

Appendix E

Environmental Monitoring Data for

Air and Noise

Appendix E
Air Quality Monitoring Results and their Graphical Presentation

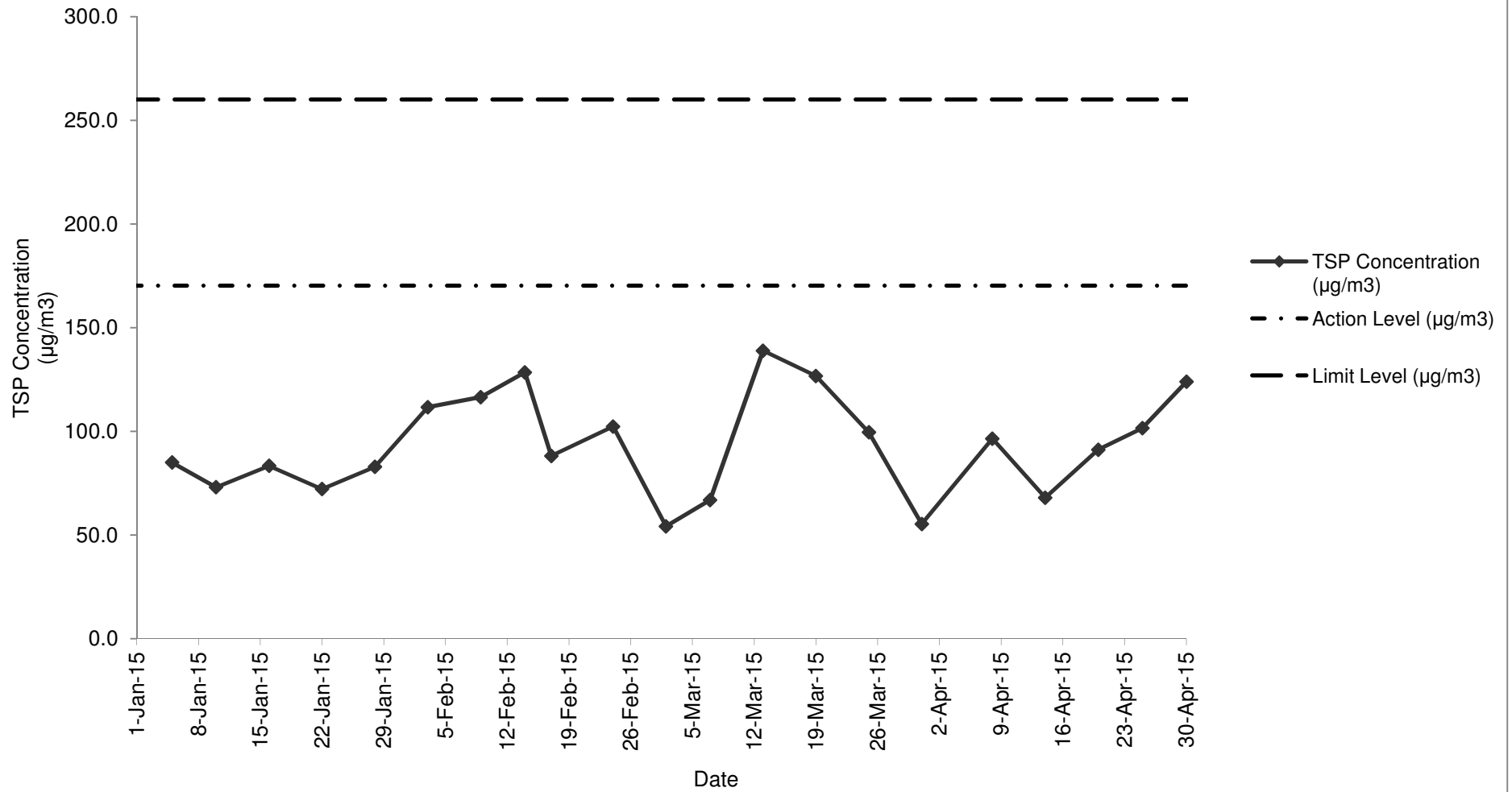
24-Hour TSP Monitoring Result at Station: SR77

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						
5-Jan-15	Fine	B15	2.8047	2.9814	0.1767	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	85.0	170.3	260.0	<5	N
10-Jan-15	Fine	B13	2.8025	2.9544	0.1519	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	73.0	170.3	260.0	<5	N
16-Jan-15	Fine	B11	2.8099	2.9833	0.1734	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	83.4	170.3	260.0	<5	N
22-Jan-15	Fine	B8	2.7922	2.9423	0.1501	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	72.2	170.3	260.0	<5	N
28-Jan-15	Fine	B7	2.7973	2.9697	0.1724	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	82.9	170.3	260.0	<5	N
3-Feb-15	Fine	B31	2.7855	3.0177	0.2322	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	111.7	170.3	260.0	<5	N
9-Feb-15	Fine	B32	2.7691	3.0114	0.2423	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	116.5	170.3	260.0	<5	N
14-Feb-15	Fine	B18	2.8089	3.0760	0.2671	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	128.4	170.3	260.0	<5	N
17-Feb-15	Cloudy	B19	2.8076	2.9909	0.1833	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.1	170.3	260.0	<5	N
24-Feb-15	Cloudy	B35	2.8219	3.0347	0.2128	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	102.3	170.3	260.0	<5	N
2-Mar-15	Cloudy	B34	2.8219	2.9347	0.1128	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	54.2	170.3	260.0	<5	N
7-Mar-15	Cloudy	B37	2.8120	2.9511	0.1391	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	66.9	170.3	260.0	<5	N
13-Mar-15	Fine	B39	2.7991	3.0880	0.2889	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	138.9	170.3	260.0	<5	N
19-Mar-15	Fine	B41	2.8002	3.0637	0.2635	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	126.7	170.3	260.0	<5	N
25-Mar-15	Cloudy	B43	2.7841	2.9911	0.2070	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	99.5	170.3	260.0	<5	N
31-Mar-15	Sunny	B65	2.8170	2.9321	0.1151	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	55.3	170.3	260.0	<5	N
8-Apr-15	Rainy	B67	2.8111	3.0118	0.2007	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	96.5	170.3	260.0	<5	N
14-Apr-15	Fine	B59	2.8093	2.9508	0.1415	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.0	170.3	260.0	<5	N
20-Apr-15	Cloudy	B60	2.8015	2.9910	0.1895	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.1	170.3	260.0	<5	N
25-Apr-15	Fine	B62	2.8018	3.0129	0.2111	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	101.5	170.3	260.0	<5	N
30-Apr-15	Fine	B64	2.7936	3.0513	0.2577	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	123.9	170.3	260.0	<5	N

Summary For the Reporting Quarter (Feb 2015 - Apr 2015)	
Average	98.1
Minimum	54.2
Maximum	138.9

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 (January 2015 - April 2015)



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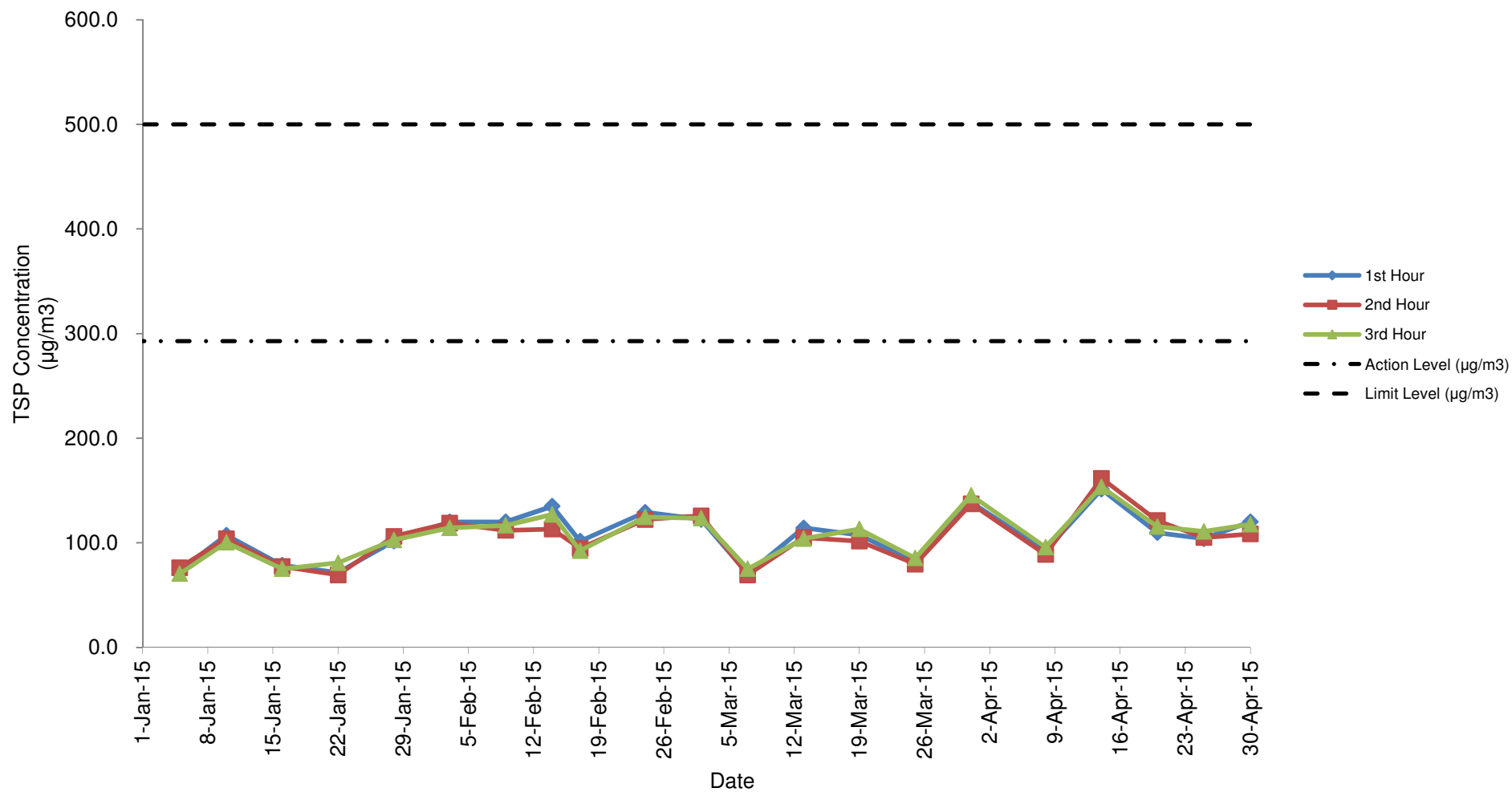
1-Hour TSP Monitoring Result at Station: SR77

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		
5-Jan-15	Fine	09:00 - 12:00	73.9	76.2	70.4	292.7	500.0
10-Jan-15	Fine	09:00 - 12:00	107.3	103.9	100.4	292.7	500.0
16-Jan-15	Fine	09:00 - 12:00	78.5	77.3	75.0	292.7	500.0
22-Jan-15	Fine	09:00 - 12:00	71.6	69.2	80.8	292.7	500.0
28-Jan-15	Fine	09:00 - 12:00	101.6	106.2	102.7	292.7	500.0
3-Feb-15	Fine	09:00 - 12:00	120.0	118.9	114.3	292.7	500.0
9-Feb-15	Fine	09:00 - 12:00	120.0	111.9	116.6	292.7	500.0
14-Feb-15	Fine	09:00 - 12:00	135.0	113.1	126.9	292.7	500.0
17-Feb-15	Cloudy	09:00 - 12:00	101.6	94.6	92.3	292.7	500.0
24-Feb-15	Cloudy	09:00 - 12:00	129.3	122.3	124.6	292.7	500.0
2-Mar-15	Cloudy	09:00 - 12:00	122.3	125.8	123.5	292.7	500.0
7-Mar-15	Cloudy	09:00 - 12:00	70.4	69.2	75.0	292.7	500.0
13-Mar-15	Fine	09:00 - 12:00	114.3	105.0	103.9	292.7	500.0
19-Mar-15	Fine	09:00 - 12:00	107.3	101.6	113.1	292.7	500.0
25-Mar-15	Cloudy	09:00 - 12:00	81.9	79.6	85.4	292.7	500.0
31-Mar-15	Sunny	09:00 - 12:00	138.5	137.3	145.4	292.7	500.0
8-Apr-15	Rainy	09:00 - 12:00	92.3	88.9	95.8	292.7	500.0
14-Apr-15	Fine	09:00 - 12:00	151.2	161.6	153.5	292.7	500.0
20-Apr-15	Cloudy	09:00 - 12:00	109.6	121.2	115.4	292.7	500.0
25-Apr-15	Fine	09:00 - 12:00	103.9	105.0	110.8	292.7	500.0
30-Apr-15	Fine	09:00 - 12:00	120.0	108.5	117.7	292.7	500.0

Summary For the Reporting Quarter (Feb 2015 - Apr 2015)	
Average	112.4
Minimum	69.2
Maximum	161.6

Note: No major dust source observed during the monitoring period

1-Hour TSP Monitoring Result at station: SR77 (January 2015 - April 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)				
2015/01/05	Fine	15:30	16:00	76.5	62.0	71.0	-	67.8	75.0	N
2015/01/16	Fine	14:00	14:30	75.0	65.0	72.0	-	67.8	75.0	N
2015/01/22	Fine	14:30	15:00	76.5	62.5	72.5	-	67.8	75.0	N
2015/01/28	Fine	14:00	14:30	78.5	63.5	72.0	-	67.8	75.0	N
2015/02/03	Fine	14:00	14:30	76.9	69.1	74.6	-	67.8	75.0	N
2015/02/09	Fine	14:30	15:00	76.0	68.5	72.5	-	67.8	75.0	N
2015/02/17	Fine	14:00	14:30	76.0	59.5	71.5	-	67.8	75.0	N
2015/02/24	Cloudy	15:30	16:00	75.5	61.5	70.5	-	67.8	75.0	N
2015/03/02	Cloudy	16:00	16:30	76.5	61.0	69.5	-	67.8	75.0	N
2015/03/13	Fine	14:00	14:30	75.0	60.5	68.5	-	67.8	75.0	N
2015/03/19	Fine	14:30	15:00	75.5	58.5	68.0	-	67.8	75.0	N
2015/03/25	Cloudy	16:00	16:30	77.0	60.0	69.0	-	67.8	75.0	N
2015/03/31	Sunny	11:00	11:30	78.0	61.0	72.8	-	67.8	75.0	N
2015/04/08	Rainy	16:30	17:00	76.0	60.5	70.5	-	67.8	75.0	N
2015/04/14	Fine	15:30	16:00	77.0	62.0	71.0	-	67.8	75.0	N
2015/04/20	Cloudy	11:00	11:30	77.5	65.0	72.0	-	67.8	75.0	N
2015/04/30	Fine	14:45	15:15	77.5	62.5	76.5	75.9	67.8	75.0	Y

Summary For the Reporting Quarter (Feb 2015 - Apr 2015)	
Average	71.3
Minimum	68.0
Maximum	76.5

Remarks

* +3dB(A) Façade effect correction included

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

**Noise monitoring result: SR77
(January 2015 - April 2015)**

