

Agreement No. CE 39/2001
Shenzhen Western Corridor - Investigation and Planning

Appendix 6A2 - Construction Noise Assessment

Table 6A2.1 Noise Sensitive Receivers and Representative Assessment Points

Noise Sensitive Receivers	Representative Assessment Points	Coordinates		Remarks
		E	N	
Rural/village houses at Ngau Hom Shek	8004	815430	835131	1 storey
Rural/village houses at Ngau Hom Shek	8010	815297	835020	1 storey
Rural/village houses at Ngau Hom Shek	8016	815243	834922	1 storey
Rural/village houses at Ngau Hom Shek	8025	815072	834912	1 storey

**Agreement No. CE 39/2001
Shenzhen Western Corridor - Investigation and Planning**

Appendix 6A3 - Construction Noise Assessment

Table 6A3.1 Notional Noise Sources for Assessment of Construction Noise at Ngau Hom Shek

Alignment	Closest 3 pier pairs	NNS	Coordinates	
			Easting	Northing
SWC alignment	SWC Pier 1	SWC-A	815201	835053
	SWC Pier 2	SWC-B	815159	835114
	SWC Pier 3	SWC-C	815117	835176
DBL alignment within SWC Work Site	WA Pier 1	WA-1	815243	834993
	WA Pier 2	WA-2	815286	834932
	WA Pier 3	WA-3	815329	834871
DBL alignment	DBL Pier 1	DBL-A	815376	834813
	DBL Pier 2	DBL-B	815416	834771
	DBL Pier 3	DBL-C	815522	834702
SWC Work Site	WA Pier 3	WA-3	815286	834932

Appendix 6A4 - Construction Noise Assessment
Table 6A4.1 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity 1 - SWC Shore Alignment Construction
Construction Equipment Used within 500m from the Shoreline

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228	
			CNP No.	SWL		SWL
Construction of Temporary Access Bridge on Shallow Water						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Lorry	1	CNP 141	112	Table C.8 Ref No.25	96
	Driven Piling Rig	1	CNP 165	115	n/a	115
	Barge	1	CNP 061	104	n/a	104
			TOTAL	118	TOTAL	115
			Buffer distance (m)	79	Buffer distance (m)	56
Construction of Cofferdam						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Vibrator	1	CNP170	113	Table C.6 Ref No. 20	102
	Lorry	1	CNP 141	112	Table C.8 Ref No.25	96
			TOTAL	117	TOTAL	104
			Buffer distance (m)	71	Buffer distance (m)	16
Construction of Piles						
	Bored Piling Rig	2	CNP 166	100	n/a	100
	Mobile Crane	1	CNP048	112	Table C.7 Ref No.118	99
			TOTAL	113	TOTAL	104
			Buffer distance (m)	45	Buffer distance (m)	16
Construction of Pilecaps						
	Concrete Pump	1	CNP047	109	Table C.6 Ref. No. 36	106
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96
	Lorry	1	CNP141	112	Table C.8 Ref No.25	96
	Water Pump	2	CNP 282	103	Table C.7 Ref. No. 68	94
	Generator	1	CNP101	108	Table C.7 Ref No.54	89
	Compressor	1	CNP 002	102	CNP 001	100
			TOTAL	116	TOTAL	108
			Buffer distance (m)	63	Buffer distance (m)	25
Construction of Bridge Columns						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Compressor	1	CNP 002	102	CNP 001	100
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89
	Concrete Pump	1	CNP 047	109	Table C.6 Ref. No. 36	106
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
			TOTAL	119	TOTAL	109
			Buffer distance (m)	89	Buffer distance (m)	28
Erection of Deck Travellers						
	Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Winch	1	CNP 261	110	CNP 263	102
			TOTAL	114	TOTAL	104
			Buffer distance (m)	50	Buffer distance (m)	18
Construction of Bridge Deck						
	Deck Traveller	2	n/a		n/a	
	Barge	1	CNP 061	104	n/a	104
	Tugboat	1	CNP 221	110	n/a	110
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
	Track-mounted Crane	2	CNP 048	112	Table C.7 Ref No.118	99
	Compressor for Prestressing	2	CNP 002	102	CNP 001	100
	Truck	1	CNP 067	117	Table C.3 Ref. No. 52	109
			TOTAL	120	TOTAL	114
			Buffer distance (m)	100	Buffer distance (m)	50
Road Construction and Paving						
	Lorry	2	CNP 141	112	Table C.8 Ref No.25	96
	Road Roller	2	CNP 185	108	Table C.8 Ref. No. 30	101
	Concrete Mixer Truck	2	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
	Asphalt Paver	2	CNP 004	109	Table C.8 Ref. No. 24	101
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
			TOTAL	121	TOTAL	109
			Buffer distance (m)	112	Buffer distance (m)	28
Landscaping						
	Excavator	1	CNP 081	112	Table C.3 Ref. No. 40	108
	Loader	1	BS5228 Table 3 Ref No. 97	105	Table C.3 Ref. No. 97	105
	Lorry	1	CNP 141	112	Table C.8 Ref No.25	96
			TOTAL	115	TOTAL	110
			Buffer distance (m)	56	Buffer distance (m)	32

Appendix 6A4 - Construction Noise Assessment
 Table 6A4.1 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

PME Inventory for one Working Unit
 i.e. one pair of bridge piers

Construction Activity 1 - SWC Shore Alignment Construction
 Construction Equipment Used within 500m from the Shoreline

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228	
			CNP No.	SWL	SWL	SWL

SWL : Sound Power Level in dB

Appendix 6A4 - Construction Noise Assessment
Table 6A4.2 Inventory of Powered Mechanical Equipment for Construction Activities at DBL Alignment

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity 2 - DBL Alignment Construction

Located at the temporary work site, to be construction at the last phase after work site demolished

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228		MITIGATION LEVEL 2 Correction for site hoar purpose-built
			CNP No.	SWL		SWL	
Construction of Piles							
	Bored Piling Rig	2	CNP 166	100	n/a	100	-10
	Mobile Crane	1	CNP048	112	Table C.7 Ref No.118	99	-5
			TOTAL	113	TOTAL	104	TOTAL
			Buffer distance (m)	45	Buffer distance (m)	16	Buffer distance (m)
Construction of Pilecaps							
	Concrete Pump	1	CNP047	109	Table C.6 Ref. No. 36	106	-10
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96	-10
	Lorry	1	CNP141	112	Table C.8 Ref No.25	96	-5
	Water Pump	2	CNP 282	103	Table C.7 Ref. No. 68	94	-10
	Generator	1	CNP101	108	Table C.7 Ref.No.54	89	-10
	Compressor	1	CNP 002	102	CNP 001	100	-10
			TOTAL	116	TOTAL	108	TOTAL
			Buffer distance (m)	63	Buffer distance (m)	25	Buffer distance (m)
Construction of Bridge Columns							
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99	-5
	Compressor	1	CNP 002	102	CNP 001	100	-10
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89	-10
	Concrete Pump	1	CNP 047	109	Table C.6 Ref. No. 36	106	-10
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96	-10
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98	-5
			TOTAL	119	TOTAL	109	TOTAL
			Buffer distance (m)	89	Buffer distance (m)	28	Buffer distance (m)
Erection of Deck Travellers							
	Crane	1	CNP 048	112	Table C.7 Ref No. 118	99	
	Winch	1	CNP 261	110	CNP 263	102	
			TOTAL	114	TOTAL	104	TOTAL
			Buffer distance (m)	50	Buffer distance (m)	16	Buffer distance (m)
Construction of Bridge Deck							
	Deck Traveller	2	n/a		n/a		
	Generator	2	CNP 101	108	Tab C.7 Ref No.54	89	
	Track-mounted Crane	2	CNP 048	112	Table C.7 Ref No. 118	99	
	Compressor for Prestressing	2	CNP 002	102	CNP 001	100	
	Truck	1	CNP 067	117	Table C.3 Ref. No. 52	109	
			TOTAL	120	TOTAL	111	TOTAL
			Buffer distance (m)	100	Buffer distance (m)	35	Buffer distance (m)
Road Construction and Paving							
	Lorry	2	CNP 141	112	Table C.8 Ref No.25	96	
	Road Roller	2	CNP 185	108	Table C.8 Ref. No. 30	101	
	Concrete Mixer Truck	2	CNP044	109	Table C.6 Ref. No. 33	96	
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98	
	Asphalt Paver	2	CNP 004	109	Table C.8 Ref. No. 24	101	
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89	
			TOTAL	121	TOTAL	109	TOTAL
			Buffer distance (m)	112	Buffer distance (m)	28	Buffer distance (m)
Landscaping							
	Excavator	1	CNP 081	112	Table C.3 Ref. No. 40	108	
	Loader	1	BS5228Table3Ref.No. 97	105	Table C.3 Ref. No. 97	105	
	Lorry	1	CNP 141	112	Table C.8 Ref No.25	96	
			TOTAL	115	TOTAL	110	TOTAL
			Buffer distance (m)	56	Buffer distance (m)	32	Buffer distance (m)

SWL : Sound Power Level in dB

Appendix 6A4 - Construction
Table 6A4.2 Inventory of F

PME Inventory for one Work
i.e. one pair of bridge piers

Construction Activity 2 - I
Located at the temporary work

Activity	SWL	
Construction	90	
	94	
	97	
	7	
Construction	96	
	86	
	91	
	84	
	79	
	90	
	99	
	9	
	Construction	94
		90
79		
96		
86		
93		
101		
11		
Erection of i	99	
	102	
	104	
	16	
Construction	89	
	102	
	100	
	109	
	111	
	35	
Road Const.	96	
	101	
	96	
	98	
	101	
	89	
	109	
	28	
Landscaping	108	
	105	
	96	
	110	
	32	

SWL : Sound Power Level i

Appendix 6A4 - Construction Noise Assessment

Table 6A4.3 Inventory of Powered Mechanical Equipment for Construction Activities at DBL Alignment

Construction Activity 3 - DBL Alignment Construction

Construction of Bridge - Segmental Method

Equipment for one pair of piers

Bridge	Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228		MITIGATION LEVEL 2 Correction for site hoarding purpose-built			
				CNP No.	SWL	SWL	SWL	SWL			
Segmental Construction											
Piling	Excavation	Crane, mobile	1	CNP048	112	Table C.7 Ref No.118	99	-5	94		
		Large diameter bored, oscillatory/grab & chis	2	CNP164/165	115	n/a	115	-10	105		
		Excavator	1	CNP081	112	Table C.3 Ref. No. 40	108	-10	98		
		Dump truck	1	CNP067	117	Table C.3 Ref. No. 52	109	-5	104		
		Air compressor	1	CNP002	102	CNP 001	100	-10	90		
		Generator	1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
		Water pump	2	CNP282	103	Table C.7 Ref. No. 68	94	-10	84		
		Breaker	1	CNP025	111	n/a	111	-10	101		
			TOTAL		TOTAL	122	TOTAL	120	TOTAL	110	
			Buffer distance (m)		Buffer distance (m)	126	Buffer distance (m)	100	Buffer distance (m)	32	
		Concreting	Crane, mobile	1	CNP048	112	Table C.7 Ref No.118	99	-5	94	
	Large diameter bored, oscillatory/grab & chis		1	CNP164/165	115	n/a	115	-10	105		
	Concrete lorry mixer		1	CNP044	109	Table C.6 Ref. No. 33	96	-10	86		
	Generator		1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
	Water Pump		1	CNP282	103	Table C.7 Ref. No. 68	94	-10	84		
			TOTAL		TOTAL	118	TOTAL	115	TOTAL	105	
		Buffer distance (m)		Buffer distance (m)	79	Buffer distance (m)	56	Buffer distance (m)	18		
Pile Cap	Excavation	Air compressor	1	CNP002	102	CNP 001	100	-10	90		
		Breaker, hand held	2	CNP023	108	n/a	108	-10	98		
		Excavator	1	CNP081	112	Table C.3 Ref. No. 40	108	-10	98		
		Dump truck	1	CNP067	117	Table C.3 Ref. No. 52	109	-5	104		
		Generator	1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
		Water pump	2	CNP282	103	Table C.7 Ref. No. 68	94	-10	84		
				TOTAL		TOTAL	119	TOTAL	115	TOTAL	107
				Buffer distance (m)		Buffer distance (m)	89	Buffer distance (m)	56	Buffer distance (m)	22
		Concreting	Crane, mobile	1	CNP048	112	Table C.7 Ref No.118	99	-5	94	
	Concrete lorry mixer		1	CNP044	109	Table C.6 Ref. No. 33	96	-10	86		
	Generator		1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
	Poker, vibratory, hand held		2	CNP170	113	Table C.6 Ref. No. 40	98	-5	93		
				TOTAL		TOTAL	118	TOTAL	104	TOTAL	98
				Buffer distance (m)		Buffer distance (m)	79	Buffer distance (m)	16	Buffer distance (m)	8
	Pier	Temporary Works	Crane, mobile	2	CNP048	112	Table C.7 Ref No.118	99	-5	94	
Generator			1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
				TOTAL		TOTAL	115	TOTAL	102	TOTAL	97
				Buffer distance (m)		Buffer distance (m)	56	Buffer distance (m)	13	Buffer distance (m)	7
		Concreting	Concrete pump, stationary	1	CNP047	109	Table C.6 Ref. No. 36	106	-10	96	
Concrete lorry mixer			1	CNP044	109	Table C.6 Ref. No. 33	96	-10	86		
Generator			1	CNP102	100	Table C.7 Ref No.54	89	-10	79		
Poker, vibratory, hand held			2	CNP170	113	Table C.6 Ref. No. 40	98	-5	93		
				TOTAL		TOTAL	118	TOTAL	108	TOTAL	99
				Buffer distance (m)		Buffer distance (m)	79	Buffer distance (m)	25	Buffer distance (m)	9
Superstructure	Segmental	Gantry Girder, mobile	1	CNP048	112	Table C.7 Ref No.112	102		102		
	Launching	Crane, mobile	1	CNP048	112	Table C.7 Ref No.118	99		99		
		Lorry	1	CNP141	112	Table C.8 Ref No.25	96		96		
		Generator	1	CNP102	100	Table C.7 Ref No.54	89		89		
				TOTAL		TOTAL	117	TOTAL	105	TOTAL	105
			Buffer distance (m)		Buffer distance (m)	71	Buffer distance (m)	18	Buffer distance (m)	18	
		Fabrication yard	Concrete lorry mixer	1	CNP044	109	Table C.6 Ref. No. 33	96		96	
	Generator		1	CNP102	100	Table C.7 Ref No.54	89		89		
	Compressor		1	CNP002	102	CNP001	100		100		
	Lorry		1	CNP141	112	Table C.8 Ref No.25	96		96		
				TOTAL		TOTAL	114	TOTAL	103	TOTAL	103
			Buffer distance (m)		Buffer distance (m)	50	Buffer distance (m)	14	Buffer distance (m)	14	
		Noise Barriers	Crane, mobile	1	CNP048	112	Table C.7 Ref No.118	99		99	
	Generator		1	CNP102	100	Table C.7 Ref No.54	89		89		
	Lorry		1	CNP141	112	Table C.8 Ref No.25	96		96		
			TOTAL		TOTAL	115	TOTAL	101	TOTAL	101	
		Buffer distance (m)		Buffer distance (m)	56	Buffer distance (m)	11	Buffer distance (m)	11		

Appendix 6A4 - Construction Noise Assessment
 Table 6A4.4 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

Construction Activity 4 - SWC Work Site - Site Preparation

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228		MITIGATION LEVEL 2 Correction for site hoarding purpose-built	
			CNP No.	SWL	SWL	SWL		
<i>Site Preparation</i>								
	Compressor	2	CNP 002	102	CNP 001	100	-10	90
	Excavator	1	CNP 081	112	Table C.3 Ref. No. 40	108	-10	98
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89	-10	79
	Bulldozer/Ripper	2	CNP 030	115	n/a	115	-5	110
	Lorry	2	CNP 141	112	Table C.8 Ref No.25	96	-5	91
	Scraper	1	CNP 204	119	Table C.9 Ref No. 16	108	-5	103
	Loader	1	BS5228Table3Ref.No. 97	105	Table C.3 Ref. No. 97	105	-10	95
	Motor Grader	1	CNP 104	113	Table C.9 Ref. No. 11	110	-5	105
			TOTAL	123	TOTAL	120	TOTAL	114
			Buffer distance (m)	141	Buffer distance (m)	100	Buffer distance (m)	50

SWL : Sound Power Level in dB

Appendix 6A4 - Construction Noise Assessment
 Table 6A4.5 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

Construction Activity 5 - Construction of Haul Road

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant B55228	
			CNP No.	SWL		SWL
<i>Construction of Haul Road</i>						
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
	Excavator	1	CNP 081	112	Table C.3 Ref. No. 40	108
	Lorry	1	CNP 141	112	Table C.8 Ref No.25	96
	Compressor	1	CNP 002	102	CNP 001	100
			TOTAL	119	TOTAL	110
			Buffer distance (m)	89	Buffer distance (m)	32

SWL : Sound Power Level in dB

Appendix 6A4 - Construction Noise Assessment
Table 6A4.5 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228	
			CNP No.	SWL		SWL
Construction of Temporary Access Bridge on Shallow Water						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Lorry	1	CNP 141	112	Table C.8 Ref. No. 25	96
	Driven Piling Rig	1	CNP 165	115	n/a	115
			TOTAL	118	TOTAL	115
			Buffer distance (m)	79	Buffer distance (m)	56
Construction of Cofferdam						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Vibrator	1	CNP170	113	Table C.9 Ref No. 20	102
	Lorry	1	CNP 141	112	Table C.8 Ref. No. 25	96
			TOTAL	117	TOTAL	104
			Buffer distance (m)	71	Buffer distance (m)	16
Construction of Piles						
	Bored Piling Rig	2	CNP 166	100	n/a	100
	Mobile Crane	1	CNP048	112	Table C.7 Ref No.118	99
			TOTAL	113	TOTAL	104
			Buffer distance (m)	45	Buffer distance (m)	16
Construction of Pilecaps						
	Concrete Pump	1	CNP047	109	Table C.6 Ref. No. 36	106
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96
	Lorry	1	CNP141	112	Table C.8 Ref. No. 25	96
	Water Pump	2	CNP 282	103	Table C.7 Ref. No. 68	94
	Generator	1	CNP101	108	Table C.7 Ref No.54	89
	Compressor	1	CNP 002	102	CNP 001	100
			TOTAL	116	TOTAL	108
			Buffer distance (m)	63	Buffer distance (m)	25
Construction of Bridge Columns						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Compressor	1	CNP 002	102	CNP 001	100
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89
	Concrete Pump	1	CNP 047	109	Table C.6 Ref. No. 36	106
	Concrete Mixer Truck	1	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
			TOTAL	119	TOTAL	109
			Buffer distance (m)	89	Buffer distance (m)	28
Erection of Deck Travellers						
	Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Winch	1	CNP 261	110	CNP 263	102
			TOTAL	114	TOTAL	104
			Buffer distance (m)	50	Buffer distance (m)	16
Construction of Bridge Deck						
	Deck Traveller	2	n/a		n/a	
	Barge	1	CNP 061	104	n/a	104
	Tugboat	1	CNP 221	110	n/a	110
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
	Track-mounted Crane	2	CNP 048	112	Table C.7 Ref No.118	99
	Compressor for Prestressing	2	CNP 002	102	CNP 001	100
	Truck	1	CNP 067	117	Table C.3 Ref. No. 52	109
			TOTAL	120	TOTAL	114
			Buffer distance (m)	100	Buffer distance (m)	50
Road Construction and Paving						
	Lorry	2	CNP 141	112	Table C.8 Ref. No. 25	96
	Road Roller	2	CNP 185	108	Table C.8 Ref. No. 30	101
	Concrete Mixer Truck	2	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
	Asphalt Paver	2	CNP 004	109	Table C.6 Ref. No. 24	101
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
			TOTAL	121	TOTAL	109
			Buffer distance (m)	112	Buffer distance (m)	28
Landscaping						
	Excavator	1	CNP 081	112	Table C.3 Ref. No. 40	108
	Loader	1	BS5228Table.3Ref.No. 97	105	Table C.3 Ref. No. 97	105
	Lorry	1	CNP 141	112	Table C.8 Ref. No. 25	96
			TOTAL	115	TOTAL	110
			Buffer distance (m)	56	Buffer distance (m)	32

Appendix 6A4 - Construction Noise Assessment
Table 6A4.5 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

Activity	Proposed Construction Plants	Nos	UNMITIGATED	MITIGATION LEVEL 1	
			CNP No.	Quiet Plant BS5228	SWL
SWL : Sound Power Level in dB					

Appendix 6A4 - Construction Noise Assessment
Table 6A4.6 Inventory of Powered Mechanical Equipment for Construction Activities at SWC Alignment

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)

Activity	Proposed Construction Plants	Nos	UNMITIGATED		MITIGATION LEVEL 1 Quiet Plant BS5228	
			CNP No.	SWL		SWL
Construction of Temporary Access Bridge on Shallow Water						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Lorry	1	CNP 141	112	Table C.8 Ref. No. 25	96
	Driven Piling Rig	1	CNP 165	115	n/a	115
			TOTAL	118	TOTAL	115
			Buffer distance (m)	79	Buffer distance (m)	56
Construction of Cofferdam						
	Mobile Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Vibrator	1	CNP170	113	Table C.6 Ref No. 20	102
	Lorry	1	CNP 141	112	Table C.8 Ref. No. 25	96
			TOTAL	117	TOTAL	104
			Buffer distance (m)	71	Buffer distance (m)	16
Construction of Piles on Deep Water						
	Bored Piling Rig	1	CNP 164	115	n/a	115
	Water Pump	1	CNP 282	103	Table C.7 Ref. No. 65	94
			TOTAL	115	TOTAL	115
			Buffer distance (m)	56	Buffer distance (m)	56
Construction of Pilecaps on Deep Water						
	Concrete Pump	1	CNP 047	109	Table C.6 Ref. No. 36	106
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89
	Barge	2	CNP 061	104	n/a	104
	Tugboat	1	CNP 221	110	n/a	110
	Compressor	1	CNP 002	102	CNP 001	100
			TOTAL	120	TOTAL	119
			Buffer distance (m)	100	Buffer distance (m)	89
Construction of Bridge Columns on Deep Water						
	Compressor	1	CNP 002	102	CNP 001	100
	Generator	1	CNP 101	108	Table C.7 Ref No.54	89
	Concrete Pump	1	CNP 047	109	Table C.6 Ref. No. 36	106
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
	Barge	1	CNP 061	104	n/a	104
	Tugboat	1	CNP 221	110	n/a	110
			TOTAL	118	TOTAL	113
			Buffer distance (m)	79	Buffer distance (m)	45
Erection of Deck Travellers						
	Crane	1	CNP 048	112	Table C.7 Ref No.118	99
	Winch	1	CNP 261	110	CNP 263	102
			TOTAL	114	TOTAL	104
			Buffer distance (m)	50	Buffer distance (m)	16
Construction of Bridge Deck						
	Deck Traveller	2	n/a		n/a	
	Barge	1	CNP 061	104	n/a	104
	Tugboat	1	CNP 221	110	n/a	110
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
	Track-mounted Crane	2	CNP 048	112	Table C.7 Ref No.118	99
	Compressor for Prestressing	2	CNP 002	102	CNP 001	100
	Truck	1	CNP 067	117	Table C.3 Ref. No. 52	109
			TOTAL	120	TOTAL	114
			Buffer distance (m)	100	Buffer distance (m)	50
Road Construction and Paving						
	Lorry	2	CNP 141	112	Table C.8 Ref. No. 25	96
	Road Roller	2	CNP 185	108	Table C.8 Ref. No. 30	101
	Concrete Mixer Truck	2	CNP044	109	Table C.6 Ref. No. 33	96
	Vibratory Poker	2	CNP 170	113	Table C.6 Ref. No. 40	98
	Asphalt Paver	2	CNP 004	109	Table C.8 Ref. No. 24	101
	Generator	2	CNP 101	108	Table C.7 Ref No.54	89
			TOTAL	121	TOTAL	109
			Buffer distance (m)	112	Buffer distance (m)	28

SWL : Sound Power Level in dB

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Appendix 6A5 - Construction Noise Assessment
 Table 6A5.1 Distance of Assessment Points to Notional Noise Sources

Notional Noise Source	E N		AP8004	AP8010	AP8016	AP8025
	E	N	815430 835151	815297 835020	815243 834922	815072 834912
SWC-A	815201	835053	249	101	137	191
SWC-B	815159	835114	274	167	209	220
SWC-C	815117	835176	314	239	283	268
WA-1	815243	834993	245	60	71	190
WA-2	815286	834932	262	89	44	215
WA-3	815329	834871	298	153	100	260
DBL-A	815376	834813	342	221	172	320
DBL-B	815416	834771	380	275	230	372
DBL-C	815522	834702	459	389	355	496

Appendix 6A5 - Construction Noise Assessment
Table 6A5.2 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 1 - SWC Shore Alignment Construction
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities	Max noise (SWL)
Temporary access bridge	118
Cofferdam	117
Piles	113
Pile caps	116
Bridge columns	119
Deck Traveller	114
Decks	120
Roadworks	121

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 1 - SWC Shore Alignment Construction							
Temporary access bridge							
	SWC-A	815201	835053	65	73	70	67
	SWC-B	815159	835114	64	69	67	66
	SWC-C	815117	835176	63	65	64	64
	Combined Total			69	75	72	71
Cofferdam							
	SWC-A	815201	835053	64	72	69	66
	SWC-B	815159	835114	63	68	66	65
	SWC-C	815117	835176	62	64	63	63
	Combined Total			68	74	71	70
Piles							
	SWC-A	815201	835053	60	68	65	62
	SWC-B	815159	835114	59	64	62	61
	SWC-C	815117	835176	58	60	59	59
	Combined Total			64	70	67	66
Pile caps							
	SWC-A	815201	835053	63	71	68	65
	SWC-B	815159	835114	62	67	65	64
	SWC-C	815117	835176	61	63	62	62
	Combined Total			67	73	70	69
Bridge columns							
	SWC-A	815201	835053	66	74	71	68
	SWC-B	815159	835114	65	70	68	67
	SWC-C	815117	835176	64	66	65	65
	Combined Total			70	76	73	72
Deck Traveller							
	SWC-A	815201	835053	61	69	66	63
	SWC-B	815159	835114	60	65	63	62
	SWC-C	815117	835176	59	61	60	60
	Combined Total			65	71	68	67
Decks							
	SWC-A	815201	835053	67	75	72	69
	SWC-B	815159	835114	66	71	69	68
	SWC-C	815117	835176	65	67	66	66
	Combined Total			71	77	74	73
Roadworks							
	SWC-A	815201	835053	68	76	73	70
	SWC-B	815159	835114	67	72	70	69
	SWC-C	815117	835176	66	68	67	67
	Combined Total			72	78	75	74
Worst-case noise level				72	78	75	74

Assumed three piers of nearest piers working in the same time.

Appendix 6A5 - Construction Noise Assessment
Table 6A5.3 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 1 - SWC Shore Alignment Construction
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities	Max noise (SWL)
Temporary access bridge	115
Cofferdam	104
Piles	104
Pile caps	108
Bridge columns	109
Deck Traveller	104
Decks	114
Roadworks	110

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 1 - SWC Shore Alignment Construction							
Temporary access bridge							
	SWC-A	815201	835053	62	70	67	64
	SWC-B	815159	835114	61	66	64	63
	SWC-C	815117	835176	60	62	61	61
	Combined Total			66	72	69	68
Cofferdam							
	SWC-A	815201	835053	51	59	56	53
	SWC-B	815159	835114	50	55	53	52
	SWC-C	815117	835176	49	51	50	50
	Combined Total			55	61	58	57
Piles							
	SWC-A	815201	835053	51	59	56	53
	SWC-B	815159	835114	50	55	53	52
	SWC-C	815117	835176	49	51	50	50
	Combined Total			55	61	58	57
Pile caps							
	SWC-A	815201	835053	55	63	60	57
	SWC-B	815159	835114	54	59	57	56
	SWC-C	815117	835176	53	55	54	54
	Combined Total			59	65	62	61
Bridge columns							
	SWC-A	815201	835053	56	64	61	58
	SWC-B	815159	835114	55	60	58	57
	SWC-C	815117	835176	54	56	55	55
	Combined Total			60	66	63	62
Deck Traveller							
	SWC-A	815201	835053	51	59	56	53
	SWC-B	815159	835114	50	55	53	52
	SWC-C	815117	835176	49	51	50	50
	Combined Total			55	61	58	57
Decks							
	SWC-A	815201	835053	61	69	66	63
	SWC-B	815159	835114	60	65	63	62
	SWC-C	815117	835176	59	61	60	60
	Combined Total			65	71	68	67
Roadworks							
	SWC-A	815201	835053	57	65	62	59
	SWC-B	815159	835114	56	61	59	58
	SWC-C	815117	835176	55	57	56	56
	Combined Total			61	67	64	63
Worst-case noise level				66	72	69	68

Assumed three piers of nearest piers working in the same time.

Appendix 6A5 - Construction Noise Assessment
Table 6A5.4 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 2 - DBL Alignment Construction
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities Max noise (SWL)

Piles	113
Pile caps	116
Bridge columns	119
Deck Traveller	114
Decks	120
Roadworks	121

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 2 - DBL Alignment Construction							
Piles							
	WA-1	815243	834993	60	72	71	62
	WA-2	815286	834932	60	69	75	61
	WA-3	815329	834871	59	64	68	60
	Combined Total			64	75	<u>77</u>	66
Pile caps							
	WA-1	815243	834993	63	75	74	65
	WA-2	815286	834932	63	72	<u>78</u>	64
	WA-3	815329	834871	62	67	71	63
	Combined Total			67	<u>78</u>	<u>80</u>	69
Bridge columns							
	WA-1	815243	834993	66	<u>79</u>	<u>77</u>	68
	WA-2	815286	834932	66	75	<u>81</u>	67
	WA-3	815329	834871	65	70	74	66
	Combined Total			70	<u>81</u>	<u>83</u>	72
Deck Traveller							
	WA-1	815243	834993	61	73	72	63
	WA-2	815286	834932	66	75	<u>81</u>	67
	WA-3	815329	834871	65	70	74	66
	Combined Total			69	<u>79</u>	<u>82</u>	71
Decks							
	WA-1	815243	834993	67	<u>79</u>	<u>78</u>	69
	WA-2	815286	834932	66	75	<u>81</u>	67
	WA-3	815329	834871	65	70	74	66
	Combined Total			71	<u>81</u>	<u>83</u>	73
Roadworks							
	WA-1	815243	834993	68	<u>80</u>	<u>79</u>	70
	WA-2	815286	834932	66	75	<u>81</u>	67
	WA-3	815329	834871	65	70	74	66
	Combined Total			71	<u>82</u>	<u>84</u>	73
Worst-case noise level				71	<u>82</u>	<u>84</u>	73

Assumed three piers of nearest piers working in the same time.

Appendix 6A5 - Construction Noise Assessment

Table 6A5.5 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 2 - DBL Alignment Construction
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities Max noise (SWL)

Piles	97
Pile caps	99
Bridge columns	101
Deck Traveller	104
Decks	111
Roadworks	110

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 2 - DBL Alignment Construction							
<i>Piles</i>							
	WA-1	815243	834993	44	56	55	46
	WA-2	815286	834932	44	53	59	45
	WA-3	815329	834871	43	48	52	44
	Combined Total			48	59	61	50
<i>Pile caps</i>							
	WA-1	815243	834993	46	58	57	48
	WA-2	815286	834932	46	55	61	47
	WA-3	815329	834871	45	50	54	46
	Combined Total			50	61	63	52
<i>Bridge columns</i>							
	WA-1	815243	834993	48	60	59	50
	WA-2	815286	834932	48	57	63	49
	WA-3	815329	834871	47	52	56	48
	Combined Total			52	63	65	54
<i>Deck Traveller</i>							
	WA-1	815243	834993	51	63	62	53
	WA-2	815286	834932	48	57	63	49
	WA-3	815329	834871	47	52	56	48
	Combined Total			54	65	66	56
<i>Decks</i>							
	WA-1	815243	834993	58	70	69	60
	WA-2	815286	834932	48	57	63	49
	WA-3	815329	834871	47	52	56	48
	Combined Total			59	71	70	61
<i>Roadworks</i>							
	WA-1	815243	834993	57	69	68	59
	WA-2	815286	834932	48	57	63	49
	WA-3	815329	834871	47	52	56	48
	Combined Total			58	70	69	60
Worst-case noise level				59	71	70	61

Assumed three piers of nearest piers working in the same time.

Appendix 6A5 - Construction Noise Assessment
 Table 6A5.6 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 3 - DBL Alignment Construction
 Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
 Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities	Max Noise (SWL)
Piles and pile caps	122
Pier	118
Superstructure	117

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 3 - DBL Alignment Construction							
<i>Piles and pile caps</i>							
	DBL-A	815376	834813	66	70	72	67
	DBL-B	815416	834771	65	68	70	66
	DBL-C	815522	834702	64	65	66	63
	Combined Total			70	73	75	70
<i>Pier</i>							
	DBL-A	815376	834813	62	66	68	63
	DBL-B	815416	834771	61	64	66	62
	DBL-C	815522	834702	60	61	62	59
	Combined Total			66	69	71	66
<i>Superstructure</i>							
	DBL-A	815376	834813	61	65	67	62
	DBL-B	815416	834771	60	63	65	61
	DBL-C	815522	834702	59	60	61	58
	Combined Total			65	68	70	65

Appendix 6A5 - Construction Noise Assessment
Table 6A5.7 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 3 - DBL Alignment Construction
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
 Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities	Max Noise (SWL)
Piles and pile caps	110
Pier	99
Superstructure	105

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 3 - DBL Alignment Construction							
Piles and pile caps							
	DBL-A	815376	834813	54	58	60	55
	DBL-B	815416	834771	53	56	58	54
	DBL-C	815522	834702	52	53	54	51
	Combined Total			58	61	63	58
Pier							
	DBL-A	815376	834813	43	47	49	44
	DBL-B	815416	834771	42	45	47	43
	DBL-C	815522	834702	41	42	43	40
	Combined Total			47	50	52	47
Superstructure							
	DBL-A	815376	834813	49	53	55	50
	DBL-B	815416	834771	48	51	53	49
	DBL-C	815522	834702	47	48	49	46
	Combined Total			53	56	58	53

Appendix 6A5 - Construction Noise Assessment
Table 6A5.9 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 4 - SWC Work Site
Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
 Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities **Max Noise (SWL)**
 Site preparation 114

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 4 - SWC Work Site							
	WA-3	815329	834871	60	65	69	61

Appendix 6A5 - Construction Noise Assessment

Table 6A5.8 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 4 - SWC Work Site
 Construction Noise Level at Assessment Points

Assumptions: All items of PME are grouped at a position of approximate geographical centre of the construction site
 Assessment points of the NSRs are chosen based on the nearest distance to the NNS.

Construction Activities Max Noise (SWL)
 Site preparation 123

				AP8004	AP8010	AP8016	AP8025
				815430	815297	815243	815072
				835151	835020	834922	834912
Construction Activity 4 - SWC Work Site							
	WA-3	815329	834871	69	74	78	70

Appendix 6A5 - Construction Noise Assessment

Table 6A5.10 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 7 -
 SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

	Distance (m)	Distance Correction dB(A)	Façade Effect dB(A)
Pier at 500m offshore, Intertidal Area 2	500	-62.0	3

Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

	SWL dB(A)	Predicted Noise Level dB(A)	Predicted noise Level for 3 pairs of piers dB(A)
<i>Temporary access bridge</i>	118	59	64
<i>Cofferdam</i>	117	58	63
<i>Piles</i>	113	54	59
<i>Pile caps</i>	116	57	62
<i>Bridge columns</i>	119	60	65
<i>Deck Traveller</i>	114	55	60
<i>Decks</i>	120	61	66
<i>Roadworks</i>	121	62	67
Worst Case			67

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Appendix 6A5 - Construction Noise Assessment

Table 6A5.11 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 7 -
 SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

	Distance (m)	Distance Correction dB(A)	Façade Effect dB(A)
Pier at 500m offshore, Intertidal Area 2	500	-62.0	3

Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)

	SWL dB(A)	Predicted Noise Level dB(A)	Predicted noise Level for 3 pairs of piers dB(A)
<i>Temporary access bridge</i>	115	56	61
<i>Cofferdam</i>	104	45	50
<i>Piles</i>	104	45	50
<i>Pile caps</i>	108	49	54
<i>Bridge columns</i>	109	50	55
<i>Deck Traveller</i>	104	45	50
<i>Decks</i>	114	55	60
<i>Roadworks</i>	110	51	56
Worst Case			61

Appendix 6A5 - Construction Noise Assessment

Table 6A5.12 Noise Level at Each Segment for Unmitigated Scenario for Construction Activity 8 -
 SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)

	Distance (m)	Distance Correction dB(A)	Air Absorption dB(A)	Façade Effect dB(A)
Pier at 1500m offshore, Subtidal Area	1500	-71.5	-4.5	3

Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)

	SWL dB(A)	Predicted Noise Level dB(A)	Predicted noise Level for 3 pairs of piers dB(A)
<i>Temporary access bridge</i>	118	45	50
<i>Cofferdam</i>	117	44	49
<i>Piles</i>	115	42	47
<i>Pile caps</i>	120	47	52
<i>Bridge columns</i>	118	45	50
<i>Deck Traveller</i>	114	41	46
<i>Decks</i>	120	47	52
<i>Roadworks</i>	121	48	53
Worst Case			53

Appendix 6A5 - Construction Noise Assessment

Table 6A5.13 Noise Level at Each Segment for Mitigated Scenario for Construction Activity 8 -
 SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)

	Distance (m)	Distance Correction dB(A)	Air Absorption dB(A)	Façade Effect dB(A)
Pier at 1500m offshore, Subtidal Area	1500	-71.5	-4.5	3

Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)

	SWL dB(A)	Predicted Noise Level dB(A)	Predicted noise Level for 3 pairs of piers dB(A)
<i>Temporary access bridge</i>	115	42	47
<i>Cofferdam</i>	104	31	36
<i>Piles</i>	115	42	47
<i>Pile caps</i>	119	46	51
<i>Bridge columns</i>	113	40	45
<i>Deck Traveller</i>	104	31	36
<i>Decks</i>	114	41	46
<i>Roadworks</i>	109	36	41
Worst Case			51

Appendix 6A6 - Construction Noise Assessment
 Table 6A6.1 Noise due to Haul Road Traffic in Construction Phase

Construction Activity 6

Methodologies and Assumptions

BS5228 A.3.4.2 Method for mobile plant on haul roads

$$LA_{eq} = L_{wa} - 33 + 10 \log Q - 10 \log V - 10 \log d + 3$$

L_{wa} = sound power level of the plant 102 dB (BS5228 Table C.9 ref.no.19)
 Q = number of vehicles per hr 80 veh/hr
 V = average vehicle speed (km/h) 20 km/h
 d = distance of receiving position from centre of haul road
 Façade effect 3dB added.

Road length

Predicted Noise Level due to Truck Traffic originated from SWC

Assessment Point	Distance d (m)	Predicted Noise Level, PNL dB(A)
Receiver Distance	3	73.2
Receiver Distance	5	71.0
Receiver Distance	10	68.0

Appendix 6A7 - Construction Noise Assessment
Table 6A7.1 Predicted Noise Levels for All Construction Activities in the Programme

Assessment Point	815430 835131	8004	UNMITIGATED SCENARIO	Construction Noise Level at Different Periods of Time																												
				2003						2004						2005						2006										
Year	Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6				
SWC Construction on Hong Kong side				72																												
Construction Activity 1 - SWC Shore Alignment Construction				72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	
Construction Activity 2 - DBL Alignment Construction				71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	
Construction Activity 3 - DBL Alignment Construction				70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
Construction Activity 4 - SWC Work Site - Site Preparation				69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	
Construction Activity 7 - SWC Shore Alignment Construction (600m offshore, Intertidal Area 2)				67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)				53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
Cumulative Impact from Fixed Sites				69	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	
MITIGATED SCENARIO																																
SWC Construction on Hong Kong side																																
Construction Activity 1 - SWC Shore Alignment Construction				66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	
Construction Activity 2 - DBL Alignment Construction				59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	
Construction Activity 3 - DBL Alignment Construction				58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
Construction Activity 4 - SWC Work Site - Site Preparation				60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Construction Activity 7 - SWC Shore Alignment Construction (600m offshore, Intertidal Area 2)				61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)				51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
Cumulative Impact from Fixed Sites				60	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67

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 Appendix 6A7 - Construction Noise Assessment
 Table 6A7.2 Predicted Noise Levels for All Construction Activities in the Programme

Assessment Point 8010 815297 835020

UNMITIGATED SCENARIO

	Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																													
		2003						2004						2005						2006											
Year	Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
SWC Construction on Hong Kong side	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
Construction Activity 1 - SWC Shore Alignment Construction	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Construction Activity 2 - DBL Alignment Construction	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Construction Activity 3 - DBL Alignment Construction	74	74																													
Construction Activity 4 - SWC Work Site - Site Preparation	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Interidal Area 2)	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)	Cumulative Impact from Fixed Sites																														
		74	77	77	77	77	77	77	79	79	79	79	79	79	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	

MITIGATED SCENARIO

	Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																													
		2003						2004						2005						2006											
Year	Month	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
SWC Construction on Hong Kong side	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72
Construction Activity 1 - SWC Shore Alignment Construction	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
Construction Activity 2 - DBL Alignment Construction	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Construction Activity 3 - DBL Alignment Construction	65	65																													
Construction Activity 4 - SWC Work Site - Site Preparation	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Interidal Area 2)	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)	Cumulative Impact from Fixed Sites																														
		65	72	72	72	72	72	72	73	73	73	73	73	73	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	

Appendix 6A7 - Construction Noise Assessment
Table 6A7.3 Predicted Noise Levels for All Construction Activities in the Programme

Assessment Point 8016 815243 834922

UNMITIGATED SCENARIO

Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																											
	2003						2004						2005						2006									
	Year	Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
SWC Construction on Hong Kong side																												
Construction Activity 1 - SWC Shore Alignment Construction	75		75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Construction Activity 2 - DBL Alignment Construction	84		84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
Construction Activity 3 - DBL Alignment Construction	75		75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
Construction Activity 4 - SWC Work Site - Site Preparation	78		78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)	67		67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)	53		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Cumulative Impact from Fixed Sites			78	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76

MITIGATED SCENARIO

Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																											
	2003						2004						2005						2006									
	Year	Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5
SWC Construction on Hong Kong side																												
Construction Activity 1 - SWC Shore Alignment Construction	69		69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Construction Activity 2 - DBL Alignment Construction	70		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
Construction Activity 3 - DBL Alignment Construction	63		63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63
Construction Activity 4 - SWC Work Site - Site Preparation	69		69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69	69
Construction Activity 7 - SWC Shore Alignment Construction (500m offshore, Intertidal Area 2)	61		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Construction Activity 8 - SWC Deep Water Alignment Construction (Subtidal Area, 1500m offshore)	53		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Cumulative Impact from Fixed Sites			69	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70

Appendix 6A7 - Construction Noise Assessment
Table 6A7.4 Predicted Noise Levels for All Construction Activities in the Programme

Assessment Point 8025 815072 834912

UNMITIGATED SCENARIO

Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																										
	Year	2003						2004						2005						2006							
		Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
73		73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
73		73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
70		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
70		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
67		67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
53		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
Cumulative Impact from Fixed Sites																											
		70	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74

MITIGATED SCENARIO

Max Predicted Noise Level (PNL)	Construction Noise Level at Different Periods of Time																										
	Year	2003						2004						2005						2006							
		Month	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4
68		68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
61		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
58		58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
61		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
61		61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
51		51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
Cumulative Impact from Fixed Sites																											
		61	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63

Appendix 6A8 - Construction Noise Assessment for Restricted Hours
Table 6A8.1 Inventory of Powered Mechanical Equipment for Restricted Hours Construction Work

PME Inventory for one Working Unit
i.e. one pair of bridge piers

Construction Activity - Typical SWC Alignment Construction for Work 250m Offshore

Activity	Proposed Construction Plants	Nos	UNMITIGATED	
			CNP No.	SWL
Construction of Temporary Access Bridge				
	Mobile Crane	1	CNP 048	112
	Barge	1	CNP 061	104
	Lorry	1	CNP 141	112
	Driven Piling Rig	1	CNP 165	115
			TOTAL	118
			Buffer distance (m) required to meet 60 dB(A)	447
			Buffer distance (m) required to meet 45 dB(A)	2512
Construction of Cofferdam				
	Mobile Crane	1	CNP 048	112
	Vibrator	1	CNP170	113
	Lorry	1	CNP 141	112
			TOTAL	117
			Buffer distance (m) required to meet 60 dB(A)	398
			Buffer distance (m) required to meet 45 dB(A)	2239
Construction of Pilecaps (Piling)				
	Bored Piling Rig	1	CNP 164	115
	Water Pump	1	CNP 282	103
			TOTAL	117
			Buffer distance (m) required to meet 60 dB(A)	398
			Buffer distance (m) required to meet 45 dB(A)	2239
Construction of Pilecaps (Concreting)				
	Concrete Pump	1	CNP 047	109
	Generator	1	CNP 101	108
	Barge	2	CNP 061	104
	Tugboat	1	CNP 221	110
	Compressor	1	CNP 002	102
			TOTAL	115
			Buffer distance (m) required to meet 60 dB(A)	316
			Buffer distance (m) required to meet 45 dB(A)	1778
Construction of Bridge Columns				
	Compressor	1	CNP 002	102
	Generator	1	CNP 101	108
	Concrete Pump	1	CNP 047	109
	Vibratory Poker	2	CNP 170	113
	Barge	1	CNP 061	104
	Tugboat	1	CNP 221	110
			TOTAL	118
			Buffer distance (m) required to meet 60 dB(A)	447
			Buffer distance (m) required to meet 45 dB(A)	2512
Erection of Deck Travellers				
	Crane	1	CNP 048	112
	Winch	1	CNP 261	110
			TOTAL	114
			Buffer distance (m) required to meet 60 dB(A)	282
			Buffer distance (m) required to meet 45 dB(A)	1585
Construction of Bridge Deck				
	Deck Traveller	2	n/a	
	Barge	1	CNP 061	104
	Tugboat	1	CNP 221	110
	Generator	2	CNP 101	108
	Track-mounted Crane	2	CNP 048	112
	Compressor for Prestressing	2	CNP 002	102
	Truck	1	CNP 067	117
			TOTAL	120
			Buffer distance (m) required to meet 60 dB(A)	562
			Buffer distance (m) required to meet 45 dB(A)	3162
Road Construction and Paving				
	Lorry	2	CNP 141	112
	Road Roller	2	CNP 185	108
	Concrete Mixer Truck	2	CNP044	109
	Vibratory Poker	2	CNP 170	113
	Asphalt Paver	2	CNP 004	109
	Generator	2	CNP 101	108
			TOTAL	121
			Buffer distance (m) required to meet 60 dB(A)	631
			Buffer distance (m) required to meet 45 dB(A)	3548

Note:
SWL : Sound Power Level in dB
The equipment is for one pair of piers

Agreement No. CE 39/2007 Shenzhen Western Corridor - Investigation and Planning		Appendix 6A8 - Construction Noise Assessment for Restricted Hours Table 6A8.2 Construction Noise Prediction for Restricted Hours																											
It is assumed that the working groups for construction work could be divided by the distance offshore																													
NSR AP	Number of Work Unit in Different Distance Offshore			Worst-case Sound Power Level for each Work Unit*			Correction for Distance			Correction for Air Absorption			Facade Effect	Predicted Noise Level for each Work Group					Cumulative Noise Level at NSR AP 8010 dB(A)	Evening Standard dB(A)	Nighttime Standard dB(A)								
	8010	1500m	1000m	2000m	250m	500m	1000m	1500m	2000m	250m	500m	1000m		1500m	2000m	250m	500m	1000m				1500m	2000m						
Scenario 1 - No restrictions on the type of work at work unit				Assumptions:				There is no restriction on the construction tasks, assumed 121 dB the worst case for the construction of temporary access bridge performed at each work unit																					
Case 1	3	3	3	3	121	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	73	67	58	49	53	49	74	60	45
Case 2	0	0	0	0	121	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	68	0	0	0	0	0	68	60	45
Case 3	0	1	0	0	121	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	62	0	0	0	0	82	80	45
Case 4	0	0	4	1	121	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	59	48	51	80	80	45	
Case 5	0	0	0	1	0	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	0	48	0	48	80	45
Case 6	0	0	0	0	1	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	0	44	0	44	60	45
Case 7	0	0	0	0	2	121	121	121	121	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	0	47	0	47	60	45
Scenario 2 - Restricted work tasks for restricted hours				Assumptions:				Assumed construction tasks other than the Construction of Temporary Access Bridge and Construction of Bridge Deck, Construction of Cofferdam, Road Construction and Paving could be performed																					
Case 8	3	3	3	3	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	69	63	54	48	45	70	60	45	
Case 9	0	0	0	0	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	84	0	0	0	0	64	60	45	
Case 10	0	1	0	0	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	59	0	0	0	58	60	45	
Case 11	0	0	1	0	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	49	0	49	60	45	
Case 12	0	0	0	1	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	0	44	40	45	60	45
Case 13	0	1	4	5	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	58	55	51	46	60	60	45	
Case 14	0	0	0	0	117	117	117	117	117	-56	-62	-68	-72	-74	0	0	-3	-4.5	-6	3	0	0	0	0	45	0	45	60	45
Assumptions for the Worst Case				It would be the work programme that construction tasks: Construction of Cofferdam, Construction of Pilecaps (Piling), Construction of Pilecaps (Concrete), Construction of Bridge Columns, Erection of Deck Travellers, Construction of Bridge Deck and Road Construction and Paving would be carried out in sequential manner for a work unit a one pair of piers.																									
Scenario 1, if there is no restriction on the type of work performed by a work unit, it is assumed that all work unit will be performing the noisy task (ie Road Construction and Paving which has a SWL of 121 dB(A))																													
Scenario 2, assumed that construction tasks other than the Construction of Temporary Access Bridge, Construction of Bridge Deck, Construction of Cofferdam, Road Construction and Paving can be performed at each work unit (ie a pair of piers). The SWL in this case is 117 dB(A)																													
Assumptions for mitigation measures				it is assumed the use of quiet plant is applied to all work unit as shown in Table 6A8.1																									
Correction for quiet plant is not applied.																													
Assumption for air absorption				Standard ISO 9613 - Acoustics - Attenuation of sound during propagation outdoors																									
Part 1:				Calculation of the absorption of sound by the atmosphere																									
Air pressure in Pa	Air temperature in degrees Celsius	Relative humidity	Sound frequency																										
101325	25	60	500																										
Air absorption = α dB(A) per 1000m																													

APPENDIX 6B

**Details of Operational
Noise Assessment**

AGREEMENT NO. CE 39/2001
 SHENZHEN WESTERN CORRIDOR - INVESTIGATION AND PLANNING

APPENDIX 6B1 TRAFFIC NOISE ASSESSMENT
 Table 6B1.1 Assessment Points for Noise Sensitive Receivers

NSR	Represented by Assessment Points (APs)	Ground Level (mPD)	G/F (mPD)
Ngau Hom Shek Village houses	8001	8.6	9.8
	8002	10	11.2
	8003	10	11.2
	8004	11	12.2
	8005	11	12.2
	8006	11	12.2
	8008	6	7.2
	8009	6	7.2
	8010	5.3	6.5
	8016	5	6.2
	8017	5	6.2
	8018	11	12.2
	8019	11	12.2
	8020	6	7.2
	8021	4.9	6.1
	8022	4.9	6.1
	8023	3.5	4.7
	8024	3.5	4.7
	8025	5	6.2
	8026	3.6	4.8
	8027	3.6	4.8
8028	5	6.2	
8029	3.6	4.8	
8030	2.6	3.8	
8031	3.6	4.8	

All village houses are one storey in height.

**AGREEMENT NO. CE 39/2001
SHENZHEN WESTERN CORRIDOR - INVESTIGATION AND PLANNING**

**APPENDIX 6B2 TRAFFIC NOISE ASSESSMENT
Table 6B2.1 ASSESSMENT RESULTS FOR UNMITIGATED SCENARIO**

Predictions of noise level (dB(A)) at different floor levels of various assessment points (APs)
All noise levels are in L10 dB(A), unless otherwise specified.
Façade with angle of view of 360 degree as worst-case

AP	G/E			SWC Contribution
	DBL	SWC	Total	
8001	63.1	64.0	67	3.5
8002	63.1	63.7	66	3.3
8003	63.1	63.4	66	3.2
8004	64.1	63.8	67	2.9
8005	63.8	63.4	67	2.8
8006	65.4	64.6	68	2.6
8008	65.5	65.4	68	2.9
8009	66.8	66.1	70	2.7
8010	68.1	64.6	70	1.6
8016	68.0	61.4	69	0.8
8017	68.0	63.1	69	1.2
8018	65.7	61.3	67	1.3
8019	65.6	61.2	67	1.3
8020	64.6	61.7	66	1.8
8021	64.2	62.1	66	2.1
8022	64.5	62.6	67	2.1
8023	63.2	62.7	66	2.8
8024	63.1	63.4	66	3.1
8025	63.9	64.6	67	3.3
8026	62.5	63.5	66	3.5
8027	62.0	63.0	66	3.5
8028	62.5	61.1	65	2.4
8029	61.9	62.8	65	3.5
8030	61.3	63.1	65	4.0
8031	61.8	62.4	65	3.3

**AGREEMENT NO. CE 39/2001
SHENZHEN WESTERN CORRIDOR - INVESTIGATION AND PLANNING**

**APPENDIX 6B2 TRAFFIC NOISE ASSESSMENT
Table 6B2.2 ASSESSMENT RESULTS FOR UNMITIGATED SCENARIO**

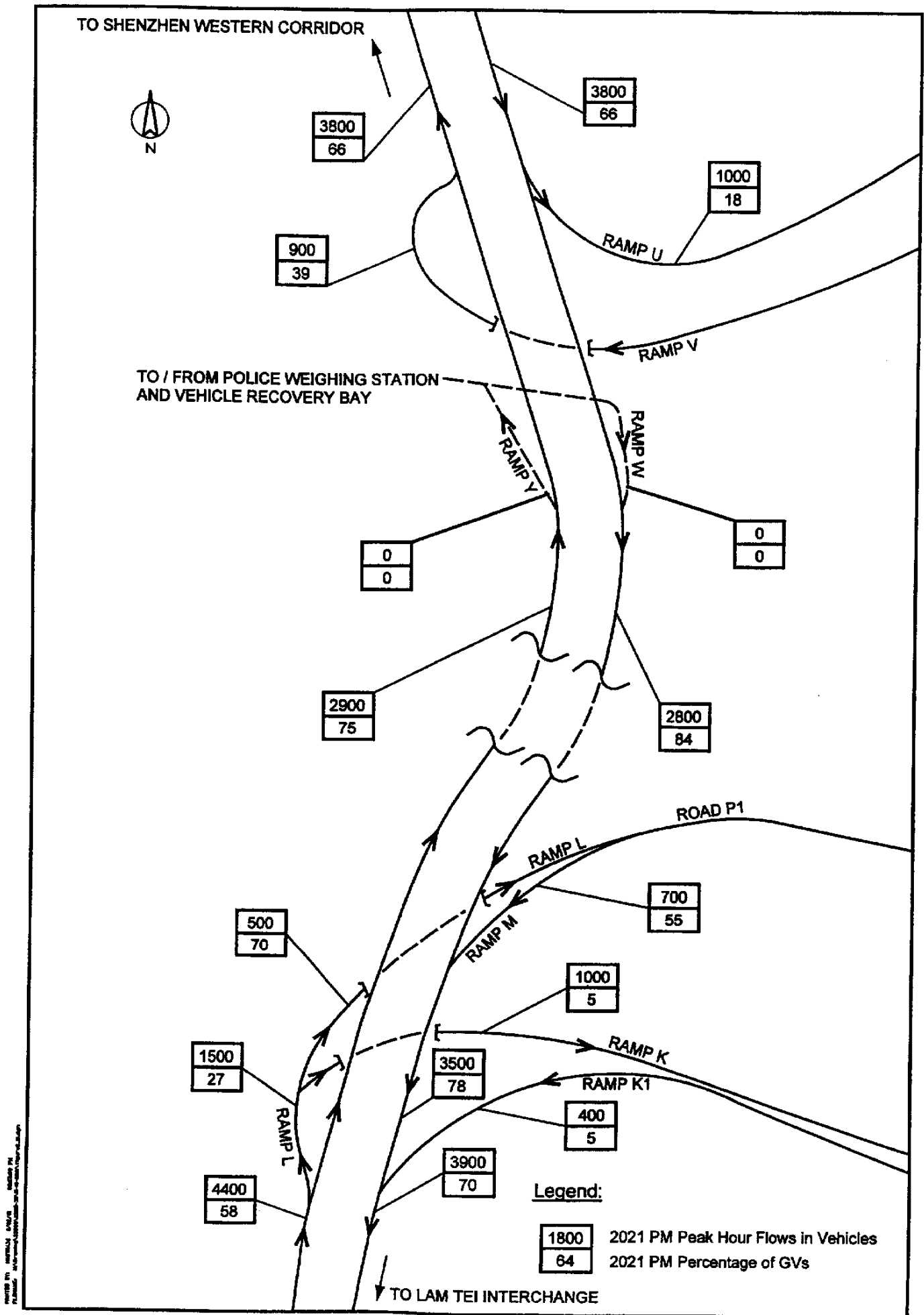
Predictions of noise level (dB(A)) at different floor levels of various assessment points (APs)

All noise levels are in L10 dB(A), unless otherwise specified.

Façade with angle of view dominant by SWC

**ONLY PRESENT THE SELECTED
SAY 8010 & 8025**

AP	G/F			SWC Contribution
	DBL	SWC	Total	
8001	44.4	64	64	19.6
8002	42.8	63.6	64	20.9
8003	42.3	63.4	63	21.1
8004	41.3	63.8	64	22.5
8005	38.8	63.4	63	24.6
8006	38.2	64.5	65	26.3
8008	44.9	65.3	65	20.5
8009	40.6	66	66	25.5
8010	0	64.1	64	64.1
8016	0	59	59	59.0
8017	0	61.7	62	61.7
8018	0	60.6	61	60.6
8019	0	60.5	61	60.5
8020	0	61.1	61	61.1
8021	0	61.6	62	61.6
8022	0	62	62	62.0
8023	0	62.4	62	62.4
8024	0	63	63	63.0
8025	0	64.2	64	64.2
8026	0	63.2	63	63.2
8027	0	62.8	63	62.8
8028	0	60.7	61	60.7
8029	0	62.6	63	62.6
8030	0	62.9	63	62.9
8031	0	62.2	62	62.2



CO-LOCATION OPTION

2021 PM PEAK TRAFFIC FORECASTS FOR EIA

Figure 2.10

BY FAX



Memo

From	Strategic Roads Division, Transport Department	To	Director of Environmental Protection
Ref.	In SR 146/180-10	(Attn:	Mr. Steve T. S. Li
Tel. No.	2186 7524	Your Ref.	(51) In EP2/G/A/100
Fax. No.	2186 7519	dated	14.5.02 Fax.No. 2591 0558
Date	21 May 2002	Total Pages	

Environmental Impact Assessment (EIA) Ordinance, Cap. 499

Application for Approval of an Environmental Impact Assessment Report

Project Title : Deep Bay Link

Thank you for your memo of 14 May 2002 enclosing copies of EIA Report, EIA Executive Summary and EM&A Manual on the captioned project.

I note that my previous comments on the draft Final EIA Report have been incorporated. I have no further comment on the traffic data used in the Final EIA Report.

(K. H. Yam)
for Commissioner for Transport

c.c. CE/MW3-3, HyD

(Attn: Mr. Robert Chan)

TOTAL P.01

TOTAL P.02