Project : SCL - Stabling Sidings at Hung Hom Freight Yard

Title : Construction Noise Calculation
Scenario : Mitigated Scenario
Subtitle: DIH + Retrieval Shafts

Activities	2012												2013												2014												2015												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	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	Jan	Feb	March	Apr	May	June
Worksite S1																																																																				
Site Clearance							105	105	105																																																											
Hoardings							103	103	103																																																											
Utility Diversions							104	104	104																																																											
MTR Site Office							103	103																																																												
Landscape & Finish																																													98	98	98	98	98	98																	
Entrance (A2) - Construct bulk head wall								93	93	93																																																									
Entrance (A2) - Construct temp. access opening								93	93	93	93																																																								
Entrance (A2) - Construct staircase								93	93	93																																																									
Crosswall (15m) 1st Stage									98	98																																																									
Partial demolish Entrance (A2)											108	108	108	108																																																					
S Dwall (9m)														98	98																																																				
N Dwall (21m)															98	98																																																			
S Dwall (27m), W End D Wall (15m)															101	101																																																			
Partial TBM W Grout Block (By 1103)																102	102																																																		
Crosswall (55m) 2nd Stage																101	101	101																																																		
Crosswall (60m) 3rd Stage																		101	101	101																																																
Entrance (A2) - Install ELS																		101	101	101	101																																																
Entrance (A2) - Install Pipe Pile Walls																		101	101	101																																																
Install ELS near Adit D1																		101	101	101																																																
Temp. site formation for Dwall construction (1)																		105	105																																																
N Dwall (21m), W End Dwall (15m)																			101	101	101	101	101																																													
Crosswall (42m) 4th Stage																				101	101	101																																														
Entrance (A2) - Demolish Subaway																					108	108																																														
Entrance (A2) - Install ELS & Structs																						101	101																																													
Temp. Site formation for Dwall construction (2)																						105	105																																													
Crosswall (36m) 5th Stage																						98	98	98	98																																												
Install ELS & Structs (West end)																							101	101	101																																												
Install pipe pile walls (West end)																							101	101	101																																												
Temp. Site formation for Dwall construction (3)																							105	105																																												
Install ELS near Adit D1																								101	101	101																																											
Excavation (West end to +6m)																									102	102	102																																										
Entrance (A2) - Construct Bulk Head Wall																											93	93																																								
Entrance (A2) - Construct partial floor slab & staircase																											93	93	93	93																																						
Excavate to -20.8																														102	102	102	102	102																																
Entrance (A2) - Install ELS																														101	101																																				
Entrance (A2) - Demolish Subway & Install Structs																															109	109																																		
Entrance (A2) - Excavation																																102	102																																
Entrance (A2) - Structures																																		93	93																														
Remaining TBM W Grout Block (By 1103)																																		102	102																												
DIH - Base Slab																																		93	93	93	93																										
DIH - Conc. Slab (with hole)																																					93	93	93	93																						
DIH - Mezz. Slab																																							93	93	93	93																			
DIH - columns																																								93	93																			
DIH - 24hr Access Slab (with hole)																																									93	93	93																
DIH - Roof Slabs (with hole)																																												93	93	93														
DIH - Slabs (completion)																																															93	93	93												
Internal Structures - Platform level (1)																																																	93	93	93										
Internal Structures - Mezz. Level																																																	93	93	93	93	93						
Internal Structures - Conc. Level																																																	93	93	93	93	93						
Internal Structures - 24hr Access Level																																																	93	93	93	93	93						
DIH - Ground Level Structures																																																	100	100	100	100	100						
Internal Structures - Platform Level (2)																																																	93	93	93	93	93						
DIH Tx Rms - Structures																																																					104	104						
Worksite S2																																																																		
Site Clearance							105	105	105																																																									
Hoardings							103	103	103																																																									
Utility Diversions							104	104	104																																																									
MTR Site Office							103	103																																																										
Landscape & Finish																																													98	98	98	98	98	98															
S Dwall (57m)									101	101	101																																																						
N Dwall (39m)																101	101																																																	
Excavate to -5.2																								107																																										
Excavate to -20.8																										105	105																																							
DIH - Base Slab																																		93	93	93	93																										
DIH - Mezz. Slab																																					93	93	93																									
DIH - Columns																																					93	93	93	93	93	93																			
DIH - Conc. Slab																																							93	93	93	93																			
Internal Structures - Platform Level																																							93	93	93	93	93	93																	
DIH - 24hr Access Slab																																										93	93	93																
Internal Structures - Mezz. Level																																										93	93	93	93	93														
DIH - Roof Slab																																												93	93	93														
Internal Structures - Conc. Level																																												93	93	93	93	93	93											
Internal Structures - 24hr Access Level																																													93	93	93	93	93	93											

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	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	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
Worksite S3																																																																			
Site Clearance							105	105	105																																																										
Hoardings							103	103	103																																																										
Utility Diversions							104	104	104																																																										
MTR Site Office							103	103																																																											
Landscape & Finish																																													98	98	98	98	98	98																
S DWall (33m)											98																																																							
N DWall (35m)											98	98																																																						
N Dwall (36m)															101	101																																																			
S Dwall (26m)																98	98																																																	
Excavate to -1.2																					105	105																																												
Excavate to -11.4																								105	105																																										
Excavate to -20.8																											105	105																																							
DIH - Base Slab																												93	93	93	93																																				
DIH - Mezz. Slab																															93	93	93																																	
DIH - Columns																															93	93	93	93	93	93																													
DIH - Conc. Slab																																	93	93	93																															
Internal Structures - Platform Level																																	93	93	93	93	93	93																											
DIH - Roof Slab																																			93	93	93	93																										
Internal Structures - Mezz. Level																																			93	93	93	93	93	93																								
Internal Structures - Conc. Level																																						93	93	93	93	93																							
Worksite S4																																																																			
Site Clearance							105	105	105																																																									
Hoardings							103	103	103																																																									
Utility Diversions							104	104	104																																																									
MTR Site Office							103	103																																																										
Landscape & Finish																																													98	98	98	98	98	98																
N DWall (47m)												101	101	101																																																				
S Dwall (35m)																	101	101	101																																																
Tree Transplanting (CAT D) - DT1885																		106	106																																															
Excavate to -1.2																			105	105																																														
Excavate to -11.4																						102	102																																												
Excavate to -20.8																									102	102																																									
DIH - Base Slab																										93	93	93																																						
DIH - Mezz. Slab																												93	93	93	93																																		
DIH - Columns																												93	93	93	93	93	93																															
DIH - Conc. Slab																															93	93	93																															
Internal Structures - Platform Level																															93	93	93	93	93																												
DIH - Roof Slab																																	93	93	93																												
Internal Structures - Mezz. Level																																	93	93	93	93	93	93																								
Internal Structures - Conc. Level																																				93	93	93	93	93																						
Worksite S5																																																																			
Site Clearance							105	105	105																																																									
Hoardings							103	103	103																																																									
Utility Diversions							104	104	104																																																									
MTR Site Office							103	103																																																										
Landscape & Finish																																													98	98	98	98	98	98																
S DWall (30m)														101	101																																																				
E End DWall (30m)																101	101	101																																																
N DWall (54m)																	103	103																																																
TBM E Grout Block (By 1107)																		102	102																																															
S DWall (36m)																		101	101																																															
Excavate to -1.2																			105	105																																														
Excavate to -11.4																				105	105																																													
Excavate to -20.8																							105	105																																										
DIH - Base Slab																									93	93	93																																						
DIH - Conc.. Slab (with hole)																											93	93	93																																			
DIH - Columns																														93	93																																
DIH - Roof Slab (with hole)																															93	93	93																													
DIH - Mezz. Slab																																					93	93	93	93																				
DIH - Slabs (completion)																																					93	93	93	93																				
Internal Structures - Platform Level (1)																																								93	93	93																			
Internal Structures - Mezz. Level																																								93	93	93	93	93															
Internal Structures - Conc. Level																																								93	93	93	93	93															
DIH - Ground Level Structures																																								104	104	104	104	104															
Internal Structures - Platform Level (2)																																								93	93	93	93	93															

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	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	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
Worksite S6																																																																			
Watermain Diversion (LCR)							104	104	104																																																										
Gas Main Diversion (LCR)							104	104	104																																																										
LCR Diversion Embankment Fill															108	108	108																																																		
LCR E/B Widening																					108	108	108																																												
LCR E/B Diversion Traffic																								108																																											
LCR E/B Reinstatement																																	108	108																																	
LCR E/B to Original Traffic																																		108																																
Worksite S7																																																																			
Watermain Diversion (LCR)							104	104	104																																																									
Gas Main Diversion (LCR)							104	104	104																																																									
LCR Diversion Embankment Fill															108	108	108																																																	
LCR W/B Diversion Construction																108	108	108																																																
LCR W/B Deck Consturction																108	108	108																																																
LCR W/B Diverstion Traffic																		108																																																
LCR W/B Reinstatement																																				108	108																															
LCR W/B to Original Traffic																																					108																														
Worksite S8																																																																			
Interchange Adit - Construct Barettes							105	105	105																																																										
Interchange Adit - ELS (Part 1)												101	101	101																																																					
Interchange Adit - Excavation (Part 1)														102	102	102																																																			
Interchange Adit - Structure (Part 1)																93	93	93																																																
Adit D1 - ELS																		101	101																																																
Interchange Adit - ELS (Part 2)																		101	101	101																																														
Adit D1 - Excavation																			102	102	102	102																																													
Adit D1 -Structures																						93	93																																												
Adit D1 - Backfill																							104	104																																											
Interchange Adit - Excavation (Part 2)																							102	102	102																																									
Adit D1 - ELS (Part 2)																								101	101																																									
Adit D1 - Excavation (Part 2)																									102	102	102																																							
Interchange Adit -Structure (Part 2)																									93	93	93																																							
Interchange Adit - Backfill (Part 2)																											104																																							
Adit D1 -Structures (Part 2)																											93	93	93																																					
Interchange Adit - ELS (Part 3)																											101	101	101																																					
Interchange Adit - Excavation (Part 3)																													102	102	102																																		
Interchange Adit - Structure (Part 3)																															93	93	93																															
MOE (near B1) - ELS																																																	101	101																
MOE (near B1) - Excavation																																																		102	102															
MOE (near B1) - Structures																																																				93	93	93												
Construction of Retrieval shaft at DIH Interchange/Adit																											86			86						86											86																	
Worksite S9																																																																		
Mobilization						95	95																																																											
A1 Lift - Site Clearance, Hoarding Erection																																							103																											
A1 Lift - Pre drilling works																																								99	99																									
A1 Lift - Construct rpe-bored H piles (6 no.)																																									99	99	99																					
A1 Lift - Grouting works																																											99																				
A1 Lift - Sheet pilling works																																												101	101																		
A1 Lift - Excavation & ELS																																														103															
A1 Lift - Wall strengthening works																																															102														
A1 Lift - Construct Lift shaft, wall & slab																																																102	102	102												
Worksite S10																																																																	
Mobilization									103																																																								
Site Clearance										105	105																																																					
Worksite S11																																																																	
Mobilization									103																																																							
Site Clearance										105	105																																																				
Worksite S12																																																																	
Utilities Diversion																																																																
Worksite S13																																																																
A1 Lift - TTMs																																							101																										

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	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
Summary of SWLs																																				
Worksite S1	0	0	0	0	0	0	110	110	110	101	108	108	108	109	104	107	105	110	110	109	110	112	111	109	108	105	103	96	93	105	110	111	105	106	103	93
Worksite S2	0	0	0	0	0	0	110	110	110	101	101	0	0	0	0	101	101	0	0	0	0	0	0	107	0	105	105	0	0	0	0	0	0	93	93	93
Worksite S3	0	0	0	0	0	0	110	110	109	0	101	98	0	0	101	103	98	0	0	0	105	105	0	105	105	0	105	106	93	93	98	96	99	98	100	98
Worksite S4	0	0	0	0	0	0	110	110	109	0	0	101	101	101	0	0	101	107	109	105	0	102	102	0	102	103	93	98	96	96	99	98	100	98	98	96
Worksite S5	0	0	0	0	0	0	110	110	109	0	0	0	0	101	101	101	105	108	108	108	105	0	105	105	93	93	96	93	93	93	96	93	93	0	0	0
Worksite S6	0	0	0	0	0	0	107	107	107	0	0	0	0	0	108	108	108	0	0	0	108	108	108	108	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S7	0	0	0	0	0	0	107	107	107	0	0	0	0	0	108	113	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	108
Worksite S8	0	0	0	0	0	0	105	105	105	0	0	101	101	105	102	103	93	105	107	105	102	103	107	108	107	103	108	102	105	103	103	93	93	0	0	86
Worksite S9	0	0	0	0	0	95	95	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 S10	0	0	0	0	0	0	0	0	103	105	105	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 S11	0	0	0	0	0	0	0	0	103	105	105	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 S12	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
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

Activities	2015												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	Jan	Feb	March	Apr	May	June
Summary of SWLs																														
Worksite S1	96	93	96	98	98	96	93	93	93	99	98	99	99	105	104	103	102	102	104	104	0	0	0	0	0	0	0	0	0	0
Worksite S2	98	96	99	98	98	100	98	100	98	102	100	100	100	99	99	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S3	98	99	96	96	93	93	93	0	0	101	101	101	101	101	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S4	96	96	93	93	0	0	0	0	0	98	98	98	98	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S5	0	96	96	96	105	105	105	105	105	98	98	98	98	98	98	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	0	0	0	0	0	0
Worksite S7	111	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 S8	0	0	0	0	0	0	0	0	0	86	0	101	105	102	93	93	93	0	0	0	0	0	0	0	0	0	0	0	0	0
Worksite S9	0	0	0	103	99	102	99	102	101	101	103	102	102	102	102	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	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
Worksite S12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	104	104	104	104	104	104	0	0	0	0	0	0
Worksite S13	0	0	101	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																																			
DIH-9-1	63	0	0	0	0	0	41	62	63	62	55	58	57	57	58	59	62	62	63	60	58	60	61	61	61	58	57	58	50	52	55	59	59	57	59	52
DIH-10-1	62	0	0	0	0	0	41	62	62	62	55	58	57	57	58	59	62	62	62	59	58	60	61	61	61	58	57	57	49	52	55	59	59	57	59	51
DIH-11-1	74	0	0	0	0	0	63	74	73	73	62	66	66	66	68	71	74	74	74	69	68	71	71	71	72	69	66	68	63	64	65	68	68	68	70	61
DIH-12-1	68	0	0	0	0	0	46	68	68	68	57	60	59	59	61	64	67	66	67	64	63	64	65	65	66	62	60	63	58	58	58	61	59	62	64	55
DIH-12-2	68	0	0	0	0	0	51	68	68	67	56	61	60	60	61	64	67	67	67	64	63	65	65	65	66	63	61	63	58	58	58	62	61	62	64	55
DIH-13-1	61	0	0	0	0	0	0	58	58	58	47	55	55	55	55	56	60	59	61	56	56	57	58	57	56	55	51	50	42	39	52	57	57	52	52	49
DIH-14-1	61	0	0	0	0	0	61	61	61	54	54	47	47	47	51	55	59	60	61	59	58	53	49	55	53	49	50	45	46	44	44	44	47	46	47	44
DIH-14-3	50	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
DIH-14-4	64	0	0	0	0	0	64	64	64	57	58	53	52	55	59	62	62	63	62	60	59	58	60	60	57	54	57	55	53	51	53	49	56	58	50	56
DIH-14-5	64	0	0	0	0	0	64	64	64	57	57	52	51	55	59	62	62	63	61	60	59	57	59	60	56	53	56	54	52	51	52	49	55	57	48	56
DIH-15-1	51	0	0	0	0	0	0	0	0	49	51	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DIH-15-2A	50	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

Predicted Construction Noise, dB(A)	2015												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	Jan	Feb	March	Apr	May	June
DIH-9-1	59	45	48	53	50	51	49	51	50	53	53	52	54	56	56	52	51	51	52	52	0	0	0	0	0	0	0	0	0	0
DIH-10-1	58	45	48	51	50	51	48	51	49	52	52	52	53	56	55	51	51	51	52	52	0	0	0	0	0	0	0	0	0	0
DIH-11-1	71	56	57	72	67	70	67	70	69	69	71	70	70	71	71	61	60	60	60	60	0	0	0	0	0	0	0	0	0	0
DIH-12-1	60	62	53	52	57	56	57	56	57	56	57	57	59	61	59	53	51	51	51	51	0	0	0	0	0	0	0	0	0	0
DIH-12-2	63	52	53	61	57	59	57	59	58	59	60	60	60	62	61	55	53	53	54	54	0	0	0	0	0	0	0	0	0	0
DIH-13-1	57	39	42	44	44	42	39	39	39	46	45	46	46	51	51	49	49	49	50	50	0	0	0	0	0	0	0	0	0	0
DIH-14-1	57	46	45	45	53	53	53	52	52	48	48	48	48	48	48	0	0	0	0	56	56	56	56	56	56	0	0	0	0	0
DIH-14-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	0	0	0	0	0
DIH-14-4	59	50	48	48	55	55	55	54	54	53	53	53	54	55	53	46	39	39	0	59	59	59	59	59	59	0	0	0	0	0
DIH-14-5	58	49	48	48	55	55	55	54	54	52	52	52	53	54	53	45	39	39	0	59	59	59	59	59	59	0	0	0	0	0
DIH-15-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	51	51	51	51	51	51	0	0	0	0	0
DIH-15-2A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	50	50	50	50	50	50	0	0	0	0	0