Unmitigated Construction Noise for TCE

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station East Side Retaining Wall Foundation Construction																																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E1)	113					113	113	113	113	113	113	113	113	113	113	113																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E2)	113					113	113	113	113	113	113	113	113	113	113	113																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E3)	110					110	110	110	110	110	110	110	110	110	110	110																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E4)	113					113	113	113	113	113	113	113	113	113	113	113																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E5)	110					110	110	110	110	110	110	110	110	110	110	110																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E6)	110					110	110	110	110	110	110	110	110	110	110	110																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E7)	110					110	110	110	110	110	110	110	110	110	110	110																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E8)	113					113	113	113	113	113	113	113	113	113	113	113																	
TCE Station East Side Retaining Wall Foundation Construction (Zone E9)	113					113	113	113	113	113	113	113	113	113	113	113																	
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures																																	
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E1)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E2)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E3)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E4)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E5)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E6)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E7)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E8)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Retaining Wall Construction and Noise Mitigation Measures (Zone E9)	115									115	115	115	115	115	115	115	115	115	115	115	115	115	115	115									
TCE Station East Side Site Clearance / Site Formation																																	
TCE Station East Side Site Clearance / Site Formation (Zone E1)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station East Side Site Clearance / Site Formation (Zone E2)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station East Side Site Clearance / Site Formation (Zone E3)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station East Side Site Clearance / Site Formation (Zone E4)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station East Side Site Clearance / Site Formation (Zone E5)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station East Side Site Clearance / Site Formation (Zone E6)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station East Side Site Clearance / Site Formation (Zone E7)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station East Side Site Clearance / Site Formation (Zone E8)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station East Side Site Clearance / Site Formation (Zone E9)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station East Side Site Formation for U/T Diversion																																	
TCE Station East Side Site Formation for U/T Diversion (Zone E2)	109																																
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TCE Station East Side Site Formation for U/T Diversion (Zone E4)	110						110	110	110	110	110	110																					
TCE Station East Side Site Reinstatement																																	
TCE Station East Side Site Reinstatement (Zone E1)	117																																
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TCE Station East Side Utilities, Road and Drainage Reinstatement																																	
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TCE Station East Side Utilities, Road and Drainage Reinstatement (Zone E9)	119																						119	119	119	119	119						
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TCE Station East Side Removal of abandoned U/T																																	
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TCE Station East Side Stationary Plants																																	

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Title : Construction Noise Calculation
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		2026												2027												2028											
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TCE Station East Side Retaining Wall Foundation Construction																																					
TCE Station East Side Retaining Wall Foundation Construction (Zone E1)	113																																				
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TCE Station East Side Site Formation for U/T Diversion (Zone E2)	109																												109	109	109	109	109	109	109	109	109
TCE Station East Side Site Formation for U/T Diversion (Zone E3)	109																												109	109	109	109	109	109	109	109	109
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		2029												2030											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station East Side Retaining Wall Foundation Construction																									
TCE Station East Side Retaining Wall Foundation Construction (Zone E1)	113																								
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TCE Station East Side Retaining Wall Foundation Construction (Zone E6)	110																								
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TCE Station East Side Site Formation for U/T Diversion (Zone E4)	110																								
TCE Station East Side Site Reinstatement																									
TCE Station East Side Site Reinstatement (Zone E1)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Site Reinstatement (Zone E2)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Site Reinstatement (Zone E3)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Site Reinstatement (Zone E4)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Site Reinstatement (Zone E5)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Utilities, Road and Drainage Reinstatement																									
TCE Station East Side Utilities, Road and Drainage Reinstatement (Zone E6)	119																								
TCE Station East Side Utilities, Road and Drainage Reinstatement (Zone E7)	119																								
TCE Station East Side Utilities, Road and Drainage Reinstatement (Zone E8)	119																								
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TCE Station East Side Removal of abandoned D/T (Zone E2)	103										103	103	103	103											
TCE Station East Side Removal of abandoned D/T (Zone E3)	103										103	103	103	103											
TCE Station East Side Removal of abandoned D/T (Zone E4)	103										103	103	103	103											
TCE Station East Side Removal of abandoned D/T (Zone E5)	103										103	103	103	103											
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TCE Station East Side Removal of abandoned U/T (Zone E1)	103																	103	103	103	103	103	103		
TCE Station East Side Removal of abandoned U/T (Zone E2)	103																	103	103	103	103	103	103		
TCE Station East Side Removal of abandoned U/T (Zone E3)	103																	103	103	103	103	103	103		
TCE Station East Side Removal of abandoned U/T (Zone E4)	103																	103	103	103	103	103	103		
TCE Station East Side Removal of abandoned U/T (Zone E5)	103																	103	103	103	103	103	103		
TCE Station East Side Stationary Plants																									

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		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station East Side Stationary Plants (S1)	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117					
TCE Station East Side Stationary Plants (S2)	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115					
TCE Station West Side Stationary Plants																																	
TCE Station West Side Stationary Plants (S1)	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
TCE Station West Side Stationary Plants (S2)	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
Construction of Retaining Wall 240m Section and noise mitigation measures																																	
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W1)	109											109	109	109	109	109																	
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W2)	109											109	109	109	109	109																	
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W3)	109											109	109	109	109	109																	
Retaining Wall Mini piles 80m opposite Ying Tung Estate																																	
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W1)	110					110	110	110	110	110	110	110																					
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W2)	110					110	110	110	110	110	110	110																					
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W3)	113					113	113	113	113	113	113	113																					
Retaining Wall 240m Section and noise mitigation measures																																	
Retaining Wall 240m Section and noise mitigation measures (Zone W4)	113									113	113	113	113	113	113	113	113	113															
Retaining Wall 240m Section and noise mitigation measures (Zone W5)	113									113	113	113	113	113	113	113	113	113															
Retaining Wall 240m Section and noise mitigation measures (Zone W6)	113									113	113	113	113	113	113	113	113	113															
Retaining Wall 240m Section and noise mitigation measures (Zone W7)	113									113	113	113	113	113	113	113	113	113															
Retaining Wall 240m Section and noise mitigation measures (Zone W8)	113									113	113	113	113	113	113	113	113	113															
Retaining Wall Foundation 240m Section																																	
Retaining Wall Foundation 240m Section (Zone W4)	113					113	113	113	113	113	113	113	113	113																			
Retaining Wall Foundation 240m Section (Zone W5)	110					110	110	110	110	110	110	110	110	110																			
Retaining Wall Foundation 240m Section (Zone W6)	110					110	110	110	110	110	110	110	110	110																			
Retaining Wall Foundation 240m Section (Zone W7)	110					110	110	110	110	110	110	110	110	110																			
Retaining Wall Foundation 240m Section (Zone W8)	110					110	110	110	110	110	110	110	110	110																			
TCE Station West Side Site Clearance / Site Formation																																	
TCE Station West Side Site Clearance / Site Formation (Zone W1)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station West Side Site Clearance / Site Formation (Zone W2)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station West Side Site Clearance / Site Formation (Zone W3)	118	118	118	118	118	118	118	118	118	118	118	118	118	118																			
TCE Station West Side Site Clearance / Site Formation (Zone W4)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station West Side Site Clearance / Site Formation (Zone W5)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station West Side Site Clearance / Site Formation (Zone W6)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station West Side Site Clearance / Site Formation (Zone W7)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station West Side Site Clearance / Site Formation (Zone W8)	120	120	120	120	120	120	120	120	120	120	120	120	120	120																			
TCE Station West Side Utilities, Road and Drainage Reinstatement																																	
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W1)	117																						117	117	117	117	117						
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W2)	117																						117	117	117	117	117						
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W3)	117																						117	117	117	117	117						
TCE Station West Side Removal and Reprovison of Existing Noise Barrier																																	
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W1)	114																		114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W2)	114																		114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W3)	114																		114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
TCE Station West Side Site reinstatement																																	
TCE Station West Side Site reinstatement (Zone W1)	116																																
TCE Station West Side Site reinstatement (Zone W2)	117																																
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TCE Station East Side Stationary Plants (S2)	115																												115	115	115	115	115	115	115	115	115
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Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W2)	110																																				
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W3)	113																																				
Retaining Wall 240m Section and noise mitigation measures																																					
Retaining Wall 240m Section and noise mitigation measures (Zone W4)	113																																				
Retaining Wall 240m Section and noise mitigation measures (Zone W5)	113																																				
Retaining Wall 240m Section and noise mitigation measures (Zone W6)	113																																				
Retaining Wall 240m Section and noise mitigation measures (Zone W7)	113																																				
Retaining Wall 240m Section and noise mitigation measures (Zone W8)	113																																				
Retaining Wall Foundation 240m Section																																					
Retaining Wall Foundation 240m Section (Zone W4)	113																																				
Retaining Wall Foundation 240m Section (Zone W5)	110																																				
Retaining Wall Foundation 240m Section (Zone W6)	110																																				
Retaining Wall Foundation 240m Section (Zone W7)	110																																				
Retaining Wall Foundation 240m Section (Zone W8)	110																																				
TCE Station West Side Site Clearance / Site Formation																																					
TCE Station West Side Site Clearance / Site Formation (Zone W1)	118																																				
TCE Station West Side Site Clearance / Site Formation (Zone W2)	118																																				
TCE Station West Side Site Clearance / Site Formation (Zone W3)	118																																				
TCE Station West Side Site Clearance / Site Formation (Zone W4)	120																																				
TCE Station West Side Site Clearance / Site Formation (Zone W5)	120																																				
TCE Station West Side Site Clearance / Site Formation (Zone W6)	120																																				
TCE Station West Side Site Clearance / Site Formation (Zone W7)	120																																				
TCE Station West Side Site Clearance / Site Formation (Zone W8)	120																																				
TCE Station West Side Utilities, Road and Drainage Reinstatement																																					
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W1)	117																																				
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W2)	117																																				
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W3)	117																																				
TCE Station West Side Removal and Reprovison of Existing Noise Barrier																																					
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W1)	114	114	114	114	114																																
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W2)	114	114	114	114	114																																
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W3)	114	114	114	114	114																																
TCE Station West Side Site reinstatement																																					
TCE Station West Side Site reinstatement (Zone W1)	116																																				
TCE Station West Side Site reinstatement (Zone W2)	117																																				
TCE Station West Side Site reinstatement (Zone W3)	117																																				
TCE Station West Side Site reinstatement (Zone W4)	117																																				
TCE Station West Side Site reinstatement (Zone W5)	117																																				
TCE Station West Side Site reinstatement (Zone W6)	117																																				
TCE Station West Side Site reinstatement (Zone W7)	117																																				
TCE Station West Side Site reinstatement (Zone W8)	117																																				

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2029												2030											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station East Side Stationary Plants (S1)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station East Side Stationary Plants (S2)	115										115	115	115	115	115	115	115	115	115	115	115	115	115	115	
TCE Station West Side Stationary Plants																									
TCE Station West Side Stationary Plants (S1)	113										113	113	113	113	113	113	113	113	113	113	113	113	113	113	
TCE Station West Side Stationary Plants (S2)	115										115	115	115	115	115	115	115	115	115	115	115	115	115	115	
Construction of Retaining Wall 240m Section and noise mitigation measures																									
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W1)	109																								
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W2)	109																								
Construction of Retaining Wall 240m Section and noise mitigation measures (Zone W3)	109																								
Retaining Wall Mini piles 80m opposite Ying Tung Estate																									
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W1)	110																								
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W2)	110																								
Retaining Wall Mini piles 80m opposite Ying Tung Estate (Zone W3)	113																								
Retaining Wall 240m Section and noise mitigation measures																									
Retaining Wall 240m Section and noise mitigation measures (Zone W4)	113																								
Retaining Wall 240m Section and noise mitigation measures (Zone W5)	113																								
Retaining Wall 240m Section and noise mitigation measures (Zone W6)	113																								
Retaining Wall 240m Section and noise mitigation measures (Zone W7)	113																								
Retaining Wall 240m Section and noise mitigation measures (Zone W8)	113																								
Retaining Wall Foundation 240m Section																									
Retaining Wall Foundation 240m Section (Zone W4)	113																								
Retaining Wall Foundation 240m Section (Zone W5)	110																								
Retaining Wall Foundation 240m Section (Zone W6)	110																								
Retaining Wall Foundation 240m Section (Zone W7)	110																								
Retaining Wall Foundation 240m Section (Zone W8)	110																								
TCE Station West Side Site Clearance / Site Formation																									
TCE Station West Side Site Clearance / Site Formation (Zone W1)	118																								
TCE Station West Side Site Clearance / Site Formation (Zone W2)	118																								
TCE Station West Side Site Clearance / Site Formation (Zone W3)	118																								
TCE Station West Side Site Clearance / Site Formation (Zone W4)	120																								
TCE Station West Side Site Clearance / Site Formation (Zone W5)	120																								
TCE Station West Side Site Clearance / Site Formation (Zone W6)	120																								
TCE Station West Side Site Clearance / Site Formation (Zone W7)	120																								
TCE Station West Side Site Clearance / Site Formation (Zone W8)	120																								
TCE Station West Side Utilities, Road and Drainage Reinstatement																									
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W1)	117																								
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W2)	117																								
TCE Station West Side Utilities, Road and Drainage Reinstatement (Zone W3)	117																								
TCE Station West Side Removal and Reprovison of Existing Noise Barrier																									
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W1)	114																								
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W2)	114																								
TCE Station West Side Removal and Reprovison of Existing Noise Barrier (Zone W3)	114																								
TCE Station West Side Site reinstatement																									
TCE Station West Side Site reinstatement (Zone W1)	116										116	116	116	116	116	116	116	116	116	116	116	116	116	116	
TCE Station West Side Site reinstatement (Zone W2)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W3)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W4)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W5)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W6)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W7)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	
TCE Station West Side Site reinstatement (Zone W8)	117										117	117	117	117	117	117	117	117	117	117	117	117	117	117	

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station West Side Removal of abandoned D/T																																	
TCE Station West Side Removal of abandoned D/T (Zone W1)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W2)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W3)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W4)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W5)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W6)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W7)	103																																
TCE Station West Side Removal of abandoned D/T (Zone W8)	103																																
TCE Station West Side Removal of abandoned U/T																																	
TCE Station West Side Removal of abandoned U/T (Zone W1)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W2)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W3)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W4)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W5)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W6)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W7)	103																																
TCE Station West Side Removal of abandoned U/T (Zone W8)	103																																
TCE Station Area Stationary Plants																																	
TCE Station Area Stationary Plants (S1)	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
TCE Station Area Stationary Plants (S2)	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108
TCE Station Structure - Foundation																																	
TCE Station Structure - Foundation (Zone A)	121					121	121	121	121	121	121	121	121	121	121	121	121																
TCE Station Structure - Foundation (Zone B)	121					121	121	121	121	121	121	121	121	121	121	121	121																
TCE Station Structure - Foundation (Zone C)	121					121	121	121	121	121	121	121	121	121	121	121	121	121	121														
TCE Station Site Clearance/Site Formation																																	
TCE Station Site Clearance/Site Formation (Zone A)	121	121	121	121	121																												
TCE Station Site Clearance/Site Formation (Zone B)	121	121	121	121	121																												
TCE Station Site Clearance/Site Formation (Zone C)	121	121	121	121	121																												
TCE Station Link Bridge Foundation																																	
TCE Station Link Bridge Foundation (Zone C)	122																	122	122	122	122	122	122	122	122	122	122	122	122	122	122		
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances																																	
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone A)	118																118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone B)	115																		115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone C)	118																		118	118	118	118	118	118	118	118	118	118	118	118	118	118	118
TCE Station Site Reinstatement																																	
TCE Station Site Reinstatement (Zone A)	123																																
TCE Station Site Reinstatement (Zone B)	123																																
TCE Station Site Reinstatement (Zone C)	123																																
TCE - Link Bridge Structure																																	
TCE - Link Bridge Structure (Zone C)	119																																
TCE Station Removal of abandoned D/T																																	
TCE Station Removal of abandoned D/T (Zone A)	103																																
TCE Station Removal of abandoned D/T (Zone B)	103																																
TCE Station Removal of abandoned D/T (Zone C)	103																																
TCE Station Removal of abandoned U/T																																	
TCE Station Removal of abandoned U/T (Zone A)	103																																
TCE Station Removal of abandoned U/T (Zone B)	103																																
TCE Station Removal of abandoned U/T (Zone C)	103																																

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station West Side Removal of abandoned D/T																																					
TCE Station West Side Removal of abandoned D/T (Zone W1)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W2)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W3)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W4)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W5)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W6)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W7)	103																																				
TCE Station West Side Removal of abandoned D/T (Zone W8)	103																																				
TCE Station West Side Removal of abandoned U/T																																					
TCE Station West Side Removal of abandoned U/T (Zone W1)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W2)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W3)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W4)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W5)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W6)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W7)	103																																				
TCE Station West Side Removal of abandoned U/T (Zone W8)	103																																				
TCE Station Area Stationary Plants																																					
TCE Station Area Stationary Plants (S1)	111	111	111										111	111	111	111	111	111	111	111	111	111	111	111	111	111											
TCE Station Area Stationary Plants (S2)	108	108	108										108	108	108	108	108	108	108	108	108	108	108	108	108	108											
TCE Station Structure - Foundation																																					
TCE Station Structure - Foundation (Zone A)	121																																				
TCE Station Structure - Foundation (Zone B)	121																																				
TCE Station Structure - Foundation (Zone C)	121																																				
TCE Station Site Clearance/Site Formation																																					
TCE Station Site Clearance/Site Formation (Zone A)	121																																				
TCE Station Site Clearance/Site Formation (Zone B)	121																																				
TCE Station Site Clearance/Site Formation (Zone C)	121																																				
TCE Station Link Bridge Foundation																																					
TCE Station Link Bridge Foundation (Zone C)	122																																				
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances																																					
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone A)	118																																				
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone B)	115	115	115																																		
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone C)	118	118	118																																		
TCE Station Site Reinstatement																																					
TCE Station Site Reinstatement (Zone A)	123																																				
TCE Station Site Reinstatement (Zone B)	123																																				
TCE Station Site Reinstatement (Zone C)	123																																				
TCE - Link Bridge Structure																																					
TCE - Link Bridge Structure (Zone C)	119												119	119	119	119	119	119	119	119	119	119	119	119	119												
TCE Station Removal of abandoned D/T																																					
TCE Station Removal of abandoned D/T (Zone A)	103																																				
TCE Station Removal of abandoned D/T (Zone B)	103																																				
TCE Station Removal of abandoned D/T (Zone C)	103																																				
TCE Station Removal of abandoned U/T																																					
TCE Station Removal of abandoned U/T (Zone A)	103																																				
TCE Station Removal of abandoned U/T (Zone B)	103																																				
TCE Station Removal of abandoned U/T (Zone C)	103																																				

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Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2029												2030											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCE Station West Side Removal of abandoned D/T																									
TCE Station West Side Removal of abandoned D/T (Zone W1)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W2)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W3)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W4)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W5)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W6)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W7)	103										103	103	103	103											
TCE Station West Side Removal of abandoned D/T (Zone W8)	103										103	103	103	103											
TCE Station West Side Removal of abandoned U/T																									
TCE Station West Side Removal of abandoned U/T (Zone W1)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W2)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W3)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W4)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W5)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W6)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W7)	103																		103	103	103	103	103	103	
TCE Station West Side Removal of abandoned U/T (Zone W8)	103																		103	103	103	103	103	103	
TCE Station Area Stationary Plants																									
TCE Station Area Stationary Plants (S1)	111										111	111	111	111	111	111	111	111	111	111	111	111	111	111	
TCE Station Area Stationary Plants (S2)	108										108	108	108	108	108	108	108	108	108	108	108	108	108	108	
TCE Station Structure - Foundation																									
TCE Station Structure - Foundation (Zone A)	121																								
TCE Station Structure - Foundation (Zone B)	121																								
TCE Station Structure - Foundation (Zone C)	121																								
TCE Station Site Clearance/Site Formation																									
TCE Station Site Clearance/Site Formation (Zone A)	121																								
TCE Station Site Clearance/Site Formation (Zone B)	121																								
TCE Station Site Clearance/Site Formation (Zone C)	121																								
TCE Station Link Bridge Foundation																									
TCE Station Link Bridge Foundation (Zone C)	122																								
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances																									
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone A)	118																								
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone B)	115																								
TCE Station Structure - Main Station Structure, Ancillary Buildings, Bridges, Entrances (Zone C)	118																								
TCE Station Site Reinstatement																									
TCE Station Site Reinstatement (Zone A)	123										123	123	123	123	123	123	123	123	123	123	123	123	123	123	
TCE Station Site Reinstatement (Zone B)	123										123	123	123	123	123	123	123	123	123	123	123	123	123	123	
TCE Station Site Reinstatement (Zone C)	123										123	123	123	123	123	123	123	123	123	123	123	123	123	123	
TCE - Link Bridge Structure																									
TCE - Link Bridge Structure (Zone C)	119																								
TCE Station Removal of abandoned D/T																									
TCE Station Removal of abandoned D/T (Zone A)	103										103	103	103	103											
TCE Station Removal of abandoned D/T (Zone B)	103										103	103	103	103											
TCE Station Removal of abandoned D/T (Zone C)	103										103	103	103	103											
TCE Station Removal of abandoned U/T																									
TCE Station Removal of abandoned U/T (Zone A)	103																		103	103	103	103	103	103	
TCE Station Removal of abandoned U/T (Zone B)	103																		103	103	103	103	103	103	
TCE Station Removal of abandoned U/T (Zone C)	103																		103	103	103	103	103	103	

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Predicted Construction Noise, dB(A)																																	
NSR	Max																																
YTT-02f	80	79	79	79	79	80	80	80	80	80	80	80	80	80	74	74	74	73	75	75	75	75	75	77	77	77	77	77	75	75	75	75	74
EHYC-01a	60	59	59	59	59	60	60	60	60	60	60	60	60	60	55	55	54	54	57	57	57	57	57	60	60	60	60	60	57	57	57	57	57
LCNP-01	77	76	76	76	76	76	76	76	76	77	77	77	77	77	74	74	74	72	73	72	72	72	72	72	70	70	70	70	70	70	70	70	67
A100-02j	77																				73	73	73	74	74	74	74	74	73	73	73	73	72
A116-01c	75																																
A133a-01b	76																																
A113-01e	80																																
A113-12e	79																																

Note:
1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the closest NSR.
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Predicted Construction Noise, dB(A)																																					
NSR	Max																																				
YTT-02f	80	74	74	74	74	0	0	0	0	0	0	0	62	62	62	62	62	62	62	62	62	62	62	62	62	62	0	0	0	0	0	0	0	0	0	0	0
EHYC-01a	60	57	57	57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LCNP-01	77	66	66	0	0	0	0	0	0	0	0	0	65	65	65	65	65	65	65	65	65	65	65	65	65	65	0	0	63	63	63	63	63	63	63	63	63
A100-02j	77	71	71	69	69	0	0	0	0	0	0	0	66	66	66	66	66	66	66	66	66	66	66	66	66	66	0	0	0	0	0	0	0	0	0	0	0
A116-01c	75																																				
A133a-01b	76																																				
A113-01e	80																								71	71	0	0	54	54	54	54	54	54	54	54	54
A113-12e	79																								70	70	0	0	61	61	61	61	61	61	61	61	61

Note:
1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the closest NSR.
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario for Tung Chung East

		2029												2030											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Predicted Construction Noise, dB(A)																									
NSR	Max																								
YTT-02f	80	0	0	0	0	0	0	0	0	0	78	78	78	78	78	78	78	78	78	78	78	78	78	78	
EHYC-01a	60	0	0	0	0	0	0	0	0	0	59	59	59	59	58	58	58	58	59	59	59	59	59	59	
LCNP-01	77	0	0	0	0	0	0	0	0	0	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
A100-02j	77	0	0	0	0	0	0	0	0	0	77	77	77	77	77	77	77	77	77	77	77	77	77	77	
A116-01c	75												75	75	75	75	75	75	75	75	75	75	75	75	
A133a-01b	76																		76	76	76	76	76	76	
A113-01e	80	0	0	0	0	0	0	0	0	0	80	80	80	80	80	80	80	80	80	80	80	80	80	80	
A113-12e	79	0	0	0	0	0	0	0	0	0	79	79	79	79	79	79	79	79	79	79	79	79	79	79	

Note:
1. As a worst case scenario, the predicted construction noise is calculated using the distance between the notional centre of the workfront to the closest NSR.
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Unmitigated Construction Noise for TCW

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Site Clearance at TCW																																	
TCW Site Clearance	115	115	115	115	115	115	115																										
Construction of Diaphragm Wall on Station East Side																																	
E- Zone A Construction of Diaphragm Wall	115							115	115											115	115	115	115										
E- Zone A Installation of Mini-piles	110									110	110												110	110									
E- Zone B Construction of Diaphragm Wall	115							115	115	115	115	115	115	115	115	115																	
E- Zone B Installation of Mini-piles	110																110	110	110														
E- Zone C Construction of Diaphragm Wall	115							115	115	115	115	115	115	115	115					115	115												
E- Zone C Installation of Mini-piles	110															110	110	110	110			110											
E- Zone D Construction of Diaphragm Wall	113							113	113	113	113	113	113	113	113	113					113												
E- Zone D Installation of Mini-piles	110																110	110	110	110		110											
E- Zone E Construction of Diaphragm Wall	113							113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113								
E- Zone E Installation of Mini-piles	110																									110	110	110					
Construction of Diaphragm Wall on Station West Side																																	
W- Zone A Construction of Diaphragm Wall	115																						115	115	115	115	115						
W- Zone A Installation of Mini-piles	110																							110	110	110	110	110	110	110	110		
W- Zone B Construction of Diaphragm Wall	115																			115	115	115	115	115	115	115	115						
W- Zone B Installation of Mini-piles	110																										110	110	110	110	110	110	110
W- Zone C Construction of Diaphragm Wall	115																					115	115	115	115	115	115	115	115	115	115		
W- Zone C Installation of Mini-piles	110																						110	110	110	110	110	110	110	110	110	110	110
W- Zone D Construction of Diaphragm Wall	115																					115	115	115	115	115	115	115	115				
W- Zone D Installation of Mini-piles	110																						110	110	110	110	110	110	110	110	110	110	110
W- Zone E Construction of Diaphragm Wall	115																											115	115	115	115	115	115
W- Zone E Installation of Mini-piles	110																												110	110	110		
Construction of Diaphragm Wall on Station East Side & West Side - Stationary Plants																																	
Dwall S1 Diaphragm Wall Construction - Supporting Stationary Plants	109							109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
Dwall S2 Diaphragm Wall Construction - Supporting Stationary Plants	111							111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111	111
Dwall S3 Diaphragm Wall Construction - Supporting Stationary Plants	109							109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
Dwall S4 Diaphragm Wall Construction - Supporting Stationary Plants	107							107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107
Dwall S5 Diaphragm Wall Construction - Supporting Stationary Plants	113							113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113
Dwall S6 Diaphragm Wall Construction - Supporting Stationary Plants	90							90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
Dwall S7 Mini-piles Installation (Zone A) - Supporting Stationary Plants	106									106	106												106	106	106	106	106	106	106	106	106		
Dwall S8 Mini-piles Installation (Zone B) - Supporting Stationary Plants	106															106	106	106	106								106	106	106	106	106	106	106
Dwall S9 Mini-piles Installation (Zone C) - Supporting Stationary Plants	106															106	106	106	106			106	106	106	106	106	106	106	106	106	106	106	106
Dwall S10 Mini-piles Installation (Zone D) - Supporting Stationary Plants	106																106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
Dwall S11 Mini-piles Installation (Zone E) - Supporting Stationary Plants	106																									106	106	106					
Works Area WA.W02 for D-wall Steel Cage Rebar Fixing Works																																	
WA.W02 -D-wall Steel Cage Rebar Fixing Works	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114	114
TCW Excavation																																	
Mucking out Opening A1 - Excavation Works	114																																
Excavation S1 - Stationary Plant for Excavation Zone A	98																																
Mucking out Opening B1 - Excavation Works	114																																
Mucking out Opening B2 - Excavation Works	113																																
Excavation S1 - Stationary Plant for Excavation Zone B	98																																
Mucking out Opening C1 - Excavation Works	113																																
Mucking out Opening C2 - Excavation Works	113																																
Excavation S2 - Stationary Plant for Excavation Zone C	98																																
Mucking out Opening D1 - Excavation Works	113																																
Mucking out Opening D2 - Excavation Works	113																																
Excavation S2 - Stationary Plant for Excavation Zone D	98																																
Mucking out Opening E1 - Excavation Works	114																																
Excavation S3 - Stationary Plant for Excavation Zone E	95																																

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Site Clearance at TCW																																					
TCW Site Clearance	115																																				
Construction of Diaphragm Wall on Station East Side																																					
E- Zone A Construction of Diaphragm Wall	115																																				
E- Zone A Installation of Mini-piles	110																																				
E- Zone B Construction of Diaphragm Wall	115																																				
E- Zone B Installation of Mini-piles	110																																				
E- Zone C Construction of Diaphragm Wall	115																																				
E- Zone C Installation of Mini-piles	110																																				
E- Zone D Construction of Diaphragm Wall	113																																				
E- Zone D Installation of Mini-piles	110																																				
E- Zone E Construction of Diaphragm Wall	113																																				
E- Zone E Installation of Mini-piles	110																																				
Construction of Diaphragm Wall on Station West Side																																					
W- Zone A Construction of Diaphragm Wall	115																																				
W- Zone A Installation of Mini-piles	110																																				
W- Zone B Construction of Diaphragm Wall	115																																				
W- Zone B Installation of Mini-piles	110	110	110																																		
W- Zone C Construction of Diaphragm Wall	115																																				
W- Zone C Installation of Mini-piles	110	110																																			
W- Zone D Construction of Diaphragm Wall	115																																				
W- Zone D Installation of Mini-piles	110	110	110																																		
W- Zone E Construction of Diaphragm Wall	115	115	115																																		
W- Zone E Installation of Mini-piles	110	110	110	110	110	110																															
Construction of Diaphragm Wall on Station East Side & West Side - Stationary Plants																																					
Dwall S1 Diaphragm Wall Construction - Supporting Stationary Plants	109	109	109																																		
Dwall S2 Diaphragm Wall Construction - Supporting Stationary Plants	111	111	111																																		
Dwall S3 Diaphragm Wall Construction - Supporting Stationary Plants	109	109	109																																		
Dwall S4 Diaphragm Wall Construction - Supporting Stationary Plants	107	107	107																																		
Dwall S5 Diaphragm Wall Construction - Supporting Stationary Plants	113	113	113																																		
Dwall S6 Diaphragm Wall Construction - Supporting Stationary Plants	90	90	90																																		
Dwall S7 Mini-piles Installation (Zone A) - Supporting Stationary Plants	106																																				
Dwall S8 Mini-piles Installation (Zone B) - Supporting Stationary Plants	106	106	106																																		
Dwall S9 Mini-piles Installation (Zone C) - Supporting Stationary Plants	106	106	106																																		
Dwall S10 Mini-piles Installation (Zone D) - Supporting Stationary Plants	106	106	106																																		
Dwall S11 Mini-piles Installation (Zone E) - Supporting Stationary Plants	106	106	106	106	106	106																															
Works Area WA.W02 for D-wall Steel Cage Rebar Fixing Works																																					
WA.W02 -D-wall Steel Cage Rebar Fixing Works	114	114	114	114																																	
TCW Excavation																																					
Mucking out Opening A1 - Excavation Works	114		114	114	114		114	114		114	114	114																									
Excavation S1 - Stationary Plant for Excavation Zone A	98		98	98	98		98	98		98	98	98																									
Mucking out Opening B1 - Excavation Works	114				114						114	114	114																								
Mucking out Opening B2 - Excavation Works	113				113						113	113	113																								
Excavation S1 - Stationary Plant for Excavation Zone B	98				98						98	98	98																								
Mucking out Opening C1 - Excavation Works	113						113			113			113	113	113	113																					
Mucking out Opening C2 - Excavation Works	113						113			113			113	113	113	113																					
Excavation S2 - Stationary Plant for Excavation Zone C	98						98			98			98	98	98	98																					
Mucking out Opening D1 - Excavation Works	113						113	113			113				113	113																					
Mucking out Opening D2 - Excavation Works	113						113	113			113				113	113																					
Excavation S2 - Stationary Plant for Excavation Zone D	98						98	98			98				98	98																					
Mucking out Opening E1 - Excavation Works	114					114	114						114																								
Excavation S3 - Stationary Plant for Excavation Zone E	95					95	95						95																								

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2029							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Site Clearance at TCW									
TCW Site Clearance	115								
Construction of Diaphragm Wall on Station East Side									
E- Zone A Construction of Diaphragm Wall	115								
E- Zone A Installation of Mini-piles	110								
E- Zone B Construction of Diaphragm Wall	115								
E- Zone B Installation of Mini-piles	110								
E- Zone C Construction of Diaphragm Wall	115								
E- Zone C Installation of Mini-piles	110								
E- Zone D Construction of Diaphragm Wall	113								
E- Zone D Installation of Mini-piles	110								
E- Zone E Construction of Diaphragm Wall	113								
E- Zone E Installation of Mini-piles	110								
Construction of Diaphragm Wall on Station West Side									
W- Zone A Construction of Diaphragm Wall	115								
W- Zone A Installation of Mini-piles	110								
W- Zone B Construction of Diaphragm Wall	115								
W- Zone B Installation of Mini-piles	110								
W- Zone C Construction of Diaphragm Wall	115								
W- Zone C Installation of Mini-piles	110								
W- Zone D Construction of Diaphragm Wall	115								
W- Zone D Installation of Mini-piles	110								
W- Zone E Construction of Diaphragm Wall	115								
W- Zone E Installation of Mini-piles	110								
Construction of Diaphragm Wall on Station East Side & West Side - Stationary Plants									
Dwall S1 Diaphragm Wall Construction - Supporting Stationary Plants	109								
Dwall S2 Diaphragm Wall Construction - Supporting Stationary Plants	111								
Dwall S3 Diaphragm Wall Construction - Supporting Stationary Plants	109								
Dwall S4 Diaphragm Wall Construction - Supporting Stationary Plants	107								
Dwall S5 Diaphragm Wall Construction - Supporting Stationary Plants	113								
Dwall S6 Diaphragm Wall Construction - Supporting Stationary Plants	90								
Dwall S7 Mini-piles Installation (Zone A) - Supporting Stationary Plants	106								
Dwall S8 Mini-piles Installation (Zone B) - Supporting Stationary Plants	106								
Dwall S9 Mini-piles Installation (Zone C) - Supporting Stationary Plants	106								
Dwall S10 Mini-piles Installation (Zone D) - Supporting Stationary Plants	106								
Dwall S11 Mini-piles Installation (Zone E) - Supporting Stationary Plants	106								
Works Area WA.W02 for D-wall Steel Cage Rebar Fixing Works									
WA.W02 -D-wall Steel Cage Rebar Fixing Works	114								
TCW Excavation									
Mucking out Opening A1 - Excavation Works	114								
Excavation S1 - Stationary Plant for Excavation Zone A	98								
Mucking out Opening B1 - Excavation Works	114								
Mucking out Opening B2 - Excavation Works	113								
Excavation S1 - Stationary Plant for Excavation Zone B	98								
Mucking out Opening C1 - Excavation Works	113								
Mucking out Opening C2 - Excavation Works	113								
Excavation S2 - Stationary Plant for Excavation Zone C	98								
Mucking out Opening D1 - Excavation Works	113								
Mucking out Opening D2 - Excavation Works	113								
Excavation S2 - Stationary Plant for Excavation Zone D	98								
Mucking out Opening E1 - Excavation Works	114								
Excavation S3 - Stationary Plant for Excavation Zone E	95								

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCW Structural Works																																	
Mucking out Opening A1 - Structural Works (Roof Slab)	118																													118	118	118	
Mucking out Opening A1 - Structural Works (other than Roof Slab)	114																																
Structural S1 - Stationary Plant for Structural Zone A	111																													111	111	111	
Mucking out Opening B1 - Structural Works (Roof Slab)	117																																117
Mucking out Opening B1 - Structural Works (Other Than Roof Slab)	114																																
Mucking out Opening B2 - Structural Works (Roof Slab)	117																																117
Mucking out Opening B2 - Structural Works (Other Than Roof Slab)	114																																
Structural S1 - Stationary Plant for Structural Zone B	111																																111
Mucking out Opening C1 - Structural Works (Roof Slab)	117																																
Mucking out Opening C1 - Structural Works (Other Than Roof Slab)	114																																
Mucking out Opening C2 - Structural Works (Roof Slab)	117																																
Mucking out Opening C2 - Structural Works (Other Than Roof Slab)	114																																
Structural S2 - Stationary Plant for Structural Zone C	111																																
Mucking out Opening D1 - Structural Works (Roof Slab)	117																																
Mucking out Opening D1 - Structural Works (Other Than Roof Slab)	114																																
Mucking out Opening D2 - Structural Works (Roof Slab)	117																																
Mucking out Opening D2 - Structural Works (Other Than Roof Slab)	114																																
Structural S2 - Stationary Plant for Structural Zone D	114																																
Mucking out Opening E1 - Structural Works (Roof Slab)	118																																
Mucking out Opening E1 - Structural Works (Other Than Roof Slab)	114																																
Structural S2 - Stationary Plant for Structural Zone E	111																																
TCW Vent Shaft Structure and Entrances - Foundation Works																																	
North Vent Shaft Structure - Foundation Works	114																																
Building S1 - Stationary Plant for North Vent Shaft Structure Foundation Works	109																																
Entrance A - Foundation Works	112																																
Building S2 - Stationary Plant for Entrance A Foundation Works	106																																
TCW Vent Shaft Structure and Entrances - Excavation Works																																	
North Vent Shaft Structure - Excavation Works	115																																
Building S1 - Stationary Plant for North Vent Shaft Structure Excavation Works	95																																
Entrance A - Excavation Works	115																																
Building S2 - Stationary Plant for Entrance A Excavation Works	95																																
TCW Vent Shaft Structure and Entrances - Structural Works																																	
South Vent Shaft Structure - Structural Works	116																																
Building S2 - Stationary Plant for South Vent Shaft Structure Structural Works	111																																
North Vent Shaft Structure - Structural Works	116																																
Building S1 - Stationary Plant for North Vent Shaft Structure Structural Works	112																																
Entrance A - Structural Works	116																																
Building S2 - Stationary Plant for Entrance A Structural Works	112																																
Entrance B - Structural Works	116																																
Building S1 - Stationary Plant for Entrance B Structural Works	111																																
Site Reinstatement																																	
TCW Site Reinstatement	122																																

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
TCW Structural Works																																					
Mucking out Opening A1 - Structural Works (Roof Slab)	118																																				
Mucking out Opening A1 - Structural Works (other than Roof Slab)	114					114			114				114	114	114	114	114	114	114																		
Structural S1 - Stationary Plant for Structural Zone A	111					111			111				111	111	111	111	111	111	111																		
Mucking out Opening B1 - Structural Works (Roof Slab)	117	117	117	117																																	
Mucking out Opening B1 - Structural Works (Other Than Roof Slab)	114					114	114	114	114	114				114	114	114	114	114	114	114																	
Mucking out Opening B2 - Structural Works (Roof Slab)	117	117	117	117																																	
Mucking out Opening B2 - Structural Works (Other Than Roof Slab)	114					114	114	114	114	114				114	114	114	114	114	114	114																	
Structural S1 - Stationary Plant for Structural Zone B	111	111	111	111		111	111	111	111	111				111	111	111	111	111	111	111																	
Mucking out Opening C1 - Structural Works (Roof Slab)	117		117	117	117	117																															
Mucking out Opening C1 - Structural Works (Other Than Roof Slab)	114							114	114		114	114					114	114	114	114	114	114	114	114													
Mucking out Opening C2 - Structural Works (Roof Slab)	117		117	117	117	117																															
Mucking out Opening C2 - Structural Works (Other Than Roof Slab)	114							114	114		114	114					114	114	114	114	114	114	114	114													
Structural S2 - Stationary Plant for Structural Zone C	111		111	111	111	111		111	111		111	111					111	111	111	111	111	111	111	111													
Mucking out Opening D1 - Structural Works (Roof Slab)	117		117	117	117	117																															
Mucking out Opening D1 - Structural Works (Other Than Roof Slab)	114								114	114		114	114	114			114	114	114	114	114	114	114	114													
Mucking out Opening D2 - Structural Works (Roof Slab)	117		117	117	117	117																															
Mucking out Opening D2 - Structural Works (Other Than Roof Slab)	114								114	114		114	114	114			114	114	114	114	114	114	114	114													
Structural S2 - Stationary Plant for Structural Zone D	114		114	114	114	114			114	114		114	114	114			114	114	114	114	114	114	114	114													
Mucking out Opening E1 - Structural Works (Roof Slab)	118		118	118																																	
Mucking out Opening E1 - Structural Works (Other Than Roof Slab)	114							114	114		114	114		114	114	114	114	114	114	114	114																
Structural S2 - Stationary Plant for Structural Zone E	111		111	111				111	111		111	111		111	111	111	111	111	111	111	111																
TCW Vent Shaft Structure and Entrances - Foundation Works																																					
North Vent Shaft Structure - Foundation Works	114	114	114	114	114	114	114	114	114	114	114																										
Building S1 - Stationary Plant for North Vent Shaft Structure Foundation Works	109	109	109	109	109	109	109	109	109	109	109																										
Entrance A - Foundation Works	112	112	112	112	112	112	112	112	112	112	112	112	112																								
Building S2 - Stationary Plant for Entrance A Foundation Works	106	106	106	106	106	106	106	106	106	106	106	106	106																								
TCW Vent Shaft Structure and Entrances - Excavation Works																																					
North Vent Shaft Structure - Excavation Works	115												115	115	115																						
Building S1 - Stationary Plant for North Vent Shaft Structure Excavation Works	95												95	95	95																						
Entrance A - Excavation Works	115														115	115	115	115																			
Building S2 - Stationary Plant for Entrance A Excavation Works	95														95	95	95	95																			
TCW Vent Shaft Structure and Entrances - Structural Works																																					
South Vent Shaft Structure - Structural Works	116							116	116	116	116	116	116																								
Building S2 - Stationary Plant for South Vent Shaft Structure Structural Works	111							111	111	111	111	111	111																								
North Vent Shaft Structure - Structural Works	116														116	116	116	116	116	116	116	116	116														
Building S1 - Stationary Plant for North Vent Shaft Structure Structural Works	112														112	112	112	112	112	112	112	112	112														
Entrance A - Structural Works	116																	116	116	116	116	116	116	116	116												
Building S2 - Stationary Plant for Entrance A Structural Works	112																	112	112	112	112	112	112	112	112												
Entrance B - Structural Works	116								116	116	116																										
Building S1 - Stationary Plant for Entrance B Structural Works	111								111	111	111																										
Site Reinstatement																																					
TCW Site Reinstatement	122																								122	122	122	122	122	122	122	122	122	122	122	122	122

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2029							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
TCW Structural Works									
Mucking out Opening A1 - Structural Works (Roof Slab)	118								
Mucking out Opening A1 - Structural Works (other than Roof Slab)	114								
Structural S1 - Stationary Plant for Structural Zone A	111								
Mucking out Opening B1 - Structural Works (Roof Slab)	117								
Mucking out Opening B1 - Structural Works (Other Than Roof Slab)	114								
Mucking out Opening B2 - Structural Works (Roof Slab)	117								
Mucking out Opening B2 - Structural Works (Other Than Roof Slab)	114								
Structural S1 - Stationary Plant for Structural Zone B	111								
Mucking out Opening C1 - Structural Works (Roof Slab)	117								
Mucking out Opening C1 - Structural Works (Other Than Roof Slab)	114								
Mucking out Opening C2 - Structural Works (Roof Slab)	117								
Mucking out Opening C2 - Structural Works (Other Than Roof Slab)	114								
Structural S2 - Stationary Plant for Structural Zone C	111								
Mucking out Opening D1 - Structural Works (Roof Slab)	117								
Mucking out Opening D1 - Structural Works (Other Than Roof Slab)	114								
Mucking out Opening D2 - Structural Works (Roof Slab)	117								
Mucking out Opening D2 - Structural Works (Other Than Roof Slab)	114								
Structural S2 - Stationary Plant for Structural Zone D	114								
Mucking out Opening E1 - Structural Works (Roof Slab)	118								
Mucking out Opening E1 - Structural Works (Other Than Roof Slab)	114								
Structural S2 - Stationary Plant for Structural Zone E	111								
TCW Vent Shaft Structure and Entrances - Foundation Works									
North Vent Shaft Structure - Foundation Works	114								
Building S1 - Stationary Plant for North Vent Shaft Structure Foundation Works	109								
Entrance A - Foundation Works	112								
Building S2 - Stationary Plant for Entrance A Foundation Works	106								
TCW Vent Shaft Structure and Entrances - Excavation Works									
North Vent Shaft Structure - Excavation Works	115								
Building S1 - Stationary Plant for North Vent Shaft Structure Excavation Works	95								
Entrance A - Excavation Works	115								
Building S2 - Stationary Plant for Entrance A Excavation Works	95								
TCW Vent Shaft Structure and Entrances - Structural Works									
South Vent Shaft Structure - Structural Works	116								
Building S2 - Stationary Plant for South Vent Shaft Structure Structural Works	111								
North Vent Shaft Structure - Structural Works	116								
Building S1 - Stationary Plant for North Vent Shaft Structure Structural Works	112								
Entrance A - Structural Works	116								
Building S2 - Stationary Plant for Entrance A Structural Works	112								
Entrance B - Structural Works	116								
Building S1 - Stationary Plant for Entrance B Structural Works	111								
Site Reinstatement									
TCW Site Reinstatement	122	122	122	122	122	122	122	122	122

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from TCW Haul Road
Subtitle : Construction of Haul Road at Yat Tung Estate (Unmitigated)

YTE-16a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	6	5	180	-8	3	-7	0	63
												Noise Impacts from Haul Road, dB(A)	**63**

YTE-14a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	6	5	180	-8	3	-7	0	63
												Noise Impacts from Haul Road, dB(A)	**63**

YTE-04a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	6	5	180	-8	3	-7	0	63
												Noise Impacts from Haul Road, dB(A)	**63**

YTE-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	7	5	180	-8	3	-7	0	63
												Noise Impacts from Haul Road, dB(A)	**63**

HLP-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	170	5	180	-22	3	-7	0	48
												Noise Impacts from Haul Road, dB(A)	**48**

HLP-02a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	205	5	180	-23	3	-7	0	47
												Noise Impacts from Haul Road, dB(A)	**47**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from TCW Haul Road
Subtitle : Construction of Haul Road at Yat Tung Estate (Unmitigated)

MTE-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	220	5	180	-23	3	-7	0	47
												Noise Impacts from Haul Road, dB(A)	**47**

ETCCS-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	70	5	180	-18	3	-7	0	52
												Noise Impacts from Haul Road, dB(A)	**52**

YTE-01b

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	N/A [3]	5	N/A [3]	N/A [3]	3	-7	N/A [3]	N/A [3]
												Noise Impacts from Haul Road, dB(A)	N/A [3]

YTE-05a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	N/A [3]	5	N/A [3]	N/A [3]	3	-7	N/A [3]	N/A [3]
												Noise Impacts from Haul Road, dB(A)	N/A [3]

MWC-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Lorry with Crane (CNP144) vehicle / hr - Daytime only	II	105	2	100%	108	90	5	180	-20	3	-7	0	51
												Noise Impacts from Haul Road, dB(A)	**51**

Note:
I - Daytime, evening and night-time operation
II - Daytime operation only
III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)
$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (speed) - 10 \log(dist) + 10 \log (angle /180) + C_{facade}$

[2] : A view angle of 180 deg has been assumed for conservative assessment

[3]: The view angle of the receiver will not include the haul road.

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

Predicted Construction Noise of the Project (without Haul Road), dB(A)

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NSR	Max																																
YTE-16a	86	72	72	72	72	72	72	84	84	81	81	77	77	77	77	77	74	74	74	84	84	84	86	84	82	82	82	78	78	84	84	83	79
YTE-14a	86	75	75	75	75	75	75	85	85	85	85	85	85	85	85	84	81	81	81	83	83	83	83	83	83	83	84	81	81	82	82	81	85
YTE-04a	87	79	79	79	79	79	79	86	86	86	86	86	86	86	86	83	83	83	83	86	86	86	84	84	84	84	84	84	84	83	83	80	80
YTE-01a	91	73	73	73	73	73	73	89	89	89	89	89	89	89	89	89	87	87	87	87	89	88	88	88	88	86	86	87	86	85	85	83	83
HLP-01a	75	67	67	67	67	67	67	72	72	71	71	71	71	71	71	71	71	71	71	71	72	72	72	72	72	72	72	72	72	72	72	71	72
HLP-02a	76	72	72	72	72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	73	73	74	74	74	74	74	74	74	74	74	74	73	74
MTE-01a	81	77	77	77	77	77	77	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
ETCCS-01a	75	56	56	56	56	56	56	73	73	72	72	71	71	71	71	71	69	69	69	73	73	73	75	74	73	73	74	70	70	74	74	74	73
YTE-01b	83	69	69	69	69	69	69	79	79	79	79	79	79	79	79	79	79	79	79	79	79	80	80	80	80	78	78	80	80	79	79	78	78
YTE-05a	78	66	66	66	66	66	66	72	72	72	72	72	72	72	72	72	71	71	71	72	72	73	73	73	73	73	73	74	74	73	73	72	72
A60-03a	72																															67	68
MWC-01a	86	69	69	69	69	69	69	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	84	84	84	84	84	83	83	85	85	84	85

Predicted Construction Noise of the Haul Road at Yat Tung Estate, dB(A)

NSR	Max																																
YTE-16a	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	0	0	0	0	0	0	0
YTE-14a	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	0	0	0	0	0	0	0
YTE-04a	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	0	0	0	0	0	0	0
YTE-01a	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	0	0	0	0	0	0	0
HLP-01a	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	0	0	0	0	0	0	0
HLP-02a	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	0	0	0	0	0	0	0
MTE-01a	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	0	0	0	0	0	0	0
ETCCS-01a	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	0	0	0	0	0	0	0
YTE-01b	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
YTE-05a	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0	0	0	0	0	0
A60-03a	0																															0	0
MWC-01a	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	0	0

Predicted Construction Noise from the Project, dB(A)

NSR	Max																																
YTE-16a	86	73	73	73	73	73	73	84	84	81	81	77	77	77	77	77	75	75	75	84	84	84	86	84	82	82	82	78	78	84	84	83	79
YTE-14a	86	76	76	76	76	76	76	85	85	85	85	85	85	85	85	84	81	81	81	83	83	83	83	83	83	83	84	81	81	82	82	81	85
YTE-04a	87	79	79	79	79	79	79	86	86	86	86	86	86	86	86	83	83	83	83	86	86	86	84	84	84	84	84	84	84	83	83	80	80
YTE-01a	91	73	73	73	73	73	73	89	89	89	89	89	89	89	89	89	87	87	87	87	89	88	88	88	88	86	86	87	86	85	85	83	83
HLP-01a	75	67	67	67	67	67	67	72	72	71	71	71	71	71	71	71	71	71	71	71	72	72	72	72	72	72	72	72	72	72	72	71	72
HLP-02a	76	72	72	72	72	72	72	73	73	73	73	73	73	73	73	73	73	73	73	73	74	74	74	74	74	74	74	74	74	74	74	73	74
MTE-01a	81	77	77	77	77	77	77	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
ETCCS-01a	75	57	57	57	57	57	57	73	73	72	72	71	71	71	71	71	69	69	69	73	73	73	75	74	73	73	74	70	70	74	74	74	73
YTE-01b	83	69	69	69	69	69	69	79	79	79	79	79	79	79	79	79	79	79	79	79	79	80	80	80	80	78	78	80	80	79	79	78	78
YTE-05a	78	66	66	66	66	66	66	72	72	72	72	72	72	72	72	72	71	71	71	72	72	73	73	73	73	73	73	74	74	73	73	72	72
A60-03a	72																															67	68
MWC-01a	86	69	69	69	69	69	69	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	84	84	84	84	84	83	83	85	85	84	85

Note:
1. As a worst case scenario, the predicted construction noise is calculated
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

Predicted Construction Noise of the Project (without Haul Road), dB(A)

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
NSR	Max																																				
YTE-16a	86	80	83	82	81	82	81	81	82	82	81	80	81	81	83	82	82	82	82	79	77	77	77	70	79	79	79	79	79	79	79	79	79	79	79	79	79
YTE-14a	86	86	86	85	83	84	83	83	85	84	84	82	83	84	85	84	84	84	84	84	80	80	80	75	82	82	82	82	82	82	82	82	82	82	82	82	82
YTE-04a	87	81	87	86	86	86	82	84	85	84	84	84	83	83	83	83	84	85	84	84	84	84	84	84	86	85	85	85	85	85	85	85	85	85	85	85	85
YTE-01a	91	85	87	85	83	84	81	91	91	91	91	91	91	81	82	82	82	83	82	82	82	80	80	80	80	79	79	79	79	79	79	79	79	79	79	79	79
HLP-01a	75	72	75	74	71	72	70	72	73	72	72	72	72	70	71	70	71	72	71	71	71	70	70	69	69	67	67	67	67	67	67	67	67	67	67	67	67
HLP-02a	76	74	76	75	70	71	69	71	71	70	71	71	71	69	70	69	70	71	70	70	70	69	69	68	69	67	67	67	67	67	67	67	67	67	67	67	67
MTE-01a	81	80	81	79	70	71	69	71	71	70	71	71	71	69	70	69	70	71	70	70	70	69	69	68	69	67	67	67	67	67	67	67	67	67	67	67	67
ETCCS-01a	75	74	75	75	73	73	73	73	74	74	73	71	73	73	75	74	74	74	74	73	71	71	71	60	63	62	62	62	62	62	62	62	62	62	62	62	62
YTE-01b	83	79	83	82	79	80	78	82	83	82	82	82	82	78	78	78	79	80	79	79	79	77	77	76	76	73	73	73	73	73	73	73	73	73	73	73	73
YTE-05a	78	73	78	77	76	76	73	76	77	75	76	76	76	74	74	74	75	76	76	76	75	74	74	74	72	70	70	70	70	70	70	70	70	70	70	70	70
A60-03a	72	69	72	71	69	69	67	68	69	68	69	68	68	67	68	68	68	69	69	69	68	67	67	67	69	68	68	68	68	68	68	68	68	68	68	68	68
MWC-01a	86	86	86	84	82	84	83	83	85	84	83	79	83	84	86	85	85	85	85	84	82	82	82	73	76	75	75	75	75	75	75	75	75	75	75	75	75

Predicted Construction Noise of the Haul Road at Yat Tung Estate, dB(A)

NSR	Max																																				
YTE-16a	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YTE-14a	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YTE-04a	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YTE-01a	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HLP-01a	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HLP-02a	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MTE-01a	47	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ETCCS-01a	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YTE-01b	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
YTE-05a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A60-03a	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MWC-01a	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	0	0	0	0	0	0	0	0	0	0	0	0

Predicted Construction Noise from the Project, dB(A)

NSR	Max																																				
YTE-16a	86	80	83	82	81	82	81	81	82	82	81	80	81	81	83	82	82	82	82	79	77	77	77	70	79	79	79	79	79	79	79	79	79	79	79	79	79
YTE-14a	86	86	86	85	83	84	83	83	85	84	84	82	83	84	85	84	84	84	84	84	80	80	80	75	82	82	82	82	82	82	82	82	82	82	82	82	82
YTE-04a	87	81	87	86	86	86	82	84	85	84	84	84	83	83	83	83	84	85	84	84	84	84	84	84	86	85	85	85	85	85	85	85	85	85	85	85	85
YTE-01a	91	85	87	85	83	84	81	91	91	91	91	91	91	81	82	82	82	83	82	82	82	80	80	80	80	79	79	79	79	79	79	79	79	79	79	79	79
HLP-01a	75	72	75	74	71	72	70	72	73	72	72	72	72	70	71	70	71	72	71	71	71	70	70	69	69	67	67	67	67	67	67	67	67	67	67	67	67
HLP-02a	76	74	76	75	70	71	69	71	71	70	71	71	71	69	70	69	70	71	70	70	70	69	69	68	69	67	67	67	67	67	67	67	67	67	67	67	67
MTE-01a	81	80	81	79	70	71	69	71	71	70	71	71	71	69	70	69	70	71	70	70	70	69	69	68	69	67	67	67	67	67	67	67	67	67	67	67	67
ETCCS-01a	75	74	75	75	73	73	73	73	74	74	73	71	73	73	75	74	74	74	74	73	71	71	71	60	63	62	62	62	62	62	62	62	62	62	62	62	62
YTE-01b	83	79	83	82	79	80	78	82	83	82	82	82	82	78	78	78	79	80	79	79	79	77	77	76	76	73	73	73	73	73	73	73	73	73	73	73	73
YTE-05a	78	73	78	77	76	76	73	76	77	75	76	76	76	74	74	74	75	76	76	76	75	74	74	74	72	70	70	70	70	70	70	70	70	70	70	70	70
A60-03a	72	69	72	71	69	69	67	68	69	68	69	68	68	67	68	68	68	69	69	69	68	67	67	67	69	68	68	68	68	68	68	68	68	68	68	68	68
MWC-01a	86	86	86	84	82	84	83	83	85	84	83	79	83	84	86	85	85	85	85	84	82	82	82	73	76	75	75	75	75	75	75	75	75	75	75	75	75

Note:
1. As a worst case scenario, the predicted construction noise is calculated
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2029							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Predicted Construction Noise of the Project (without Haul Road), dB(A)									
NSR	Max								
YTE-16a	86	79	79	79	79	79	79	79	79
YTE-14a	86	82	82	82	82	82	82	82	82
YTE-04a	87	85	85	85	85	85	85	85	85
YTE-01a	91	79	79	79	79	79	79	79	79
HLP-01a	75	67	67	67	67	67	67	67	67
HLP-02a	76	67	67	67	67	67	67	67	67
MTE-01a	81	67	67	67	67	67	67	67	67
ETCCS-01a	75	62	62	62	62	62	62	62	62
YTE-01b	83	73	73	73	73	73	73	73	73
YTE-05a	78	70	70	70	70	70	70	70	70
A60-03a	72	68	68	68	68	68	68	68	68
MWC-01a	86	75	75	75	75	75	75	75	75

Predicted Construction Noise of the Haul Road at Yat Tung Estate, dB(A)

NSR	Max								
YTE-16a	63	0	0	0	0	0	0	0	0
YTE-14a	63	0	0	0	0	0	0	0	0
YTE-04a	63	0	0	0	0	0	0	0	0
YTE-01a	63	0	0	0	0	0	0	0	0
HLP-01a	48	0	0	0	0	0	0	0	0
HLP-02a	47	0	0	0	0	0	0	0	0
MTE-01a	47	0	0	0	0	0	0	0	0
ETCCS-01a	52	0	0	0	0	0	0	0	0
YTE-01b	0	0	0	0	0	0	0	0	0
YTE-05a	0	0	0	0	0	0	0	0	0
A60-03a	0	0	0	0	0	0	0	0	0
MWC-01a	51	0	0	0	0	0	0	0	0

Predicted Construction Noise from the Project, dB(A)

NSR	Max								
YTE-16a	86	79	79	79	79	79	79	79	79
YTE-14a	86	82	82	82	82	82	82	82	82
YTE-04a	87	85	85	85	85	85	85	85	85
YTE-01a	91	79	79	79	79	79	79	79	79
HLP-01a	75	67	67	67	67	67	67	67	67
HLP-02a	76	67	67	67	67	67	67	67	67
MTE-01a	81	67	67	67	67	67	67	67	67
ETCCS-01a	75	62	62	62	62	62	62	62	62
YTE-01b	83	73	73	73	73	73	73	73	73
YTE-05a	78	70	70	70	70	70	70	70	70
A60-03a	72	68	68	68	68	68	68	68	68
MWC-01a	86	75	75	75	75	75	75	75	75

Note:
1. As a worst case scenario, the predicted construction noise is calculated
2. Text in red in shaded cell denotes exceedance of relevant criterion.
3. Cell with shaded area denotes the unoccupancy of the NSR (i.e. before the population intake).

Unmitigated Construction Noise for EAP / EEP and Launching Shaft

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Line Extension

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2023								2024												2025											
		May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EAP / EEP Site Formation Works - Temporary Wall																																	
EAP-A - Installation of Pipe Piles	116						116	116	116	116	116	116	116																				
EAP / EEP Site Formation Works - Slope Excavation																																	
EAP-B - Slope Excavation	122															122	122	122	122	122	122												
EAP-B - Installation of Tie Back Anchor	114																					114	114	114									
EAP-B - Installation of Strut and Walling	113																							113	113								
EAP / EEP - Foundation and Shaft Excavation Works																																	
EAP-B - Installation of Pre-bored H-piles	114																								114	114	114	114					
EAP-A - Hard Excavation (Shaft Zone)	113																								113	113	113	113					
EAP / EEP - Building (Above Ground) and Shaft Zone (Underground)																																	
EAP-A - Construction of EAP/EEP Building (Aboveground)	119																													119	119	119	
EAP-A - Construction of Shaft Structure and Staircases	120																													120	120	120	
Launching Shaft - Foundation Work																																	
LS-A - Construction of Diaphragm Wall at TCC	118											118	118	118																			
LS-A - Installation of Pre-bored H-piles at TCC	115											115	115	115																			
LS-A - Installation of Pipe Piles at TCC	114											114	114	114																			
Launching Shaft - Excavation Work																																	
LS-A - Excavation Works (Soft & Installation of Struts) for Launching Shaft	119																		119	119	119												
LS-A - Excavation Works (Rock & Installtion of Struts) for Launching Shaft	127																					127	127	127	127								
LS-A - Excavation Works (Soft & Installation of Struts) for C&C Tunnel	119																					119	119	119									
LS-A - Excavation Works (Rock & Installtion of Struts) for C&C Tunnel	127																									127	127	127	127	127			
TBM Operation																																	
LS-A - TBM Operation	116																											116	116	116	116	116	116
LS-C - TBM Operation	110																											110	110	110	110	110	110
Site Clearnace & Site Reinstatement																																	
EAP-B - Site Clearance	115	115	115	115	115	115																											
EAP-B - Site Reinstatement	119																																
LS-C: Shun Tung Road Site Clearance	120	120	120	120	120	120																											
LS-C - Shun Tung Rd Site Reinstatement	122																																
LS-A - Site Clearance	115	115	115	115	115	115																											
LS-A - Site Reinstatement	119																																
C&C Tunnel - Structural Works																																	
C&C Tunnel - C&C Tunnel Base Slab + Drill & Fix Connection to Existing Overrun Tunnels	117																														117	117	117
C&C Tunnel - C&C Tunnel Side Walls + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117																																117
C&C Tunnel - C&C Tunnel Roof Slabs + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117																																
Launching Shaft - Structural Works																																	
LS-D - Constuction of Launching Shaft Base Slab	116																											116	116				
LS-D - Constuction of Launching Shaft Side Walls + Remove Struts	116																																
LS-D - Constuction of Launching Shaft Roof Slab + Remove Struts	116																																

Predicted Construction Noise, dB(A)

NSR	Max																																
TCC-09a	87	84	84	84	84	84	74	74	74	74	74	78	78	77	0	80	80	80	81	81	81	84	84	84	84	83	83	84	84	85	82	82	78
TCC-01a	85	81	81	81	81	81	68	68	68	68	68	78	78	78	0	74	74	74	78	78	78	84	84	85	84	84	84	85	84	85	79	79	79
ESHI-01a	69	62	62	62	62	62	55	55	55	55	55	63	63	62	0	61	61	61	64	64	64	69	69	69	68	68	68	69	69	69	64	64	63
TCC-07a	84	76	76	76	76	76	68	68	68	68	68	77	77	77	0	74	74	74	78	78	78	83	83	84	83	83	83	83	83	84	78	78	78

Note:
1. As a worst case scenario, the predicted construction noise is calculated using
2. Text in red in shaded cell denotes exceedance of relevant criterion.

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Li

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2026												2027												2028											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
EAP / EEP Site Formation Works - Temporary Wall																																					
EAP-A - Installation of Pipe Piles	116																																				
EAP / EEP Site Formation Works - Slope Excavation																																					
EAP-B - Slope Excavation	122																																				
EAP-B - Installation of Tie Back Anchor	114																																				
EAP-B - Installation of Strut and Walling	113																																				
EAP / EEP - Foundation and Shaft Excavation Works																																					
EAP-B - Installation of Pre-bored H-piles	114																																				
EAP-A - Hard Excavation (Shaft Zone)	113																																				
EAP / EEP - Building (Above Ground) and Shaft Zone (Underground)																																					
EAP-A - Construction of EAP/EEP Building (Aboveground)	119																																				
EAP-A - Construction of Shaft Structure and Staircases	120																																				
Launching Shaft - Foundation Work																																					
LS-A - Construction of Diaphragm Wall at TCC	118																																				
LS-A - Installation of Pre-bored H-piles at TCC	115																																				
LS-A - Installation of Pipe Piles at TCC	114																																				
Launching Shaft - Excavation Work																																					
LS-A - Excavation Works (Soft & Installation of Struts) for Launching Shaft	119																																				
LS-A - Excavation Works (Rock & Installtion of Struts) for Launching Shaft	127																																				
LS-A - Excavation Works (Soft & Installation of Struts) for C&C Tunnel	119																																				
LS-A - Excavation Works (Rock & Installtion of Struts) for C&C Tunnel	127																																				
TBM Operation																																					
LS-A - TBM Operation	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116																			
LS-C - TBM Operation	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110																			
Site Clearnace & Site Reinstatement																																					
EAP-B - Site Clearance	115																																				
EAP-B - Site Reinstatement	119																												119	119	119	119	119	119	119		
LS-C: Shun Tung Road Site Clearance	120																																				
LS-C - Shun Tung Rd Site Reinstatement	122																																		122	122	
LS-A - Site Clearance	115																																				
LS-A - Site Reinstatement	119																										119	119	119	119	119	119	119	119	119	119	119
C&C Tunnel - Structural Works																																					
C&C Tunnel - C&C Tunnel Base Slab + Drill & Fix Connection to Existing Overrun Tunnels	117																																				
C&C Tunnel - C&C Tunnel Side Walls + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117	117	117																																		
C&C Tunnel - C&C Tunnel Roof Slabs + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117		117	117	117																																
Launching Shaft - Structural Works																																					
LS-D - Constuction of Launching Shaft Base Slab	116																																				
LS-D - Constuction of Launching Shaft Side Walls + Remove Struts	116																		116	116																	
LS-D - Constuction of Launching Shaft Roof Slab + Remove Struts	116																			116	116																

Predicted Construction Noise, dB(A)

NSR	Max																																				
TCC-09a	87	77	78	77	77	75	75	75	75	75	75	75	75	75	75	75	75	75	0	72	75	72	0	0	0	0	75	75	75	78	78	78	78	78	78	87	86
TCC-01a	85	77	79	77	77	75	75	75	75	75	75	75	75	75	75	75	75	75	0	73	76	73	0	0	0	0	76	76	76	77	77	77	77	77	77	84	84
ESHI-01a	69	61	63	61	61	58	58	58	58	58	58	58	58	58	58	58	58	58	0	57	60	57	0	0	0	0	60	60	60	62	62	62	62	62	62	65	64
TCC-07a	84	76	78	76	76	72	72	72	72	72	72	72	72	72	72	72	72	72	0	72	75	72	0	0	0	0	75	75	75	76	76	76	76	76	76	79	79

Note:
1. As a worst case scenario, the predicted construction noise is calculated using
2. Text in red in shaded cell denotes exceedance of relevant criterion.

Project : Environmental Consultancy No. C1202 EIA Study for Tung Chung Li

Title : Construction Noise Calculation
Scenario : Unmitigated Scenario

		2029							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
EAP / EEP Site Formation Works - Temporary Wall									
EAP-A - Installation of Pipe Piles	116								
EAP / EEP Site Formation Works - Slope Excavation									
EAP-B - Slope Excavation	122								
EAP-B - Installation of Tie Back Anchor	114								
EAP-B - Installation of Strut and Walling	113								
EAP / EEP - Foundation and Shaft Excavation Works									
EAP-B - Installation of Pre-bored H-piles	114								
EAP-A - Hard Excavation (Shaft Zone)	113								
EAP / EEP - Building (Above Ground) and Shaft Zone (Underground)									
EAP-A - Construction of EAP/EEP Building (Aboveground)	119								
EAP-A - Construction of Shaft Structure and Staircases	120								
Launching Shaft - Foundation Work									
LS-A - Construction of Diaphragm Wall at TCC	118								
LS-A - Installation of Pre-bored H-piles at TCC	115								
LS-A - Installation of Pipe Piles at TCC	114								
Launching Shaft - Excavation Work									
LS-A - Excavation Works (Soft & Installation of Struts) for Launching Shaft	119								
LS-A - Excavation Works (Rock & Installtion of Struts) for Launching Shaft	127								
LS-A - Excavation Works (Soft & Installation of Struts) for C&C Tunnel	119								
LS-A - Excavation Works (Rock & Installtion of Struts) for C&C Tunnel	127								
TBM Operation									
LS-A - TBM Operation	116								
LS-C - TBM Operation	110								
Site Clearnace & Site Reinstatement									
EAP-B - Site Clearance	115								
EAP-B - Site Reinstatement	119					119	119	119	119
LS-C: Shun Tung Road Site Clearance	120								
LS-C - Shun Tung Rd Site Reinstatement	122	122	122	122	122	122			
LS-A - Site Clearance	115								
LS-A - Site Reinstatement	119	119	119	119	119	119	119	119	119
C&C Tunnel - Structural Works									
C&C Tunnel - C&C Tunnel Base Slab + Drill & Fix Connection to Existing Overrun Tunnels	117								
C&C Tunnel - C&C Tunnel Side Walls + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117								
C&C Tunnel - C&C Tunnel Roof Slabs + Drill & Fix Connection to Existing Overrun Tunnels + Remove	117								
Launching Shaft - Structural Works									
LS-D - Constuction of Launching Shaft Base Slab	116								
LS-D - Constuction of Launching Shaft Side Walls + Remove Struts	116								
LS-D - Constuction of Launching Shaft Roof Slab + Remove Struts	116								

Predicted Construction Noise, dB(A)

NSR	Max								
TCC-09a	87	86	86	86	86	87	78	78	78
TCC-01a	85	84	84	84	84	84	77	77	77
ESHI-01a	69	64	64	64	64	65	62	62	62
TCC-07a	84	79	79	79	79	79	76	76	76

Note:
1. As a worst case scenario, the predicted construction noise is calculated using
2. Text in red in shaded cell denotes exceedance of relevant criterion.

Unmitigated Construction Noise for Barging Facility

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Construction of Barging Point Facilities (Unmitigated) **NSR :** A54-01a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
Vibratory Poker(CNP170) Barging Area	113	2	100%	116	160	-52	3	0	67
Flat-top Barge (CNP061) Barging Point 1	104	1	100%	104	300	-58	3	0	49
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	340	-59	3	0	54
Flat-top Barge (CNP061) Barging Point 2	104	1	100%	104	260	-56	3	0	51
Tug Boat (CNP221) Barging Point 2	110	1	100%	110	305	-58	3	0	55
								Total Noise Impacts, dB(A)	**70**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Construction of Barging Point Facilities (Unmitigated) **NSR :** LED-06a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
Vibratory Poker(CNP170) Barging Area	113	2	100%	116	160	-52	3	0	67
Flat-top Barge (CNP061) Barging Point 1	104	1	100%	104	200	-54	3	0	53
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	250	-56	3	0	57
Flat-top Barge (CNP061) Barging Point 2	104	1	100%	104	235	-55	3	0	52
Tug Boat (CNP221) Barging Point 2	110	1	100%	110	280	-57	3	0	56
								Total Noise Impacts, dB(A)	**70**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Site Clearance (Unmitigated) **NSR :** A54-01a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
								Total Noise Impacts, dB(A)	**66**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Site Clearance (Unmitigated) **NSR :** LED-06a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
								Total Noise Impacts, dB(A)	**66**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Barging Point Operation (Unmitigated) **NSR :** A54-01a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	2	100%	98	160	-52	3	0	49
Dump Truck, vehicle / hr [1] Haul Road									65
Flat-top Barge (CNP061) Barging Point 1	104	1	100%	104	300	-58	3	0	49
Barge (CNP061) Barging Point 1	104	2	100%	107	340	-59	3	0	51
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	340	-59	3	0	54
Flat-top Barge (CNP061) Barging Point 2	104	1	100%	104	260	-56	3	0	51
Barge (CNP061) Barging Point 2	104	2	100%	107	305	-58	3	0	52
Tug Boat (CNP221) Barging Point 2	110	1	100%	110	305	-58	3	0	55
								Total Noise Impacts, dB(A)	**67**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Note:
[1] : See separate calculations for noise impacts from haul road

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Barging Point Operation (Unmitigated) **NSR :** LED-06a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	2	100%	98	130	-50	3	0	51
Dump Truck, vehicle / hr [1] Haul Road									62
Flat-top Barge (CNP061) Barging Point 1	104	1	100%	104	200	-54	3	0	53
Barge (CNP061) Barging Point 1	104	2	100%	107	250	-56	3	0	54
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	250	-56	3	0	57
Flat-top Barge (CNP061) Barging Point 2	104	1	100%	104	235	-55	3	0	52
Barge (CNP061) Barging Point 2	104	2	100%	107	280	-57	3	0	53
Tug Boat (CNP221) Barging Point 2	110	1	100%	110	280	-57	3	0	56
								Total Noise Impacts, dB(A)	**65**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Note:
[1] : See separate calculations for noise impacts from haul road

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Barging Point Operation (Unmitigated)

A54-01a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Dump Truck, vehicle / hr - Daytime only	II	105	132	100%	126	60	20	180	-18	3	-13	0	65
												Noise Impacts from Haul Road, dB(A)	**65**

Note:
I - Daytime, evening and night-time operation
II - Daytime operation only
III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)
$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (speed) - 10 \log(dist) + 10 \log (angle /180) + C_{facade}$

[2] : A view angle of 180 deg has been assumed for conservative assessment

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Barging Point Operation (Unmitigated)

LED-06a

Source	Period	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Speed kph	[2] Angle deg	Correction [1] Dist dB(A)	Facade dB(A)	Speed dB(A)	Angle dB(A)	SPL Daytime dB(A)
Dump Truck, vehicle / hr - Daytime only	II	105	132	100%	126	130	20	180	-21	3	-13	0	62
												Noise Impacts from Haul Road, dB(A)	**62**

Note:
I - Daytime, evening and night-time operation
II - Daytime operation only
III - Evening operation only

[1] : Based on BS 5228 Pt 1: 1997 D3.5.2 Method for mobile plant using a regular well defined route (haul road)
$L_{eq} = L_w - 33 + 10 \log (Qty) - 10 \log (speed) - 10 \log(dist) + 10 \log (angle /180) + C_{facade}$

[2] : A view angle of 180 deg has been assumed for conservative assessment

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Demolition of Barging Point Facilities (Unmitigated) **NSR :** A54-01a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	340	-59	3	0	54
								Total Noise Impacts, dB(A)	**67**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Demolition of Barging Point Facilities (Unmitigated) **NSR :** LED-06a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
Tug Boat (CNP221) Barging Point 1	110	1	100%	110	250	-56	3	0	57
								Total Noise Impacts, dB(A)	**67**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Site Reinstatement (Unmitigated) **NSR :** A54-01a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
								Total Noise Impacts, dB(A)	**66**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**

Project : EIA for Tung Chung Line Extension
Title : Preliminary Noise Assessment from Barging Point
Subtitle : Site Reinstatement (Unmitigated) **NSR :** LED-06a

Source	SWL / Unit dB(A)	Qty Nos	% Util	Total SWL dB(A)	Dist m	Correction Dist dB(A)	Correction Facade dB(A)	Correction Screen dB(A)	SPL Daytime dB(A)
Daytime									
Generator (CNP103) Barging Area	95	1	100%	95	160	-52	3	0	46
Moblie Crane (CNP048) Barging Area	112	1	100%	112	160	-52	3	0	63
Excavator (CNP081) Barging Area	112	1	100%	112	160	-52	3	0	63
Electric Drill (CNP064) Barging Area	103	2	100%	106	160	-52	3	0	57
								Total Noise Impacts, dB(A)	**66**
								Criterion, dB(A)	75
								Exceedence, dB(A)	**-**