional Institution (South Bound of the Siu Lam Interchange)	Correctional Institution (North Bound of the Siu Lam Interchange)	Police Quarters	Correctional Institution Staff Quarters	Kings Park Villa	The Castle Bay	Castle Peak Villa	Scattered House	Scattered House
		SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
Viaduct foundation	116	64	69	79	68	76	72	64	64	60	68	83
Viaduct superstructure	111	60	64	74	63	72	67	60	59	56	63	78
Siu Lam Cutting / Quarry Cutting	124	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes(viaduct)	112	60	65	75	64	72	68	60	60	56	64	79
Road pavement and finishes(excavation)	112	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C15 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant and Limiting the No. of Plant), Part 1

Siu Lam	Distance (m)		SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11
	SL-N1	SL-N2									
Viaduct foundation	220	130	40	150	55	95	220	230	350	140	25
Viaduct superstructure	220	130	40	150	55	95	220	230	350	140	25
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes(viaduct)	220	130	40	150	55	95	220	230	350	140	25
Road pavement and finishes(excavation)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C15 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant and Limiting the No of Plant), Part 2

Siu Lam	Noise Levels	Scattered House	West of Siu Lam Tsuen	Poseidon Coast	Correctional Institution Staff Quarters	Correctional Institution Staff Quarters	Scattered house to the north of CI staff quarters	Home for the Aged at Siu Lam	Village house along Siu Lam Road	Village house along Siu Lam Road	Village house along Siu Lam Road	Seamen's Training Centre	
		SL-N12	SL-N13	SL-P3	SL-N15**	SL-N16**	SL-N17**	SL-N18**	SL-N19**	SL-N2	SL-N21	SL-N22	SL-N23
Viaduct foundation	116	76	75	71	64	66	72	68	71	76	73	N/A	72
Viaduct superstructure	111	72	70	66	60	61	67	63	66	72	68	N/A	67
Siu Lam Cutting / Quarry Cutting	124	N/A	N/A	N/A	73	73	78	74	76	68	70	77	N/A
Road pavement and finishes (viaduct)	112	72	71	67	60	62	68	64	67	72	69	N/A	68
Road pavement and finishes (excavation)	112	N/A	N/A	N/A	61	61	66	63	64	57	59	66	N/A

Note :

(**) SL-N15 to SL-N19 are expected to be affected by both noise from viaduct and at-grade sections

Table C15 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant and Limiting the No of Plant), Part 2

<i>Siu Lam</i>	Distance (m)		SL-P3	SL-N15	SL-N16	SL-N17	SL-N18	SL-N19	SL-N20	SL-N21	SL-N22	SL-N23
	SL-N12	SL-N13	SL-N15	SL-N16	SL-N17	SL-N18	SL-N19	SL-N20	SL-N21	SL-N22	SL-N23	
Viaduct foundation	55	65	217	185	92	150	100	55	80	N/A	95	
Viaduct superstructure	55	65	217	185	92	150	100	55	80	N/A	95	
Siu Lam Cutting / Quarry Cutting	N/A	N/A	200	200	112	165	140	330	260	115	N/A	
Road pavement and finishes(viaduct)	55	66	217	185	92	150	100	55	80	N/A	95	
Road pavement and finishes(excavation)	N/A	N/A	200	200	112	165	140	330	260	115	N/A	

Table C16 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant, Limiting the No of Plant and Movable Noise Barriers), Part 1

Siu Lam	Noise Levels	Siu Lam Psychiatric Centre	Siu Lam Hospital	Correctional Institution (South Bound of the Siu Lam Interchange)	Correctional Institution (North Bound of the Siu Lam Interchange)	Police Quarters	Correctional Institution Staff Quarters	Kings Park Villa	The Castle Bay	Castle Peak Villa	Scattered House	Scattered House
Viaduct foundation	111	60	64	74	63	72	67	60	59	56	63	78
Viaduct superstructure	111	60	64	74	63	72	67	60	59	56	63	78
Siu Lam Cutting / Quarry Cutting	120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Road pavement and finishes (viaduct)	110	58	63	73	61	70	65	58	58	54	62	77
Road pavement and finishes (excavation)	110	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table C16 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant, Limiting the No of Plant and Movable Noise Barriers), Part 1

	Distance (m)											
	SL-N1	SL-N2	SL-N3	SL-N4	SL-N5	SL-N6	SL-N7	SL-N8	SL-N9	SL-N10	SL-N11	
Siu Lam												
Viaduct foundation	220	130	40	150	55	95	220	230	350	140	25	
Viaduct superstructure	220	130	40	150	55	95	220	230	350	140	25	
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Road pavement and finishes(viaduct)	220	130	40	150	55	95	220	230	350	140	25	
Road pavement and finishes(excavation)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Table C16 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant, Limiting the No of Plant and Movable Noise Barriers), Part 2

Siu Lam	Noise Levels	Scattered House	West of Siu Lam Tsuen	Poseidon Coast	Correctional Institution Staff Quarters	Correctional Institution Staff Quarters	Scattered house to the north of CI staff quarters	Home for the Aged at Siu Lam	Village house along Siu Lam Road		Village house along Siu Lam Road		Village house along Siu Lam Road	
									SL-N12	SL-N13	SL-P3	SL-N15**	SL-N16**	SL-N17**
Viaduct foundation	111	72	70	66	60	61	67	63	66	72	68	N/A	67	
Viaduct superstructure	111	72	70	66	60	61	67	63	66	72	68	N/A	67	
Siu Lam Cutting / Quarry Cutting	120	N/A	N/A	N/A	69	69	74	70	72	64	66	73	N/A	
Road pavement and finishes(viaduct)	110	70	68	64	58	59	65	61	65	70	67	N/A	65	
Road pavement and finishes(excavation)	110	N/A	N/A	N/A	59	59	64	60	62	54	56	63	N/A	

Note :

(**) SL-N15 to SL-N19 are expected to be affected by both noise from viaduct and at-grade sections

Table C16 - Predicted Noise Levels for Siu Lam (Use of Quiet Plant, Limiting the No of Plant and Movable Noise Barriers), Part 2

<i>Siu Lam</i>	Distance (m)												
	SL-N12	SL-N13	SL-P3	SL-N15	SL-N16	SL-N17	SL-N18	SL-N19	SL-N20	SL-N21	SL-N22	SL-N23	
Viaduct foundation	55	65	105	217	185	92	150	100	55	80	N/A	95	
Viaduct superstructure	55	65	105	217	185	92	150	100	55	80	N/A	95	
Siu Lam Cutting / Quarry Cutting	N/A	N/A	N/A	200	200	112	165	140	330	260	115	N/A	
Road pavement and finishes(viaduct)	55	66	105	217	185	92	150	100	55	80	N/A	95	
Road pavement and finishes(excavation)	N/A	N/A	N/A	200	200	112	165	140	330	260	115	N/A	

Table C17 - Predicted Noise Levels for So Kwun Wat (No Mitigation Measures)

	SWL	Noise Levels																
		So Kwun Wat Ching Uk Tsuen	So Kwun Wat Tsuen	So Kwun Wat Lee Uk Tsuen	So Kwun Wat Govt. School	Lo Tsing Shan Tsuen (SKW Interchange - West Bound)	Lo Tsing Shan Tsuen (SKW Interchange - East Bound)	Scattered village house	Scattered village house	Scattered village house (next to Perowne Barracks)	Scattered village house (next to Perowne Barracks)	Scattered House (Tuen Mun Road/So Kwun Wat Road)	Scattered village house in Area 56 of Area 55	Scattered village house east of Area 55	Planned site Area 55			
		SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
Construction Activity																		
Viaduct Foundation	123	77	N/A	80	70	87	84	94	N/A	87	82	94	79	88	N/A	80	93	78
Viaduct Superstructure	121	75	N/A	79	69	85	82	93	N/A	85	80	93	78	87	N/A	78	89	76
Earthworks Excavation	128	N/A	81	N/A	N/A	N/A	N/A	N/A	89	N/A	N/A	N/A	N/A	N/A	97	N/A	N/A	N/A
Road Pavement and Finishes	117	72	70	75	65	82	78	89	78	82	76	89	74	83	86	74	85	72

Table C17 - Predicted Noise Levels for So Kwun Wat (No Mitigation Measures)

	Distance (m)		SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
	SKW - N1	SKW - N2	SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
So Kwun Wat																			
Construction Activity																			
Viaduct Foundation	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	75	17	100		
Viaduct Superstructure	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	80	24	100		
Earthworks Excavation	N/A	130	N/A	N/A	N/A	N/A	N/A	50	N/A	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A		
Road Pavement and Finishes	110	130	75	240	35	50	15	50	35	65	15	85	30	20	80	24	100		

Table C18 - Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant)

	SWL	Noise Levels													Planned Site			
		So Kwun Wat Ching Uk Tsuen	So Kwun Wat Lee Uk Tsuen	So Kwun Wat Govt. School	Lo Tsing Shan Tsuen (SKW Interchange - West Bound)	Lo Tsing Shan Tsuen (SKW Interchange - East Bound)	Scattered village house	Scattered village house	Scattered village house (next to Perowne Barracks)	Scattered village house (next to Perowne Barracks)	Scattered house (next to Perowne Barracks)	Scattered House (Tuen Mun, Road/Sol Kwun Wat)	Scattered village house in Area 56; east of Area 55	Scattered village house east of Area 55		Scattered village house east of Area 55		
		SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
So Kwun Wat																		
Construction Activity																		
Viaduct Foundation	119	74	N/A	77	67	84	81	91	N/A	84	78	91	76	85	N/A	77	90	74
Viaduct Superstructure	114	69	N/A	72	62	79	75	86	N/A	79	73	86	71	80	N/A	71	82	69
Earthworks Excavation	127	N/A	79	N/A	N/A	N/A	N/A	N/A	88	N/A	N/A	N/A	N/A	N/A	96	N/A	N/A	N/A
Road Pavement and Finishes	113	67	66	70	60	77	74	84	74	77	72	84	69	78	82	70	80	68

Table C18 - Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant)

So Kwun Wat	Distance (m)																
	SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
Construction Activity																	
Viaduct Foundation	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	75	17	100
Viaduct Superstructure	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	80	24	100
Earthworks Excavation	N/A	130	N/A	N/A	N/A	N/A	N/A	50	N/A	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A
Road Pavement and Finishes	110	130	75	240	35	50	15	50	35	65	15	85	30	20	60	24	100

Table C19 - Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant and Limiting the No. of Plant)

	Noise Levels											Planned Site Area					
	So Kwun Wat Ching Uk Tsuen	So Kwun Wat Lee Uk Tsuen	So Kwun Wat Govt. School	Lo Tsing Shan Tsuen (SKW) Interchange - West Bound	Lo Tsing Shan Tsuen (SKW) Interchange - East Bound	Scattered village house	Scattered village house	Scattered village house	Scattered village house (next to Perowne Barracks)	Scattered House (Tuen Mun Road/So Kwun Wat)	Scattered village house in Area 56		Scattered village house east of Area 55	Scattered village house east of Area 55			
	SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW-P1
So Kwun Wat	SWL																
Construction Activity																	
Viaduct Foundation	116																
Viaduct Superstructure	111																
Earthworks Excavation	124																
Road Pavement and Finishes	112																
		70	N/A	74	64	77	88	N/A	80	75	88	73	82	N/A	74	87	71
	66	N/A	69	59	76	72	83	N/A	76	70	83	68	77	N/A	68	79	66
	N/A	76	N/A	N/A	N/A	N/A	N/A	85	N/A	N/A	N/A	N/A	N/A	93	N/A	N/A	N/A
	66	65	70	60	76	73	84	73	76	71	84	69	78	81	69	80	67

Table C19 - Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant and Limiting the No. of Plant)

So Kwun Wat	Distance (m)																
	SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
Construction Activity																	
Viaduct Foundation	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	75	17	100
Viaduct Superstructure	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	80	24	100
Earthworks Excavation	N/A	130	N/A	N/A	N/A	N/A	N/A	50	N/A	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A
Road Pavement and Finishes	110	130	75	240	35	50	15	50	35	65	15	85	30	20	80	24	100

Table C.20 : Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant, Limiting the No. of Plant and Use of Movable Noise Barriers)

So Kwun Wat	SWL	Noise Levels																	
		So Kwun Wat Ching Uk Tsuen	So Kwun Wat Lee Uk Tsuen	So Kwun Wat Gov. School	Lo Tsing Shan Tsuen (SKW Interchange - West Bound)	Lo Tsing Shan Tsuen (SKW Interchange - East Bound)	Scattered village house	Scattered village house	Scattered village house	Scattered village house (next to Perowne Barracks)	Scattered village house (next to Perowne Barracks)	Scattered village house (next to Mun Road/So Kwun Wat)	Scattered village house, east of Area 56	Scattered village house, east of Area 55	Planned Site Area 56 P/SPS				
		SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
Construction Activity	115	70	N/A	73	63	80	77	87	N/A	80	80	74	87	72	81	N/A	73	86	70
Viaduct Foundation	111	66	N/A	69	59	76	72	83	N/A	76	76	70	83	68	77	N/A	68	78	66
Viaduct Superstructure	119	N/A	72	N/A	N/A	N/A	N/A	N/A	80	N/A	N/A	N/A	N/A	N/A	N/A	88	N/A	N/A	N/A
Earthworks Excavation	111	65	64	68	58	75	72	82	72	75	70	82	82	67	78	80	68	78	66
Road Pavement and Finishes																			

Table C20 - Predicted Noise Levels for So Kwun Wat (Use of Quiet Plant, Limiting the No. of Plant and Use of Movable Noise Barriers)

So Kwun Wat	Distance (m)																
	SKW - N1	SKW - N2	SKW - N3	SKW - N4	SKW - N5	SKW - N6	SKW - N7	SKW - N8	SKW - N9	SKW - N10	SKW - N11	SKW - N12	SKW - N13	SKW - N14	SKW - N15	SKW - N16	SKW - P1
Construction Activity	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	75	17	100
Viaduct Foundation	110	N/A	75	240	35	50	15	N/A	35	65	15	85	30	N/A	80	24	100
Viaduct Superstructure	N/A	130	N/A	N/A	N/A	N/A	N/A	50	N/A	N/A	N/A	N/A	N/A	20	N/A	N/A	N/A
Earthworks Excavation	110	130	75	240	35	50	15	50	35	65	15	85	30	20	80	24	100
Road Pavement and Finishes																	

Table C20a - Predicted Noise Levels 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	SWL	Lo Tsing Shan	Lo Tsing Shan	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Scattered	Distance	SKW									
		Interchange - West Bound	Interchange - East Bound	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Interchange - West Bound	Interchange - East Bound	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	Lo Tsing Shan Tauen (SKW)	(m)	N5	N6	N7	N8	N9	N11	N13	N14	N16
Construction Activity Viaduct Foundation Viaduct Superstructure Earthworks Excavation (with rock drill only) Earthworks Excavation (exclude rock drill) Road Pavement and Finishes	107	71	68	78	N/A	71	78	78	78	72	77	77	77	77	77	77	77	77	35	50	N/A	15	35	15	30	N/A	30	N/A	17
	105	69	66	78	N/A	69	76	76	76	70	72	72	72	72	72	72	72	72	35	50	N/A	15	35	15	30	N/A	30	N/A	24
	113	N/A	N/A	N/A	74	N/A	N/A	N/A	N/A	N/A	N/A	82	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	50	N/A	N/A	N/A	N/A	N/A	20	N/A
	109	N/A	N/A	N/A	70	70	70	70	70	70	71	75	75	75	75	75	75	75	N/A	50	50	15	35	15	30	N/A	30	20	N/A
106	70	67	77	67	67	70	77	77	77	71	75	75	75	75	75	75	75	35	50	50	15	35	15	30	20	20	20	24	

Table C20b Predicted Noise Levels 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 the % on time)

So Kwun Wat	SWL	Lo Tsing Shan Tsuen (SKW Interchange - West Bound)	Lo Tsing Shan Tsuen (SKW Interchange - East Bound)	Scattered village house	Scattered village house	Scattered village house (next to Perowne Barracks)	Scattered House (Tuen Mun Road/So Kwun Wat Road)	Scattered village house in Area 56	Scattered village house east of Area 55	Distance (m)	SKW					
											N5	N6	N7	N8	N9	N11
Construction Activity	104	68	65	75	N/A	68	69	N/A	74	35	15	35	15	30	N/A	17
Viaduct Foundation	102	66	63	73	N/A	66	67	N/A	69	35	15	35	15	30	N/A	24
Viaduct Superstructure	106	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	50	N/A	N/A	N/A	N/A	20	N/A
Earthworks Excavation (with rock drill only)	106	N/A	N/A	N/A	67	N/A	N/A	75	N/A	50	N/A	N/A	N/A	N/A	20	N/A
Earthworks Excavation (exclude rock drill)	103	67	64	74	64	67	68	72	70	35	15	35	15	30	20	24
Road Pavement and Finishes																

