

Project : Yau Tong Bay Development - Package 2 EIA Study
 Job No. : 21293
 Subject : Construction Noise Calculation - Unmitigated
 Date : 06/11/2000

NSR : RYTE1, Yau Tong Estate Redevelopment Phase I

Code	PME	SWL, dB(A)	Qty	% on	Dist, m	Corrections, dB(A)					SPL, dB(A)
						Qty	Dist	% on	Barrier	Facade	
FOUNDATION WORK											
066	Dumper	106	2	70	180	3	-53	-2	0	3	57
047	Concrete pump, stationary/lorry mounted	109	2	70	180	3	-53	-2	0	3	60
002	Air compressor, air flow > 10m3/min and < 30m3/min	102	2	70	180	3	-53	-2	0	3	53
170	Poker, vibratory, hand-held	113	4	70	180	6	-53	-2	0	3	67
048	Crane, mobile/berge mounted (diesel)	112	2	70	180	3	-53	-2	0	3	63
081	Excavator/loader, wheeled/tracked	112	3	70	180	5	-53	-2	0	3	65
165	Piling, large diameter bored, oscillator	115	6	70	180	8	-53	-2	0	3	71
141	Lorry	112	2	70	180	3	-53	-2	0	3	63

Total SPL at NSR, dB(A) : 74
 Criterion, dB(A) : 75
 Exceedence, dB(A) : 0

SUPERSTRUCTURE CONSTRUCTION											
002	Air compressor, air flow > 10m3/min and < 30m3/min	102	6	70	180	8	-53	-2	0	3	58
047	Concrete pump, stationary/lorry mounted	109	4	70	180	6	-53	-2	0	3	63
049	Crane, tower (electric)	95	6	70	180	8	-53	-2	0	3	51
141	Lorry	112	2	70	180	3	-53	-2	0	3	63
170	Poker, vibratory, hand-held	113	4	70	180	6	-53	-2	0	3	67
122	Hoist, passenger/material (electric)	95	4	70	180	6	-53	-2	0	3	49
102	Generator, silenced, 75dB(A) at 7m	100	4	70	180	6	-53	-2	0	3	54
050	compactor, vibratory	105	4	70	180	6	-53	-2	0	3	59
081	Excavator/loader, wheeled/tracked	112	4	70	180	6	-53	-2	0	3	66
021	Bar bender and cutter (electric)	90	6	70	180	8	-53	-2	0	3	46
030	Bulldozer	115	2	70	180	3	-53	-2	0	3	66
201	Saw, circular, wood	108	2	70	180	3	-53	-2	0	3	59
044	Concrete lorry mixer	109	2	70	180	3	-53	-2	0	3	60

Total SPL at NSR, dB(A) : 74
 Criterion, dB(A) : 75
 Exceedence, dB(A) : 0

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NSR : REHC2, Eastern Harbour Crossing Phase II

Code	PME	SWL, dB(A)	Qty	% on	Dist, m	Corrections, dB(A)					SPL, dB(A)
						Qty	Dist	% on	Barrier	Facade	
FOUNDATION WORK											
066	Dumper	106	2	70	156	3	-52	-2	0	3	59
047	Concrete pump, stationary/lorry mounted	109	2	70	156	3	-52	-2	0	3	62
002	Air compressor, air flow > 10m ³ /min and < 30m ³ /min	102	2	70	156	3	-52	-2	0	3	55
170	Poker, vibratory, hand-held	113	4	70	156	6	-52	-2	0	3	69
048	Crane, mobile/barge mounted (diesel)	112	2	70	156	3	-52	-2	0	3	65
081	Excavator/loader, wheeled/tracked	112	3	70	156	5	-52	-2	0	3	66
165	Piling, large diameter bored, oscillator	115	6	70	156	8	-52	-2	0	3	72
141	Lorry	112	2	70	156	3	-52	-2	0	3	65

Total SPL at NSR, dB(A) : **76**

Criterion, dB(A) : **75**

Exceedence, dB(A) : **1**

SUPERSTRUCTURE CONSTRUCTION											
002	Air compressor, air flow > 10m ³ /min and < 30m ³ /min	102	6	70	156	8	-52	-2	0	3	59
047	Concrete pump, stationary/lorry mounted	109	4	70	156	6	-52	-2	0	3	65
049	Crane, tower (electric)	95	6	70	156	8	-52	-2	0	3	52
141	Lorry	112	2	70	156	3	-52	-2	0	3	65
170	Poker, vibratory, hand-held	113	4	70	156	6	-52	-2	0	3	69
122	Hoist, passenger/material (electric)	95	4	70	156	6	-52	-2	0	3	51
102	Generator, silenced, 75dB(A) at 7m	100	4	70	156	6	-52	-2	0	3	56
050	compactor, vibratory	105	4	70	156	6	-52	-2	0	3	61
081	Excavator/loader, wheeled/tracked	112	4	70	156	6	-52	-2	0	3	68
021	Bar bender and cutter (electric)	90	6	70	156	8	-52	-2	0	3	47
030	Bulldozer	115	2	70	156	3	-52	-2	0	3	68
201	Saw, circular, wood	108	2	70	156	3	-52	-2	0	3	61
044	Concrete lorry mixer	109	2	70	156	3	-52	-2	0	3	62

Total SPL at NSR, dB(A) : **75**

Criterion, dB(A) : **75**

Exceedence, dB(A) : **0**

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NSR : REHC3, Eastern Harbour Crossing Phase III

Code	PME	SWL, dB(A)	Qty	% on	Dist, m	Corrections, dB(A)					SPL, dB(A)
						Qty	Dist	% on	Barrier	Facade	
FOUNDATION WORK											
066	Dumper	106	2	70	115	3	-49	-2	0	3	61
047	Concrete pump, stationary/lorry mounted	109	2	70	115	3	-49	-2	0	3	64
002	Air compressor, air flow > 10m ³ /min and < 30m ³ /min	102	2	70	115	3	-49	-2	0	3	57
170	Poker, vibratory, hand-held	113	4	70	115	6	-49	-2	0	3	71
048	Crane, mobile/berge mounted (diesel)	112	2	70	115	3	-49	-2	0	3	67
081	Excavator/loader, wheeled/tracked	112	3	70	115	5	-49	-2	0	3	69
165	Piling, large diameter bored, oscillator	115	6	70	115	8	-49	-2	0	3	75
141	Lorry	112	2	70	115	3	-49	-2	0	3	67

Total SPL at NSR, dB(A) : **78**

Criterion, dB(A) : **75**

Exceedence, dB(A) : **3**

SUPERSTRUCTURE CONSTRUCTION											
002	Air compressor, air flow > 10m ³ /min and < 30m ³ /min	102	6	70	115	8	-49	-2	0	3	62
047	Concrete pump, stationary/lorry mounted	109	4	70	115	6	-49	-2	0	3	67
049	Crane, tower (electric)	95	6	70	115	8	-49	-2	0	3	55
141	Lorry	112	2	70	115	3	-49	-2	0	3	67
170	Poker, vibratory, hand-held	113	4	70	115	6	-49	-2	0	3	71
122	Hoist, passenger/material (electric)	95	4	70	115	6	-49	-2	0	3	53
102	Generator, silenced, 75dB(A) at 7m	100	4	70	115	6	-49	-2	0	3	58
050	compactor, vibratory	105	4	70	115	6	-49	-2	0	3	63
081	Excavator/loader, wheeled/tracked	112	4	70	115	6	-49	-2	0	3	70
021	Bar bender and cutter (electric)	90	6	70	115	8	-49	-2	0	3	50
030	Bulldozer	115	2	70	115	3	-49	-2	0	3	70
201	Saw, circular, wood	108	2	70	115	3	-49	-2	0	3	63
044	Concrete lorry mixer	109	2	70	115	3	-49	-2	0	3	64

Total SPL at NSR, dB(A) : **77**

Criterion, dB(A) : **75**

Exceedence, dB(A) : **2**

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NSR : RSCH3, Schools operating from 9/2004

Code	PME	SWL, dB(A)	Qty	% on	Dist, m	Corrections, dB(A)					SPL, dB(A)
						Qty	Dist	% on	Barrier	Facade	
FOUNDATION WORK											
066	Dumper	106	2	70	76	3	-46	-2	-5	3	60
047	Concrete pump, stationary/lorry mounted	109	2	70	76	3	-46	-2	-5	3	63
002	Air compressor, air flow > 10m3/min and < 30m3/min	102	2	70	76	3	-46	-2	-5	3	56
170	Poker, vibratory, hand-held	113	4	70	76	6	-46	-2	-5	3	70
048	Crane, mobile/barge mounted (diesel)	112	2	70	76	3	-46	-2	-5	3	66
081	Excavator/loader, wheeled/tracked	112	3	70	76	5	-46	-2	-5	3	68
165	Piling, large diameter bored, oscillator	115	6	70	76	8	-46	-2	-5	3	74
141	Lorry	112	2	70	76	3	-46	-2	-5	3	66

Total SPL at NSR, dB(A) : 77

Criterion, dB(A) : 70

Exceedence, dB(A) : 7

SUPERSTRUCTURE CONSTRUCTION											
002	Air compressor, air flow > 10m3/min and < 30m3/min	102	6	70	76	8	-46	-2	-5	3	61
047	Concrete pump, stationary/lorry mounted	109	4	70	76	6	-46	-2	-5	3	66
049	Crane, tower (electric)	95	6	70	76	8	-46	-2	-5	3	54
141	Lorry	112	2	70	76	3	-46	-2	-5	3	66
170	Poker, vibratory, hand-held	113	4	70	76	6	-46	-2	-5	3	70
122	Hoist, passenger/material (electric)	95	4	70	76	6	-46	-2	-5	3	52
102	Generator, silenced, 75dB(A) at 7m	100	4	70	76	6	-46	-2	-5	3	57
050	compactor, vibratory	105	4	70	76	6	-46	-2	-5	3	62
081	Excavator/loader, wheeled/tracked	112	4	70	76	6	-46	-2	-5	3	69
021	Bar bender and cutter (electric)	90	6	70	76	8	-46	-2	-5	3	49
030	Bulldozer	115	2	70	76	3	-46	-2	-5	3	69
201	Saw, circular, wood	108	2	70	76	3	-46	-2	-5	3	62
044	Concrete lorry mixer	109	2	70	76	3	-46	-2	-5	3	63

Total SPL at NSR, dB(A) : 76

Criterion, dB(A) : 70

Exceedence, dB(A) : 6