

Appendix E

Environmental Monitoring Data for

Air and Noise

Appendix E
Air Quality Monitoring Results and their Graphical Presentation

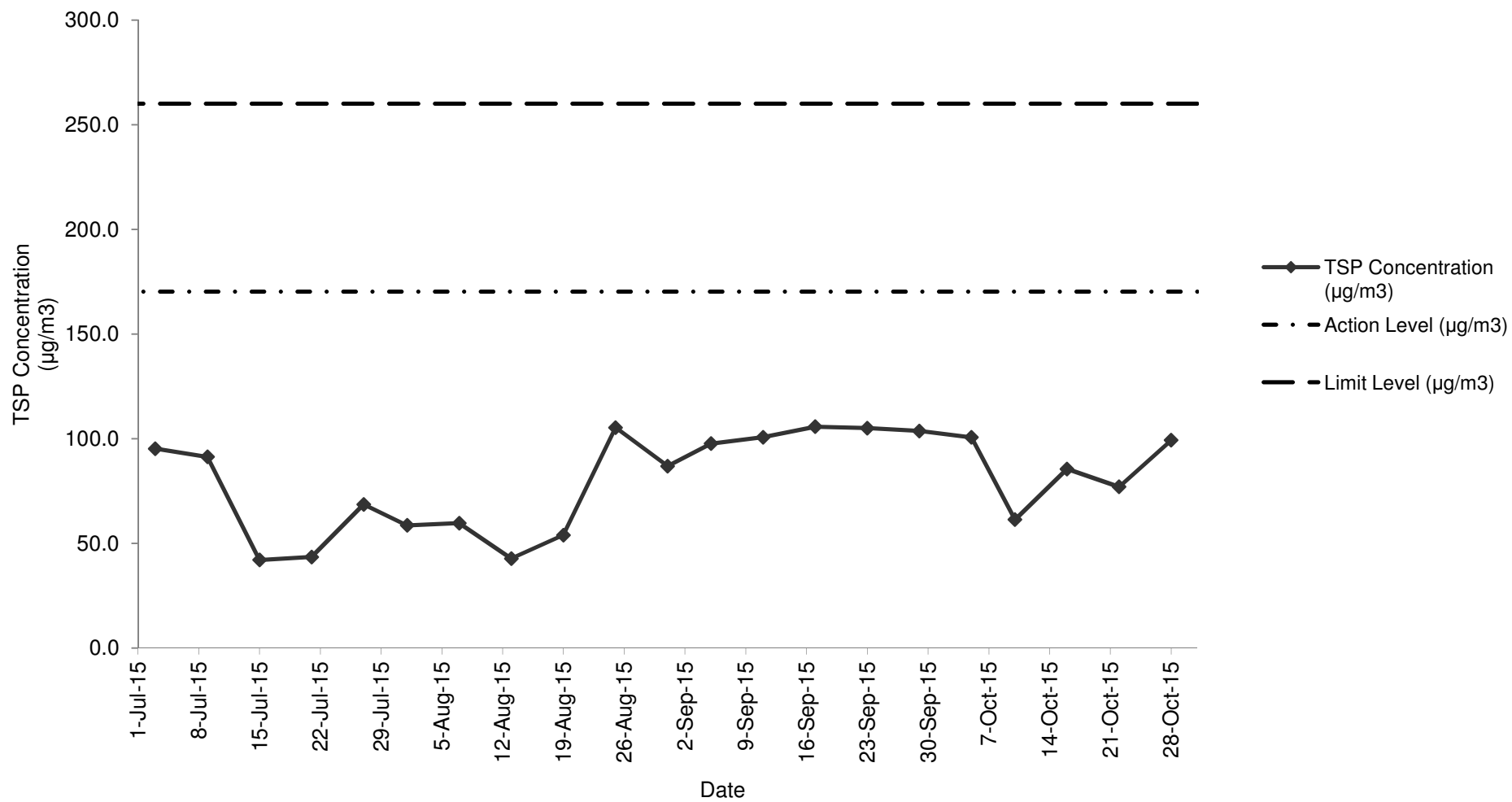
24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Weather Condition	Paper No.	Wt. of paper (g)			Elapse Time			Flow Rate (CFM)			Flow Rate (m ³ /min)			Total Volume (m ³)	TSP Concentration (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)	Wind speed m/s	Wind direction
			Initial Wt.	Final Wt.	Wt. of Dust	Initial	Final	Sampling Hour	Initial	Final	Avg Flow Rate	Initial	Final	Avg Flow Rate						
3-Jul-15	Fine	B102	2.8212	3.0193	0.1981	3378.80	3402.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	95.3	170.3	260.0	<5	N
9-Jul-15	Rainy	B104	2.8164	3.0063	0.1899	3405.80	3429.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.3	170.3	260.0	<5	N
15-Jul-15	Sunny	B106	2.8206	2.9081	0.0875	3442.67	3466.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	42.1	170.3	260.0	<5	N
21-Jul-15	Rainy	B108	2.8131	2.9036	0.0905	3469.67	3493.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	43.5	170.3	260.0	<5	N
27-Jul-15	Sunny	C11	2.7974	2.9401	0.1427	3496.67	3520.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.6	170.3	260.0	<5	N
1-Aug-15	Sunny	C13	2.7791	2.9010	0.1219	3523.67	3547.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	58.6	170.3	260.0	<5	N
7-Aug-15	Sunny	C15	2.7864	2.9105	0.1241	3550.67	3574.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	59.7	170.3	260.0	<5	N
13-Aug-15	Cloudy	C17	2.7866	2.8756	0.0890	3577.67	3601.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	42.8	170.3	260.0	<5	N
19-Aug-15	Sunny	C19	2.8097	2.9219	0.1122	3604.67	3628.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	54.0	170.3	260.0	<5	N
25-Aug-15	Sunny	C21	2.7797	2.9987	0.2190	3631.67	3655.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	105.3	170.3	260.0	<5	N
31-Aug-15	Cloudy	C23	2.9073	3.0880	0.1807	3658.67	3682.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	86.9	170.3	260.0	<5	N
5-Sep-15	Sunny	C25	2.8059	3.0090	0.2031	3685.67	3709.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	97.7	170.3	260.0	<5	N
11-Sep-15	Sunny	C27	2.8112	3.0207	0.2095	3712.67	3736.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	100.7	170.3	260.0	<5	N
17-Sep-15	Sunny	C29	2.7911	3.0111	0.2200	3739.67	3763.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	105.8	170.3	260.0	<5	N
23-Sep-15	Sunny	C31	2.8004	3.0189	0.2185	3766.67	3790.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	105.1	170.3	260.0	<5	N
29-Sep-15	Sunny	C33	2.8055	3.0212	0.2157	3793.67	3817.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	103.7	170.3	260.0	<5	N
5-Oct-15	Rainy	C35	2.7998	3.0091	0.2093	3820.67	3844.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	100.6	170.3	260.0	<5	N
10-Oct-15	Sunny	C37	2.8525	2.9801	0.1276	3847.67	3871.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	61.4	170.3	260.0	<5	N
16-Oct-15	Sunny	C39	2.9101	3.0880	0.1779	3874.67	3898.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	85.5	170.3	260.0	<5	N
22-Oct-15	Sunny	C41	2.9102	3.0704	0.1602	3901.67	3925.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	77.0	170.3	260.0	<5	N
28-Oct-15	Sunny	C43	2.8786	3.0851	0.2065	3928.67	3952.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	99.3	170.3	260.0	<5	N

Summary For the Reporting Quarter (Aug 2015 - Oct 2015)	
Average	84.0
Minimum	42.8
Maximum	105.8

Note: No major dust source observed during the monitoring period
Data in **Bold** denotes exceedance of respective Action Level
Data in **Bold Underline** denotes exceedance of respective Limit Level

24-Hour TSP Monitoring Result at Station: SR77 (August 2015 - October 2015)



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Air Quality Monitoring Results and their Graphical Presentation

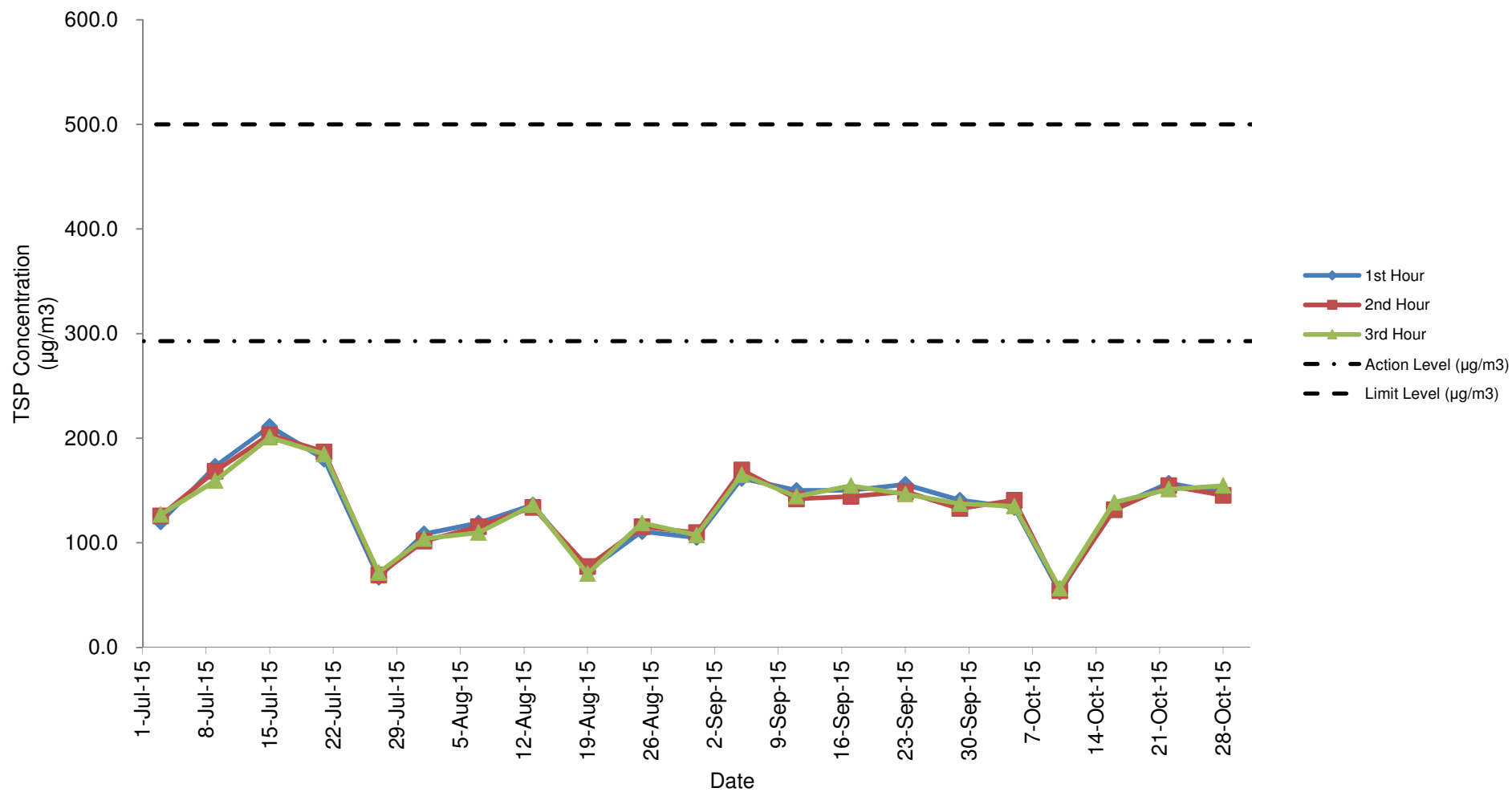
1-Hour TSP Monitoring Result at Station: SR77

Date	Weather Condition	Time	Conc.(µg/m ³)			Action Level (µg/m3)	Limit Level (µg/m3)
			1 st Hour	2 nd Hour	3 rd Hour		
3-Jul-15	Fine	09:00 - 12:06	120.0	125.8	126.9	292.7	500.0
9-Jul-15	Rainy	09:00 - 12:09	173.1	168.5	159.3	292.7	500.0
15-Jul-15	Sunny	09:00 - 12:06	211.2	203.1	200.8	292.7	500.0
21-Jul-15	Rainy	09:00 - 12:06	180.0	187.0	184.7	292.7	500.0
27-Jul-15	Sunny	09:00 - 12:09	66.9	69.2	71.6	292.7	500.0
1-Aug-15	Sunny	09:00 - 12:06	108.5	101.6	103.9	292.7	500.0
7-Aug-15	Sunny	09:00 - 12:06	118.9	115.4	109.6	292.7	500.0
13-Aug-15	Cloudy	09:00 - 12:06	136.2	133.9	136.2	292.7	500.0
19-Aug-15	Sunny	09:00 - 12:06	72.7	77.3	70.4	292.7	500.0
25-Aug-15	Sunny	09:00 - 12:06	110.8	115.4	118.9	292.7	500.0
31-Aug-15	Cloudy	09:00 - 12:07	105.0	109.6	107.3	292.7	500.0
5-Sep-15	Sunny	09:00 - 12:07	161.6	169.6	165.0	292.7	500.0
11-Sep-15	Sunny	09:00 - 12:06	150.0	142.0	144.3	292.7	500.0
17-Sep-15	Sunny	09:00 - 12:07	150.0	144.3	154.6	292.7	500.0
23-Sep-15	Sunny	09:00 - 12:07	155.8	148.9	146.6	292.7	500.0
29-Sep-15	Sunny	09:00 - 12:06	140.8	132.7	137.3	292.7	500.0
5-Oct-15	Rainy	09:00 - 12:07	133.9	140.8	135.0	292.7	500.0
10-Oct-15	Sunny	09:00 - 12:06	53.1	54.2	56.5	292.7	500.0
16-Oct-15	Sunny	09:00 - 12:06	133.9	131.6	138.5	292.7	500.0
22-Oct-15	Sunny	09:00 - 12:07	157.0	154.6	151.2	292.7	500.0
28-Oct-15	Sunny	09:00 - 12:06	147.7	145.4	154.6	292.7	500.0

Summary For the Reporting Quarter (Aug 2015 - Oct 2015)	
Average	126.7
Minimum	53.1
Maximum	169.6

Note: No major dust source observed during the monitoring period

1-Hour TSP Monitoring Result at station: SR77 (August 2015 - October 2015)



Project Name: Contract No. CV/2012/09 Liantang / Heung Yuen Wai Boundary Control Point Site Formation and Infrastructure works - Contract 3
Entrusted Portion of Widening of Tolo Highway / Fanling Highway between Island House Interchange and Fanling - Stage 2

Noise Monitoring Result at SR77

Date	Weather Condition	Start Time	End Time	Measured Noise Level (dB(A))*			Baseline Corrected Level, dB(A)**	Baseline Noise Level (dB(A)), Leq(30min)	Limit Level dB(A)	Exceedance (Y / N)
				L10(30min)	L90(30min)	Leq(30min)				
2015/07/03	Fine	17:00	17:30	89.0	56.5	70.0	-	67.8	75.0	N
2015/07/09	Fine	11:30	12:00	81.0	64.0	71.0	-	67.8	75.0	N
2015/07/15	Sunny	15:00	15:30	85.0	54.0	68.5	-	67.8	75.0	N
2015/07/21	Cloudy	15:30	16:00	85.0	58.5	68.0	-	67.8	75.0	N
2015/07/27	Sunny	14:00	14:30	90.0	57.0	68.5	-	67.8	75.0	N
2015/08/07	Sunny	13:30	14:00	85.0	54.5	67.0	-	67.8	75.0	N
2015/08/13	Cloudy	14:00	14:30	86.0	53.5	66.0	-	67.8	75.0	N
2015/08/19	Sunny	14:00	14:30	83.0	54.0	65.0	-	67.8	75.0	N
2015/08/25	Sunny	14:00	14:30	82.0	54.0	64.5	-	67.8	75.0	N
2015/08/31	Cloudy	13:30	14:00	84.0	55.5	65.5	-	67.8	75.0	N
2015/09/11	Sunny	11:30	12:00	84.0	55.0	64.5	-	67.8	75.0	N
2015/09/17	Sunny	11:30	12:00	86.0	50.0	62.0	-	67.8	75.0	N
2015/09/23	Sunny	15:00	15:30	76.5	61.5	67.5	-	67.8	75.0	N
2015/09/29	Sunny	14:00	14:30	78.0	61.0	66.0	-	67.8	75.0	N
2015/10/07	Cloudy	14:00	14:30	88.0	52.0	66.0	-	67.8	75.0	N
2015/10/16	Fine	14:30	15:00	90.0	51.0	66.5	-	67.8	75.0	N
2015/10/22	Fine	14:30	15:00	75.0	55.0	63.5	-	67.8	75.0	N
2015/10/28	Fine	14:00	14:30	91.0	55.0	66.0	-	67.8	75.0	N

Summary For the Reporting Quarter (Aug 2015 - Oct 2015)	
Average	65.4
Minimum	62.0
Maximum	67.5

Remarks

* +3dB(A) Façade effect correction included

** Baseline corrected level is only calculated when measured noise level (Leq) > limit level.

*** Data in **Underline** denotes exceedance of respective Limit Level

**Noise monitoring result: SR77
(August 2015 - October 2015)**

