

Appendix G - Noise Monitoring Results

Location NC1 - True Light Middle School of Hong Kong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	16:15	Cloudy	69.0	72.3	63.9	70.2	69.0 Measured $\leq$ Baseline
9-Nov-10	16:00	Sunny	69.9	72.2	64.7		69.9
16-Nov-10	16:30	Sunny	70.0	72.6	63.0		70.0 Measured $\leq$ Baseline
26-Nov-10	16:10	Sunny	70.2	73.0	63.2		70.2 Measured $\leq$ Baseline

Location NC2 - The Legend							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	10:50	Cloudy	66.0	67.8	63.5	64.8	59.8
9-Nov-10	10:40	Sunny	67.6	70.2	63.1		64.4
16-Nov-10	14:30	Sunny	65.8	68.3	62.0		58.9
26-Nov-10	13:00	Sunny	62.6	64.4	59.5		62.6 Measured $\leq$ Baseline

Location NC3 - Outside Aegean Terrace							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	08:20	Cloudy	54.9	57.3	50.2	57.7	54.9 Measured $\leq$ Baseline
9-Nov-10	08:25	Sunny	54.9	57.2	50.3		54.9 Measured $\leq$ Baseline
16-Nov-10	20:20	Cloudy	54.7	56.9	50.2		54.7 Measured $\leq$ Baseline
26-Nov-10	08:20	Cloudy	53.7	56.2	50.2		53.7 Measured $\leq$ Baseline

Location NC4 - Man Yuen Garden							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	13:00	Sunny	74.6	77.5	68.6	64.5	74.2
9-Nov-10	13:00	Sunny	73.9	76.8	69.7		73.4
16-Nov-10	13:00	Sunny	74.2	76.9	69.7		73.7
26-Nov-10	13:05	Sunny	73.1	76.1	65.9		72.5

Location NC5 - Blk D Villa Monte Rosa							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	10:10	Sunny	66.1	68.5	60.7	66.1	66.1 Measured $\leq$ Baseline
9-Nov-10	10:10	Sunny	65.7	68.2	60.1		65.7 Measured $\leq$ Baseline
16-Nov-10	09:55	Sunny	66.3	68.7	62.0		52.8
26-Nov-10	10:00	Sunny	67.3	69.6	62.0		61.1

Location NC6 - Rosaryhill School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	10:45	Sunny	62.8	65.3	57.6	64.1	62.8 Measured $\leq$ Baseline
9-Nov-10	11:00	Sunny	63.2	65.7	57.8		63.2 Measured $\leq$ Baseline
16-Nov-10	10:40	Sunny	64.3	66.8	58.9		50.8
26-Nov-10	10:40	Sunny	65.0	67.2	59.9		57.7

Location NC7 - Buddhist Li Ka Shing Care & Attention Home for the Elderly							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	10:05	Cloudy	70.4	72.5	65.2	65.1	68.9
9-Nov-10	15:20	Sunny	72.4	74.7	66.8		71.5
16-Nov-10	15:20	Sunny	71.8	74.6	65.4		70.8
26-Nov-10	15:55	Sunny	69.2	71.3	65.2		67.1

Appendix G - Noise Monitoring Results

Location NC8 - Marymount Secondary School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	14:14	Cloudy	67.2	69.6	59.9	63.5	64.8
9-Nov-10	13:45	Sunny	67.0	69.5	65.5		64.4
16-Nov-10	10:15	Sunny	69.7	71.1	65.5		68.5
26-Nov-10	15:10	Sunny	70.4	73.1	65.8		69.4

Location NC9 - 117 Blue Pool Road							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	14:45	Cloudy	71.6	74.2	62.1	63.3	70.9
9-Nov-10	13:10	Sunny	73.1	76.2	69.4		72.6
16-Nov-10	10:50	Sunny	70.2	72.6	67.0		69.2
26-Nov-10	15:10	Sunny	70.3	73.3	66.3		69.3

Location NC10 - The Harbour View							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	11:25	Sunny	67.9	71.6	64.5	71.7	67.9 Measured ≤ Baseline
9-Nov-10	11:35	Sunny	70.4	72.9	66.3		70.4 Measured ≤ Baseline
16-Nov-10	11:30	Sunny	71.6	74.4	67.0		71.6 Measured ≤ Baseline
26-Nov-10	11:25	Sunny	70.8	73.6	66.7		70.8 Measured ≤ Baseline

Location NC11 - Honey Court							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	09:15	Cloudy	68.0	70.6	63.7	63.2	66.3
9-Nov-10	09:20	Sunny	68.0	70.6	63.6		66.3
16-Nov-10	09:10	Sunny	67.2	69.8	64.0		65.0
26-Nov-10	09:05	Cloudy	67.3	70.0	63.4		65.2

Location NC12 - Ying Wa Girl's School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	13:50	Sunny	63.8	66.4	58.9	67.1	63.8 Measured ≤ Baseline
9-Nov-10	13:45	Sunny	67.2	69.7	63.0		50.8
16-Nov-10	13:50	Sunny	66.7	69.3	61.7		66.7 Measured ≤ Baseline
26-Nov-10	13:50	Sunny	65.6	67.9	60.8		65.6 Measured ≤ Baseline

Location NC13 - Peaksville Court							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	14:30	Sunny	68.3	70.8	62.9	65.2	65.4
9-Nov-10	14:30	Sunny	68.7	71.3	62.9		66.1
16-Nov-10	14:30	Sunny	69.0	71.7	63.9		66.7
26-Nov-10	14:30	Sunny	69.7	72.3	63.6		67.8

Appendix G - Noise Monitoring Results

Location NC14 - Hong Kong Japanese School							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	13:37	Cloudy	56.0	57.9	50.2	60.8	56.0 Measured $\leq$ Baseline
9-Nov-10	14:30	Sunny	60.3	69.8	62.8		60.3 Measured $\leq$ Baseline
16-Nov-10	11:30	Sunny	66.6	67.4	62.2		65.3
26-Nov-10	14:30	Sunny	70.1	74.9	72.7		69.6

Location NC15 - Hong Kong Academy							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	17:30	Cloudy	67.0	69.4	62.5	63.5	64.4
9-Nov-10	17:35	Sunny	66.8	69.5	61.8		64.1
16-Nov-10	17:40	Cloudy	66.2	68.8	62.5		62.9
26-Nov-10	17:35	Cloudy	66.6	69.1	62.3		63.7

Location NC16 - Raimondi College							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	15:10	Sunny	64.0	66.2	60.0	70.4	64.0 Measured $\leq$ Baseline
9-Nov-10	15:15	Sunny	65.0	67.5	60.7		65.0 Measured $\leq$ Baseline
16-Nov-10	15:15	Sunny	65.2	67.7	60.3		65.2 Measured $\leq$ Baseline
26-Nov-10	15:15	Sunny	64.6	67.2	58.9		64.6 Measured $\leq$ Baseline

Location NC17 - Hong Kong Institute of Technology							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	16:00	Sunny	66.8	71.6	64.6	66.0	59.1
9-Nov-10	16:10	Sunny	66.5	69.7	62.7		56.9
16-Nov-10	16:10	Sunny	67.8	71.6	64.3		63.1
26-Nov-10	16:05	Sunny	67.8	71.6	64.2		63.1

Location NC18 - Blk A, 80 Robinson Road							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	16:40	Cloudy	72.7	75.5	68.3	64.8	71.9
9-Nov-10	16:50	Sunny	73.2	75.2	68.0		72.5
16-Nov-10	16:50	Cloudy	73.0	75.7	68.7		72.3
26-Nov-10	16:45	Cloudy	73.8	76.7	66.2		73.2

Location NC19 - Villa Veneto							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
4-Nov-10	17:50	Cloudy	59.0	61.9	53.9	68.6	59.0 Measured $\leq$ Baseline
9-Nov-10	09:15	Sunny	72.1	74.6	66.2		69.5
16-Nov-10	09:00	Sunny	68.7	69.6	60.0		52.3
26-Nov-10	11:00	Sunny	63.2	66.8	57.4		63.2 Measured $\leq$ Baseline

Location GNC7 - Hong Villa					
Date	Time	Weather	Unit: dB (A) (30-min)		
			Measured Noise Level		
			L _{eq}	L ₁₀	L ₉₀
16-Nov-10	11:00	Sunny	54.1	55.0	53.5
26-Nov-10	10:00	Sunny	56.0	58.0	54.5

Appendix G - Noise Monitoring Results

(Restricted Hours - 07:00 to 23:00 holidays & 19:00 to 23:00 on all other days)

Location NC1a - Outside True Light Middle School of Hong Kong							
Date	Time	Weather	dB (A) (5-min)			(Reference) Baseline Level	(Reference) Construction Noise Level, L _{eq}
			L _{eq}	L ₁₀	L ₉₀	Average L _{eq}	L _{eq}
4-Nov-10	19:00	Cloudy	67.9	70.7	63.8	67.6	62.9
	19:05		67.6	70.4	63.4		
	19:10		67.4	70.3	63.1		
7-Nov-10	9:05	Sunny	66.2	69.5	64.3	66.6	58.9
	9:10		66.9	69.9	64.7		
	9:15		66.6	69.3	64.4		
9-Nov-10	19:00	Cloudy	67.9	70.7	64.2	68.1	64.2
	19:05		68.2	71.0	64.5		
	19:10		68.1	70.4	64.0		
14-Nov-10	9:00	Sunny	66.6	69.3	64.1	66.3	56.7
	9:05		67.2	69.6	64.7		
	9:20		64.8	68.5	63.3		
16-Nov-10	19:00	Cloudy	67.9	70.7	63.6	67.9	63.7
	19:05		68.0	70.7	63.8		
	19:10		67.8	70.5	63.5		
21-Nov-10	10:00	Sunny	67.2	69.7	64.3	67.2	61.6
	10:05		66.9	69.3	64.5		
	10:10		67.5	70.2	64.6		
26-Nov-10	19:00	Cloudy	67.8	70.5	63.7	67.7	63.2
	19:05		67.9	70.7	63.5		
	19:10		67.5	70.2	63.2		
28-Nov-10	9:30	Sunny	66.8	69.7	63.9	67.2	61.6
	9:35		67.3	69.8	64.3		
	9:40		67.6	70.4	64.6		

(Restricted Hours - 07:00 to 23:00 holidays & 19:00 to 23:00 on all other days)

Location NC2 - The Legend							
Date	Time	Weather	dB (A) (5-min)			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	Average L _{eq}	L _{eq}
4-Nov-10	19:35	Cloudy	63.9	68.5	60.3	63.9	62.2
	19:40		64.0	68.7	60.5		
	19:45		63.7	68.4	60.1		
7-Nov-10	09:45	Sunny	61.4	63.5	60.8	61.3	57.3
	09:50		61.4	63.5	60.9		
	09:55		61.1	63.0	60.4		
9-Nov-10	19:35	Cloudy	65.3	67.8	60.2	65.1	63.8
	19:40		65.0	67.6	60.0		
	19:45		64.9	67.4	60.0		
14-Nov-10	09:40	Sunny	62.7	65.6	61.7	62.7	60.2
	09:45		62.2	65.0	61.4		
	09:50		63.1	65.7	62.0		
16-Nov-10	19:35	Cloudy	65.2	67.8	59.7	65.1	63.8
	19:40		65.2	67.5	59.5		
	19:45		64.8	67.3	59.3		
21-Nov-10	10:35	Sunny	62.5	66.8	60.2	62.2	59.3
	10:40		61.9	66.6	59.9		
	10:45		62.3	67.0	60.2		
26-Nov-10	19:35	Cloudy	64.3	66.9	58.9	64.3	62.7
	19:40		64.5	67.0	58.8		
	19:45		64.1	66.7	58.7		
28-Nov-10	10:10	Sunny	63.6	66.7	60.8	63.5	61.5
	10:15		63.9	67.0	60.9		
	10:20		63.1	66.4	60.4		

(Restricted Hours - 07:00 to 23:00 holidays & 19:00 to 23:00 on all other days)

Location NC3 - Outside Aegean Terrace							
Date	Time	Weather	dB (A) (5-min)			Baseline Level	Construction Noise Level
			L _{eq}	L ₁₀	L ₉₀	Average L _{eq}	L _{eq}
4-Nov-10	20:20	Cloudy	50.1	52.0	47.9	50.0	50.0 Measured ≤ Baseline
	20:25		50.0	52.1	47.8		
	20:30		49.8	52.0	47.5		
7-Nov-10	11:05	Sunny	54.6	55.1	53.4	54.6	46.9
	11:10		54.6	55.1	53.4		
	11:15		54.7	55.3	53.5		
9-Nov-10	20:20	Cloudy	50.1	52.3	46.9	50.1	50.1 Measured ≤ Baseline
	20:25		50.3	52.4	47.2		
	20:30		49.9	52.2	46.8		
14-Nov-10	11:00	Sunny	52.4	54.3	50.5	52.6	52.6 Measured ≤ Baseline
	11:05		52.7	54.5	50.9		
	11:10		52.6	54.5	50.8		
16-Nov-10	20:20	Cloudy	50.6	52.8	47.6	50.4	50.4 Measured ≤ Baseline
	20:25		50.4	52.5	47.5		
	20:30		50.3	52.5	47.3		
21-Nov-10	11:20	Sunny	51.2	54.7	48.9	51.6	51.6 Measured ≤ Baseline
	11:25		51.9	54.1	48.8		
	11:30		51.6	53.5	47.9		
26-Nov-10	20:20	Cloudy	50.1	52.4	47.8	50.9	50.9 Measured ≤ Baseline
	20:25		52.2	52.5	47.8		
	20:30		49.9	50.1	47.6		
28-Nov-10	11:00	Sunny	52.7	54.9	49.8	52.4	52.4 Measured ≤ Baseline
	11:05		52.5	54.7	49.7		
	11:10		52.1	54.4	49.7		

Appendix G - Noise Monitoring Results

(Restricted Hours - 23:00 to 07:00 on all days)

Location NC1a - Outside True Light Middle School of Hong Kong							
Date	Time	Weather	dB (A) (5-min)			(Reference) Baseline Level	(Reference) Construction Noise Level, L_{eq}
			L_{eq}	L_{10}	L_{90}		
4-Nov-10	23:25	Cloudy	52.6	55.4	51.2	60.7	52.8 Measured $\leq$ Baseline
	23:30		52.7	55.5	51.2		
	23:35		53.1	56.0	52.2		
9-Nov-10	23:25	Cloudy	53.8	55.0	52.8		53.5 Measured $\leq$ Baseline
	23:30		53.3	54.9	52.7		
	23:35		53.5	55.0	52.7		
16-Nov-10	23:25	Cloudy	55.3	57.3	54.5		55.3 Measured $\leq$ Baseline
	23:30		55.9	57.6	54.7		
	23:35		54.7	56.5	53.6		
26-Nov-10	23:30	Fine	56.9	58.8	54.1		57.2 Measured $\leq$ Baseline
	23:35		57.2	59.0	54.5		
	23:40		57.4	59.3	54.6		

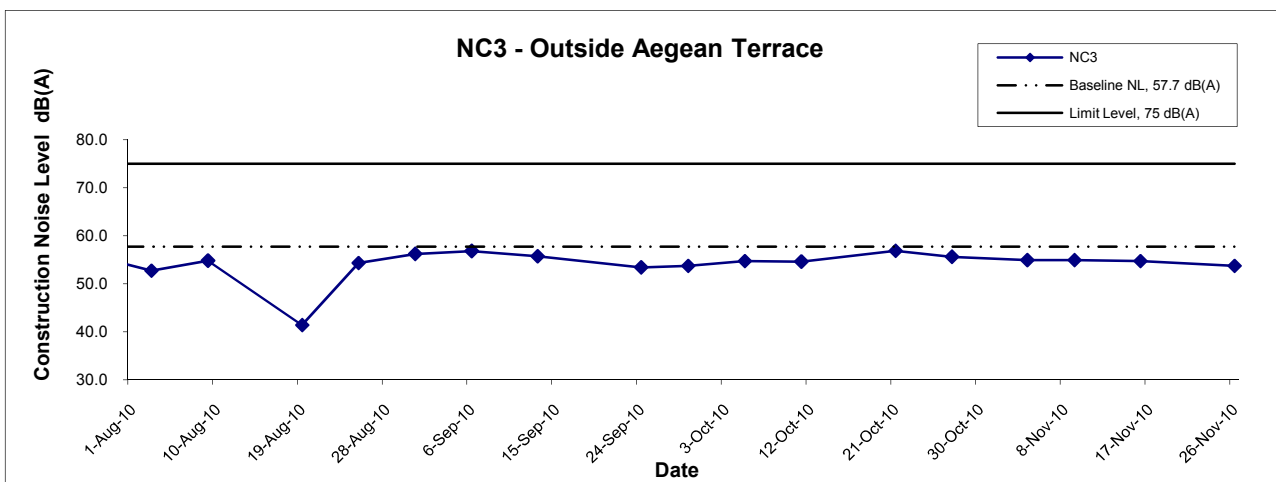
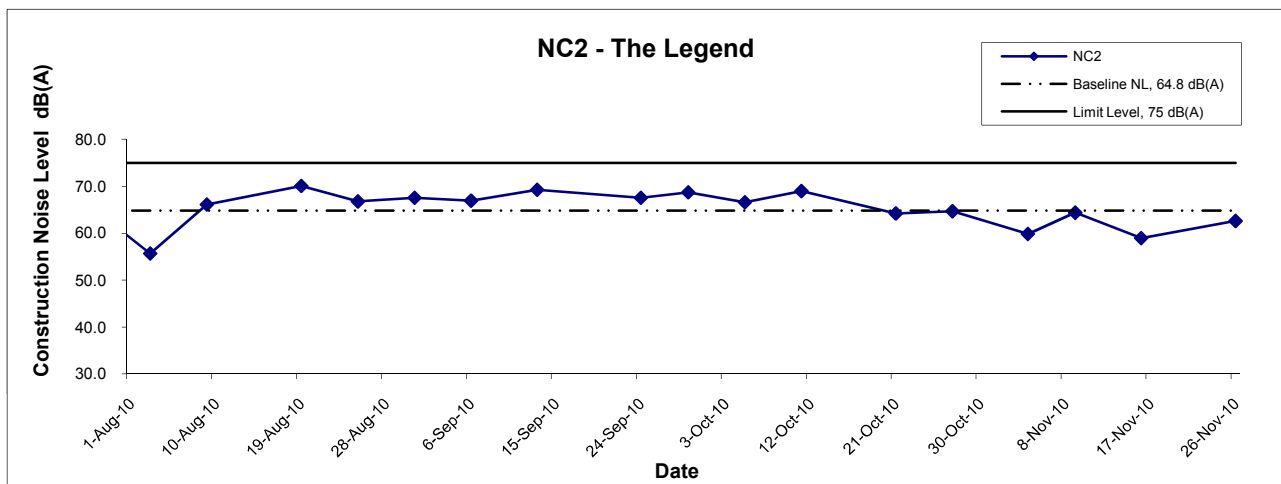
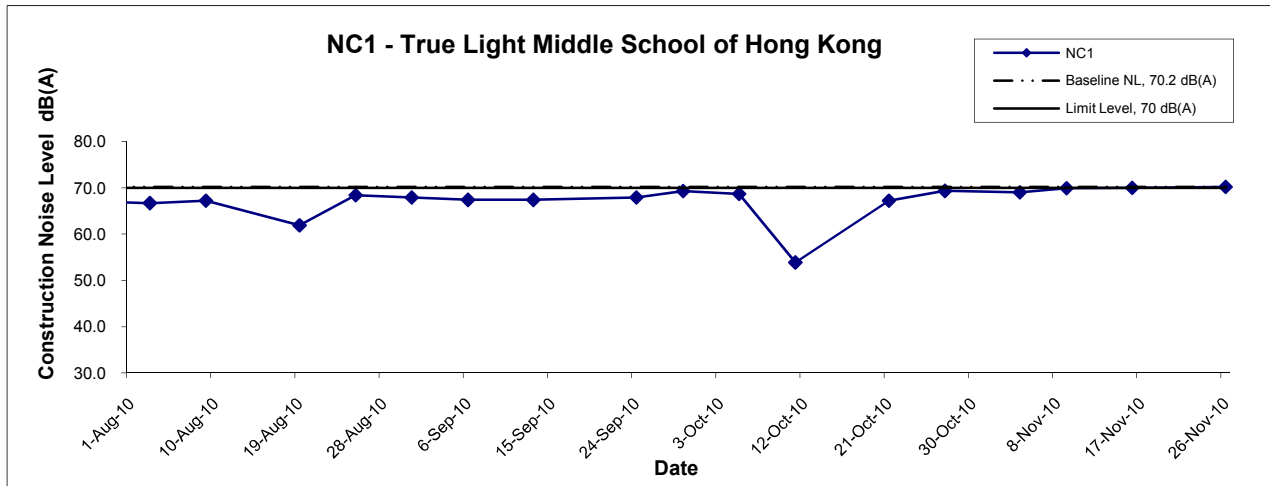
(Restricted Hours - 23:00 to 07:00 on all days)

Location NC2 - The Legend							
Date	Time	Weather	dB (A) (5-min)			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}		
4-Nov-10	23:00	Cloudy	51.6	54.2	49.3	53.9	51.5 Measured $\leq$ Baseline
	23:05		50.7	54.0	49.6		
	23:10		50.8	54.0	48.6		
9-Nov-10	23:00	Cloudy	50.7	52.6	48.1		50.8 Measured $\leq$ Baseline
	23:05		50.7	52.6	48.2		
	23:10		50.9	52.9	48.5		
16-Nov-10	23:00	Cloudy	50.1	53.7	48.8		50.4 Measured $\leq$ Baseline
	23:05		50.6	53.9	49.0		
	23:10		50.4	53.7	48.9		
26-Nov-10	23:00	Fine	52.7	54.8	49.8		52.8 Measured $\leq$ Baseline
	23:05		53.1	55.2	50.1		
	23:10		52.6	54.6	49.7		

(Restricted Hours - 23:00 to 07:00 on all days)

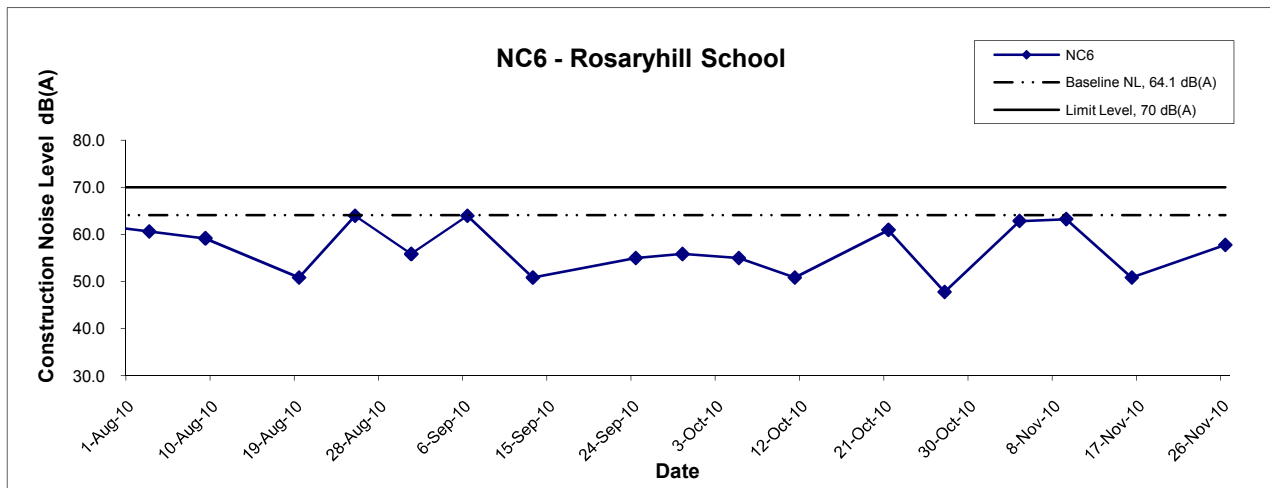
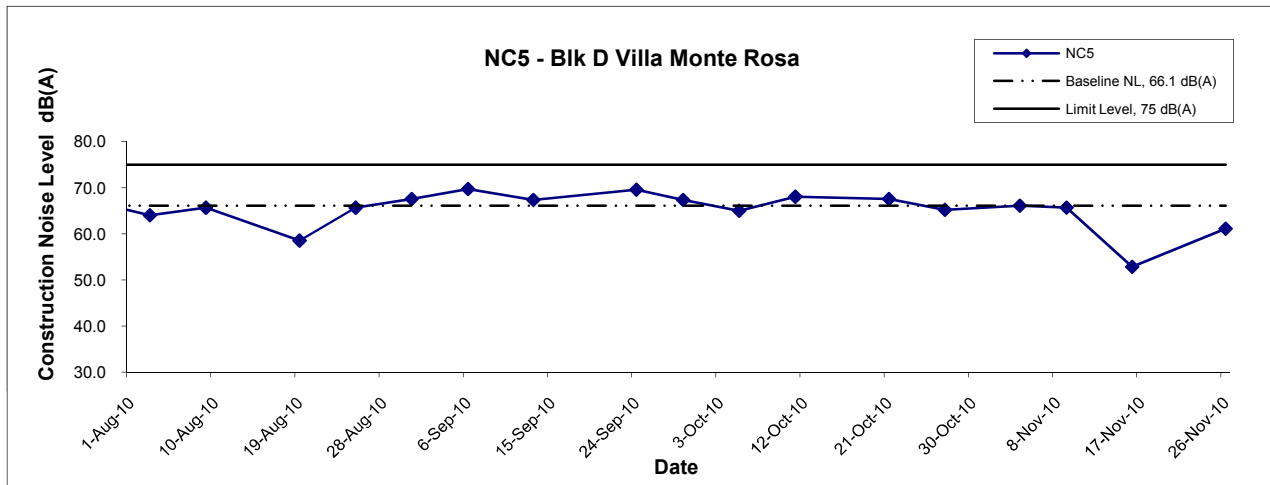
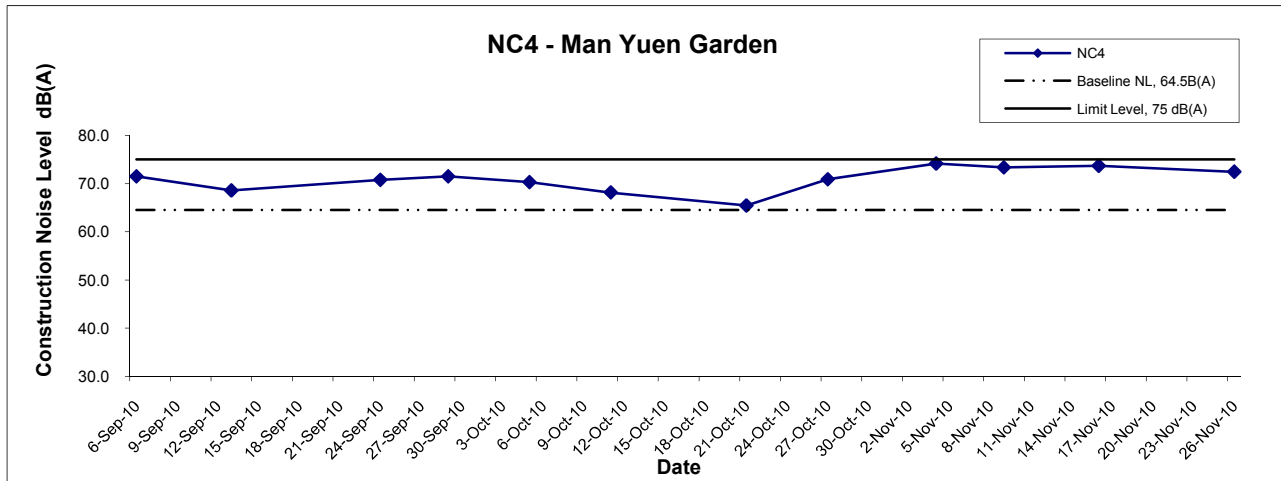
Location NC3 - Outside Aegean Terrace							
Date	Time	Weather	dB (A) (5-min)			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}		
5-Nov-10	00:25	Cloudy	49.5	52.3	47.6	52.0	49.7 Measured $\leq$ Baseline
	00:30		49.9	52.7	47.7		
	00:35		49.6	52.3	47.6		
9-Nov-10	00:30	Cloudy	51.4	53.6	49.5		51.6 Measured $\leq$ Baseline
	00:35		51.9	54.0	50.2		
	00:40		51.4	53.7	49.9		
17-Nov-10	00:25	Cloudy	51.3	54.0	48.7		51.4 Measured $\leq$ Baseline
	00:30		51.1	53.7	48.6		
	00:35		51.9	54.4	49.3		
27-Nov-10	00:20	Fine	50.4	52.8	46.8		50.4 Measured $\leq$ Baseline
	00:25		50.7	52.6	47.1		
	00:30		50.2	52.4	46.6		

Noise Levels



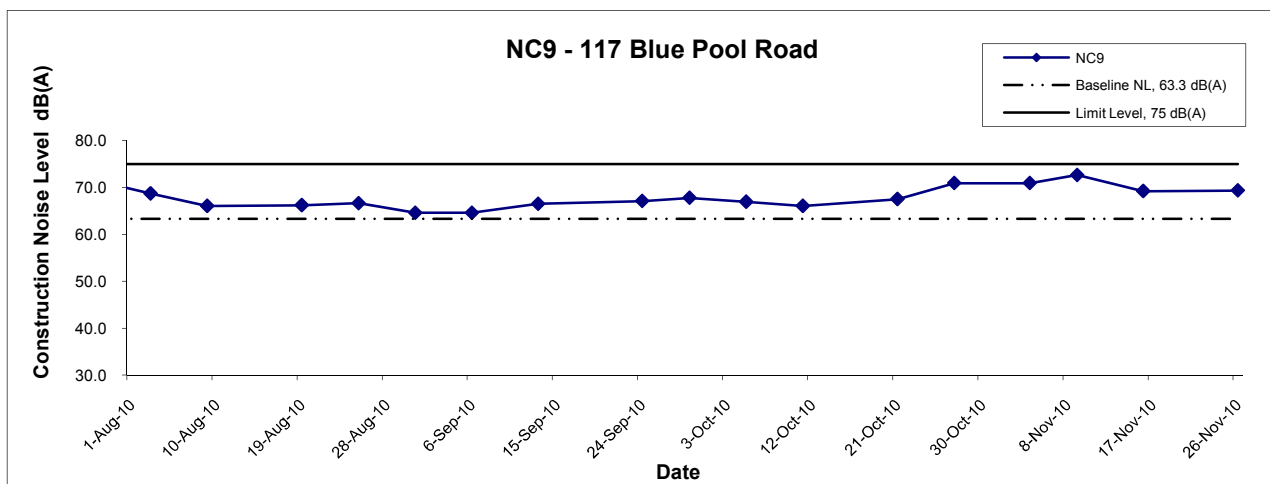
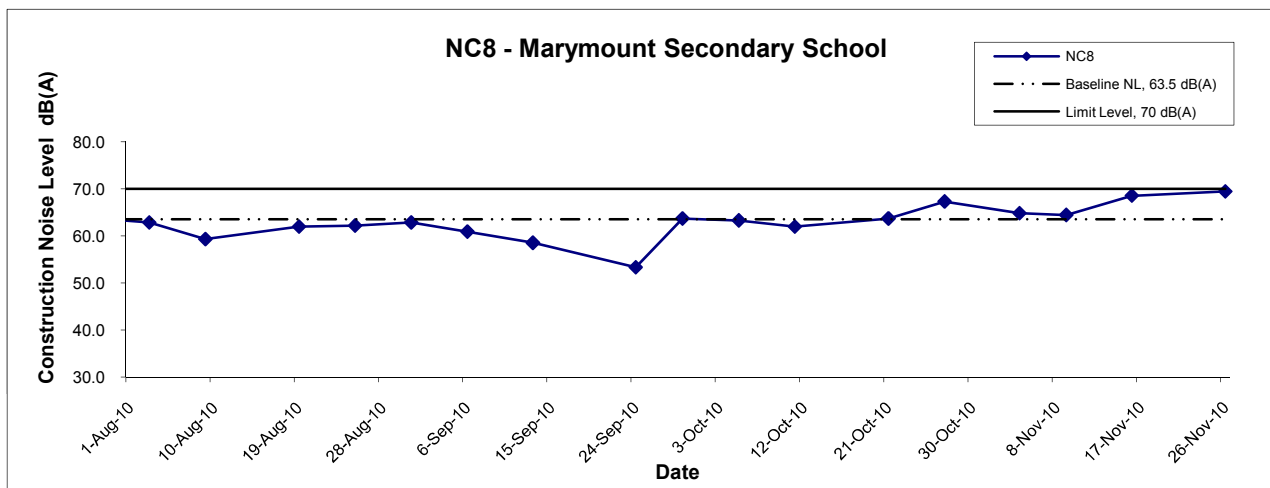
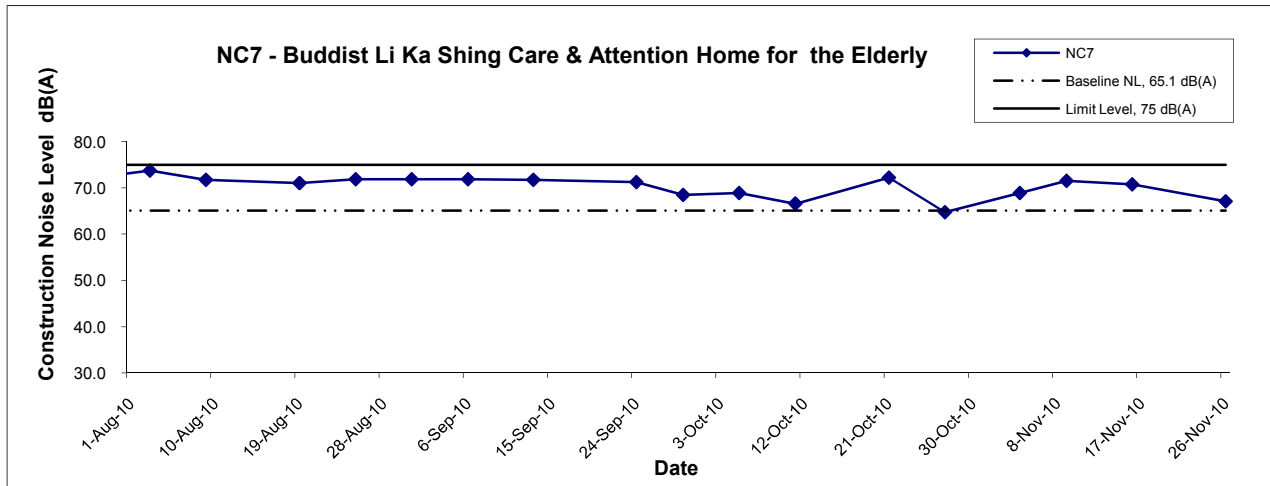
Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	

Noise Levels



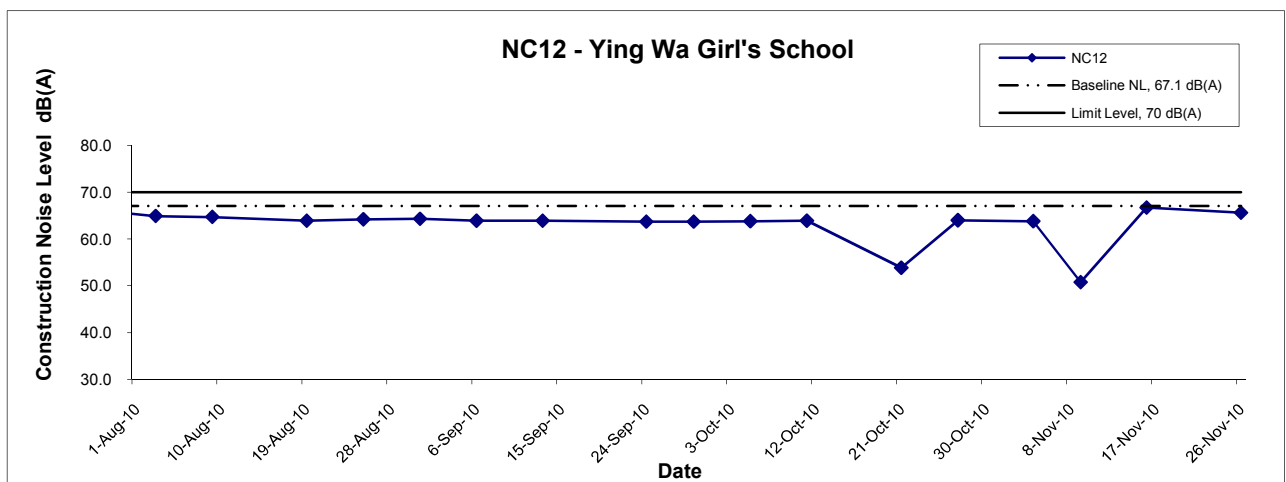
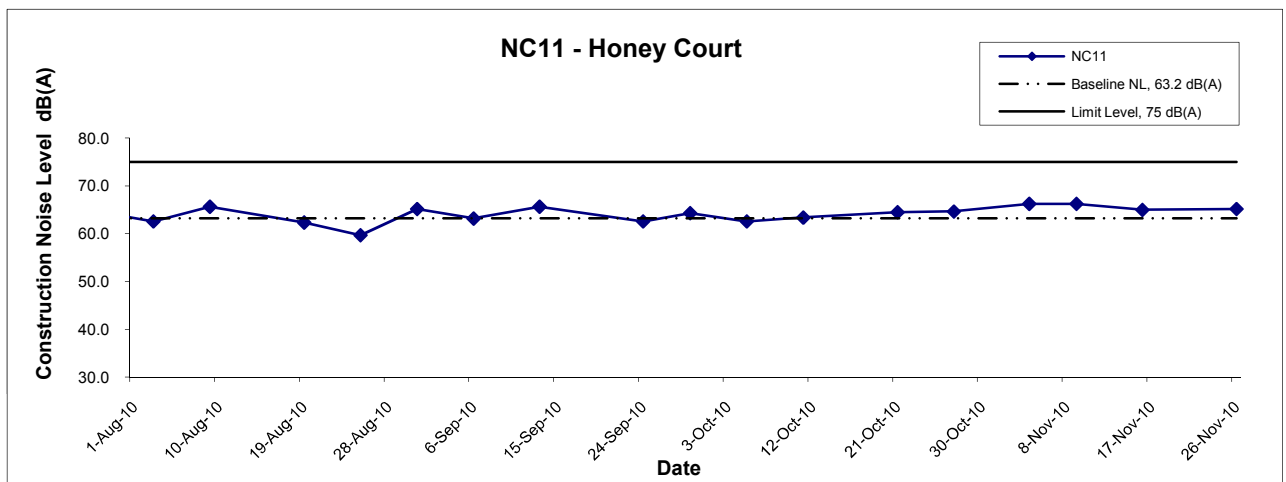
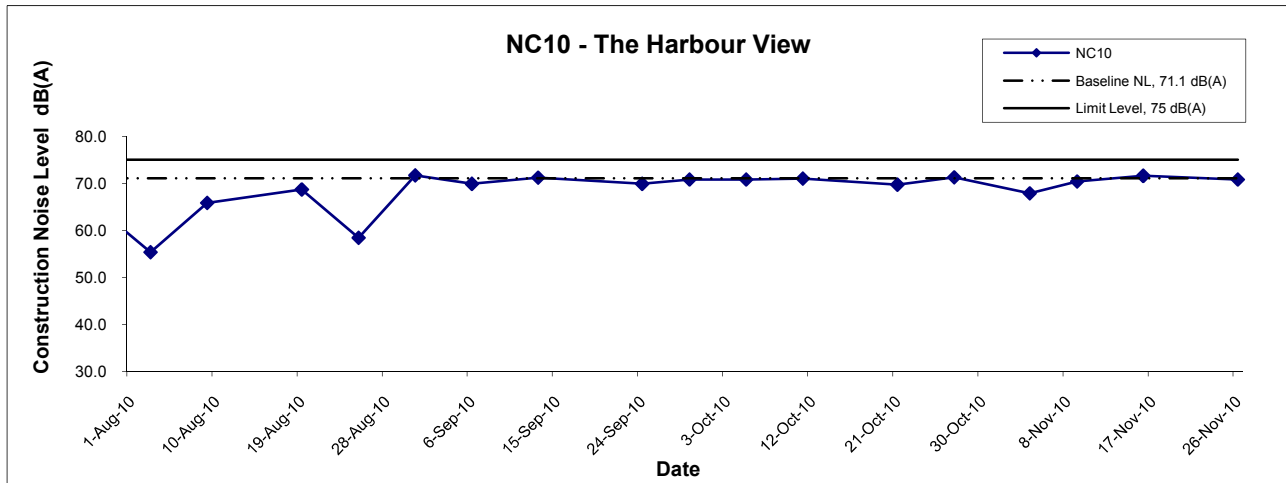
Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	

Noise Levels



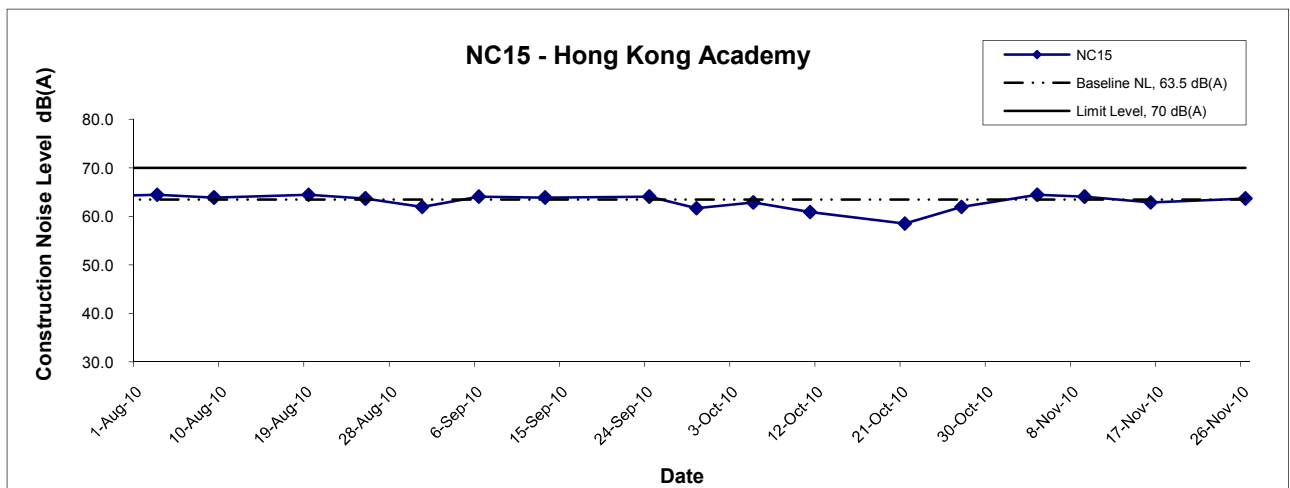
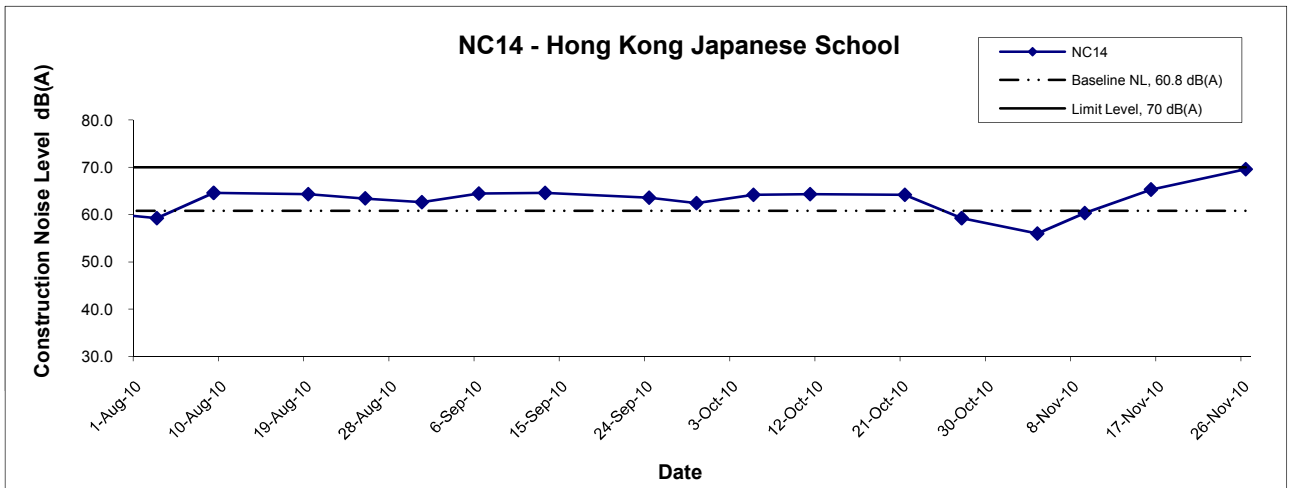
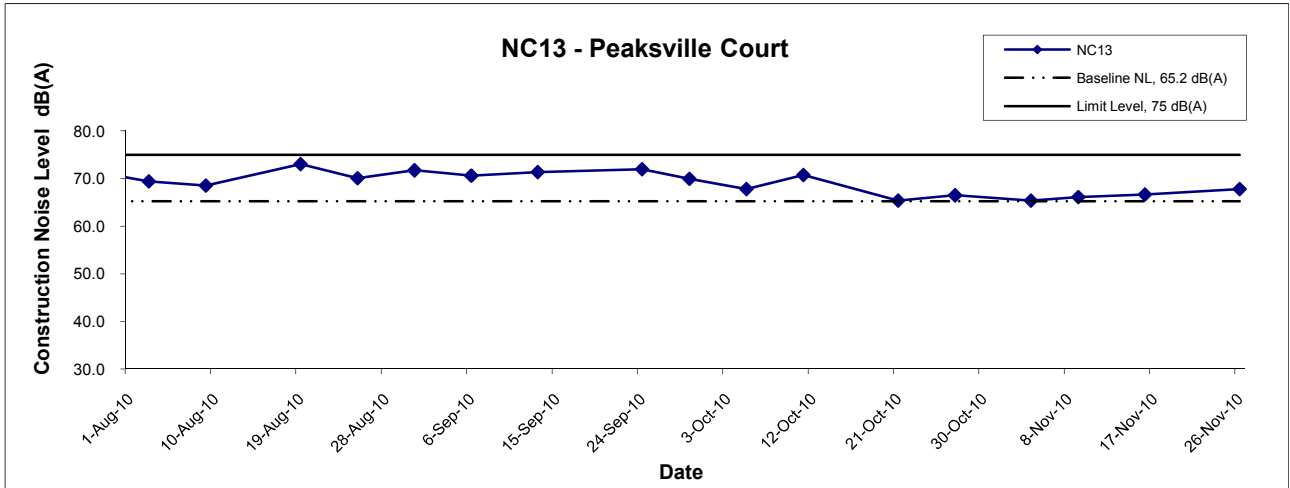
Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	

Noise Levels



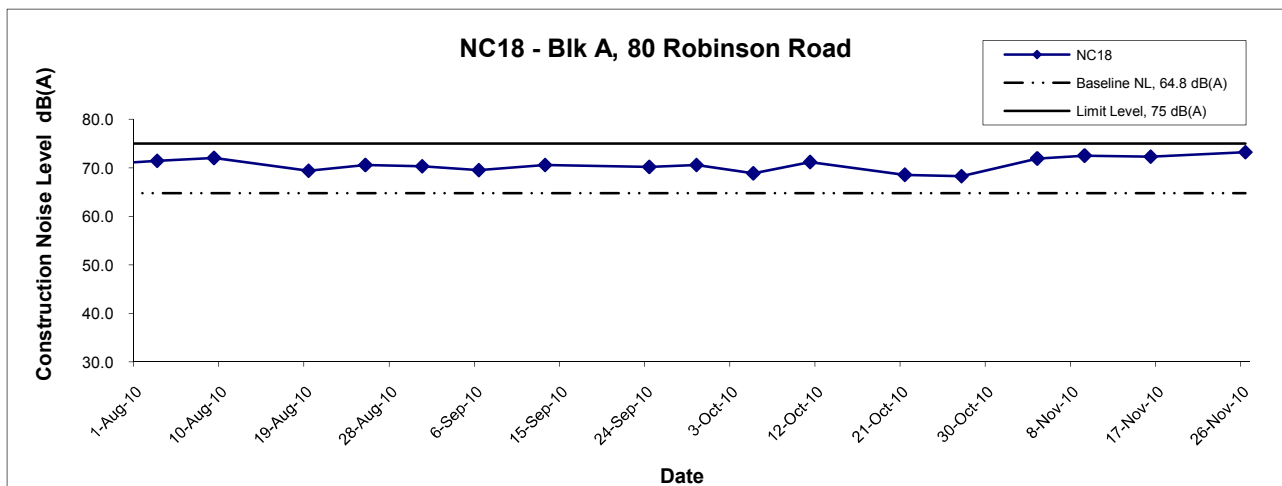
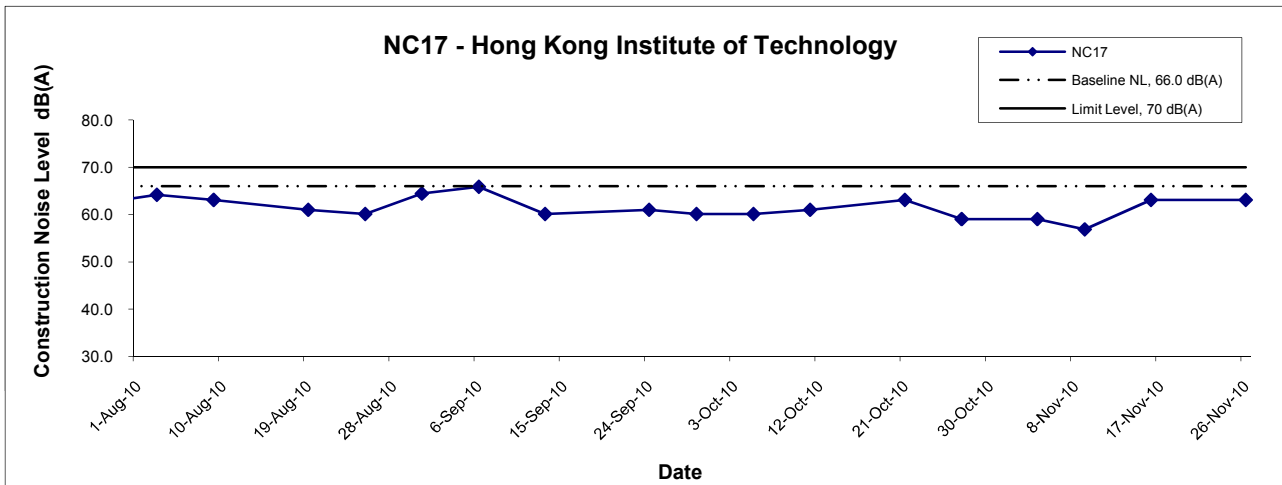
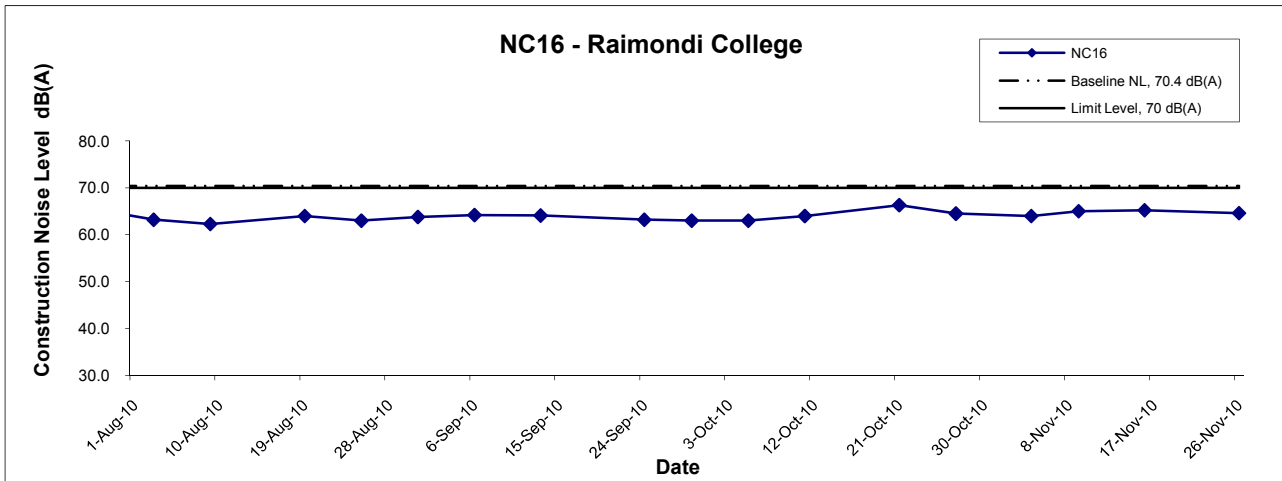
Title	Contract No. DC/2007/10	Scale	Project No.	CINOTECH
	Design and Construction of Hong Kong West Drainage Tunnel	N.T.S	MA8001	
Graphical Presentation of Construction Noise Monitoring Results		Date	Appendix	
		Nov 10	G	

Noise Levels



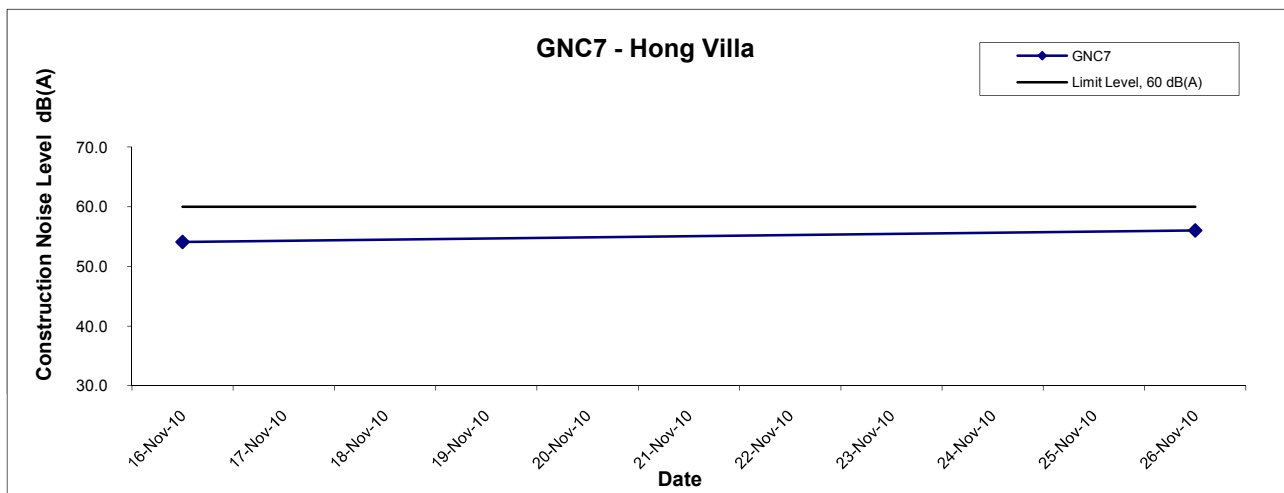
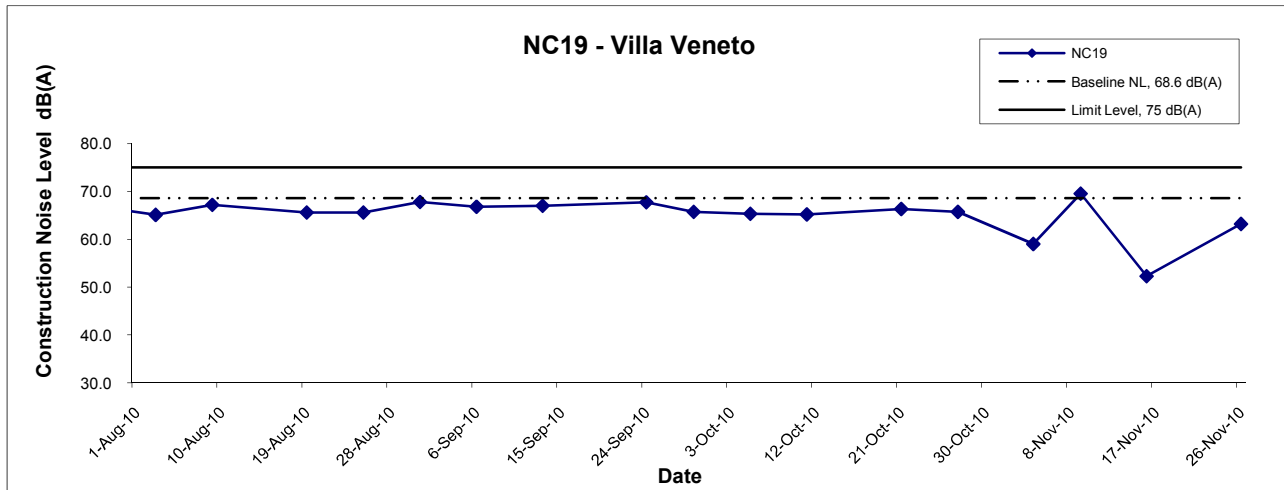
Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	CINOTECH
	Date Nov 10	Appendix G	

Noise Levels



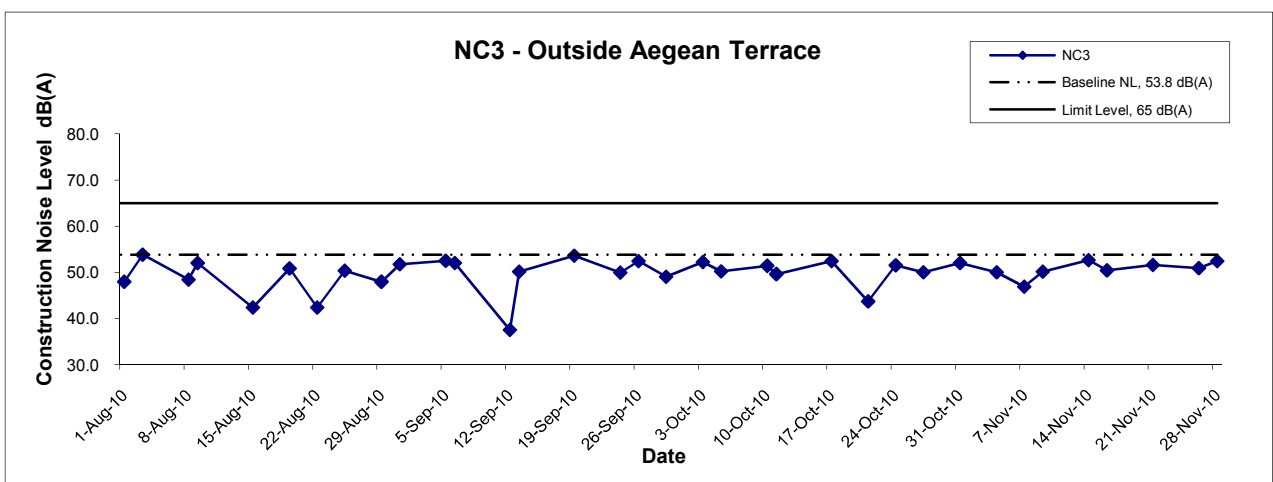
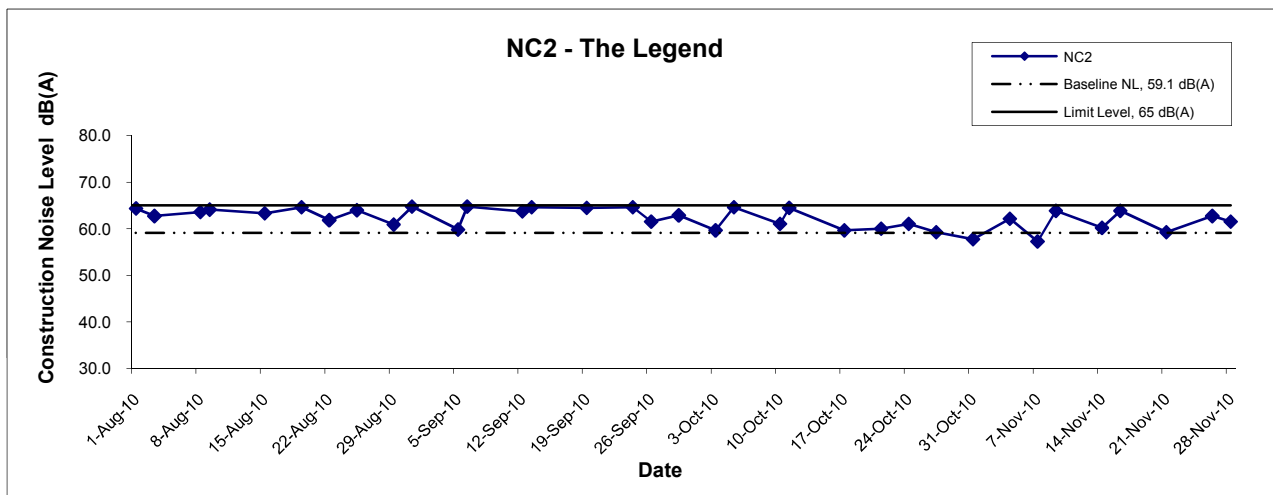
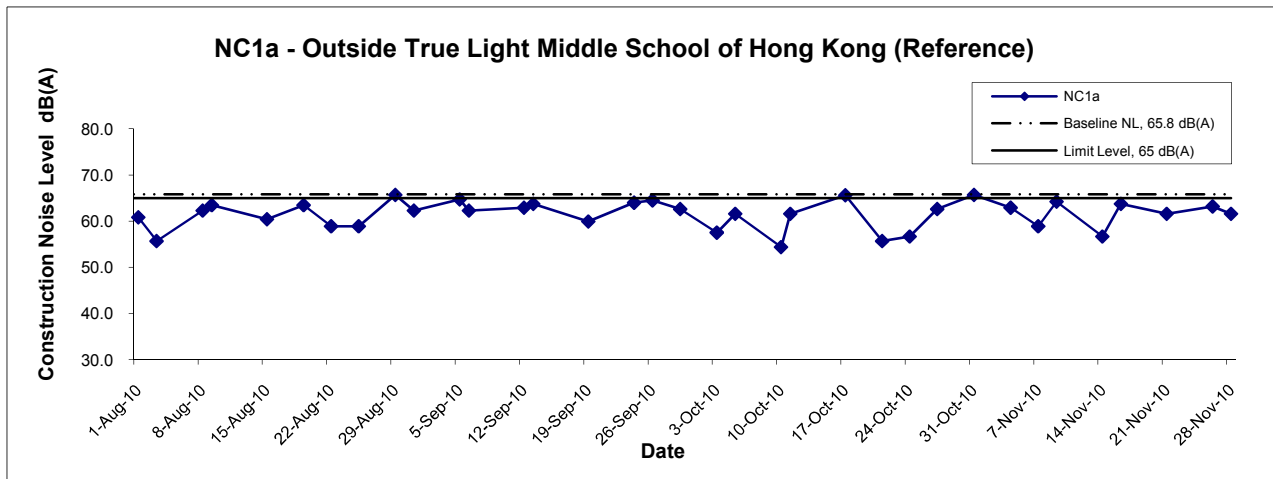
Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	

Noise Levels



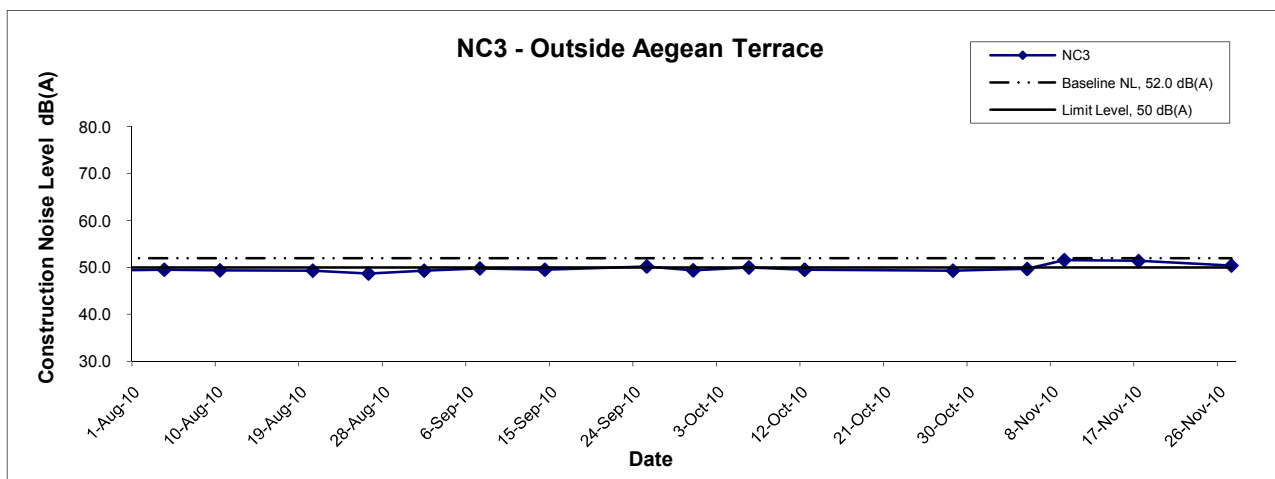
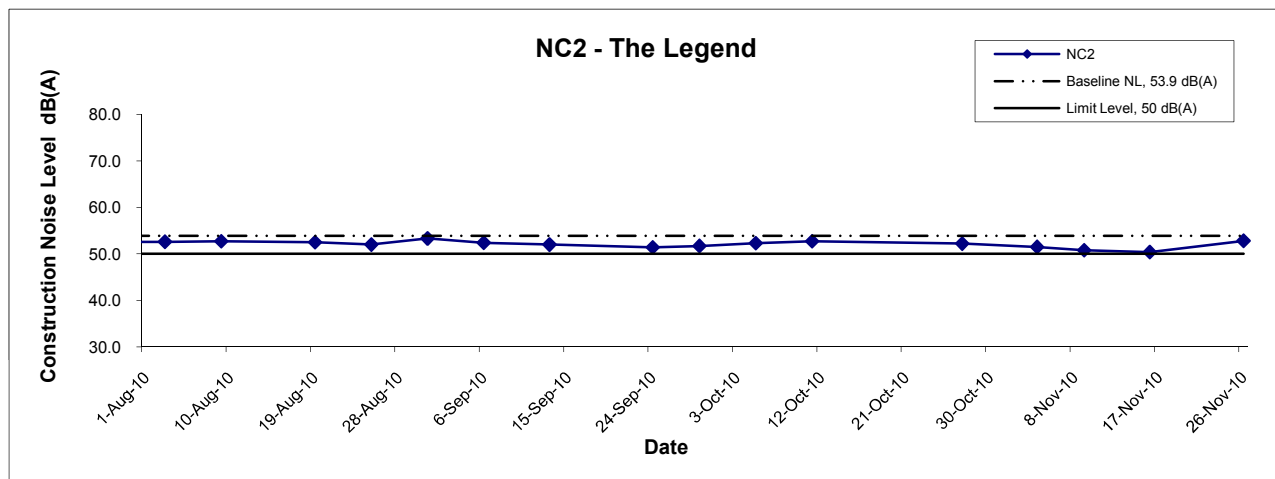
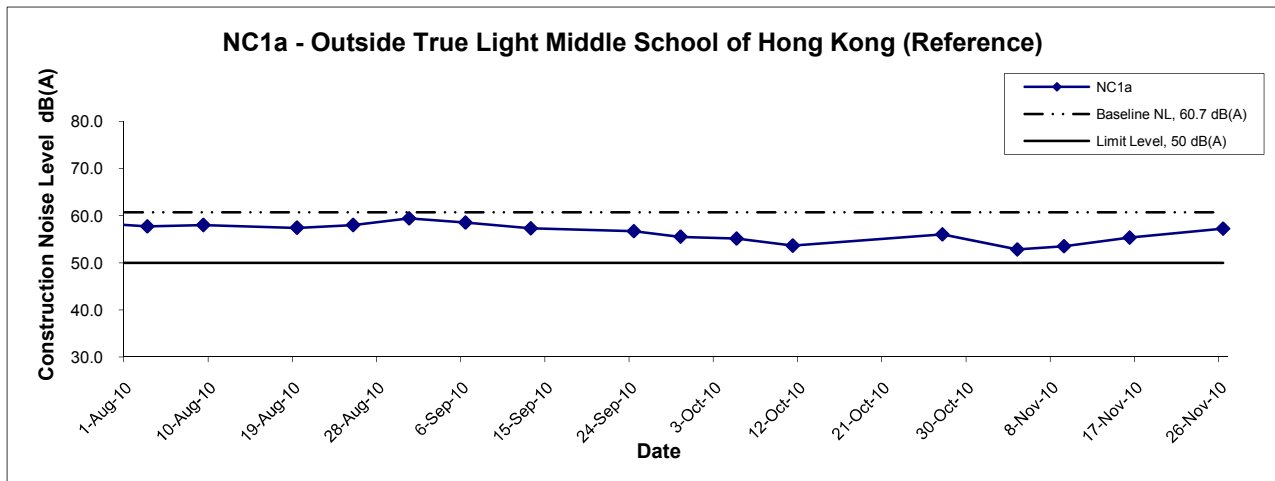
Title	Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale	Project No.	CINOTECH
		N.T.S Date Nov 10	MA8001 Appendix G	

Noise Levels (Restricted Hours - 07:00 - 23:00 holidays & 19:00 - 23:00 on all other days)



Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	

Noise Levels (Restricted Hours - 23:00 to 07:00 on all days)



Title Contract No. DC/2007/10 Design and Construction of Hong Kong West Drainage Tunnel Graphical Presentation of Construction Noise Monitoring Results	Scale N.T.S	Project No. MA8001	
	Date Nov 10	Appendix G	