Appendix G - Noise Monitoring Results

Location NC1	Location NC1 - True Light Middle School of Hong Kong										
						Unit: dB (A)	(30-min)	Construction Noise Level L eq 67.5 Measured ≤ Limit Level 60.6 63.3			
Date	Date Time Weathe			sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	17:00	Cloudy	67.5	68.2	61.7	70.0	N/A	67.5 Measured ≤ Limit Level			
12-May-11	13:00	Cloudy	71.2	72.5	68.7	70.0	70.8	60.6			
16-May-11	17:00	Cloudy	70.6	72.4	64.1	70.0	69.7	63.3			
26-May-11	16:50	Sunny	66.2	67.3	63.0	70.0	N/A	66.2 Measured ≤ Limit Level			

Location NC2	Location NC2 - The Legend										
			Unit: dB (A) (30-min)								
Date	Time	Weather	Mea	sured Noise	Level	Limit Level	Baseline Level	Construction Noise Level			
		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}				
4-May-11	16:20	Cloudy	67.4	69.1	63.7		N/A	67.4 Measured ≤ Limit Level			
12-May-11	13:41	Cloudy	70.5	72.3	68.5	75.0	N/A	70.5 Measured ≤ Limit Level			
16-May-11	16:15	Cloudy	69.2	72.1	65.6	75.0	N/A	$69.2 \ \text{Measured} \le \text{Limit Level}$			
26-May-11	16:05	Sunny	64.3	66.2	61.5		N/A	64.3 Measured ≤ Limit Level			

Location NC3 - Outside Aegean Terrace										
						Unit: dB (A)	(30-min)	Construction Noise Level L eq 52.3 Measured ≤ Limit Level 53.6 Measured ≤ Limit Level		
Date	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level		
_ 5.0			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq} L _{eq}	L _{eq}		
4-May-11	8:00	Sunny	53.2	55.6	47.8		N/A	52.3 Measured ≤ Limit Level		
12-May-11	8:20	Sunny	53.6	55.8	47.9	75.0	N/A	53.6 Measured ≤ Limit Level		
16-May-11	8:10	Cloudy	51.5	55.2	48.1	75.0	N/A	51.5 Measured ≤ Limit Level		
26-May-11	8:00	Sunny	51.9	55.6	48.2		N/A	51.9 Measured ≤ Limit Level		

Location NC4	Location NC4 - Man Yuen Garden										
						Unit: dB (A)	(30-min)	Construction Noise Level L_{eq} 71.2 Measured \leq Limit Level 71.2 Measured \leq Limit Level 69.7 Measured \leq Limit Level			
Date	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	13:05	Sunny	71.2	74.3	65.9		N/A	71.2 Measured ≤ Limit Level			
12-May-11	13:00	Sunny	71.2	74.8	66.9	75.0	N/A	71.2 Measured ≤ Limit Level			
16-May-11	13:00	Cloudy	69.7	72.3	64.9] '3.0	N/A	69.7 Measured ≤ Limit Level			
26-May-11	11:30	Sunny	68.7	72.1	62.9		N/A	$68.7 \ \text{Measured} \leq \text{Limit Level}$			

Location NC5	Location NC5 - Blk D Villa Monte Rosa										
			Unit: dB (A) (30-min)								
Date	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	9:30	Sunny	65.7	68.6	59.2		N/A	65.7 Measured ≤ Limit Level			
12-May-11	9:50	Sunny	69.2	70.8	61.4	75.0	N/A	69.2 Measured ≤ Limit Level			
16-May-11	9:40	Cloudy	67.3	70.1	61.5	75.0	N/A	67.3 Measured ≤ Limit Level			
26-May-11	9:30	Sunny	66.7	70.2	61.5		N/A	66.7 Measured \leq Limit Level			

Location NC6 - Rosaryhill School										
						Unit: dB (A)	(30-min)	$\begin{array}{c} \text{Construction Noise Level} \\ \text{L_{eq}} \\ \text{64.5 Measured} \leq \text{Limit Level} \\ \text{64.5 Measured} \leq \text{Limit Level} \\ \end{array}$		
Date Time We		Weather	Mea	sured Noise	Level	Limit Level	Baseline Level	Construction Noise Level		
		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	10:05	Sunny	64.5	67.2	60.3	70.0	N/A	64.5 Measured ≤ Limit Level		
12-May-11	10:25	Sunny	64.5	67.2	60.1	70.0	N/A	64.5 Measured ≤ Limit Level		
16-May-11	10:20	Cloudy	65.1	66.8	59.5	70.0	N/A	65.1 Measured ≤ Limit Level		
26-May-11	10:05	Sunny	63.8	67.3	60.2	70.0	N/A	63.8 Measured ≤ Limit Level		

Location NC7 - Buddist Li Ka Shing Care & Attention Home for the Elderly										
						Unit: dB (A)	(30-min)			
Date	Time	Weather	Measured Noise Level Limit Level Baseline Level Construction Noise					Construction Noise Level		
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}		
4-May-11	15:25	Cloudy	70.3	72.6	65.7		N/A	70.3 Measured ≤ Limit Level		
12-May-11	16:30	Cloudy	71.8	73.3	69.8	75.0	N/A	71.8 Measured ≤ Limit Level		
16-May-11	15:15	Sunny	70.1	73.0	64.2	75.0	N/A	70.1 Measured ≤ Limit Level		
26-May-11	15:20	Sunny	75.1	76.0	74.0		65.4	74.6		

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Location NC8 - Marymount Secondary School										
						Unit: dB (A)	(30-min)	$\begin{array}{c} \text{Construction Noise Level} \\ \text{L}_{\text{eq}} \\ \text{66.5 Measured} \leq \text{Limit Level} \\ \text{64.8 Measured} \leq \text{Limit Level} \\ \text{66.2 Measured} \leq \text{Limit Level} \\ \end{array}$		
Date	Time	Weather	Measured Noise Level Limit Level Baseline Level Construction					Construction Noise Level		
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}		
4-May-11	13:55	Cloudy	66.5	68.2	60.8	70.0	N/A	66.5 Measured ≤ Limit Level		
12-May-11	14:30	Cloudy	64.8	68.3	59.2	70.0	N/A	64.8 Measured ≤ Limit Level		
16-May-11	14:25	Cloudy	66.2	68.0	61.6	70.0	N/A	66.2 Measured ≤ Limit Level		
26-May-11	14:25	Sunny	67.0	69.6	61.4	70.0	N/A	67.0 Measured ≤ Limit Level		

Location NC9	Location NC9 - 117 Blue Pool Road											
						Unit: dB (A)	(30-min)	L_{eq} 68.3 Measured \leq Limit Level				
Date	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}				
4-May-11	14:35	Cloudy	68.3	69.4	60.4		N/A	68.3 Measured ≤ Limit Level				
12-May-11	15:03	Cloudy	73.1	75.2	69.7	75.0	N/A	73.1 Measured ≤ Limit Level				
16-May-11	13:45	Sunny	67.0	69.3	63.7	75.0	N/A	67.0 Measured ≤ Limit Level				
26-May-11	13:50	Sunny	71.7	73.1	61.0	1	N/A	71.7 Measured ≤ Limit Level				

Location NC10 - The Harbour View										
						Unit: dB (A)	(30-min)	$\begin{array}{c} \text{Construction Noise Level} \\ \text{L_{eq}} \\ \hline \text{72.4 Measured} \leq \text{Limit Level} \\ \hline \text{70.8 Measured} \leq \text{Limit Level} \\ \hline \text{71.1 Measured} \leq \text{Limit Level} \\ \end{array}$		
Date	Date Time Weather		Mea	sured Noise	Level	Limit Level	Baseline Level	Construction Noise Level		
		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	11:10	Sunny	72.4	74.7	68.2		N/A	72.4 Measured ≤ Limit Level		
12-May-11	11:30	Sunny	70.8	73.7	66.5	75.0	N/A	70.8 Measured ≤ Limit Level		
16-May-11	11:20	Cloudy	71.1	74.6	67.3	75.0	N/A	71.1 Measured ≤ Limit Level		
26-May-11	11:10	Sunny	70.1	73.2	66.8		N/A	70.1 Measured ≤ Limit Level		

Location NC1	Location NC11 - Honey Court										
						Unit: dB (A)	(30-min)	$\begin{array}{c} \text{$L$ _{eq}$} \\ \text{67.2 Measured} \leq \text{Limit Level} \\ \text{66.8 Measured} \leq \text{Limit Level} \end{array}$			
Date Time	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	$\begin{array}{c} \text{$L$ _{eq}$} \\ \text{67.2 Measured} \leq \text{L imit Level} \end{array}$			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	8:40	Sunny	67.2	69.4	63.1		N/A	67.2 Measured ≤ Limit Level			
12-May-11	9:00	Sunny	66.8	69.2	61.4	75.0	N/A	66.8 Measured ≤ Limit Level			
16-May-11	8:50	Cloudy	66.2	68.8	62.1] '3.0	N/A	66.2 Measured ≤ Limit Level			
26-May-11	8:40	Sunny	66.9	69.8	61.9		N/A	66.9 Measured ≤ Limit Level			

Location NC1	Location NC12 - Ying Wa Girl's School										
						Unit: dB (A)	(30-min)				
Date	Time	Weather	Mea	Measured Noise Level			Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	13:50	Sunny	64.9	68.1	61.2	70.0	N/A	64.9 Measured ≤ Limit Level			
12-May-11	13:45	Sunny	66.1	68.9	62.6	70.0	N/A	66.1 Measured ≤ Limit Level			
16-May-11	13:45	Cloudy	66.2	69.4	63.2	70.0	N/A	66.2 Measured ≤ Limit Level			
26-May-11	13:00	Sunny	65.2	67.3	61.4	70.0	N/A	65.2 Measured ≤ Limit Level			

Location NC13 - Peaksville Court											
				Unit: dB (A) (30-min)							
Date	Time	Weather	Mea	Measured Noise Level Limit Level Baseline Level		Construction Noise Level					
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	14:25	Sunny	68.9	71.2	62.3		N/A	68.9 Measured ≤ Limit Level			
12-May-11	14:30	Sunny	65.7	69.2	61.3	75.0	N/A	65.7 Measured ≤ Limit Level			
16-May-11	14:30	Sunny	65.3	69.2 60.2 75.0 N/A 6		65.3 Measured ≤ Limit Level					
26-May-11	14:30	Sunny	63.2								

Appendix G - Noise Monitoring Results

Location NC14 - Hong Kong Japanese School											
			Unit: dB (A) (30-min)								
Date	Time	Weather	Mea	Measured Noise Level Limit Level Ba		Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	13:00	Cloudy	65.9	69.5	63.2	70.0	N/A	65.9 Measured ≤ Limit Level			
12-May-11	15:43	Cloudy	64.5	69.4	62.5	70.0	N/A	64.5 Measured ≤ Limit Level			
16-May-11	13:00	Cloudy	64.9	69.7	62.5	70.0	N/A	64.9 Measured ≤ Limit Level			
26-May-11	13:00	Sunny	64.3	65.1	59.3	70.0	N/A	$64.3 \ \text{Measured} \leq \text{Limit Level}$			

Location NC1	5 - Hong Ko	ng Academy										
				Unit: dB (A) (30-min)								
Date	Time	Weather	Mea	sured Noise	Level	Limit Level	Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}				
4-May-11	17:35	Sunny	67.1	68.7	61.8	70.0	N/A	67.1 Measured ≤ Limit Level				
12-May-11	17:30	Sunny	66.4	68.5	62.4	70.0	N/A	66.4 Measured ≤ Limit Level				
16-May-11	17:45	Cloudy	65.1	67.7	61.8	70.0	N/A	65.1 Measured ≤ Limit Level				
26-May-11	17:00	Sunny	65.2	69.3	60.9	70.0	N/A	65.2 Measured ≤ Limit Level				

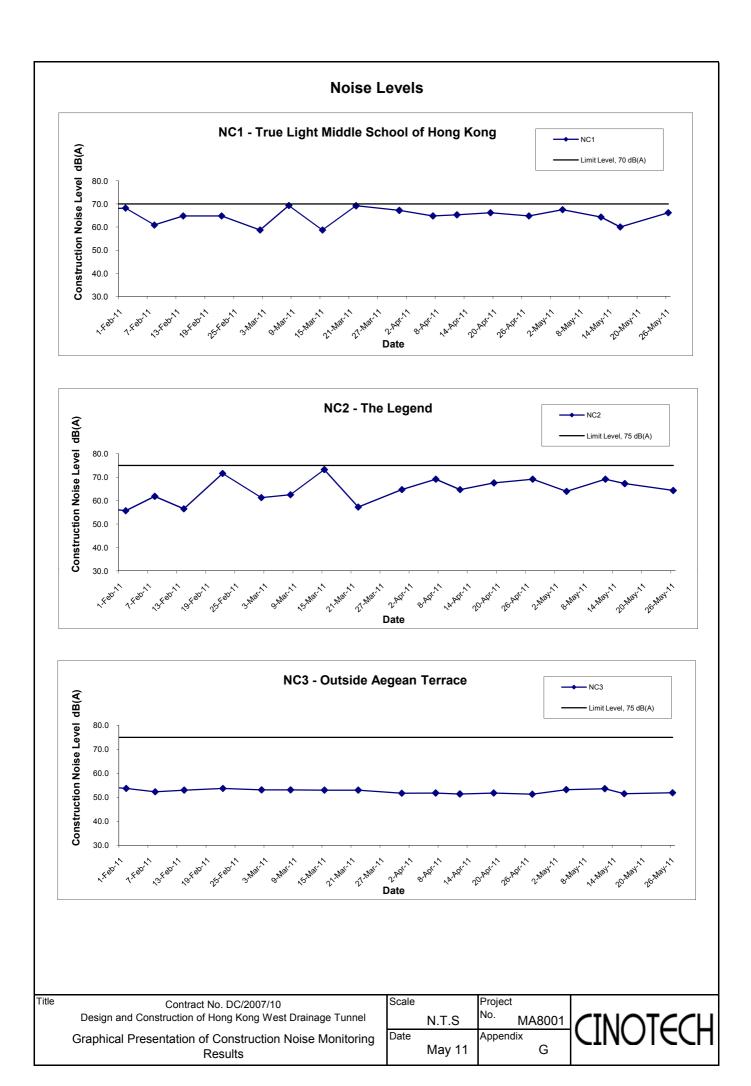
Location NC16 - Raimondi College										
						Unit: dB (A)	(30-min)			
Date	Time	Weather	Mea	Measured Noise Level Limit Level Baseline Level Construction No				Construction Noise Level		
			L eq	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}		
4-May-11	15:15	Sunny	64.5	66.5	57.7	70.0	N/A	64.5 Measured ≤ Limit Leve		
12-May-11	15:15	Sunny	63.9	66.2	58.1	70.0	N/A	63.9 Measured ≤ Limit Leve		
16-May-11	15:20	Cloudy	63.1	66.7	58.2	70.0	N/A	63.1 Measured ≤ Limit Leve		
26-May-11	13:45	Sunny	63.2	67.8	59.4	70.0	N/A	63.2 Measured ≤ Limit Leve		

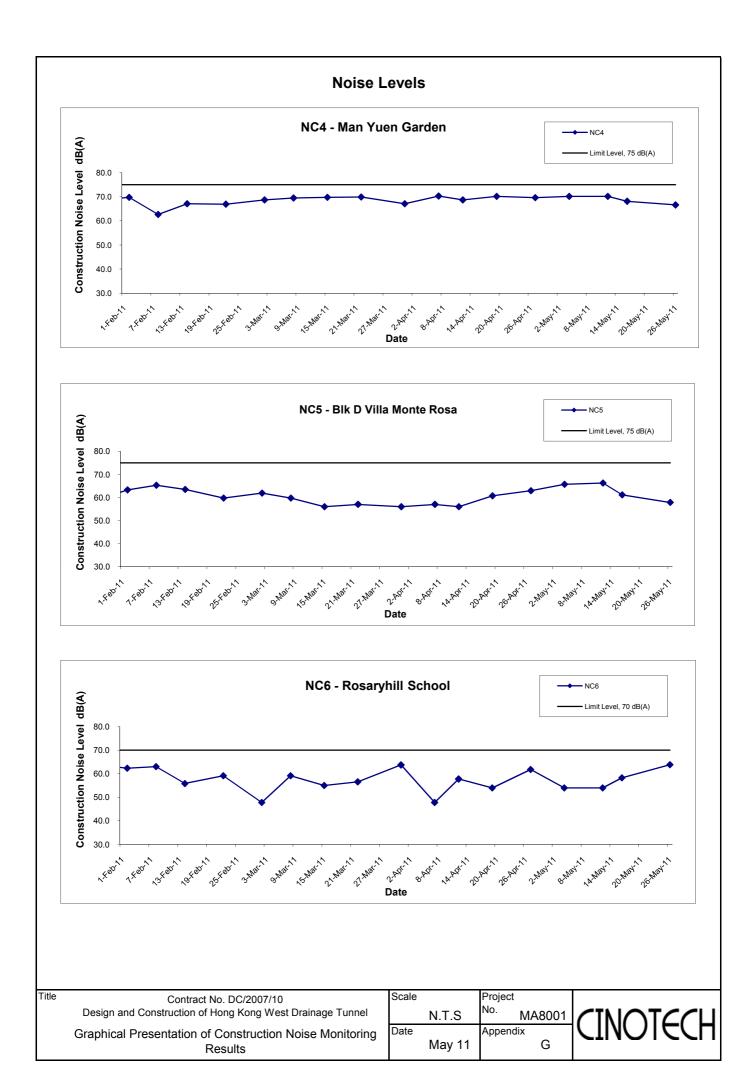
Location NC17 - Hong Kong Institute of Technology											
				Unit: dB (A) (30-min)							
Date	Time	Weather	Mea	Measured Noise Level Limi			Baseline Level	Construction Noise Level			
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	16:05	Sunny	67.5	72.1	64.2	70.0	N/A	67.5 Measured ≤ Limit Level			
12-May-11	16:05	Sunny	67.2	72.3	64.7	70.0	N/A	67.2 Measured ≤ Limit Level			
16-May-11	16:10	Cloudy	67.2 72.3 64.7 70.0 N/A 67.2 Measured ≦ Limit Leve								
26-May-11	15:15	Sunny	68.2								

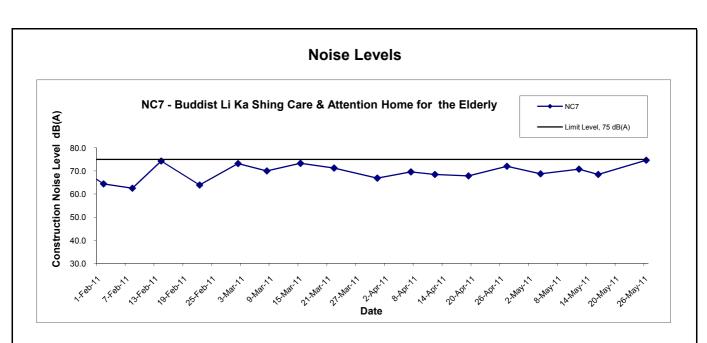
Location NC18 - Blk A, 80 Robinson Road										
				Unit: dB (A) (30-min)						
Date	Time	Weather	Mea	sured Noise I	Level	Limit Level	Baseline Level	Construction Noise Level		
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}		
4-May-11	16:45	Sunny	71.2	74.9	67.2		N/A	71.2 Measured ≤ Limit Level		
12-May-11	16:40	Sunny	70.0	74.3	67.5	75.0	N/A	70.0 Measured ≤ Limit Level		
16-May-11	16:45	Cloudy	70.2	70.2 74.1 66.5 75.0 N/A 70.2 Measu			70.2 Measured ≤ Limit Level			
26-May-11	16:05	Sunny	69.2	73.9	65.7		N/A	69.2 Measured ≤ Limit Level		

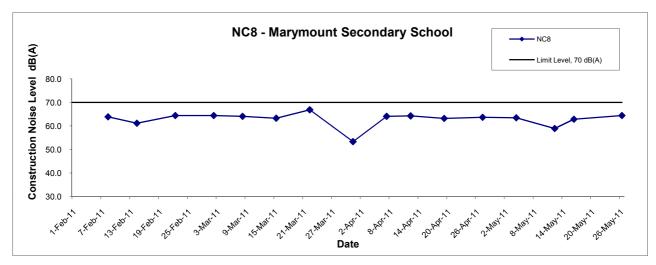
Location NC19 - Villa Veneto											
				Unit: dB (A) (30-min)							
Date	Time	Weather	Mea	Measured Noise Level Limit Level Bas		Baseline Level	Construction Noise Level				
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	L _{eq}			
4-May-11	10:35	Cloudy	61.7	63.3	54.7		N/A	61.7 Measured ≤ Limit Level			
12-May-11	10:36	Cloudy	67.7	68.9	59.7	75.0	N/A	67.7 Measured ≤ Limit Level			
16-May-11	11:00	Cloudy	64.6	67.3	60.5	75.0 N/A		64.6 Measured ≤ Limit Level			
26-May-11	9:30	Sunny	66.9	69.6	62.8		N/A	66.9 Measured ≤ Limit Level			

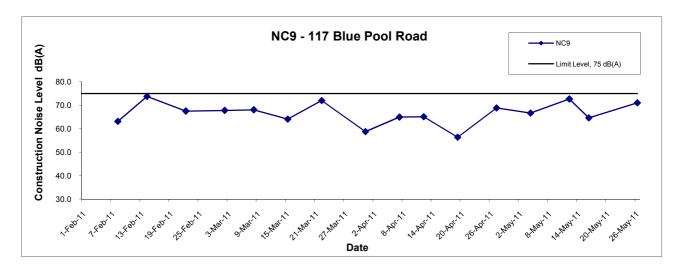
Location GNC7 - Hong Villa									
			Unit: dB (A) (30-min)						
Date	Time	Weather	Weather Measured N						
			L _{eq}	L ₁₀	L 90				
4-May-11	9:00	Cloudy	61.2	62.8	57.2				
12-May-11	9:02	Cloudy	56.7	59.6	55.3				
16-May-11	9:15	Cloudy	60.9	61.4	53.7				
26-May-11	10:55	Sunny	62.2	64.5	52.6				









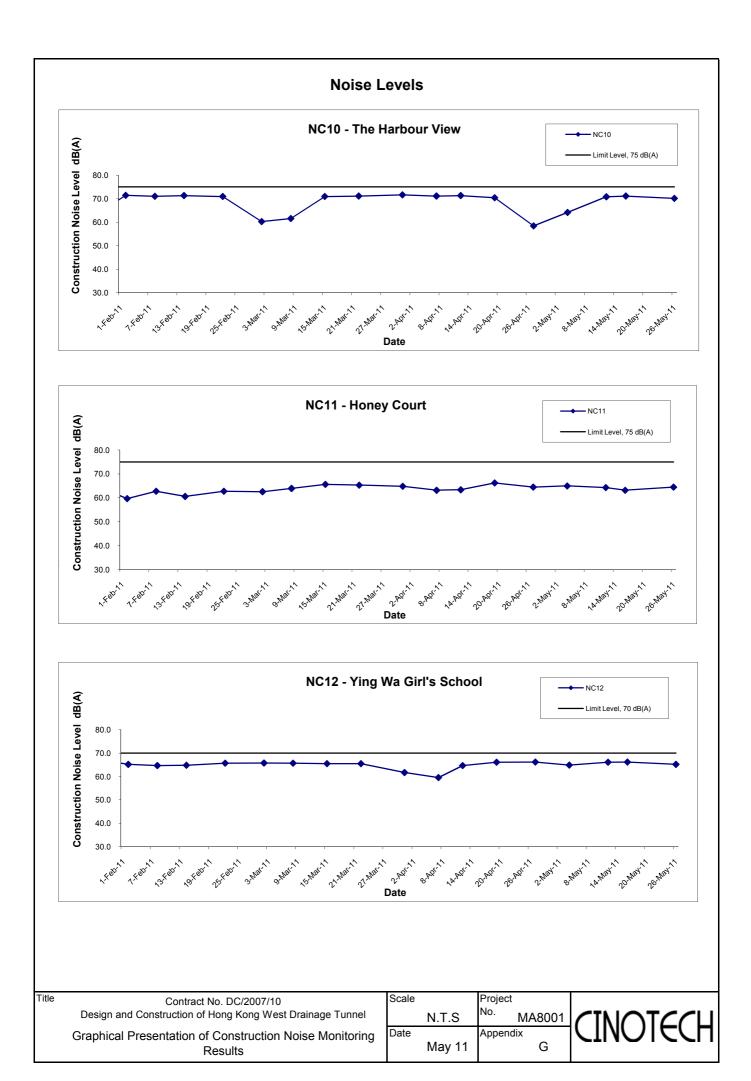


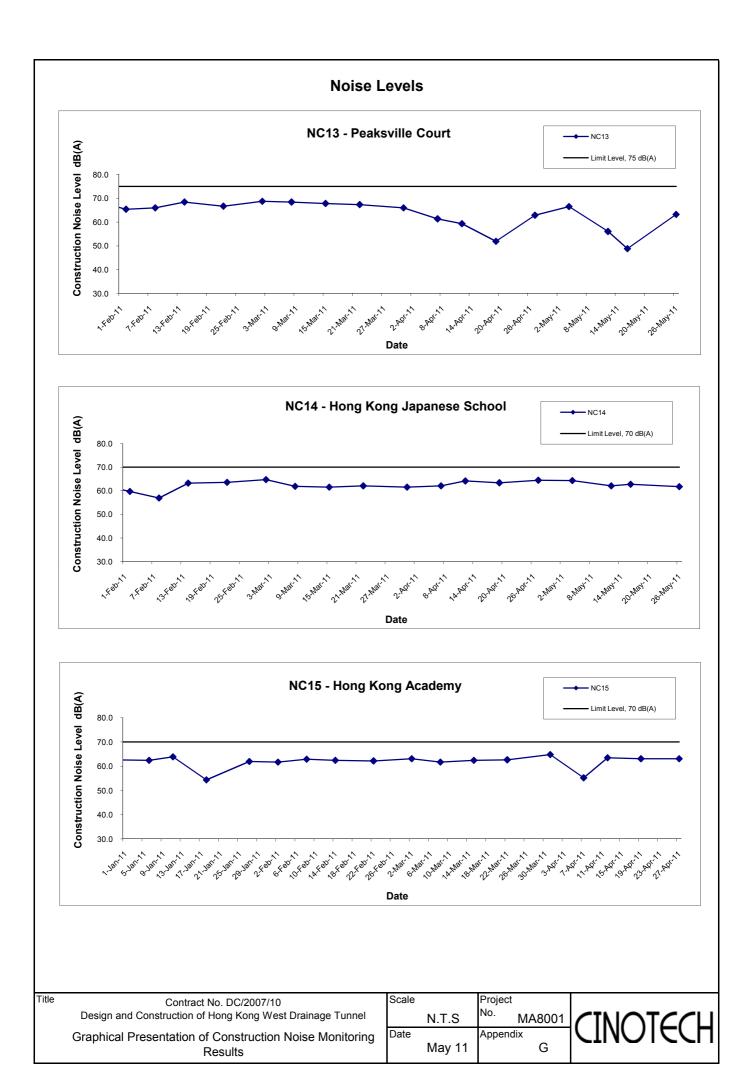
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Design and Construction of Hong Kong West Drainage Tunnel
Graphical Presentation of Construction Noise Monitoring
Results

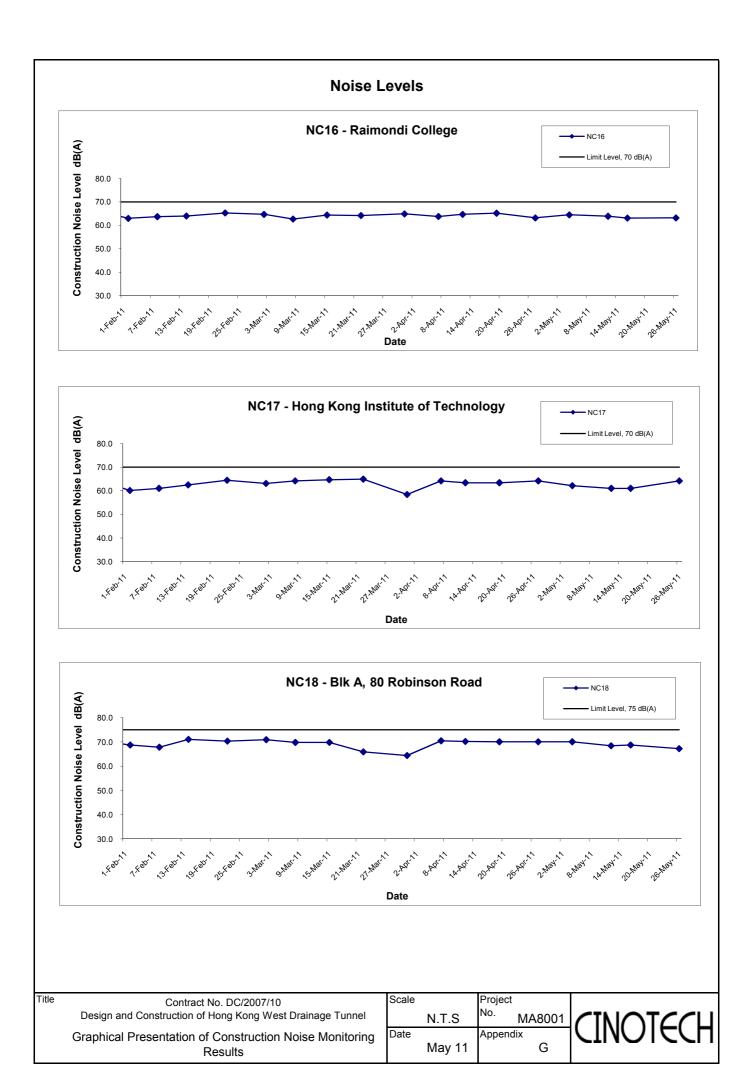
Scale Project
N.T.S No. MA8001

Date May 11 Appendix G

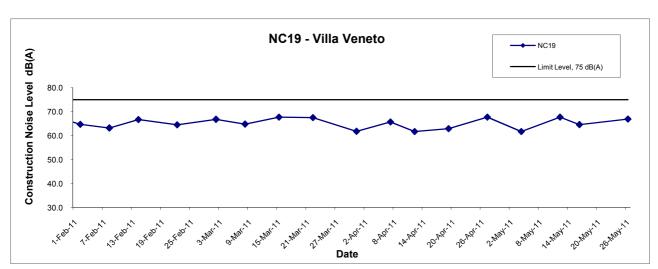


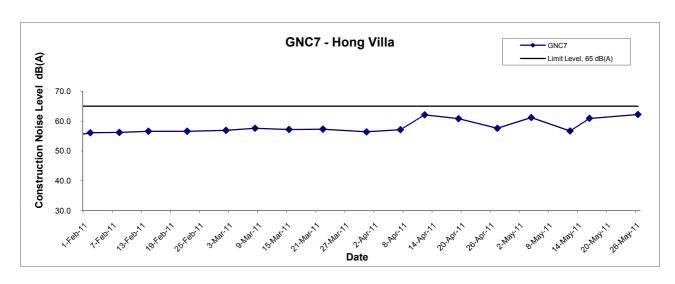






Noise Levels





Contract No. DC/2007/10
Design and Construction of Hong Kong West Drainage Tunnel
Graphical Presentation of Construction Noise Monitoring Results

Title

Scale		Project	
	N.T.S	No.	MA8001
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