

Annex 4A

## Plant Inventory

Table 4A-1 Plant Inventory (No Mitigation Measures)

<b>Ching Cheung Road Interchange</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	1	112	0	112
	Concrete lorry mixer	CNP044	2	109	0	112
	Concrete pump	CNP047	1	109	0	109
	Generator	CNP101	1	108	0	108
	Air compressor	CNP003	2	104	0	107
	Poker Vibrator	CNP170	2	113	0	116
	Piling	CNP166	1	100	0	100
	Lorry	CNP141	2	112	0	115
	Mobile crane	CNP048	1	112	0	112
	Compactor	CNP050	1	105	0	105
				Area Total SWL		122
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Generator	CNP101	2	108	0	111
	Air compressor	CNP003	2	104	0	107
	Concrete pump	CNP047	2	109	0	112
	Poker Vibrator	CNP170	2	113	0	116
	mobile crane	CNP048	2	112	0	115
	Lorry	CNP141	2	112	0	115
				Area Total SWL		121
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Butterfly Valley</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	1	112	0	112
	Dump truck	CNP067	5	117	0	124
	Water pump	CNP281	1	88	0	88
				Area Total SWL		125
<b>Earthworks excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Rock drill (hydraulic)	CNP182	2	123	0	126
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	2	112	0	115
	Dump truck	CNP067	2	117	0	120
	Lorry	CNP141	2	112	0	115
				Area Total SWL		128
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Mainline Viaduct at Butterfly Valley</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	1	112	0	112
	Concrete lorry mixer	CNP044	2	109	0	112
	Concrete pump	CNP047	1	109	0	109
	Generator	CNP101	1	108	0	108
	Air compressor	CNP003	2	104	0	107

Table 4A-1 Plant Inventory (No Mitigation Measures)

	Poker Vibrator	CNP170	2	113	0	116
	Piling	CNP166	1	100	0	100
	Lorry	CNP141	2	112	0	115
	Mobile crane	CNP048	1	112	0	112
	Compactor	CNP050	1	105	0	105
				Area Total SWL		122
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Generator	CNP101	2	108	0	111
	Air compressor	CNP003	2	104	0	107
	Concrete pump	CNP047	2	109	0	112
	Poker Vibrator	CNP170	2	113	0	116
	mobile crane	CNP048	2	112	0	115
	Lorry	CNP141	2	112	0	115
				Area Total SWL		121
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Lai Chi Kok Viaduct</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	1	112	0	112
	Concrete lorry mixer	CNP044	2	109	0	112
	Concrete pump	CNP047	1	109	0	109
	Generator	CNP101	1	108	0	108
	Air compressor	CNP003	2	104	0	107
	Poker Vibrator	CNP170	2	113	0	116
	Piling	CNP166	1	100	0	100
	Lorry	CNP141	2	112	0	115
	Mobile crane	CNP048	1	112	0	112
	Compactor	CNP050	1	105	0	105
				Area Total SWL		122
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Generator	CNP101	2	108	0	111
	Air compressor	CNP003	2	104	0	107
	Concrete pump	CNP047	2	109	0	112
	Poker Vibrator	CNP170	2	113	0	116
	mobile crane	CNP048	2	112	0	115
	Lorry	CNP141	2	112	0	115
				Area Total SWL		121
<b>Road pavement and finishes</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Eagle's Nest Tunnel</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	1	112	0	112
	Dump truck	CNP067	5	117	0	124
	Water pump	CNP281	1	88	0	88
				Area Total SWL		125

Table 4A-1 Plant Inventory (No Mitigation Measures)

<b>Portal construction</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Generator	CNP101	1	108	0	108	
Air compressor	CNP002	4	102	0	108	
Excavator	CNP081	1	112	0	112	
Poker Vibrator	CNP170	3	113	0	118	
Lorry	CNP141	2	112	0	115	
Concrete pump	CNP047	1	109	0	109	
Concrete lorry mixer	CNP044	2	109	0	112	
Grader	CNP104	1	113	0	113	
Roller, Vibratory	CNP186	1	108	0	108	
Rock drill	CNP182	2	123	0	126	
Breaker	CNP 027	2	122	0	125	
Dump truck	CNP067	8	117	0	126	
			Area Total SWL		131	
<b>Tunnel excavation</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Excavator	CNP081	2	112	0	115	
Loader	CNP 081	2	112	0	115	
Lorry	CNP141	4	112	0	118	
Ventilation fan	CNP241	2	113	0	116	
			Area Total SWL		122	
<b>Eagle's Nest Tunnel South Portal Building</b>						
<b>Portal building construction</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Dump truck	CNP067	10	117	0	127	
Concrete lorry mixer	CNP044	2	109	0	112	
Bentonite filtering plant	CNP162	1	105	0	105	
Piling	CNP166	1	100	0	100	
Excavator	CNP081	2	112	0	115	
Water pump	CNP282	3	88	0	93	
Concrete pump	CNP047	2	109	0	112	
mobile crane	CNP048	2	112	0	115	
			Area Total SWL		128	
<b>Mid Ventilation Building</b>						
<b>Removal of spoil</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Loader	CNP 081	2	112	0	115	
Lorry	CNP141	2	112	0	115	
Dump truck	CNP067	10	117	0	127	
Ventilation fan	CNP241	2	113	0	116	
			Area Total SWL		128	
<b>Ventilation building foundation</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Dump truck	CNP067	10	117	0	127	
Concrete lorry mixer	CNP044	2	109	0	112	
Bentonite filtering plant	CNP162	1	105	0	105	
Piling	CNP166	1	100	0	100	
Excavator	CNP081	2	112	0	115	
Water pump	CNP282	3	88	0	93	
			Area Total SWL		127	
<b>Superstructure</b>						
Noise Source	Ref. No.	No.	SWL/unit	B.A.	sub-SWL	
Concrete pump	CNP081	2	112	0	115	
Mobile crane	CNP048	2	112	0	115	
Concrete lorry mixer	CNP081	2	112	0	115	
			Area Total SWL		120	
<b>Note: B.A. denotes barrier attenuation (dB(A))</b>						

Table 4A-2 Plant Inventory (Mitigation Option 1 - using quiet plant)

<b>Ching Cheung Road Interchange</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	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	2	98	0	101
	Poker Vibrator*	BS5228 C.6-32	2	100	0	103
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	2	105	0	108
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		115
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		113
<b>Butterfly Valley</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer*	BS5228 C.3-65	2	110	0	113
	Excavator*	BS5228 C.3-97	1	106	0	106
	Dump truck*	BS5228 C.9-29	5	109	0	116
	Water pump	CNP281	1	88	0	88
				Area Total SWL		118
<b>Earthworks excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Rock drill (hydraulic)	CNP182	2	123	0	126
	Bulldozer*	BS5228 C.3-65	2	110	0	113
	Excavator*	BS5228 C.3-97	2	106	0	109
	Dump truck*	BS5228 C.9-29	2	109	0	112
	Lorry*	BS5228 C.9-27	2	105	0	108
				Area Total SWL		127
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Mainline Viaduct at Butterfly Valley</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	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	2	98	0	101
	Poker Vibrator*	BS5228 C.6-32	2	100	0	103

Table 4A-2 Plant Inventory (Mitigation Option 1 - using quiet plant)

	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	2	105	0	108
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		115
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Lai Chi Kok Viaduct</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	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	2	98	0	101
	Poker Vibrator*	BS5228 C.6-32	2	100	0	103
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	2	105	0	108
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		115
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
<b>Road pavement and finishes</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		113
<b>Eagle's Nest Tunnel</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	1	112	0	112
	Dump truck	CNP067	5	117	0	124
	Water pump	CNP281	1	88	0	88
				Area Total SWL		125
<b>Portal construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>

Table 4A-2 Plant Inventory (Mitigation Option 1 - using quiet plant)

	Generator	CNP101	1	108	0	108
	Air compressor	CNP002	4	102	0	108
	Excavator	CNP081	1	112	0	112
	Poker Vibrator	CNP170	3	113	0	118
	Lorry	CNP141	2	112	0	115
	Concrete pump	CNP047	1	109	0	109
	Concrete lorry mixer	CNP044	2	109	0	112
	Grader	CNP104	1	113	0	113
	Roller, Vibratory	CNP186	1	108	0	108
	Rock drill	CNP182	2	123	0	126
	Breaker	CNP 027	2	122	0	125
	Dump truck	CNP067	8	117	0	126
				Area Total SWL		131
<b>Tunnel excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP141	4	112	0	118
	Ventilation fan	CNP241	2	113	0	116
				Area Total SWL		122
<b>Eagle's Nest Tunnel South Portal Building</b>						
<b>Portal building construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Dump truck	CNP067	10	117	0	127
	Concrete lorry mixer	CNP044	2	109	0	112
	Bentonite filtering plant	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	Excavator	CNP081	2	112	0	115
	Water pump	CNP282	3	88	0	93
	Concrete pump	CNP047	2	109	0	112
	mobile crane	CNP048	2	112	0	115
				Area Total SWL		128
<b>Mid Ventilation Building</b>						
<b>Removal of spoil</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Loader*	BS5228 C.3-97	2	105	0	108
	Lorry*	BS5228 C.9-27	2	105	0	108
	Dump truck*	BS5228 C.9-29	10	109	0	119
	Ventilation fan	CNP241	2	113	0	116
				Area Total SWL		121
<b>Ventilation building foundation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Dump truck*	BS5228 C.9-29	10	109	0	119
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	Bentonite filtering plant	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	Excavator*	BS5228 C.3-97	2	106	0	109
	Water pump	CNP282	3	88	0	93
				Area Total SWL		120
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Concrete pump*	BS5228 C.6-36	2	106	0	109
	Mobile crane*	BS5228 C.7-110	2	106	0	109
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
				Area Total SWL		113
<b>Notes:</b>						
Note: B.A. denotes barrier attenuation (dB(A))						
(*) denotes quiet alternative is used with reference to BS5228, 1997						

Table 4A-3 Plant Inventory - Mitigation Option 2 (using of quiet plant and limiting no. of plant)

<b>Ching Cheung Road Interchange</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	0	100
	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
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		114
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
				Area Total SWL		111
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		113
<b>Butterfly Valley</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer*	BS5228 C.3-65	2	110	0	113
	Excavator*	BS5228 C.3-97	1	106	0	106
	Dump truck*	BS5228 C.9-29	5	109	0	116
	Water pump	CNP281	1	88	0	88
				Area Total SWL		118
<b>Earthworks excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Rock drill (hydraulic)	CNP182	1	123	0	123
	Bulldozer*	BS5228 C.3-65	1	110	0	110
	Excavator*	BS5228 C.3-97	1	106	0	106
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
				Area Total SWL		124
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Mainline Viaduct at Butterfly Valley</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	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	2	98	0	101
	Poker Vibrator*	BS5228 C.6-32	2	100	0	103
	Piling	CNP166	1	100	0	100



Table 4A-3 Plant Inventory - Mitigation Option 2 (using of quiet plant and limiting no. of plant)

	Lorry*	BS5228 C.9-27	2	105	0	108
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		115
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Lai Chi Kok Viaduct</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	0	100
	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
	Vibrator*	BS5228 C.6-32	1	100	0	100
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		114
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
				Area Total SWL		111
<b>Road pavement and finishes</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	1	105	0	105
	Ballast tamper	CNP029	1	105	0	105
				Area Total SWL		111
<b>Eagle's Nest Tunnel</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	1	112	0	112
	Dump truck	CNP067	5	117	0	124
	Water pump	CNP281	1	88	0	88
				Area Total SWL		125
<b>Portal construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Generator	CNP101	1	108	0	108
	Air compressor	CNP002	4	102	0	108

Table 4A-3 Plant Inventory - Mitigation Option 2 (using of quiet plant and limiting no. of plant)

	Excavator	CNP081	1	112	0	112
	Poker Vibrator	CNP170	3	113	0	118
	Lorry	CNP141	2	112	0	115
	Concrete pump	CNP047	1	109	0	109
	Concrete lorry mixer	CNP044	2	109	0	112
	Grader	CNP104	1	113	0	113
	Roller, Vibratory	CNP186	1	108	0	108
	Rock drill	CNP182	2	123	0	126
	Breaker	CNP 027	2	122	0	125
	Dump truck	CNP067	8	117	0	126
				Area Total SWL		131
<b>Tunnel excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP141	4	112	0	118
	Ventilation fan	CNP241	2	113	0	116
				Area Total SWL		122
<b>Eagle's Nest Tunnel South Portal Building</b>						
<b>Portal building construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Dump truck	CNP067	10	117	0	127
	Concrete lorry mixer	CNP044	2	109	0	112
	Bentonite filtering plant	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	Excavator	CNP081	2	112	0	115
	Water pump	CNP282	3	88	0	93
	Concrete pump	CNP047	2	109	0	112
	mobile crane	CNP048	2	112	0	115
				Area Total SWL		128
<b>Mid Ventilation Building</b>						
<b>Removal of spoil</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	<i>Loader*</i>	BS5228 C.3-97	1	105	0	105
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
	<i>Dump truck*</i>	BS5228 C.9-29	1	109	0	109
	Ventilation fan	CNP241	1	113	0	113
				Area Total SWL		115
<b>Ventilation building foundation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	<i>Dump truck*</i>	BS5228 C.9-29	1	109	0	109
	<i>Concrete lorry mixer*</i>	BS5228 C.6-35	1	100	0	100
	Bentonite filtering plant	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	<i>Excavator*</i>	BS5228 C.3-97	1	106	0	106
	<i>Water pump</i>	CNP282	1	88	0	88
				Area Total SWL		112
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Concrete pump*	BS5228 C.6-36	2	106	0	109
	Mobile crane*	BS5228 C.7-110	2	106	0	109
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
				Area Total SWL		113
<b>Notes:</b>						
B.A. denotes barrier attenuation (dB(A))						
(*) denotes quiet alternative is used with reference to BS52228, 1997						
<i>italic</i> denotes limiting no. of plant						

Table 4A-4 Plant Inventory (Mitigation Option 3 - using of quiet plant, limiting no. of plant and erection of movable barriers)

<b>Ching Cheung Road Interchange</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		112
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
				Area Total SWL		111
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		113
<b>Butterfly Valley</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer*	BS5228 C.3-65	2	110	0	113
	Excavator*	BS5228 C.3-97	1	106	0	106
	Dump truck*	BS5228 C.9-29	5	109	0	116
	Water pump	CNP281	1	88	0	88
				Area Total SWL		118
<b>Earthworks excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Rock drill (hydraulic)	CNP182	1	123	5	118
	Bulldozer*	BS5228 C.3-65	1	110	0	110
	Excavator*	BS5228 C.3-97	1	106	0	106
	Dump truck*	BS5228 C.9-29	1	109	0	109
	Lorry*	BS5228 C.9-27	1	105	0	105
				Area Total SWL		119
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Mainline Viaduct at Butterfly Valley</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
	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	2	98	0	101
	Poker Vibrator*	BS5228 C.6-32	2	100	0	103

Table 4A-4 Plant Inventory (Mitigation Option 3 - using of quiet plant, limiting no. of plant and erection of movable barriers)

	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	2	105	0	108
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		115
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
<b>Road pavement</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller	CNP185	1	108	0	108
	Asphalt paver	CNP004	1	109	0	109
	Lorry	CNP141	1	112	0	112
	Compactor	CNP050	2	105	0	108
	Ballast tamper	CNP029	2	105	0	108
				Area Total SWL		116
<b>Lai Chi Kok Viaduct</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		112
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
				Area Total SWL		111
<b>Road pavement and finishes</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Road roller*	BS5228 C.8-27	1	104	0	104
	Asphalt paver*	BS5228 C.8-24	1	101	0	101
	Lorry*	BS5228 C.9-27	1	105	0	105
	Compactor	CNP050	1	105	0	105
	Ballast tamper	CNP029	1	105	0	105
				Area Total SWL		111
<b>Eagle's Nest Tunnel</b>						
<b>Preparatory Works</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Bulldozer	CNP030	2	115	0	118
	Excavator	CNP081	1	112	0	112
	Dump truck	CNP067	5	117	0	124
	Water pump	CNP281	1	88	0	88
				Area Total SWL		125
<b>Portal construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>

Table 4A-4 Plant Inventory (Mitigation Option 3 - using of quiet plant, limiting no. of plant and erection of movable barriers)

	Generator	CNP101	1	108	0	108
	Air compressor	CNP002	4	102	0	108
	Excavator	CNP081	1	112	0	112
	Poker Vibrator	CNP170	3	113	0	118
	Lorry	CNP141	2	112	0	115
	Concrete pump	CNP047	1	109	0	109
	Concrete lorry mixer	CNP044	2	109	0	112
	Grader	CNP104	1	113	0	113
	Roller, Vibratory	CNP186	1	108	0	108
	Rock drill	CNP182	2	123	0	126
	Breaker	CNP 027	2	122	0	125
	Dump truck	CNP067	8	117	0	126
				Area Total SWL		131
<b>Tunnel excavation</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator	CNP081	2	112	0	115
	Loader	CNP 081	2	112	0	115
	Lorry	CNP141	4	112	0	118
	Ventilation fan	CNP241	2	113	0	116
				Area Total SWL		122
<b>Eagle's Nest Tunnel South Portal Building</b>						
<b>Portal building construction</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Dump truck	CNP067	10	117	0	127
	Concrete lorry mixer	CNP044	2	109	0	112
	Bentonite filtering plan	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	Excavator	CNP081	2	112	0	115
	Water pump	CNP282	3	88	0	93
	Concrete pump	CNP047	2	109	0	112
	mobile crane	CNP048	2	112	0	115
				Area Total SWL		128
<b>Mid Ventilation Building</b>						
<b>Removal of spoil</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	<i>Loader*</i>	BS5228 C.3-97	1	105	0	105
	<i>Lorry*</i>	BS5228 C.9-27	1	105	0	105
	<i>Dump truck*</i>	BS5228 C.9-29	1	109	0	109
	Ventilation fan	CNP241	1	113	0	113
				Area Total SWL		115
<b>Ventilation building foundation</b>						
	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	<i>Dump truck*</i>	BS5228 C.9-29	1	109	0	109
	<i>Concrete lorry mixer*</i>	BS5228 C.6-35	1	100	0	100
	Bentonite filtering plan	CNP162	1	105	0	105
	Piling	CNP166	1	100	0	100
	<i>Excavator*</i>	BS5228 C.3-97	1	106	0	106
	<i>Water pump</i>	CNP282	1	88	0	88
				Area Total SWL		112
<b>Superstructure</b>						
	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Concrete pump*	BS5228 C.6-36	2	106	0	109
	Mobile crane*	BS5228 C.7-110	2	106	0	109
	Concrete lorry mixer*	BS5228 C.6-35	2	100	0	103
				Area Total SWL		113
<b>Notes:</b>						
B.A. denotes barrier attenuation (dB(A))						
(*) denotes quiet alternative is used with reference to BS52228, 1997						
<i>italic</i> denotes limiting no. of plant						

Table 4A-5 Plant Inventory (Mitigation Option 4 for reducing the residual impacts at NSRs N6)

<b>Lai Chi Kok Viaduct</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	1	106	0	106
	Compactor	CNP050	1	105	0	105
				Area Total SWL		112
<b>With the use of mobile barrier for the mobile crane and limited the use of excavator, lorry &amp; compactor</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	0	106	0	0
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	1	100	0	100
	Lorry*	BS5228 C.9-27	0	105	0	0
	Mobile crane*	BS5228 C.7-110	1	106	5	101
	Compactor	CNP050	0	105	0	0
				Area Total SWL		105
<b>Limited the use of lorry, piling, mobile crane &amp; compactor</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	1	106	0	106
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	0	100	0	0
	Lorry*	BS5228 C.9-27	0	105	0	0
	Mobile crane*	BS5228 C.7-110	0	106	0	0
	Compactor	CNP050	0	105	0	0
				Area Total SWL		107
<b>Limited the use of excavator, piling, mobile crane &amp; compactor</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	0	106	0	0
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90
	Piling	CNP166	0	100	0	0
	Lorry*	BS5228 C.9-27	1	105	0	105
	Mobile crane*	BS5228 C.7-110	0	106	0	0
	Compactor	CNP050	0	105	0	0
				Area Total SWL		106
<b>Limited the use of excavator, piling, lorry &amp; mobile crane</b>						
<b>Substructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	Excavator*	BS5228 C.3-97	0	106	0	0
	Concrete lorry mixer*	BS5228 C.6-35	1	100	5	95
	Concrete pump*	BS5228 C.6-36	1	106	10	96
	Generator*	BS5228 C.7-62	1	100	10	90
	Air compressor*	BS5228 C.7-25	1	98	10	88
	Poker Vibrator*	BS5228 C.6-32	1	100	10	90

Table 4A-5 Plant Inventory (Mitigation Option 4 for reducing the residual impacts at NSRs N6)

	Piling	CNP166	0	100	0	0
	Lorry*	BS5228 C.9-27	0	105	0	0
	Mobile crane*	BS5228 C.7-110	0	106	0	0
	Compactor	CNP050	1	105	0	105
				Area Total SWL		106
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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
				Area Total SWL		111
<b>With the use of mobile barrier for the mobile crane</b>						
<b>Superstructure</b>	<b>Noise Source</b>	<b>Ref. No.</b>	<b>No.</b>	<b>SWL/unit</b>	<b>B.A.</b>	<b>sub-SWL</b>
	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	5	101
	Lorry*	BS5228 C.9-27	1	105	0	105
				Area Total SWL		110