

Annex B7

Construction Noise Impact Assessment (Mitigated)

Annex B7-a

Construction Airborne Noise Impact Assessment (Mitigated)

NSR: HK3 Kaw Liu Village

No.	Activity Description	SWL dB(A) ^[2]	Distance m	Corr. for distance dB(A) ^{[1][2]}	Corr. for façade dB(A)	2012		2013				2014				2015				2016				2017	
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
<u>DESIGNATED PROJECT</u>																									
<u>Regulation of Shenzhen River Stage IV</u>																									
I	Site Preparation																								
	1 Site Clearance	101	36	-39	3																				
	2 Haul Road	106	36	-39	3																				
IV	Works Area III																								
	11 River Excavation (Sediment)	110	210	-54	3															58	58				
	12 Haul Road	106	210	-54	3															55	55				
	13 Excavation and River Training	108	210	-54	3															56	56				
	14 Landscaping	108	210	-54	3																56				
V	Works Area IV																								
	15 River Excavation (Sediment)	105	36	-39	3															69	69				
	16 Haul Road	106	36	-39	3															70	70				
	17 Excavation and River Training	106	36	-39	3															70	70				
	18 Landscaping	105	36	-39	3																69				
VI	Others																								
	19 Reprovisioning Works	105	36	-39	3																69				
VII	Advanced Works																								
	20 Backfilling	101	36	-39	3	65	65	65	65																
	21 Road Construction	104	36	-39	3				67	67	67														
	22 Fence Installation	102	36	-39	3					66	66	66	66	66											
	23 Drainage / Sinage Works	107	36	-39	3							71	71	71	71										
<u>CONCURRENT PROJECTS</u>																									
<u>Construction of a Secondary Boundary Fence and New Sections of Primary Boundary Fence and Boundary Patrol Road (AEIAR-136/2009)</u>																									
	24 Construction Activities (Section 3 - Ng Tung River to Ping Yuen River)	104	718	-65	3	42	42	42	42																
	25 Construction Activities (Section 3 - Pak Fu Shan to Lin Ma Hang Road)	104	2340	-75	3	32	32	32	32	32	32	32													
<u>Agreement No. CE 45/2008 (CE) Liantang/Heung Yuen Wai Boundary Crossing Point and Associated Works^[3]</u>																									
	26 BCP Site Formation																								
	27 Lin Ma Hang Road next to BCP																								
	28 Chuk Yuen Village Access Road																								
	29 Lin Ma Hang Road Improvement Work																								
	30 Viaduct Section from BCP to Wo Keng Shan																								
Predicted Noise Levels during Daytime Period, dB(A)						65	65	69	71	70	72	72	72	71	71	75	75	73	73	73	75	75	69		
Predicted Cumulative Noise Levels during Daytime Period, dB(A)						65	65	69	71	70	73	73	73	72	72	75	75	74	74	74	75	75	70		
Predicted Noise Level due to Advanced Works only, dB(A)						65	65	69	71	70	66	72	72	71	71										

Notes:

[1] Distance Correction for PMEs = 10*log(2*PI*r²)

[2] The figures are rounded-up to a whole number.

[3] The maximum predicted noise levels due to Activities 26 to 30 were extracted from the Environmental Impact Assessment Report for Liantang/Heung Yuen Wai Boundary Crossing Point and Associated Works (LT/HYW EIA Report) dated August 2010.

- HK1 refers to TYH in the LT/HYW EIA Report

- HK2 refers to Chuen Yuen, which should be moved up on the commencement of LT/HYW.

- HK3 refers to KL1 in the LT/HYW EIA Report

- HK4 does not have relevant NSRs in the LT/HYW EIA Report

- HK5 refers to TKL1 in the LT/HYW EIA Report

i) Maximum predicted noise levels for Activities 26 & 27 were extracted from Appendix 4.4b2 of the LT/HYW EIA Report for TYH (ie HK1).

ii) Maximum predicted noise levels for Activities 28 to 30 were extracted from Appendix 4.4g2 of the LT/HYW EIA Report for KL1 & TKL1 (ie HK3 & HK5 respectively).

Annex B7-b

Construction Airborne Noise Impact Assessment (Mitigated)

NSR: HK5 Ta Kwu Ling Village

No.	Activity Description	SWL dB(A) ^[2]	Distance m	Corr. for distance dB(A) ^{[1][2]}	Corr. for façade dB(A)	2012				2013				2014				2015				2016				2017			
						Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
						DESIGNATED PROJECT																							
Regulation of Shenzhen River Stage IV																													
I	Site Preparation																												
1	Site Clearance	101	62	-44	3																								
2	Haul Road	106	62	-44	3																								
IV	Works Area III																												
11	River Excavation (Sediment)	110	360	-59	3																								
12	Haul Road	106	360	-59	3																								
13	Excavation and River Training	108	360	-59	3																								
14	Landscaping	108	360	-59	3																								
V	Works Area IV																												
15	River Excavation (Sediment)	105	62	-44	3																								
16	Haul Road	106	62	-44	3																								
17	Excavation and River Training	106	62	-44	3																								
18	Landscaping	105	62	-44	3																								
VI	Others																												
19	Reprovisioning Works	105	62	-44	3																								
VII	Advanced Works																												
20	Backfilling	101	62	-44	3	60	60	60	60																				
21	Road Construction	104	62	-44	3					63	63	63																	
22	Fence Installation	102	62	-44	3								61	61	61	61	61												
23	Drainage / Sinage Works	107	62	-44	3																								
CONCURRENT PROJECTS																													
Construction of a Secondary Boundary Fence and New Sections of Primary Boundary Fence and Boundary Patrol Road (AEIAR-136/2009)																													
24	Construction Activities (Section 3 - Ng Tung River to Ping Yuen River)	104	449	-61	3	46	46	46	46																				
25	Construction Activities (Section 3 - Pak Fu Shan to Lin Ma Hang Road)	104	2758	-77	3	30	30	30	30	30	30	30																	
Agreement No. CE 45/2008 (CE) Liantang/Heung Yuen Wai Boundary Crossing Point and Associated Works^[3]																													
26	BCP Site Formation																												
27	Lin Ma Hang Road next to BCP																												
28	Chuk Yuen Village Access Road																												
29	Lin Ma Hang Road Improvement Work																												
30	Viaduct Section from BCP to Wo Keng Shan																												
Predicted Noise Levels during Daytime Period, dB(A)						60	60	65	66	65	68	68	68	67	67	70	70	68	68	68	70	70	70	70	65				
Predicted Cumulative Noise Levels during Daytime Period, dB(A)						61	61	65	66	65	73	73	73	72	72	74	74	73	73	73	70	70	70	70	65				
Predicted Noise Level due to Advanced Works only, dB(A)						60	60	65	66	65	61	68	68	67	67														

Notes:

- [1] Distance Correction for PMEs = 10*log(2*PI*r²)
- [2] The figures are rounded-up to a whole number.
- [3] The maximum predicted noise levels due to Activities 26 to 30 were extracted from the *Environmental Impact Assessment Report for Liantang/Heung Yuen Wai Boundary Crossing Point and Associated Works* (LT/HYW EIA Report) dated August 2010.
 - HK1 refers to TYH in the LT/HYW EIA Report
 - HK2 refers to Chuen Yuen, which should be moved up on the commencement of LT/HYW.
 - HK3 refers to KL1 in the LT/HYW EIA Report
 - HK4 does not have relevant NSRs in the LT/HYW EIA Report
 - HK5 refers to TKL1 in the LT/HYW EIA Report
- i) Maximum predicted noise levels for Activities 26 & 27 were extracted from Appendix 4.4b2 of the LT/HYW EIA Report for TYH (ie HK1).
- ii) Maximum predicted noise levels for Activities 28 to 30 were extracted from Appendix 4.4g2 of the LT/HYW EIA Report for KL1 & TKL1 (ie HK3 & HK5 respectively).