Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Mitigated Scenario
Subtitle : TKW Station + Adit + Underpinning + Launching Shaft

Activities	2011												2012												2013											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1																																				
Mobilization & Site Setup																		107	109	110																
Box Culvertt Diversions - North East End of Site																											106	107	107	107	107	107	107	107	107	107
Grouting/Dewatering - Around Perimetrer of Site																					105	105	105													
Grouting/Dewatering - Around Perimetrer of Site																					108	108	108				108	108	108							
Grouting/Dewatering - Around Perimetrer of Site																					99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Grouting/Dewatering - Around Perimetrer of Site																																				
ELS - South West End of site									109	109	109	109																								
Open Excavation - South West End of Site																									112	112	112	112	112	112						
Open Excavation - North East End of Site																																				
Structure - South West End of Site																															105	105	105	105	105	105
Station Fit Out																																				
Worksite S2																																				
Adit B Phase 1									108	108	108	108	108																							
Worksite S3																																				
Adit B - Phase 2																										108	108	108	108							
Worksite S4																																				
Adit B - Phase 3																														108	108	108	108	108	108	108
Worksite S5																																				
Adit B - Phase 4																																		108	108	108
Adit B - Reinstatement of Roundabout																																				
Worksite S6																																				
Adit B - Phase 5																																				
Worksite S7																																				
Adit B - Phase 6																																				
Worksite S8																																				
Adit C - Phase 1									107	107	107	107	107	107	107	107	107	107	107	107																
Adit C - Reinstatement of Roads & Landscaping																																				
Worksite S9																																				
Adit C - Phase 2																																	107	107	107	107
Adit C - Reinstatement of Roads & Landscaping																																				
Worksite S10																																				
Adit C - Phase 3																																				
Adit C - Reinstatement of Roads & Landscaping																																				
Worksite S11																																				
Adit C - Phase 4																																				
Adit C - Reinstatement of Roads & Landscaping																																				
Worksite S13																																				
TBM Tunnel Plant at TKW																																				
TBM Tunnel Plant at TKW																																				
TBM Tunnel Plant at TKW																																				
Worksite S14																																				
Site Clearance and Erection of hoarding																		103	103																	
Sheeting and Lateral Support System									107	107	107	107	107	107	107	107	107	107																		
Bulk excavation of soft soil and dewatering																																				
Construct Tunnel																																				
Backfill and compaction																																				
Worksite S15																																				
Site Clearance and Erection of hoarding																												103	103							
Sheeting and Lateral Support System																															107	107				
Bulk excavation of soft soil and dewatering																																				
Canopy Pipe Pile Construction																																				
Construct Tunnel																																				
Backfill and compaction																																				
Worksite S16																																				
Site Clearance and Erection of hoarding																																	103	103		
Bulk excavation of soft soil and dewatering																																				
Construct Tunnel																																				
Backfill and compaction																																				
Worksite S18																																				
Bored Piling - phase 1																							107	107	107											
Worksite S19																																				
Bored Piling - phase 2																										112	112	112	110	110						

Activities	2014												2015											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1																								
Mobilization & Site Setup																								
Box Culvertt Diversions - North East End of Site	107	107																						
Grouting/Dewatering - Around Perimetrer of Site	105	105																						
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99							
Grouting/Dewatering - Around Perimetrer of Site																		93	93	93	93	93	93	93
ELS - South West End of site																								
Open Excavation - South West End of Site																								
Open Excavation - North East End of Site			112	112	112	112	112	112	112	112	111													
Structure - South West End of Site	105	105	107	107								107	107	107	107	107	104	104	104	104	104	104	104	104
Station Fit Out													104	106	106	106	106	106	106	106	106	106	106	106
Worksite S2																								
Adit B Phase 1																								
Worksite S3																								
Adit B - Phase 2																								
Worksite S4																								
Adit B - Phase 3																								
Worksite S5																								
Adit B - Phase 4	108	108	108	108	108	108	108	108																
Adit B - Reinstatement of Roundabout																					108	108	108	108
Worksite S6																								
Adit B - Phase 5								108	108	108	108													
Worksite S7																								
Adit B - Phase 6												108	108	108	108	108	108	108	108	108				
Worksite S8																								
Adit C - Phase 1																								
Adit C - Reinstatement of Roads & Landscaping											108	108	108	108	108									
Worksite S9																								
Adit C - Phase 2																								
Adit C - Reinstatement of Roads & Landscaping											108	108	108	108	108									
Worksite S10																								
Adit C - Phase 3	107	107	107	107																				
Adit C - Reinstatement of Roads & Landscaping											108	108	108	108	108									
Worksite S11																								
Adit C - Phase 4					107	107	107	107	107	107														
Adit C - Reinstatement of Roads & Landscaping											108	108	108	108	108									
Worksite S13																								
TBM Tunnel Plant at TKW		89													89									
TBM Tunnel Plant at TKW		100	100	100																				
TBM Tunnel Plant at TKW					104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Worksite S14																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction	107	107	107	107	107	107	107																	
Worksite S15																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Canopy Pipe Pile Construction																								
Construct Tunnel																								
Backfill and compaction													107	107	107									
Worksite S16																								
Site Clearance and Erection of hoarding																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction																107	107	107	107					
Worksite S18																								
Bored Piling - phase 1																								
Worksite S19																								
Bored Piling - phase 2																								

Note: Excavation, Bulk excavation of soft soil and dewatering, Insallation of Structs and Waling, Canopy Pipe Pile Construction and tunnel construction at worksites s14, s15 and s16 are under cut and cover tunnel part, construction noise impacts are not anticipated.

Summary of SWLs																																																								
Worksite S1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	109	110	112	112	112	109	112	113	115	115	115	114	109	109	109	109	109	111	111	111	113	113	112	112	112	112	112	112	111	108	109	110	110	110	109	108	108	108	108	108	108	108
Worksite S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	108	108	108	108	108	108	0	0	0	0	0	0	0	0	0	0	108	108	108	108
Worksite S6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	108	108	108	108	0	0	0	0	0
Worksite S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	107	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	0	0	0	0	0	0	0	0	0
Worksite S9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	108	108	108	108	108	0	0	0	0	0	0	0	0	0
Worksite S10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	107	107	0	0	0	0	0	0	108	108	108	108	108	0	0	0	0	0	0	0	0	0
Worksite S11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	107	107	107	108	108	108	108	108	0	0	0	0	0	0	0	0	0
Worksite S13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	101	100	100	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
Worksite S14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	107	107	107	107	107	107	107	107	107	107	107	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	0	0	0	0	0	0	0
Worksite S16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	103	103	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	0	0	0	0	0
Worksite S18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	107	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	112	112	112	110	110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Predicted Construction Noise, dB(A)	Max																																																											
MTW-6-1	69	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	56	56	64	64	65	64	65	65	66	66	65	65	63	63	63	63	63	63	63	64	64	64	64	64	64	64	64	69	69	69	69	69	57	56	56	56	56	56	56	56	56
MTW-6-2	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	56	57	63	63	64	63	64	63	64	64	64	63	62	62	62	62	62	62	62	62	62	62	62	62	62	62	67	66	66	66	66	66	58	57	57	57	57	57	57	57	57
TKW-1-1	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	57	57	69	69	69	69	69	69	69	69	69	69	68	72	72	72	72	74	74	74	74	74	76	76	76	76	76	76	80	80	80	80	80	58	57	57	57	57	57	57	57
TKW-1-2	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	55	56	65	65	66	65	66	66	66	66	65	64	66	66	66	66	66	67	67	67	67	67	71	71	71	71	71	71	75	75	75	75	75	57	56	56	56	56	56	56	56
TKW-2-2	76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	56	57	66	66	66	66	66	67	67	67	66	65	67	67	67	67	67	68	68	68	68	68	72	72	72	72	72	72	76	76	76	76	76	57	57	56	56	56	56	56	56
TKW-2-1	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	55	56	64	64	65	64	65	64	65	65	65	64	63	64	64	64	64	65	65	66	66	66	69	69	69	69	69	69	73	73	73	73	73	57	56	56	56	56	56	56	56
TKW-3-2	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	56	57	61	61	62	60	62	63	64	64	64	64	61	61	61	66	66	65	65	65	66	66	65	65	65	65	80	80	80	80	75	75	75	75	75	75	75	75	75	64	64	64
TKW-3-1	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	55	57	58	62	62	63	61	63	64	65	65	65	65	61	61	61	64	64	63	63	63	64	64	64	64	64	67	65	65	65	65	66	66	66	66	66	65	65	65	62	62	62	62
TKW-2-3	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	54	56	57	62	62	63	62	63	63	64	64	64	63	60	60	60	60	60	61	61	61	62	62	62	62	62	62	62	62	66	66	66	66	66	58	57	57	57	57	57	57	57
TKW-4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKW-5-1	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	53	53	53	53	0	0	0

Project : SCL - Tai Wai to Hung Hom Section

Title : Construction Noise Calculation
Scenario : Mitigated Scenario
Subtitle : TKW Station + Adit + Underpinning + Launching Shaft

Activities	2016												2017											
	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	March	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Worksite S1																								
Mobilization & Site Setup																								
Box Culvertt Diversions - North East End of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site																								
Grouting/Dewatering - Around Perimetrer of Site	93	93	93	93	93	93	93	93																
ELS - South West End of site																								
Open Excavation - South West End of Site																								
Open Excavation - North East End of Site																								
Structure - South West End of Site	104																							
Station Fit Out	106	106	106	105	105	105	105	105	104	104	104	104	104	104	104	104	104	104						
Worksite S2																								
Adit B Phase 1																								
Worksite S3																								
Adit B - Phase 2																								
Worksite S4																								
Adit B - Phase 3																								
Worksite S5																								
Adit B - Phase 4																								
Adit B - Reinstatement of Roundabout																								
Worksite S6																								
Adit B - Phase 5																								
Worksite S7																								
Adit B - Phase 6																								
Worksite S8																								
Adit C - Phase 1																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S9																								
Adit C - Phase 2																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S10																								
Adit C - Phase 3																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S11																								
Adit C - Phase 4																								
Adit C - Reinstatement of Roads & Landscaping																								
Worksite S13																								
TBM Tunnel Plant at TKW																								
TBM Tunnel Plant at TKW																								
TBM Tunnel Plant at TKW	104	104	104																					
Worksite S14																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S15																								
Site Clearance and Erection of hoarding																								
Sheeting and Lateral Support System																								
Bulk excavation of soft soil and dewatering																								
Canopy Pipe Pile Construction																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S16																								
Site Clearance and Erection of hoarding																								
Bulk excavation of soft soil and dewatering																								
Construct Tunnel																								
Backfill and compaction																								
Worksite S18																								
Bored Piling - phase 1																								
Worksite S19																								
Bored Piling - phase 2																								

Note: Excavation, Bulk excavation of soft soil and dewatering, Insallation of Structs and Waling, Canopy Pipe

Summary of SWLs																								
Worksite S1	108	106	106	106	106	106	106	106	104	104	104	104	104	104	104	104	104	104	0	0	0	0	0	0
Worksite S2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S13	104	104	104	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Predicted Construction Noise, dB(A)	Max																								
MTW-6-1	69	56	55	55	52	52	52	52	52	50	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0
MTW-6-2	67	57	55	55	53	53	53	53	53	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0
TKW-1-1	80	57	56	56	53	53	53	53	53	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0
TKW-1-2	75	56	54	54	52	52	52	52	52	50	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0
TKW-2-2	76	56	55	55	52	52	52	52	52	50	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0
TKW-2-1	73	56	54	54	52	52	52	52	52	49	49	49	49	49	49	49	49	49	49	0	0	0	0	0	0
TKW-3-2	80	56	55	55	52	52	52	52	52	50	50	50	50	50	50	50	50	50	50	0	0	0	0	0	0
TKW-3-1	67	58	56	56	54	54	54	54	54	52	52	52	52	52	52	52	52	52	52	0	0	0	0	0	0
TKW-2-3	66	57	55	55	53	53	53	53	53	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0
TKW-4-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TKW-5-1	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0