# Appendix 4.4.7

Mitigated Airborne Construction Noise Impact Title: Construction Noise Calculation

 Table 1:
 Notional Distance from Construction Sites to NSRs, m

Table 1:	T TOUGHAI DIS	tance nom c	onstruction Sites to	14013, 111								Maula 0:4a											
			, ,								<u> </u>	Vork Site							1				
		ater Trunk ains	Modification of Chamber G falling within NTM WTW Boundary (Under PER)							NTM WTW	Extension (	Under PER)							1	Fresh Water	Trunk Mains	(Under PER	)
NSRs	FM1	FM2	AG1	<b>S</b> 1	<b>A</b> 1	A2	А3	A4	A5	A6	<b>A</b> 7	<b>A</b> 8	А9	A10	A11	A12	A13	A14	AF1	AF2	AF3-a	AF3-b	AF3-c
NTM01	45		320	135	230	160	370	175	405	345	415	300	145	245	80	130							
NTM02	90		450	220	210	265	485	225	520	475	575	420	235	340	165	190							
NTM03	50																						
NTM04	110																305	200	125				
NTM05	280																255	210	250				
SW01		40																		225	25		
SW02		14																			95		
LH01		13																			190	15	150

**Table 2:** Distance Attenuation and Facade Correction, dB(A)

Table 2:	Distance Att	enuation and	d Facade Correction,	, ub(A)																			
												Work Site											
		ater Trunk ains	Modification of Chamber G within NTM WTW Boundary (Under PER)							NTM WTW	/ Extension (	(Under PER)								Fresh Water	· Trunk Mains	ኑ (Under PER	)
NSRs	FM1	FM2	AG1	S1	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	AF1	AF2	AF3-a	AF3-b	AF3-c
NTM01	-38		-55	-48	-52	-49	-56	-50	-57	-56	-57	-55	-48	-53	-43	-47					1		
NTM02	-44		-58	-52	-51	-53	-59	-52	-59	-59	-60	-57	-52	-56	-49	-51					1	1	
NTM03	-39																						
NTM04	-46																-55	-51	-47		1	1	
NTM05	-54																-53	-51	-53		1	1	
SW01		-37																		-52	-33		
SW02		-28																			-45		
LH01		-27																			-51	-29	-49

Formula for Calculating Distance Attenuation and Façade Correction

Distance Attenuation, in dB(A) = - 20 log D - 8 + 3 (where D is the distance in metres)

Title: Construction Noise Calculation

Table 1: Notional Distance from Construction Sites to NSRs, m

				Work Sit	e		
				Northern L	ink		
NSRs	NTD-2	NTD-3	NTD BPW(S)	NTD BPW(W)	NTD > Underground Tunnel	AB7-a & AB7-b	AB7-b
NTM01							
NTM02							
NTM03							
NTM04							
NTM05							
SW01	345	265	265	305	205	·	·
SW02						250	240
LH01						135	155

**Table 2:** Distance Attenuation and Facade Correction. dB(A)

Table 2:	Distance Att	enuation and	Facade Con	. ,			
				Work Sit	е		
				Northern L			
					NTD >		
			NTD	NTD	Underground	AB7-a &	
NSRs	NTD-2	NTD-3	BPW(S)	BPW(W)	Tunnel	AB7-b	AB7-b
NTM01							
NTM02							
NTM03							
NTM04							
NTM05							
SW01	-56	-53	-53	-55	-51		
SW02						-53	-53
LH01						-48	-49

Formula for Calculating Distance Attenuation and Façade Correction

Distance Attenuation, in dB(A) = - 20 log D - 8 + 3 (where D is the distance in metres)

Scenario: Mitigated Scenario

Activities		1					20	025					$\neg$					20	)26					
	SWL	Jan	Feb	Mar	Apr	May			Aug	Sep	Oct	Nov D	ec Ja	n Feb	Ma	r Apr	May			Aug	Sep (	Oct	Nov	Dec
FM1 Mainlaying works along access road between NTM WTW & FWPSR by Open Cut Method								<u> </u>				15.												
FM1 Mainlaying	103	103	103	103	103	3   103	103	103	103	103	103	103 1	03   10	3   103	3   103	3   103	103	103	103	103	103   1	03	103	103
FM2 Mainlaying works between Ching Yau Road and San Tam Road (Within CA zone only) by Open Cut Method																								
FM2 Mainlaying works from FWPSR to Tan Kwai Tsuen (Within CA zone only) by Open Cut Method	102																					$\dashv$		
AG1a Construction of Jacking/Lauching Pit																								
AG1a Construction of Jacking/Lauching Pit	114																							
AG1b Consruction of Water Main to NTM WTW Raw Water Pumping Station																								
AG1b Consruction of Water Main to NTM WTW Raw Water Pumping Station	114																							
AG1c Construction of Retaining Wall for Ventilation Building																								
AG1c Construction of Retaining Wall for Ventilation Building	117																							
AG1d Construction of Ventilation Building for Chamber G																								
AG1d Construction of Ventilation Building for Chamber G	117																							
AG1e Construction of Chamber G Portal																								
AG1e Construction of Chamber G Portal	111												11	1 111	11	1								
AG1f Civil Works and E&M Installation and Testing & Commissioning																								
AG1f Civil Works and E&M Installation and Testing & Commissioning	107		1				1	L					_				1	1			_	_		
S1 Site Clearance and Mobilisation																								
S1 Site Clearance and Mobilisation	103							103	103	103														
A1 New Filter Building (DAF, PBF, SRGF), Chem Bldg, CLP Substation													$\neg$		1							$\dashv$	$\Box$	
A1-1 Excavation & Piling	117										117	117 1	17 11	7 117	117	7 117	117	117	117	117	117 1	17	117	117
A1-2 Foundation & Substructure	108															108	108	108	108	108	108 1	108	108	108
A1-3 Superstructure + ABWF	109																							
A1-4 E&M + BS Installation	107																							
A1-5 E&M Installation for CLP Substation	107																							
A2 New Chlorine Contact Tank and Clear Water Tank					1												1	+				$\dashv$	-	
A2-1 Excavation & Piling	112																							
A2-2 Foundation & Substructure	108																							
A2-3 E&M Installation	108																							
A3 Ozone Building, Lamella Settler					+													+				$\dashv$	-	
A3-1 Excavation & Piling	117																							
A3-2 Foundation & Substructure	108																							
A3-3 Superstructure + ABWF	109																							
A3-4 E&M + BS Installation	109																							
A4 Washwater Equalisation Tanks & Pump Chamber	100				+								-		-		+	+				$\dashv$	-	
A4-1 Excavation	112																							
A4-2 Foundation & Substructure	108																							
A4-3 E&M Installation	108																							
A5 Sludge Thickening Tanks & Dog House	100																					<del></del>		
A5-1 Excavation	110																							
	118																							
A5-2 Foundation & Substructure	108																							
A5-3 E&M Installation	108		1					<del>                                     </del>					+		+			1	$\sqcup$			$\dashv$		
A6 Dewatering Building & Thickened Sludge Holding Tanks																								
A6-1 Excavation	106																							
A6-2 Foundation & Substructure	107																							
A6-3 Civil/Structure modification	108																							
A6-4 E&M Installation	108				<u> </u>			<u> </u>					$\perp$		4		<u> </u>					$\bot$		
A7 Construction of Chlorine Building																								
A7-1 Civil/Structure Modification	108												10	8 108	108	3   108	108	108	108	108	108   1	08	108	108
A7-2 E&M Installation	108							<u> </u>							_							$\perp$		
A8 Raw Water Pumping Station																								
A8-1 Civil/Structure Modification	107																							
A8-2 E&M Installation	107		1		1		1	L	L				_				1	1				_	[	

Scenario : Mitigated Scenario

Activities								2027	7						Ι					202	28				
	SWL	Jan	Feb	b Ma	ar A	pr M	Лау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			Aug S	ep Oct	Nov	De
FM1 Mainlaying works along access road between NTM WTW & FWPSR by Open Cut Method																									
FM1 Mainlaying	103	103	3 103	3   10	3   10	03   1	03	103																	$oldsymbol{\perp}$
FM2 Mainlaying works between Ching Yau Road and San Tam Road (Within CA zone only) by Open Cut Method																									
FM2 Mainlaying works from FWPSR to Tan Kwai Tsuen (Within CA zone only) by Open Cut Method	102							1	102	102	102	102	102	102	102	102	102								$oldsymbol{\perp}$
AG1a Construction of Jacking/Lauching Pit																									
AG1a Construction of Jacking/Lauching Pit	114	114	114	4   11	4 1 <sup>-</sup>	14   1	14	114																	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$
AG1b Consruction of Water Main to NTM WTW Raw Water Pumping Station																									
AG1b Consruction of Water Main to NTM WTW Raw Water Pumping Station	114																								
AG1c Construction of Retaining Wall for Ventilation Building																									
AG1c Construction of Retaining Wall for Ventilation Building	117	117	117	7   11	7 1	17   1	17	117																	
AG1d Construction of Ventilation Building for Chamber G																									
AG1d Construction of Ventilation Building for Chamber G	117																								
AG1e Construction of Chamber G Portal																									
AG1e Construction of Chamber G Portal	111																								
AG1f Civil Works and E&M Installation and Testing & Commissioning																									
AG1f Civil Works and E&M Installation and Testing & Commissioning	107																								
S1 Site Clearance and Mobilisation							$\top$																		
S1 Site Clearance and Mobilisation	103																								
A1 New Filter Building (DAF, PBF, SRGF), Chem Bldg, CLP Substation				$\top$	$\top$	$\top$	$\dashv$	$\neg \uparrow$																	$\top$
A1-1 Excavation & Piling	117	117	7 117	7 11	7 1	17 1	17	117																	
A1-2 Foundation & Substructure	108	108	3 108	8 10	8 10	08 1	08	108																	
A1-3 Superstructure + ABWF	109						09																		
A1-4 E&M + BS Installation	107																								
A1-5 E&M Installation for CLP Substation	107																								
A2 New Chlorine Contact Tank and Clear Water Tank					+																				+
A2-1 Excavation & Piling	112																								
A2-2 Foundation & Substructure	108																								
A2-3 E&M Installation	108																								
A3 Ozone Building, Lamella Settler					+																				+
A3-1 Excavation & Piling	117																								
A3-2 Foundation & Substructure	108																								
A3-3 Superstructure + ABWF	109																								
A3-4 E&M + BS Installation	109																								
	109				+																			+	$\vdash$
A4-Uashwater Equalisation Tanks & Pump Chamber A4-1 Excavation	112																								
A4-2 Foundation & Substructure	108																								
A4-3 E&M Installation	108		+	-	+	_	$\perp$	$\perp$																-	+
A5 Sludge Thickening Tanks & Dog House																									
A5-1 Excavation	118																								
A5-2 Foundation & Substructure	108																								
A5-3 E&M Installation	108		_	$\perp$	_	_	$\perp$		_						<u> </u>										<del></del>
A6 Dewatering Building & Thickened Sludge Holding Tanks																									
A6-1 Excavation	106																								
A6-2 Foundation & Substructure	107																								
A6-3 Civil/Structure modification	108																								
A6-4 E&M Installation	108																								$\perp$
A7 Construction of Chlorine Building																									
A7-1 Civil/Structure Modification	108		108																						
A7-2 E&M Installation	108	108	3 108	8 10	8 10	08 1	08	108																	
A8 Raw Water Pumping Station																									
A8-1 Civil/Structure Modification	107																								
A8-2 E&M Installation	107																								

Scenario: Mitigated Scenario

Activities								2025						T					20					
	SWL	Jan	Feb	Mar	Ap	pr Ma				ug Se	р О	Oct No	v Dec	Jan	Feb	Mar	Apr	May	Jun	Jul A	lug Se	p Oct	No	v Der
A9 Freshwater Pumping Station																								
A9-1 Civil/Structure Modification	112																							
A9-2 E&M Installation	112																						$\perp$	
A10 Administration Building & Existing Chemical Building																								
A10-1 Civil/Structure Modification	107																							
A10-2 E&M Installation	107																							
A11 Trunk Main/Utilities/Sitewide Works within WTW																								
A11-1 Mainlaying	104																							
A12 Demolition of Existing CLP Sub-station																								
A12-1 Civil/Structure Modification	108																							
A13 Extension of NTM FWPSR																							+	
A13-2 Excavation	117							11	17 1	17   11	7 1	17   11	7 117	117	117	117	117	117	117	117 1	17   11	7 117	7 11	7 11
A13-3 Foundation & Substructure	111																			111 1				
A13-4 Superstructure	111																							
A14 Slope Works, Sitewide/Utilities/Mainlaying/Road works within FWPSR					+	+	+			_	+												+-	+
A14 Slope Works, Sitewide/Utilities/Mainlaying/Road works within FWPSR	107	107	107	107	10	07 10	7   10	07																
AF1 Mainlaying works along access road between NTM WTW & FWPSR by Open Cut Method	107	107	107	107	10	10	/   1	07			_												$+\!\!-$	
	400	100	100	100	10	2 40	2 4	02																
AF1 Mainlaying works along access road between between NTM WTW & FWPSR by Open Cut Method	103	103	103	103	10	03 103	3 10	03															+-	
AF2 Laying of Fresh Water Trunk Mains along Ching Yau Road by Open Cut Method																								
AF2 Laying of Fresh Water Trunk Mains along Ching Yau Road by Open Cut Method	102																						—	
AF3 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method																								
AF3-a Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	103																							
AF3-b Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	97																							
AF3-c Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	102																						$\perp$	
Northern Link: (Ngau Tam Mei Station (NTM), Ngau Tam Mei Depot (NTD), & Mined/ D&B/ C&C Tunnel: NTD > Underground Tunnel)																								
Site Clearance, Preparation & Monitoring (NTD-2)	104																							
Site Clearance, Preparation & Monitoring (NTD-3)	104																							
Open Excavation Works (NTD-2)	101																							
Open Excavation Works (NTD-3)	101																							
Retaining Wall Construction, South (NTD RW(S)	110																							
Bored Pile Wall Construction, West (NTD BPW(W))	112																							
Foundation Works for Deck Enclosure (NTD-2)	106																							
Foundation Works for Deck Enclosure (NTD-3)																								
	106																							
Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102																							
NTD C&C Tunnel (NTD > Underground Tunnel)	108																							
D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)	102																							
NTD C&C Tunnel Backfilling (NTD > Underrgound Tunnel)	101																							
Northern Link: Long Ha Tsuen Ancillary Building (EAP/EEP)																								
Preliminary Works (AB7-a & AB7-b)	117																							
Road Works (AB7-a & AB7-b)	117																							
Cofferdam Works (AB7-b)	116																							
Retaining Walls (AB7-b)	116																							
Excavation Works (AB7-b)	116																							
Shaft D&B, Adit and Underground Tunnel Works (AB7-b)	114																							

Scenario : Mitigated Scenario

### PROPRIES OF COMPANIES OF CO	Activities				2	027								2028				
ACCOMMENDATION 1972 1973 1973 1973 1974 1974 1974 1974 1974 1974 1974 1974	Activities	SWL	Jan Feb	Mar Apr			lug	Sep	Oct	Nov	Dec Jan	Feb Mar	Apr May		Aug Sep	Oct	Nov	Dec
14   15   15   15   15   15   15   15	A9 Freshwater Pumping Station																	ı l
Modern State Ministry & Control (Michigan)  167	A9-1 Civil/Structure Modification	112															, 	1
10 To Confidence Medicinary Medic	A9-2 E&M Installation	112																ı l
No 26 Manufalishies Minister M	A10 Administration Building & Existing Chemical Building																	
No. The Man-Manifest Manifest Works within With With Manifest Manifest Works within With Manifest Mani	A10-1 Civil/Structure Modification	107															, 	1
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Not Standardey (not believe CP Sink Station (not Station CP Sink Station (not Station CP Sink Station (not Station CP Sink Station CP Sink Station (not Station CP Sink Statio	A11 Trunk Main/Utilities/Sitewide Works within WTW																	$\Box$
M. Demonstration of Relating C.F. Black assems  M. Demonstration of M. Markeline and M. M. Demonstration of M. Demonstrati		104	104 104	104 104	104 104												, 	1
No. 12 Standardown Monttowner MTM PMR64  117  117  118  119  119  119  119  119						1												
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N.3.3 Pock Statistical Control		117															, 	1
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APE Manifesying works along access road between NTM OTW & PWPSR by Open Cut Mathrod  API Manifesying works along access road between NTM OTW & PWPSR by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Group Ching Yau Read or Group Yau Read Frost NTM OTW & PWPSR by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Group Ching Yau Read or Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Read and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Read and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Read and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifes Read and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trau Read (Non-CA zeroe) by Open Cut Mathrod  API Leying of Price Water Trauk Manifest Sea and Sea Trauk Manifest Sea Trauk Manifest Sea And Sea Trauk Manifest Sea Trauk Manifest Sea Trauk Manifest Sea And Sea Trauk Manifest Sea And Sea Trauk Manifest Sea Trauk Manifest Sea Trauk Manifest S			407	107	407												ļ	1
APT Lighting works along access road between NTM WTW & TWPSR by Open Cut Method  APT Lighting of Presit Water Trunk Malein along Child yrat Road by Open Cut Method  APT Lighting of Presit Water Trunk Malein along Child yrat Road by Open Cut Method  APT Lighting of Presit Water Trunk Malein along Child yrat Road by Open Cut Method  APT Lighting of Presit Water Trunk Malein along Child yrat Road by Open Cut Method  APT Lighting of Presit Water Trunk Malein along Child yrat Road and San Tan Road (Non-CA zone) by Open Cut Method  APT Lighting works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT Lighting works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Yau Road and San Tan Road (Non-CA zone) by Open Cut Method  APT So Manifelying works between Childry Non-Childry Non-		107	107   107	107   107	107   107												ļ!	
AZ 2 Loging of Frest Water Trank Maline along Ching Yau Road by Open Cut Method  AZ 2 Loging of Frest Water Trank Maline along Ching Yau Road by Open Cut Method  AZ 2 Loging of Frest Water Trank Maline along Ching Yau Road on Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Ching Yau Road and Star Trank Road (Minor A zono) by Open Cut Method  AZ 3-1 Mainlaying works between Chi	AF1 Mainlaying works along access road between NTM WTW & FWPSR by Open Cut Method																	ı l
A72 Laying of Frien' Water Trunk Mains along Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  A73-Mainlaying works between Ching	AF1 Mainlaying works along access road between between NTM WTW & FWPSR by Open Cut Method	103															ļ	igsquare
AF3 Mainlaying works between Ching Yau Read and San Tam Road (Non-CA zone) by Open Cut Method  AF3-3 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  103  AF3-3 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  105  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  106  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  107  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  108  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  109  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  108  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  109  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  109  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  109  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  104  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  105  AF3-6 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method  105  AF3-6 Mainlay	AF2 Laying of Fresh Water Trunk Mains along Ching Yau Road by Open Cut Method																	1
AF3-4 Mainisying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Culf Method 97 AF3-4 Mainisying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Culf Method 97 AF3-4 Mainisying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Culf Method 102  Northern Link: (Neu Tam Med Station (NTM), Ngou Tam Med Depot (NTD), & Minedr D&B/ C&C Tunnel: NTD > Underground Tunnel)  Site Clearance, Preparation & Monitoring (NTD-2)  104 Site Clearance, Preparation & Monitoring (NTD-3) 105 Site Clearance, Preparation & Monitoring (NTD-3) 106 Site Clearance, Preparation & Monitoring (NTD-3) 107 Quen Excavarion Works, (NTD-3) 108 Roading Wall Constructors, South (NTD RWI)S 109 Seep File Wall Constructors, South (NTD RWI)S 100 Seep File Wall Constructors, South (NTD RWI)S 101 Seep File Wall RWI Seep File Wall RWI Seep File Wall RWI Seep File Wall RWI	AF2 Laying of Fresh Water Trunk Mains along Ching Yau Road by Open Cut Method	102				102 1	02	102 1	102	102	102 102	102 102					ļ	1
AF3-b Mainleying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method 102  Northern Link: (Ngau Tam Mel Station (NTM), Ngau Tam Mel Depot (NTD), & Mined/ D&B/ C&C Tunnel: NTD > Underground Tunnel) Sile Clearance, Proparation & Monitoring (NTD-2) Sile Clearance, Proparation & Monitoring (NTD-2) 104 Sile Clearance, Proparation & Monitoring (NTD-2) 105 Sile Clearance, Proparation & Monitoring (NTD-2) 106 Cyen Execution Works (NTD-2) 107 Cyen Execution Works (NTD-2) 108 Sociel Pilo Wall Construction, South IND RWS) 109 Sociel Pilo Wall Construction, Works (NTD-2) 109 Sociel Pilo Wall Construction, Works (NTD-2) 100 Sociel Pilo Wall Construction, Works (NTD-2) 101 Sociel Pilo Wall Construction, Works (NTD-2) 102 Sociel Pilo Wall Construction, Works (NTD-2) 103 Sociel Pilo Wall Construction, Works (NTD-2) 104 Sociel Pilo Wall Construction, Works (NTD-2) 105 Sociel Pilo Wall Construction, Works (NTD-2) 106 107 107 107 108 108 109 109 109 109 109 109 109 109 109 109	AF3 Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method																	
AF3-c Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zona) by Open Cut Method 102  Northern Link: (Ngau Tam Mel Station (NTM), Ngau Tam Mel Depot (NTD), & Mined/ D&B/ C&C Tunnel: NTD > Underground Tunnel)  Site Clearance, Preparation & Monitoring (NTD-2)  104  Site Clearance, Preparation & Monitoring (NTD-3)  104  Open Excavation Works (NTD-3)  105  Open Excavation Works (NTD-3)  106  Open Excavation Works (NTD-3)  107  Open Excavation Works (NTD-3)  108  Serial Pile Wall Construction, South (NTD RWS)  109  Serial Pile Wall Construction, West (NTD BPW)(W))  110  110  110  110  110  110  110	AF3-a Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	103																1
Northern Link: (Ngau Tam Mel Station (NTM), Ngau Tam Mei Depot (NTD), & Minedi D&B/ C&C Tunnel: NTD > Underground Tunnel)  Site Clearance, Preparation & Monitoring (NTD-2)  104  Site Clearance, Preparation & Monitoring (NTD-3)  104  Site Clearance, Preparation & Monitoring (NTD-3)  105  Site Clearance, Preparation & Monitoring (NTD-2)  106  Retaining Wall Construction, South (NTD RWIS)  107  Retaining Wall Construction, South (NTD RWIS)  108  Bened Pile Wall Construction, South (NTD RWIS)  109  Foundation Works for Deck Enclosure (NTD-2)  100  Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)  107  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  108  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  109  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  101  102  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  103  104  104  105  106  107  107  107  107  108  109  109  109  109  109  100  100	AF3-b Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	97																1
Site Clearance, Preparation & Monitoring (NTD-2)  Site Clearance, Preparation & Monitoring (NTD-3)  Open Excavation Works (NTD-2)  Open Excavation Works (N	AF3-c Mainlaying works between Ching Yau Road and San Tam Road (Non-CA zone) by Open Cut Method	102															, 	1
Site Clearance, Preparation & Monitoring (NTD-3)  104  Open Excavation Works (NTD-2)  105  Open Excavation Works (NTD-3)  106  Open Excavation Works (NTD-3)  107  Open Excavation Works (NTD-3)  108  Bored Pile Wall Construction, South (NTD RW(S))  110  110  110  110  110  110  110	Northern Link: (Ngau Tam Mei Station (NTM), Ngau Tam Mei Depot (NTD), & Mined/ D&B/ C&C Tunnel: NTD > Underground Tunnel)																	
Open Excavation Works (NTD-2)         101         10	Site Clearance, Preparation & Monitoring (NTD-2)	104																1
Open Excavation Works (NTD-2)         101         10	Site Clearance, Preparation & Monitoring (NTD-3)	104																1
101   101						101 1	01	101 1	101	101	101 101	101 101						1
Retaining Wall Construction, South (NTD RW(S))  110  Bored Pile Wall Construction. West (NTD BPW(W))  112  Foundation Works for Deck Enciosure (NTD-2)  106  Foundation Works for Deck Enciosure (NTD-2)  106  Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)  NTD C&C Tunnel RYTD Underground Tunnel (NTD > Underground Tunnel)  NTD C&C Tunnel RYTD Underground Tunnel)  NOTHER Like Long Ha Tsuen Ancillary Building (EAP/EEP)  Preliminary Works (AB7-a & AB7-b)  Cofferdam Works (AB7-b)  110  110  110  110  110  110  110  1		101																1
Bored Pile Wall Construction, West (NTD BPW(W))   112   11																	, 	1
Foundation Works for Deck Enclosure (NTD-2)  106  106  Foundation Works for Deck Enclosure (NTD-3)  106  106  Incomplete (NTD > Underground Tunnel (NTD > Underground Tunnel)  102  NTD C&C Tunnel (NTD > Underground Tunnel)  103  NORTHER Link: Long Ha Tsuen Ancillary Building (EAP/EEP)  Preliminary Works (AB7-a & AB7-b)  Cofferdam Works (AB7-b)  106  106  106  106  106  106  106  10												110 110						1
Foundation Works for Deck Enclosure (NTD-3)  106  Mined Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)  102  NTD C&C Tunnel (NTD > Underground Tunnel (NTD > Underground Tunnel)  103  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  104  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  105  Northern Link: Long Ha Tsuen Ancillary Building (EAP/EEP)  Preliminary Works (AB7-a & AB7-b)  Cofferdam Works (AB7-b)  116  106  106  106  106  106  106  10												106 106					ļ	i I
Mined Tunnel (NTD > Underground Tunnel (NTD > Underground Tunnel)  102  NTD C&C Tunnel (NTD > Underground Tunnel)  103  D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)  104  NTD C&C Tunnel (NTD > Underground Tunnel)  105  NORTHOR Link: Long Ha Tsuen Ancillary Building (EAP/EEP)  Preliminary Works (AB7-a & AB7-b)  Road Works (AB7-a & AB7-b)  116  102  103  104  105  107  108  109  109  100  101  101  101  101																	ļ	i I
NTD C&C Tunnel (NTD > Underground Tunnel)       108         D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)       102         NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)       101         Northern Link: Long Ha Tsuen Ancillary Building (EAP/EEP)         Preliminary Works (AB7-a & AB7-b)       117         Road Works (AB7-a & AB7-b)       116         Cofferdam Works (AB7-b)       116												100 100					ļ	i I
D&B Tunnel NTD to Underground Tunnel (NTD > Underground Tunnel)  102  NTD C&C Tunnel Backfilling (NTD > Underground Tunnel)  101  Northern Link: Long Ha Tsuen Ancillary Building (EAP/EEP)  Preliminary Works (AB7-a & AB7-b)  Road Works (AB7-a & AB7-b)  Cofferdam Works (AB7-b)  116						102	02	102	102	102	102						ļ	1 1
NTD C&C Tunnel Backfilling (NTD > Underrgound Tunnel)       101											102 102	102 102					ļ	1
Northern Link: Long Ha Tsuen Ancillary Building (EAP/EEP)         117           Preliminary Works (AB7-a & AB7-b)         117           Road Works (AB7-a & AB7-b)         117           Cofferdam Works (AB7-b)         116						101 4	04	101	104				1 1				ļ	1
Preliminary Works (AB7-a & AB7-b)         117           Road Works (AB7-a & AB7-b)         117           Cofferdam Works (AB7-b)         116		101				101 1	UI	101	IUT	101	101   101	101   101					ļ	1
Road Works (AB7-a & AB7-b) Cofferdam Works (AB7-b) 116																	, 1	( I
Cofferdam Works (AB7-b)																	ļ	1 1
	Road Works (AB7-a & AB7-b)	117															ļ	<sub>1</sub> 1
Potaining Wolle (AR7 b)	Cofferdam Works (AB7-b)	116															ļ	1
	Retaining Walls (AB7-b)	116															ļ	<sub>1</sub> 1
Excavation Works (AB7-b) 116 116 116 116	Excavation Works (AB7-b)	116				116 1	16	116									, 1	1 1
Shaft D&B, Adit and Underground Tunnel Works (AB7-b)  114 114 114 114 114 114 114	Shaft D&B, Adit and Underground Tunnel Works (AB7-b)	114						1	114	114	114 114	114 114					ļ	<sub>1</sub>

## Scenario: Mitigated Scenario

Activities							2025										202	26				
	SWL	Jan	Feb	Mar	۹pr ۱	/lay Ju	n Jul	Aug	Sep	Oct	Nov De	. Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep (	Oct N	Nov Dec
Predicted Construction Noise, dB(A)																						
NSR	Max																					
NTM01	70	65	65	65	65	65 65	65	65	65	68	68 68	68	68	68	68	68	68	68	68	68	68 6	68 68
NTM02	68	59	59	59	59	59 59	60	60	60	66	66 66	66	66	66	67	67	67	67	67	67	67 6	67
NTM03	64	64	64	64	64	64 64	64	64	64	64	64 64	64	64	64	64	64	64	64	64	64	64 f	64 64
NTM04	64	61	61	61	61	61 61	63	63	63	63	63 63	63	63	63	64	64	64	64	64	64	64 6	64 64
NTM05	65	57	57	57	57	57 57	64	64	64	64	64 64	64	64	64	65	65	65	65	65	65	65 6	65 65
SW01	67	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0
SW02	74	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0
LH01	75	0	0	0	0	0 0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	0 0

- Notes.
  [1] For the modification of Chamber G, as activities G1 to G3 will be located undergorund, airborne construction noise is not anticipated.
  [2] For concurrent projects, only construction activities that overlap with the construction works of the Project are included in this assessment.
  [3] No PMEs will be involved for E&M works of NTM FWPSR (under PER).
  [4] The SWLs for construction activities of Northern Link are extracted from the approved Northern Link EIA report (AEIAR-259/2024).
  [5] According to Northern Link EIA, "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel (NTD > Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.

#### Predicted Construction Noise from Project itself, dB(A)

NSR	Max																							
NTM01	65	65	65	65	65	65	65	65	65 6	5 65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
NTM02	59	59	59	59	59	59	59	59	59 5	9 59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
NTM03	64	64	64	64	64	64	64	64	64 6	4 64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
NTM04	57	57	57	57	57	57	57	57	57 5	7 57	7 57	57	57	57	57	57	57	57	57	57	57	57	57	57
NTM05	49	49	49	49	49	49	49	49	49 4	9 49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
SW01	65	0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SW02	74	0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LH01	74	0	0	0	0	0	0	0	0 (	0 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A.L. I																						•	*	•

[1] For the modification of Chamber G, as activities G1 to G3 will be located underground, airborne construction noise is not anticipated.

Scenario: Mitigated Scenario

Activities							202	27								2028			
	SWL	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov D	ec Ja	n Feb	Mar Apr Mag	/ Jun Jul	Aug Se	p Oct Nov	Dec
Predicted Construction Noise, dB(A)																			
NSR	Max																		
NTM01	70	70	70	70	70	70	70	0	0	0	0	0	) (	0	0				
NTM02	68	68	68	68	68	68	68	0	0	0	0	0	) (	0	0				
NTM03	64	64	64	64	64	64	64	0	0	0	0	0	) (	0	0				
NTM04	64	61	61	61	61	61	61	0	0	0	0	0	) (	0	0				
NTM05	65	60	60	60	60	60	60	0	0	0	0	0	) (	0	0				
SW01	67	0	0	0	0	0	0	67	67	67	67	67 6	7 6	7 66	66				
SW02	74	0	0	0	0	0	0	74	74	74	74	74 7	4 7	74	74				
LH01	75	0	0	0	0	0	0	75	75	75	75	75 7	5 7	75	75				

- In For the modification of Chamber G, as activities G1 to G3 will be located undergorund, airborne construction noise is not anticipated.

  [2] For concurrent projects, only construction activities that overlap with the construction works of the Project are included in this assessment.

  [3] No PMEs will be involved for E&M works of NTM FWPSR (under PER).

  [4] The SWLs for construction activities of Northern Link are extracted from the approved Northern Link EIA report (AEIAR-259/2024).

  [5] According to Northern Link EIA, "Mined Tunnel NTD to Underrgound Tunnel (NTD > Underrgound Tunnel NTD to Underrgound Tunnel)" will not take place concurrently. The worst case is adopted for calculation.

## Predicted Construction Noise from Project itself, dB(A)

NSR	Max
NTM01	65 65 65 65 65 65 0 0 0 0 0 0 0
NTM02	59 59 59 59 59 59 59 0 0 0 0 0 0 0
NTM03	64 64 64 64 64 64 0 0 0 0 0 0 0
NTM04	57 57 57 57 57 57 57 0 0 0 0 0 0 0
NTM05	49 49 49 49 49 49 0 0 0 0 0 0 0
SW01	65 0 0 0 0 0 65 65 65 65 65 65 65 65
SW02	74 0 0 0 0 0 74 74 74 74 74 74 74 74 74
LH01	74 0 0 0 0 0 74 74 74 74 74 74 74 74 74
A1 (	

[1] For the modification of Chamber G, as activities G1 to G3 will be located underground, airborne construction noise is not anticipated.