

## Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel &amp; Related Works

Scenario:

Unmitigated ▼

## Hung Hom Station Sub-Location Area

**Modification/ Enabling Works/ Utilities Diversions**Hung Hom Station**Project Office Construction**

(1/10/2012 - 31/12/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	2	112	50%	0	112
Flat Bed Lorry		CNP 141	2	112	30%	0	110
Concrete Mixer Truck		CNP 044	2	109	30%	0	107
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Bar Bender and Cutter		CNP 021	1	90	30%	0	85
<b>Overall Noise Level, dB(A)</b>							<b>115</b>

**Hoarding Erection**

(1/11/2012 - 31/12/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	30%	0	107
Flat Bed Lorry		CNP 141	2	112	30%	0	110
<b>Overall Noise Level, dB(A)</b>							<b>112</b>

**Pre-drilling**

(1/1/2013 - 31/3/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Rig		CNP 163	2	90	50%	0	90
<b>Overall Noise Level, dB(A)</b>							<b>90</b>

**Dwall Plants Setting up**

(1/11/2012 - 31/1/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	50%	0	109
Bentonite Plant		CNP 162	1	105	50%	0	102
Flat Bed Lorry		CNP 141	2	112	50%	0	112
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

**A&A/ Modification Works**Concourse Level HUH**Stage 1 - Re-construct M/F, ABWF & BS**

(1/8/2014 - 31/1/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck		CNP 067	1	117	50%	0	114
Cutter, Circular, Steel		CNP 056	1	112	30%	0	107
Lorry with Crane/Grab		CNP 145	1	105	30%	0	100
Backhoe with Hydraulic Breaker		CNP 028	2	122	50%	0	122
<b>Overall Noise Level, dB(A)</b>							<b>123</b>

**Stage 2 - Re-construct M/F, ABWF & BS**

(1/8/2015 - 31/12/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck		CNP 067	1	117	50%	0	114
Cutter, Circular, Steel		CNP 056	1	112	30%	0	107
Lorry with Crane/Grab		CNP 145	1	105	30%	0	100
Backhoe with Hydraulic Breaker		CNP 028	2	122	50%	0	122
<b>Overall Noise Level, dB(A)</b>							<b>123</b>

## Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel &amp; Related Works

Scenario:

Unmitigated ▼

Area H1

**Modification/ Enabling Works/ Utilities Diversions**Podium to NOV**Cooling mains diversion**

(1/1/2013 - 30/4/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	1	112	50%	0	109
Dump Truck		CNP 067	1	117	50%	0	114
Giken Piler and Power-pack		EIA Ref.	1	94	50%	0	91
<b>Overall Noise Level, dB(A)</b>							<b>115</b>

**Dia 1650 Sewer diversion (SCL (MKK - HUH) part)**

(1/6/2015 - 31/8/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	1	112	50%	0	109
Dump Truck		CNP 067	2	117	50%	0	117
Giken Piler and Power-pack		EIA Ref.	2	94	50%	0	94
<b>Overall Noise Level, dB(A)</b>							<b>118</b>

**Tentative CLP cable tunnels strengthening**

(1/7/2014 - 31/12/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	50%	0	109
Flat Bed Lorry		CNP 141	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>							<b>111</b>

**IMC Building & Carpark areas****IMC Hoarding & Catch Fan Erection**

(1/6/2015 - 31/7/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	50%	0	109
Flat Bed Lorry		CNP 141	2	112	50%	0	112
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

**IMC Demolition and site clearance**

(1/9/2015 - 30/11/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	100%	0	112
Dump Truck		CNP 067	1	117	50%	0	114
Cutter, Circular, Steel		CNP 056	1	112	30%	0	107
Lorry with Crane/Grab		CNP 145	1	105	30%	0	100
Backhoe with Hydraulic Breaker		CNP 028	2	122	50%	0	122
<b>Overall Noise Level, dB(A)</b>							<b>123</b>

**Dia 1650 Sewer diversion**

(1/6/2015 - 31/12/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Giken Piler and Power-pack		EIA Ref.	2	94	30%	0	92
Backhoe		CNP 081	1	112	30%	0	107
Dump Truck		CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>							<b>115</b>

**Modification to Existing EVA structures**

(1/12/2015 - 31/3/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Dump Truck		CNP 067	1	117	30%	0	112
Backhoe with Hydraulic Breaker		CNP 028	1	122	30%	0	117
Concrete Mixer Truck		CNP 044	1	109	30%	0	104
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Concrete Poker Vibrator		CNP 170	1	113	30%	0	108
Bar Bender and Cutter		CNP 021	1	90	30%	0	85
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H1

**Temporary Cofferdam**

Podium to NOV

**Dwall construction (SCL (MKK - HUH)) for sewer diversion**

(1/1/2015 - 31/5/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	2	112	50%	0	112
Bar Bender and Cutter	CNP 021	4	90	30%	0	91
Concrete Mixer Truck	CNP 044	6	109	30%	0	112
Concrete Pump Truck	CNP 047	3	109	30%	0	109
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	30%	0	100
Dump Truck	CNP 067	2	117	50%	0	117
Grouting Machine	CNP 106	2	105	30%	0	103
Pumping Test	CNP 283	1	85	30%	0	80

**Overall Noise Level, dB(A) 120**

**Dwall construction (SCL (MKK - HUH)) remaining**

(1/6/2015 - 31/10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	2	112	30%	0	110
Bar Bender and Cutter	CNP 021	4	90	30%	0	91
Concrete Mixer Truck	CNP 044	6	109	30%	0	112
Concrete Pump Truck	CNP 047	3	109	30%	0	109
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	30%	0	100
Dump Truck	CNP 067	2	117	50%	0	117
Grouting Machine	CNP 106	2	105	30%	0	103
Pumping Test	CNP 283	1	85	30%	0	80

**Overall Noise Level, dB(A) 120**

IMC Building & Carpark areas

**Temporary Cofferdam after demolition**

(1/12/2015 - 29/2/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Giken Piler and Power-pack	EIA Ref.	2	94	50%	0	94
Backhoe	CNP 081	1	112	50%	0	109
Dump Truck	CNP 067	2	117	50%	0	117

**Overall Noise Level, dB(A) 118**

**Excavation**

Podium to NOV

**Excavation & Strutting to SCL (MKK - HUH) roof**

(1/11/2015 - 31/12/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	4	112	100%	0	118
Dump Truck	CNP 067	4	117	100%	0	123
Crane	CNP 048	1	112	50%	0	109

**Overall Noise Level, dB(A) 124**

**Excavation & Strutting to SCL (MKK - HUH) base**

(1/6/2016 - 31/8/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	4	112	100%	0	118
Dump Truck	CNP 067	4	117	100%	0	123
Crane	CNP 048	1	112	50%	0	109
Piling Rig	BS D11/2	1	112	50%	0	109
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100

**Overall Noise Level, dB(A) 124**

IMC Building & Carpark areas

**Pump test, Excavation & Strutting**

(1/3/2016 - 31/5/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test	CNP 283	1	85	50%	0	82

**Overall Noise Level, dB(A) 82**

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H1

**Structure Works**

Podium to NOV

**Concrete Structure SCL (MKK - HUH) roof**

(1/1/2016 - 31/1/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	2	112	100%	0	115
Bar Bender and Cutter	CNP 021	4	90	30%	0	91
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	4	113	30%	0	114
Concrete Pump Truck	CNP 047	2	109	30%	0	107
Backhoe	CNP 081	1	112	30%	0	107
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) **120**

**Concrete Support to CLP Tunnel**

(1/2/2016 - 31/5/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Backhoe	CNP 081	1	112	30%	0	107
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) **118**

**Concrete Structure SCL (MKK - HUH) roof**

(1/9/2016 - 30/11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	4	112	100%	0	118
Bar Bender and Cutter	CNP 021	8	90	30%	0	94
Concrete Mixer Truck	CNP 044	8	109	30%	0	113
Concrete Poker Vibrator	CNP 170	8	113	30%	0	117
Concrete Pump Truck	CNP 047	4	109	30%	0	110
Backhoe	CNP 081	4	112	30%	0	113
Dump Truck	CNP 067	8	117	30%	0	121

Overall Noise Level, dB(A) **124**

**Waterfront EVA structure (SCL (MKK - HUH))**

(1/11/2016 - 28/2/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	1	122	30%	0	117
Roller	CNP 186	1	108	30%	0	103
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Concrete Poker Vibrator	CNP 170	1	113	30%	0	108
Bar Bender and Cutter	CNP 021	1	90	30%	0	85

Overall Noise Level, dB(A) **118**

IMC Building & Carpark areas

**Cooling Tower Raft**

(1/12/2015 - 31/1/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	50%	0	109
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) **115**

**Cooling Tower Ground Slab**

(1/2/2016 - 29/2/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	50%	0	109
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) **115**

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario:

Unmitigated ▼

Area H1

Cooling Tower wall & roof

(1/3/2016 - 30/4/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	50%	0	109
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 115

Waterfront EVA structure (SCL (TAW - HUH))

(1/8/2016 - 31/10/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	1	122	30%	0	117
Roller	CNP 186	1	108	30%	0	103
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Concrete Poker Vibrator	CNP 170	1	113	30%	0	108
Bar Bender and Cutter	CNP 021	1	90	30%	0	85

Overall Noise Level, dB(A) 118

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario:

Unmitigated

Area H2

**Modification/ Enabling Works/ Utilities Diversions**

Podium to Coliseum

Modification of Traversa

(1/1/2013 - 31/3/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	1	112	100%	0	112
Dump Truck		CNP 067	1	117	50%	0	114
<b>Overall Noise Level, dB(A)</b>							<b>116</b>

Utilities Diversion/ Services relocate (GL 0 - GL 7)

(1/4/2013 - 30/6/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	6	112	100%	0	120
Dump Truck		CNP 067	6	117	50%	0	122
<b>Overall Noise Level, dB(A)</b>							<b>124</b>

**Temporary Cofferdam**

Podium to Coliseum

Ground Treatment to GL 1 to GL 7

(1/7/2013 - 31/10/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Giken Piler and Power-pack		EIA Ref.	1	94	100%	0	94
<b>Overall Noise Level, dB(A)</b>							<b>94</b>

Dwall & Barrette GL 0 to GL 7

(1/11/2013 - 30/4/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	2	112	30%	0	110
Bar Bender and Cutter		CNP 021	4	90	30%	0	91
Concrete Mixer Truck		CNP 044	6	109	30%	0	112
Concrete Pump Truck		CNP 047	3	109	30%	0	109
Modified Rig		CNP 163	2	90	100%	0	93
Modified Crane		CNP 048	1	112	100%	0	112
Bentonite Plant		CNP 162	1	105	30%	0	100
Dump Truck		CNP 067	2	117	30%	0	115
Grouting Machine		CNP 106	2	105	30%	0	103
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

Pump test GL 0 to GL 7

(1/6/2014 - 31/7/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test		CNP 283	1	85	50%	0	82
<b>Overall Noise Level, dB(A)</b>							<b>82</b>

Underpinning beam & columns

(1/6/2014 - 31/10/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Mixer Truck		CNP 044	2	109	30%	0	107
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Crane		CNP 048	1	112	50%	0	109
Backhoe		CNP 081	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

Demolish existing columns

(1/11/2014 - 30/11/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker		CNP 028	1	122	100%	0	122
Dump Truck		CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>							<b>122</b>

**Excavation**

Podium to Coliseum

Excavation & Strutting GL 0 to GL 7

(1/2/2015 - 30/4/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	2	112	100%	0	115
Dump Truck		CNP 067	2	117	100%	0	120
Crane		CNP 048	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>							<b>121</b>

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H2

Final Excavation & Strutting to NSL base GI 0 to GL 7

(1/8/2016 - 30/9/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	100%	0	112
Dump Truck	CNP 067	2	117	100%	0	120
Crane	CNP 048	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

Structure Works

Podium to Coliseum

SCL (TAW - HUH) Base GL 0 to GL 7

(1/12/2014 - 31/1/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Giken Piler and Power-pack	EIA Ref.	1	94	30%	0	89
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

SCL (MKK - HUH) Slab & props to existing foundation GL 0 to GL 7

(1/5/2015 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

SCL (MKK - HUH) Base & Wall GL 0 to GL 7

(1/10/2015 - 31/1/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	2	112	50%	0	112
Bar Bender and Cutter	CNP 021	4	90	30%	0	91
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	4	113	30%	0	114
Concrete Pump Truck	CNP 047	2	109	30%	0	107
Backhoe	CNP 081	2	112	30%	0	110
Dump Truck	CNP 067	4	117	50%	0	120
<b>Overall Noise Level, dB(A)</b>						<b>122</b>

SCL (TAW - HUH) & other Structures GL 0 to GL 7

(1/2/2016 - 31/5/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

Vent Shaft Structures GL 0

(1/9/2016 - 30/11/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
H-Pile Rig	BS D11/2	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H3

**Modification/ Enabling Works/ Utilities Diversions**

Coliseum Area

**Utilities Diversion/ Services relocate (GL 7 - GL 15)**

(1/4/2013 - 30/6/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	2	112	100%	0	115
Dump Truck		CNP 067	2	117	50%	0	117
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

**Temporary Cofferdam**

Coliseum Area

**Dwall GL 7 to GL 15**

(1/5/2013 - 30/11/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	2	112	30%	0	110
Bar Bender and Cutter		CNP 021	4	90	30%	0	91
Concrete Mixer Truck		CNP 044	6	109	30%	0	112
Concrete Pump Truck		CNP 047	3	109	30%	0	109
Modified Rig		CNP 163	2	90	100%	0	93
Modified Crane		CNP 048	1	112	100%	0	112
Bentonite Plant		CNP 162	1	105	30%	0	100
Dump Truck		CNP 067	2	117	30%	0	115
Grouting Machine		CNP 106	2	105	30%	0	103
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

**Excavation**

Coliseum Area

**Pump test GL 7 to GL 15**

(1/12/2013 - 31/1/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test		CNP 283	1	85	50%	0	82
<b>Overall Noise Level, dB(A)</b>							<b>82</b>

**Excavation to SCL (TAW - HUH) slab GI 7 to GL 15**

(1/2/2014 - 28/2/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	4	112	100%	0	118
Dump Truck		CNP 067	4	117	100%	0	123
Crane		CNP 048	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>							<b>124</b>

**Excavation & Strutting to intermediate slab GL 7 to GL 15**

(1/7/2014 - 30/9/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	4	112	100%	0	118
Dump Truck		CNP 067	4	117	100%	0	123
Crane		CNP 048	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>							<b>124</b>

**Excavation & Strutting to SCL (MKK - HUH) base GI 7 to GL 15**

(1/1/2015 - 31/3/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	4	112	100%	0	118
Dump Truck		CNP 067	4	117	100%	0	123
Crane		CNP 048	1	112	50%	0	109
Piling Rig		BS D11/2	1	112	30%	0	107
Grouting Mixer		CNP 105	1	90	30%	0	85
Grouting Pump		CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>							<b>124</b>



Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario:

Unmitigated ▼

Area H3

**Structure Works**

Podium to Coliseum

SCL (TAW - HUH) Track Slab & Structures GL 7 to GL 15

(1/3/2014 - 30/4/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	4	109	30%	0	110
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 116

SCL (MKK - HUH) Structures Intermediate Slab & props GL 7 to GL 15

(1/10/2014 - 31/12/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	4	109	30%	0	110
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 116

SCL (MKK - HUH) Structure Base & Wall GL 7 to GL 15

(1/4/2015 - 31/7/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	4	109	30%	0	110
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 116

SCL (TAW - HUH) Structures Wall & Roof GL 7 to GL 15

(1/8/2015 - 30/9/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	4	109	30%	0	110
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 116

SCL (TAW - HUH) & other Structures GL 7 to GL 15

(1/8/2015 - 30/11/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	4	109	30%	0	110
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97

Overall Noise Level, dB(A) 116

## Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel &amp; Related Works

Scenario:

Unmitigated ▼

## Area H4

## Modification/ Enabling Works/ Utilities Diversions

## Hung Hom Station

## Utilities Diversion/ Services relocate (GL 15 - GL 28)

(1/1/2013 - 31/3/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Saw, Concrete	CNP 203	2	115	30%	0	113
Crane Lorry, Mobile	CNP 048	1	112	30%	0	107
Dump Truck	CNP 067	1	117	30%	0	112
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97
Concrete Lorry Mixer	CNP 044	1	109	50%	0	106
Giken Piler and Power-pack	EIA Ref.	1	94	50%	0	91

Overall Noise Level, dB(A) 119

## Temporary Cofferdam

## Hung Hom Station

## Underpinning GL K

(1/2/2013 - 31/7/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Rig	CNP 163	2	90	75%	0	92
Modified Crane	CNP 048	1	112	75%	0	111
Dump Truck	CNP 067	1	117	50%	0	114
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Modified Crane	CNP 048	1	112	50%	0	109
Backhoe	CNP 081	1	112	50%	0	109
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Dump Truck	CNP 067	1	117	30%	0	112
Giken Piler and Power-pack	EIA Ref.	1	94	75%	0	93

Overall Noise Level, dB(A) 119

## Dwall GL 15 to GL 31 / GL N

(1/4/2013 - 30/9/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100

Overall Noise Level, dB(A) 118

## Dwall GL 15 to GL 31 / GL K1

(1/9/2013 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100

Overall Noise Level, dB(A) 118

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H4

**Excavation**

Hung Hom Station

**Pump test GL 15 to GL 28**

(1/3/2014 - 30/4/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test		CNP 283	2	85	50%	0	85
<b>Overall Noise Level, dB(A)</b>							<b>85</b>

**Excavation & Strutting 1st Layer GL 15 to GL 28**

(1/5/2014 - 31/5/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader		CNP 082	2	94	100%	0	97
Dump Truck		CNP 067	4	117	100%	0	123
Modified Crane		CNP 048	1	112	50%	0	109
Modified Crane		CNP 048	1	112	50%	0	109
Flat Bed Lorry		CNP 141	2	112	50%	0	112
<b>Overall Noise Level, dB(A)</b>							<b>124</b>

**Excavation & Strutting GL 15 to GL 28**

(1/11/2014 - 30/4/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader		CNP 082	2	94	100%	0	97
Dump Truck		CNP 067	4	117	100%	0	123
Modified Crane		CNP 048	1	112	50%	0	109
Piling Rig		BS D11/2	1	112	50%	0	109
Grouting Mixer		CNP 105	1	90	30%	0	85
Grouting Pump		CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>							<b>123</b>

**Excavation & Strutting to SCL (MKK - HUH) base GI 7 to GL 15**

(1/1/2015 - 31/3/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	4	112	100%	0	118
Dump Truck		CNP 067	4	117	100%	0	123
Crane		CNP 048	1	112	50%	0	109
Piling Rig		BS D11/2	1	112	30%	0	107
Grouting Mixer		CNP 105	1	90	30%	0	85
Grouting Pump		CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>							<b>124</b>

**Structure Works**

Hung Hom Station

**SCL (TAW - HUH) Track Slab GL 15 to GL 28**

(1/6/2014 - 31/8/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Bar Bender and Cutter		CNP 021	2	90	30%	0	88
Concrete Mixer Truck		CNP 044	5	109	30%	0	111
Concrete Poker Vibrator		CNP 170	2	113	30%	0	111
Concrete Pump Truck		CNP 047	1	109	30%	0	104
Air Compressor		CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>							<b>116</b>

**Install Temporary Steel Tower Column GL 15 to GL 22**

(1/9/2014 - 31/10/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane		CNP 048	1	112	100%	0	112
Flat Bed Lorry		CNP 141	1	112	50%	0	109
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

**Demolish existing Column & Pier Cap GL 15 to GL 22**

(1/11/2014 - 31/12/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe		CNP 081	1	112	100%	0	112
Modified Crane		CNP 048	1	112	50%	0	109
Dump Truck		CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>							<b>117</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H4

**SCL (MKK - HUH) Base Structure GL 15 to GL 28** (1/5/2015 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	5	109	30%	0	111
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 116**

**SCL (TAW - HUH) & other Structures GL 15 to GL 28** (1/7/2015 - 30/10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	3	112	100%	0	117
Bar Bender and Cutter	CNP 021	6	90	30%	0	93
Concrete Mixer Truck	CNP 044	12	109	30%	0	115
Concrete Poker Vibrator	CNP 170	6	113	30%	0	116
Concrete Pump Truck	CNP 047	3	109	30%	0	109
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 121**

**SCL (MKK - HUH) Internal Structures GL 15 to GL 28** (1/8/2015 - 30/10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Mixer Truck	CNP 044	2	109	100%	0	112
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Modified Crane	CNP 048	1	112	30%	0	107
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 119**

## Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel &amp; Related Works

Scenario: Unmitigated ▼

## Area H5

**Modification/ Enabling Works/ Utilities Diversions**Hung Hom Station**Utilities Diversion/ Services relocate (GL 28 - GL 38)**

(1/4/2013 - 30/6/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Saw, Concrete	CNP 203	2	115	50%	0	115
Crane Lorry, Mobile	CNP 048	1	112	30%	0	107
Dump Truck	CNP 067	1	117	30%	0	112
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Giken Piler and Power-pack	EIA Ref.	1	94	50%	0	91

**Overall Noise Level, dB(A)** **119****Temporary Storm Drain@ 1875 Diversion (GL 31)**

(1/10/2013 - 31/12/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	100%	0	112
Modified Crane	CNP 048	1	112	50%	0	109

**Overall Noise Level, dB(A)** **114****Redivert Storm Drain@ 1875 Diversion (GL 32)**

(1/10/2014 - 30/11/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	2	122	100%	0	125
Modified Crane	CNP 048	1	112	50%	0	109
Dump Truck	CNP 067	1	117	50%	0	114

**Overall Noise Level, dB(A)** **125****Temporary Cofferdam**Hung Hom Station**Underpinning GL K & L**

(1/7/2013 - 30/11/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Rig	CNP 163	2	90	50%	0	90
Modified Crane	CNP 048	1	112	50%	0	109
Dump Truck	CNP 067	1	117	30%	0	112
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Modified Crane	CNP 048	1	112	50%	0	109
Backhoe	CNP 081	1	112	50%	0	109
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Dump Truck	CNP 067	1	117	30%	0	112
Giken Piler and Power-pack	EIA Ref.	1	94	50%	0	91

**Overall Noise Level, dB(A)** **119****Dwall GL 31 to GL 38 / GL K1**

(1/12/2013 - 31/3/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100

**Overall Noise Level, dB(A)** **118**

## Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H5

Dwall GL 31 to GL 38 / GL N

(1/1/2014 - 30/4/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

Excavation

Hung Hom Station

Pump test GL 28 to GL 38

(1/5/2014 - 30/6/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test	CNP 283	2	85	50%	0	85
<b>Overall Noise Level, dB(A)</b>						<b>85</b>

Excavation & Strutting 1st Layer GL 28 to GL 38

(1/6/2014 - 30/6/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader	CNP 082	2	94	100%	0	97
Dump Truck	CNP 067	4	117	100%	0	123
Modified Crane	CNP 048	1	112	50%	0	109
Modified Crane	CNP 048	1	112	50%	0	109
Flat Bed Lorry	CNP 141	2	112	50%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>124</b>

Excavation & Strutting GL 28 to GL 38

(1/9/2014 - 31/3/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader	CNP 082	2	94	100%	0	97
Dump Truck	CNP 067	4	117	100%	0	123
Modified Crane	CNP 048	1	112	50%	0	109
Modified Crane	CNP 048	1	112	50%	0	109
Flat Bed Lorry	CNP 141	2	112	50%	0	112
Piling Rig	BS D11/2	1	112	50%	0	109
Grouting Mixer	CNP 105	1	90	50%	0	87
Grouting Pump	CNP 106	1	105	50%	0	102
<b>Overall Noise Level, dB(A)</b>						<b>124</b>

Structure Works

Hung Hom Station

SCL (TAW - HUH) Track Slab GL 28 to GL 38

(1/7/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	5	109	30%	0	111
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

SCL (MKK - HUH) Base Structure GL 28 to GL 38

(1/4/2015 - 30/6/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	5	109	30%	0	111
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H5

SCL (MKK - HUH) Internal Structures GL 28 to GL 38 (1/7/2015 - 30/9/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

Underpinning Columns to Podium Soffit GL 28 to GL 38 (1/10/2015 - 30/11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Modified Crane	CNP 048	1	112	30%	0	107
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

SCL (TAW - HUH) & other Structures GL 28 to GL 38 (1/10/2015 - 29/2/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	3	112	100%	0	117
Bar Bender and Cutter	CNP 021	6	90	30%	0	93
Concrete Mixer Truck	CNP 044	12	109	30%	0	115
Concrete Poker Vibrator	CNP 170	6	113	30%	0	116
Concrete Pump Truck	CNP 047	3	109	30%	0	109
Air Compressor	CNP 002	1	102	30%	0	97
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

## Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel &amp; Related Works

Scenario:

Unmitigated ▼

## Area H6

## Modification/ Enabling Works/ Utilities Diversions

## Hung Hom Station

## Utilities Diversion/ Services relocate (GL 38 - GL 48)

(1/1/2013 - 31/3/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Saw, Concrete	CNP 203	2	115	50%	0	115
Crane Lorry, Mobile	CNP 048	1	112	30%	0	107
Dump Truck	CNP 067	1	117	30%	0	112
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Giken Piler and Power-pack	EIA Ref.	1	94	50%	0	91
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

## Temporary Cofferdam

## Hung Hom Station

## Underpinning GL K &amp; L

(1/4/2013 - 31/8/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Rig	CNP 163	2	90	50%	0	90
Modified Crane	CNP 048	1	112	50%	0	109
Dump Truck	CNP 067	1	117	30%	0	112
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Modified Crane	CNP 048	1	112	50%	0	109
Backhoe	CNP 081	1	112	50%	0	109
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Dump Truck	CNP 067	1	117	30%	0	112
Giken Piler and Power-pack	EIA Ref.	1	94	50%	0	91
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

## Underpinning Mid-level walkway

(1/4/2013 - 31/8/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	50%	0	109
Dump Truck	CNP 067	1	117	30%	0	112
Flat Bed Lorry	CNP 141	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

## Dwall GL 38 to GL 48 / Interface / GL N

(1/4/2013 - 31/10/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

Remarks:

EIA Ref. : The SWL of Giken Piler and Power-pack was made reference to the approved EIA Report of "Tsim Sha Tsui Station Northern Subway"



Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H6

Dwall GL 38 to GL 48 / Interface / GL K1 (1/9/2013 - 31/12/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Modified Rig	CNP 163	2	90	100%	0	93
Modified Crane	CNP 048	1	112	100%	0	112
Bentonite Plant	CNP 162	1	105	50%	0	102
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Air Compressor	CNP 002	1	102	30%	0	97
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

**Excavation**

Hung Hom Station

Pump test GL 38 to GL 48 / Interface (1/1/2014 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pumping Test	CNP 283	2	85	50%	0	85
<b>Overall Noise Level, dB(A)</b>						<b>85</b>

Excavation & Strutting 1st Layer GL 38 to GL 48 (1/3/2014 - 30/4/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader	CNP 082	2	94	100%	0	97
Dump Truck	CNP 067	4	117	50%	0	120
Modified Crane	CNP 048	1	112	30%	0	107
Modified Crane	CNP 048	1	112	30%	0	107
Flat Bed Lorry	CNP 141	2	112	30%	0	110
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

Excavation & Strutting GL 38 to GL 48 / Interface (1/8/2014 - 31/1/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler / Excavator Loader	CNP 082	2	94	100%	0	97
Dump Truck	CNP 067	4	117	50%	0	120
Modified Crane	CNP 048	1	112	30%	0	107
Modified Crane	CNP 048	1	112	30%	0	107
Flat Bed Lorry	CNP 141	2	112	30%	0	110
Piling Rig	BS D11/2	1	112	30%	0	107
Grouting Mixer	CNP 105	1	90	30%	0	85
Grouting Pump	CNP 106	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

**Structure Works**

Hung Hom Station

SCL (TAW - HUH) Track Slab GL 38 to GL 48 / Interface (1/5/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	5	109	30%	0	111
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97
Backhoe	CNP 081	2	112	100%	0	115
Dump Truck	CNP 067	2	117	50%	0	117
Backhoe	CNP 081	1	112	50%	0	109
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Air Compressor	CNP 002	1	102	30%	0	97
Backhoe	CNP 081	2	112	50%	0	112
Compactor, Vibratory	CNP 050	1	105	30%	0	100
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Dump Truck	CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>						<b>123</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Station, South Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area H6

**SCL (MKK - HUH) Base Structure GL 38 to GL 48** (1/2/2015 - 30/4/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	5	109	30%	0	111
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 116**

**SCL (MKK - HUH) Internal Structures GL 38 to GL 48** (1/5/2015 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	1	112	100%	0	112
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	4	109	30%	0	110
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 116**

**Underpinning Columns to Podium Soffit GL 38 to GL 48** (1/8/2015 - 30/9/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Concrete Mixer Truck	CNP 044	2	109	30%	0	107
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Modified Crane	CNP 048	1	112	30%	0	107
Concrete Poker Vibrator	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 114**

**SCL (TAW - HUH) & other Structures GL 38 to GL 48** (1/8/2015 - 30/11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Modified Crane	CNP 048	3	112	100%	0	117
Bar Bender and Cutter	CNP 021	6	90	30%	0	93
Concrete Mixer Truck	CNP 044	12	109	30%	0	115
Concrete Poker Vibrator	CNP 170	6	113	30%	0	116
Concrete Pump Truck	CNP 047	3	109	30%	0	109
Air Compressor	CNP 002	1	102	30%	0	97

**Overall Noise Level, dB(A) 121**

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

North Approach Tunnel Sub-Location Area

**Reprovisioning Facilities**

Reprovisioned at Hung Hom Station Area

**Building Works for Intercity Train Crew Facilities**

(1/8/2012 - 28/2/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Building Works for Signal Equipment Room**

(1/10/2012 - 31/10/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>110</b>

**Building Works for Telecom Equipment Room**

(1/11/2012 - 30/11/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>110</b>

**Building Works for S&C Depot**

(1/10/2012 - 30/11/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>110</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C1

**Demolish Existing Facilities**

**Demolish Existing Loco Running Shed** (1/9/2013 - 31/10/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

**Demolish Existing Ways & Works Workshop** (1/1/2014 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>121</b>

**Modification/ Enabling Works/ Utilities Diversions**

Cheung Wan Road Viaduct

**Site Clearance and Hoarding and Utility diversion** (1/9/2012 - 30/10/2012)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	60%	0	110
Air Compressor	CNP 002	1	102	70%	0	100
Hand held breaker	CNP 024	1	108	50%	0	105
Lorry with crane/grab	CNP 145	1	105	80%	0	104
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Foundations** (1/12/2012 - 31/8/2013)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile	CNP 048	1	112	30%	0	107
Rock drill	CNP 182	1	123	30%	0	118
Air compressor	CNP 002	1	102	60%	0	100
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Concrete lorry mixer	CNP 044	1	109	30%	0	104
Piling, large diameterbored, grab and chisel	CNP 164	1	115	50%	0	112
Welder/generator	CNP 107	1	99	30%	0	94
Excavator	CNP 081	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

**Construction of Substructure and Superstructure for New Diversion Bridge**

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	50%	0	109
Concrete lorry mixer	CNP 044	2	109	30%	0	107
Poker, Vibratory, Hand-held	CNP 170	1	113	30%	0	108
Air Compressor	CNP 002	1	102	70%	0	100
Crane, mobile	CNP 048	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

**Demolish of Existing Viaduct** (1/8/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	70%	0	110
Hydraulic breaker	CNP 028	1	122	70%	0	120
Saw, concrete	CNP 203	1	115	40%	0	111
Air Compressor	CNP 002	1	102	70%	0	100
Lorry with crane/grab	CNP 145	1	105	100%	0	105
Crane, mobile	CNP 048	1	112	70%	0	110
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>122</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C1

DSD Culvert Diversion

**Construct New Box Culvert - Loco Shed area**

(1/9/2013 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with hydraulic breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete pump	CNP 047	1	109	30%	0	104
Concrete Mixer Truck	CNP 044	1	109	30%	0	104

Overall Noise Level, dB(A) **121**

**Construct New Box Culvert - Ways & Works Workshop area**

(1/3/2014 - 30/11/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with hydraulic breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete pump	CNP 047	1	109	30%	0	104
Concrete Mixer Truck	CNP 044	1	109	30%	0	104

Overall Noise Level, dB(A) **121**

**Construct New Box Culvert - above SCL (MKK - HUH) Tunnels**

(1/5/2015 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with hydraulic breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete pump	CNP 047	1	109	30%	0	104
Concrete Mixer Truck	CNP 044	1	109	30%	0	104

Overall Noise Level, dB(A) **121**

**Temporary Cofferdam**

Podium to Existing Culverts

**Cofferdam Construction**

(1/8/2014 - 31/10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	2	112	70%	0	113
Crawler crane	CNP 048	1	112	30%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117

Overall Noise Level, dB(A) **119**

At Existing Culverts

**Cofferdam Construction (existing culvert)**

(1/6/2015 - 31/8/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	2	112	70%	0	113
Crawler crane	CNP 048	1	112	30%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117

Overall Noise Level, dB(A) **119**

**Excavation**

Podium to Existing Culverts

**Excavation & Shoring**

(1/11/2014 - 31/1/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) **114**

At Existing Culverts

**Excavation & Shoring (existing culvert)**

(1/9/2015 - 31/10/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) **114**

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario:

Unmitigated ▼

Area C1

**Structure Works**

Podium to Existing Culverts

**Concrete Structures SCL (MKK - HUH)**

(1/2/2015 - 30/4/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	4	113	50%	0	116
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

At Existing Culverts

**Concrete Structures SCL (MKK - HUH) (existing culvert)**

(1/11/2015 - 31/12/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	4	113	50%	0	116
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

**Backfilling**

Podium to Existing Culverts and at above

**Backfill**

(1/4/2016 - 31/5/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Roller	CNP 186	1	108	30%	0	103
Dump Truck	CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated

Area C2

Demolish Existing Facilities

Demolish Existing STA Building

(1/1/2014 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe with Hydraulic Breaker	CNP 028	1	122	70%	0	120
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) 121

Temporary Cofferdam

Hung Hom Bypass Pier C2/5

Install Diaphragm Wall

(1/1/2014 - 31/5/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile	CNP 048	1	112	30%	0	107
Rock Drill	CNP 182	1	123	30%	0	118
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Concrete lorry mixer	CNP 044	2	109	30%	0	107
Air Compressor	CNP 002	1	102	70%	0	100
Piling, diaphragm wall, bentonite filtering plant	CNP 162	1	105	80%	0	104
Welder/generator	CNP 107	1	99	40%	0	95

Overall Noise Level, dB(A) 119

Underpinning foundation

(1/3/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	50%	0	109
Concrete lorry mixer	CNP 044	2	109	30%	0	107
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	70%	0	100
Crane, mobile	CNP 048	1	112	40%	0	108

Overall Noise Level, dB(A) 115

Existing Culverts to STA Building

Cofferdam Construction

(1/1/2014 - 31/5/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	2	112	70%	0	113
Crawler crane	CNP 048	1	112	30%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117

Overall Noise Level, dB(A) 119

Excavation

Existing Culverts to STA Building

Excavation & Shoring

(1/8/2014 - 31/12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112

Overall Noise Level, dB(A) 114

Structure Works

Existing Culverts to STA Building

Concrete Structures SCL (MKK - HUH)

(1/1/2015 - 31/5/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	4	113	50%	0	116

Overall Noise Level, dB(A) 118

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C3A

**Temporary Cofferdam**

STA Building to Chatham Road North (OB2)  
Cofferdam Construction

(1/2/2014 - 30/4/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

**Excavation**

STA Building to Chatham Road North (OB2)  
Excavation & Shoring

(1/5/2014 - 31/8/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

**Structure Works**

STA Building to Chatham Road North (OB2)  
Concrete Structures SCL (MKK - HUH)

(1/9/2014 - 31/1/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

**Backfilling**

STA Building to Chatham Road North (OB2)  
Backfill

(1/2/2015 - 31/3/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Roller	CNP 186	1	108	30%	0	103
Dump Truck	CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>						<b>117</b>



Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C4A

**Temporary Cofferdam**

Chatham Road North (OB2) to Slip Road (OB2A)

**Cofferdam Construction**

(1/2/2014 - 30/4/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

**Excavation**

Chatham Road North (OB2) to Slip Road (OB2A)

**Excavation & Shoring**

(1/7/2014 - 31/10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

**Structure Works**

Chatham Road North (OB2) to Slip Road (OB2A)

**Concrete Structures SCL (MKK - HUH)**

(1/11/2014 - 31/1/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	1	109	50%	0	106
Concrete Pump Truck	CNP 047	1	109	50%	0	106
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

**Backfilling**

Chatham Road North (OB2) to Slip Road (OB2A)

**Backfill**

(1/2/2015 - 31/3/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Roller	CNP 186	1	108	30%	0	103
Dump Truck	CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

## Plant Inventory for Construction Noise Assessment - North Approach Tunnel &amp; Related Works

Scenario:

Unmitigated ▼

## Area C6

**Modification/ Enabling Works/ Utilities Diversions**Existing CLP Substation**Modify Existing CLP Substation**

(1/5/2014 - 31/10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Backhoe with Hydraulic Breaker	CNP 028	1	122	30%	0	117
Dump Truck	CNP 067	1	117	30%	0	112
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

Oi Sen Path Temporary Footbridge**Construct Temporary Working Platform (GL G-J)**

(1/1/2014 - 31/1/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>100</b>

**Cut Back Slope and Existing Soil Nails and Install New Soil Nails (GL G-J)**

(1/2/2014 - 28/2/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Soil Nailing Machine	CNP 064	1	103	50%	0	100
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
Hand held breaker	CNP 024	1	108	30%	0	103
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Construct Temporary Working Platform (GL E-G)**

(1/3/2014 - 31/3/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>100</b>

**Cut Back Slope and Existing Soil Nails and Install New Soil Nails (GL E-G)**

(1/4/2014 - 30/4/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Soil Nailing Machine	CNP 064	1	103	50%	0	100
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
Hand held breaker	CNP 024	1	108	30%	0	103
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Construct Temporary Working Platform (GL C-E)**

(1/5/2014 - 31/5/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>100</b>

**Cut Back Slope and Existing Soil Nails and Install New Soil Nails (GL C-E)**

(1/6/2014 - 30/6/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Soil Nailing Machine	CNP 064	1	103	50%	0	100
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
Hand held breaker	CNP 024	1	108	30%	0	103
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Construct Temporary Working Platform (GL A-C)**

(1/7/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Lorry with crane/grab	CNP 145	1	105	30%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>100</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

**Cut Back Slope and Existing Soil Nails and Install New Soil Nails (GL A-C)** (1/8/2014 - 31/8/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Soil Nailing Machine	CNP 064	1	103	50%	0	100
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
Hand held breaker	CNP 024	1	108	30%	0	103
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Construct Temporary Footbridge Structure and Finishes (GL A-J)** (1/7/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	2	102	50%	0	102
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
Lorry with crane/grab	CNP 145	1	105	30%	0	100
Welder/generator	CNP 107	2	99	50%	0	99
<b>Overall Noise Level, dB(A)</b>						<b>113</b>

**Install Mini Piles (Pier K)** (1/5/2014 - 31/5/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

**Construct Pile Cap (Pier K)** (1/6/2014 - 30/6/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Construct Truss Structure (Pier K)** (1/7/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Install Mini Piles (Pier L)** (1/6/2014 - 30/6/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

**Construct Pile Cap (Pier L)** (1/7/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Construct Truss Structure (Pier L)** (1/8/2014 - 31/8/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

**Install Mini Piles (Pier M)** (1/7/2014 - 31/7/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

**Construct Pile Cap (Pier M)** (1/8/2014 - 31/8/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Construct Truss Structure (Pier M)** (1/9/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Install Mini Piles (Pier N)** (1/8/2014 - 31/8/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

**Construct Pile Cap (Pier N)** (1/9/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Construct Truss Structure (Pier N)** (1/10/2014 - 31/10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Install Mini Piles (Pier P)** (1/9/2014 - 30/9/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout Mixer	CNP 105	1	90	50%	0	87
Grout Pump	CNP 106	1	105	40%	0	101
Air Compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

**Construct Pile Cap (Pier P)** (1/10/2014 - 31/10/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

**Construct Truss Structure (Pier P)** (1/11/2014 - 30/11/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
<b>Overall Noise Level, dB(A)</b>						<b>107</b>

**Construct Temporary Footbridge Structure and Finishes (GL J-O)** (1/10/2014 - 31/12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	1	99	50%	0	96
Dump Truck	CNP 067	1	117	30%	0	112
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

**Construct Pile Cap (GL O-R)** (1/10/2014 - 30/11/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Construct Truss Structure (GL O-R)** (1/11/2014 - 31/12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler Crane	CNP 048	1	112	30%	0	107
Welder/generator	CNP 107	2	99	50%	0	99
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>113</b>

**Construct Temporary Footbridge Structure and Finishes (GL O-R)** (1/11/2014 - 31/12/2014)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Bar bender and Cutter	CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held	CNP 170	1	113	50%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
Concrete Pump	CNP 047	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

**Complete Footpath and Finishes (GL R-T)** (1/8/2015 - 30/9/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane Lorry	CNP 048	1	112	70%	0	110
Concrete Lorry Mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>111</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

Chatham Road North Slip Road Overbridge (OB2A)

Site Clearance and Hoarding and Utility diversion

(1/2/2014 - 28/2/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	60%	0	110
Air Compressor		CNP 002	1	102	50%	0	99
Hand held breaker		CNP 024	1	108	50%	0	105
Lorry with crane/grab		CNP 145	1	105	60%	0	103
Welder/generator		CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>							<b>112</b>

Foundations for Temporary OB2A (Piling & Pier)

(1/3/2014 - 31/8/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	60%	0	110
Piling, large diameterbored, grab and chisel		CNP 164	1	115	30%	0	110
Pipe Pile Rigs		BS D11/2	1	112	30%	0	107
Air Compressor		CNP 002	1	102	50%	0	99
Lorry with crane/grab		CNP 145	1	105	60%	0	103
Poker, Vibratory, Hand-held		CNP 170	2	113	30%	0	111
Concrete lorry mixer		CNP 044	2	109	30%	0	107
<b>Overall Noise Level, dB(A)</b>							<b>116</b>

Deck Construction for Temporary OB2A

(1/4/2015 - 31/7/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile		CNP 048	1	112	50%	0	109
Air Compressor		CNP 002	1	102	70%	0	100
Poker, Vibratory, Hand-held		CNP 170	2	113	30%	0	111
Concrete lorry mixer		CNP 044	1	109	30%	0	104
Concrete pump		CNP 047	1	109	30%	0	104
Welder/generator		CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

Demolish Deck of Existing OB2A

(1/8/2015 - 30/9/2015)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane, mobile		CNP 048	1	112	30%	0	107
Air Compressor		CNP 002	1	102	70%	0	100
Saw, Concrete		CNP 203	1	115	50%	0	112
Hand held breaker		CNP 024	1	108	70%	0	106
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

Construction of New OB2A Pile & Pile Cap

(1/7/2016 - 31/10/2016)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	50%	0	109
Piling, large diameterbored, grab and chisel		CNP 164	1	115	80%	0	114
Dump truck		CNP 067	1	117	30%	0	112
Poker, Vibratory, Hand-held		CNP 170	2	113	30%	0	111
Air Compressor		CNP 002	1	102	50%	0	99
Concrete lorry mixer		CNP 044	2	109	30%	0	107
Crane, mobile		CNP 048	1	112	60%	0	110
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario:

Unmitigated ▼

Area C6

Construction of New OB2A Abutment & Bridge Deck

(1/11/2016 - 28/2/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	70%	0	110
Dump truck	CNP 067	1	117	80%	0	116
Power Rammer (petrol)	CNP 169	1	108	100%	0	108
Asphalt paver	CNP 004	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

OB2A Reinstatement

(1/3/2017 - 30/4/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	70%	0	110
Dump truck	CNP 067	1	117	80%	0	116
Asphalt paver	CNP 004	1	109	30%	0	104
Road roller	CNP 185	1	108	30%	0	103
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

Temporary OB2A Removal

(1/5/2017 - 30/6/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	70%	0	110
Dump truck	CNP 067	1	117	80%	0	116
Asphalt paver	CNP 004	1	109	30%	0	104
Road roller	CNP 185	1	108	30%	0	103
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

OB2A Pedestrian Subway

Site Clearance and Hoarding and Utility diversion

(1/6/2015 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	60%	0	110
Air Compressor	CNP 002	1	102	50%	0	99
Hand held breaker	CNP 024	1	108	50%	0	105
Lorry with crane/grab	CNP 145	1	105	60%	0	103
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>112</b>

Demolish Existing Box Structure of OB2A Pedestrian Subway

(1/8/2015 - 30/9/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	100%	0	112
Hydraulic breaker	CNP 028	1	122	80%	0	121
Saw, Concrete	CNP 203	1	115	50%	0	112
Air compressor	CNP 002	1	102	70%	0	100
Lorry with crane/grab	CNP 145	1	105	100%	0	105
Welder/generator	CNP 107	1	99	40%	0	95
<b>Overall Noise Level, dB(A)</b>						<b>122</b>

OB2A Pedestrian Subway Reinstatement

(1/11/2016 - 31/1/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator	CNP 081	1	112	50%	0	109
Concrete lorry mixer	CNP 044	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	2	113	70%	0	114
Air Compressor	CNP 002	1	102	70%	0	100
Concrete lorry mixer	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

Oi Sen Path Works

Pedestrian Diversion Works

(1/10/2014 - 31/7/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Mini Piling Rig	BS D11/2	1	112	70%	0	110
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
Mobile Crane	CNP 048	1	112	50%	0	109
Bar Bender and Cutter	CNP 021	1	90	30%	0	85
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
Concrete Pump Truck	CNP 047	1	109	30%	0	104
Poker, Vibratory, Hand-held	CNP 170	2	113	30%	0	111
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

Relocate CLP cable

(1/8/2015 - 30/11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Drill Rig	CNP 072	1	110	50%	0	107
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
Hydraulic Rock splitter	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

Soil Nailing

(1/8/2015 - 31/12/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Soil Nailing machine	CNP 064	1	103	50%	0	100
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
<b>Overall Noise Level, dB(A)</b>						<b>105</b>

Retaining wall

(1/1/2016 - 30/6/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	1	112	70%	0	110
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Backhoe with hydraulic breaker	CNP 028	1	122	60%	0	120
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

Slope Cut

(1/7/2016 - 31/10/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	1	112	70%	0	110
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Backhoe with hydraulic breaker	CNP 028	1	122	60%	0	120
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

Reinstate Oi Sen Path

(1/8/2017 - 31/12/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Hydraulic Excavator	CNP 081	1	112	60%	0	110
Dump truck	CNP 067	1	117	60%	0	115
Asphalt paver	CNP 004	1	109	50%	0	106
Road roller	CNP 185	1	108	50%	0	105
Concrete Mixer Truck	CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>						<b>117</b>



Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

**Temporary Cofferdam**

Between OB2 and OB2A

**Temporary Retaining Wall**

(1/9/2015 - 30/11/2015)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Pipe Pile Rigs	BS D11/2	1	112	70%	0	110
Grout mixer	CNP 105	1	90	50%	0	87
Grout pump	CNP 106	1	105	40%	0	101
Air compressor	CNP 002	1	102	70%	0	100
Drill Rig	CNP 072	1	110	50%	0	107
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>118</b>

North of OB2A

**Sheet Piled Wall**

(1/9/2016 - 31/1/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler crane	CNP 048	1	112	50%	0	109
Vibratory Hammer	BS D4/53	1	118	70%	0	116
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

At Temporary OB2A

**Sheet Piled Wall**

(1/8/2017 - 31/10/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crawler crane	CNP 048	1	112	50%	0	109
Vibratory Hammer	BS D4/53	1	118	70%	0	116
Backhoe with hydraulic breaker	CNP 028	1	122	30%	0	117
<b>Overall Noise Level, dB(A)</b>						<b>120</b>

**Excavation**

Between OB2 and OB2A

**Excavation & Shoring**

(1/12/2015 - 29/2/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

North of OB2A

**Excavation & Shoring (existing culvert)**

(1/12/2016 - 30/4/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

At Temporary OB2A

**Excavation & Shoring (existing culvert)**

(1/11/2017 - 31/12/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Dump Truck	CNP 067	1	117	30%	0	112
<b>Overall Noise Level, dB(A)</b>						<b>114</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - North Approach Tunnel & Related Works

Scenario: Unmitigated ▼

Area C6

**Structure Works**

Between OB2 and OB2A

**Concrete Structures**

(1/3/2016 - 30/6/2016)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Crawler crane	CNP 048	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	1	109	50%	0	106
Concrete Pump Truck	CNP 047	2	109	50%	0	109
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

North of OB2A

**Concrete Structures**

(1/3/2017 - 31/7/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	1	109	50%	0	106
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

At Temporary OB2A

**Concrete Structures**

(1/1/2018 - 31/3/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	30%	0	107
Bar Bender and Cutter	CNP 021	2	90	30%	0	88
Concrete Mixer Truck	CNP 044	2	109	50%	0	109
Concrete Pump Truck	CNP 047	1	109	50%	0	106
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>116</b>

**Backfilling**

OB2 to Temporary OB2A

**Backfill**

(1/4/2018 - 31/5/2018)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	1	112	70%	0	110
Crawler crane	CNP 048	1	112	30%	0	107
Roller	CNP 186	1	108	30%	0	103
Dump Truck	CNP 067	2	117	30%	0	115
<b>Overall Noise Level, dB(A)</b>						<b>117</b>

## Plant Inventory for Construction Noise Assessment - Homantin Siding

Scenario:

Unmitigated ▼

## Homantin Siding

## Loco Siding @HKPolyU Building

## Removal of Existing Tracks

(1/9/2012 - 31/10/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	70%	0	110
Backhoe with Hydraulic Breaker		CNP 028	1	122	30%	0	117
Lorry		CNP 141	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>							<b>118</b>

## Decking Across Culvert

(1/9/2012 - 31/12/2012)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Piling Rig		BS D11/2	1	112	30%	0	107
Air Compressor		CNP 002	1	102	50%	0	99
Lorry with crane/grab		CNP 145	1	105	60%	0	103
Poker, Vibratory, Hand-held		CNP 170	1	113	30%	0	108
Concrete lorry mixer		CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>							<b>112</b>

## Office / Store construction

(1/9/2012 - 31/5/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	30%	0	107
Lorry with crane/grab		CNP 145	2	105	30%	0	103
Bar Bender and Cutter		CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held		CNP 170	2	113	30%	0	111
Air Compressor		CNP 002	2	102	70%	0	103
Concrete lorry mixer		CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

## EVA construction

(1/3/2013 - 31/5/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Excavator		CNP 081	1	112	30%	0	107
Lorry with crane/grab		CNP 145	2	105	30%	0	103
Bar Bender and Cutter		CNP 021	1	90	30%	0	85
Poker, Vibratory, Hand-held		CNP 170	2	113	30%	0	111
Air Compressor		CNP 002	2	102	70%	0	103
Concrete lorry mixer		CNP 044	1	109	30%	0	104
<b>Overall Noise Level, dB(A)</b>							<b>114</b>

## Track Laying to HKPolyU

(1/3/2013 - 30/4/2013)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Crane		CNP 048	1	112	70%	0	110
Backhoe with Hydraulic Breaker		CNP 028	1	122	30%	0	117
Lorry		CNP 141	1	112	30%	0	107
<b>Overall Noise Level, dB(A)</b>							<b>118</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - New EVA

Scenario:

Unmitigated ▼

New EVA

New EVA

Complete EVA between Hung Hom Station and Winslow Street

(1/2/2017 - 31/5/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	2	112	70%	0	113
Dump Truck	CNP 067	2	117	30%	0	115
Crawler crane	CNP 048	1	112	30%	0	107
Roller	CNP 186	1	108	40%	0	104
Air Compressor	CNP 002	1	102	70%	0	100
Crane Lorry	CNP 048	1	112	70%	0	110.4509804
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

Construct EVA Under HUH Podium

(1/1/2017 - 30/4/2017)

PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On-time %	Barrier Correction	Sub-total SWL
Backhoe	CNP 081	2	112	50%	0	112
Dump Truck	CNP 067	2	117	30%	0	115
Crane Lorry	CNP 048	1	112	50%	0	109
Roller	CNP 186	1	108	30%	0	103
Air Compressor	CNP 002	1	102	50%	0	99
Concrete Lorry Mixer	CNP 044	2	109	30%	0	107
Poker, Vibratory, Hand-held	CNP 170	2	113	50%	0	113
<b>Overall Noise Level, dB(A)</b>						<b>119</b>

Appendix 6.2A Construction Plant Inventory for SCL (MKK - HUH) during non-restricted hours (Unmitigated Scenario)

Plant Inventory for Construction Noise Assessment - Hung Hom Freight Pier Barging Point

Scenario: Unmitigated ▼

Hung Hom Freight Pier

**Barging Activities**

At the Freight Pier

**Loading Activities**

(1/6/2012 - 31/12/2018)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Barges		CNP 061	1	104	30%	0	99
Truck		CNP 141	18	112	30%	0	119
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

At Tip of the Freight Pier

**Loading Activities**

(1/6/2012 - 31/8/2014)

	PME	TM Ref./ other Ref	No. of Items	SWL/ Item dB(A)	On- time %	Barrier Correction	Sub-total SWL
Barges		CNP 061	1	104	30%	0	99
Truck		CNP 141	18	112	30%	0	119
<b>Overall Noise Level, dB(A)</b>							<b>119</b>

**Trucks Travelling**

Travelling to Barging Points by Haul Roads

**Trucks Travelling to the Freight Pier by haul road (segment 1) <sup>[a]</sup>**

(1/6/2012 - 31/12/2018)

	PME	L <sub>WA</sub> / Item dB(A)	No. of Veh, Q (to the freight pier) (veh/30mins) <sup>[b]</sup>	Speed, V (km/hr)	Angle of View (in degrees)	Leq (30mins)
Truck		112	35	10	57	79
<b>Predicted Noise Level due to Haul Traffic, dB(A)</b>						<b>79</b>

**Trucks Travelling to the Freight Pier by haul road (segment 2) <sup>[a]</sup>**

(1/6/2012 - 31/12/2018)

	PME	L <sub>WA</sub> / Item dB(A)	No. of Veh, Q (to the freight pier) (veh/30mins) <sup>[b]</sup>	Speed, V (km/hr)	Angle of View (in degrees)	Leq (30mins)
Truck		112	35	10	60	80
<b>Predicted Noise Level due to Haul Traffic, dB(A)</b>						<b>80</b>

**Trucks Travelling away from the Freight Pier by haul road <sup>[a]</sup>**

(1/6/2012 - 31/12/2018)

	PME	L <sub>WA</sub> / Item dB(A)	No. of Veh, Q (away from the freight pier) (veh/30mins) <sup>[b]</sup>	Speed, V (km/hr)	Angle of View (in degrees)	Leq (30mins)
Truck		112	35	10	180	84
<b>Predicted Noise Level due to Haul Traffic, dB(A)</b>						<b>84</b>

Trucks at Buffer Zone During Peak Periods

**Trucks Travelling at Buffer Zone <sup>[a]</sup>**

(1/6/2012 - 31/12/2018)

	PME	L <sub>WA</sub> / Item dB(A)	No. of Veh, Q (away from the freight pier) (veh/30mins) <sup>[c]</sup>	Speed, V (km/hr)	Angle of View (in degrees)	Leq (30mins)
Truck		112	20	5	39	78
<b>Overall Noise Level, dB(A)</b>						<b>78</b>

Notes:

[a] Calculation of total SWL for Haul Road is based on BS 5228: Part 1: 2009 (Equation F.6)

[b] In the period from Jun 2012 to Aug 2014, two berths will be used for barging activities, estimated no. of dump trucks using the haul road are 834 vehicles per day. Assume working hours are 7am to 7pm only (total 12 hours), thus No. of items per half an hour = 834/ 24 = 35. After Aug 2014, only one berth at Freight Pier will be used, for worst case scenario, 35 vehicles per half an hour using the haul road is assumed in the assessment.

[c] Maximum No. of Trucks allowed at Buffer zone is 20.