

# **Appendix E**

# **Environmental Monitoring Data for**

# **Air and Noise**

Appendix E  
Air Quality Monitoring Results and their Graphical Presentation

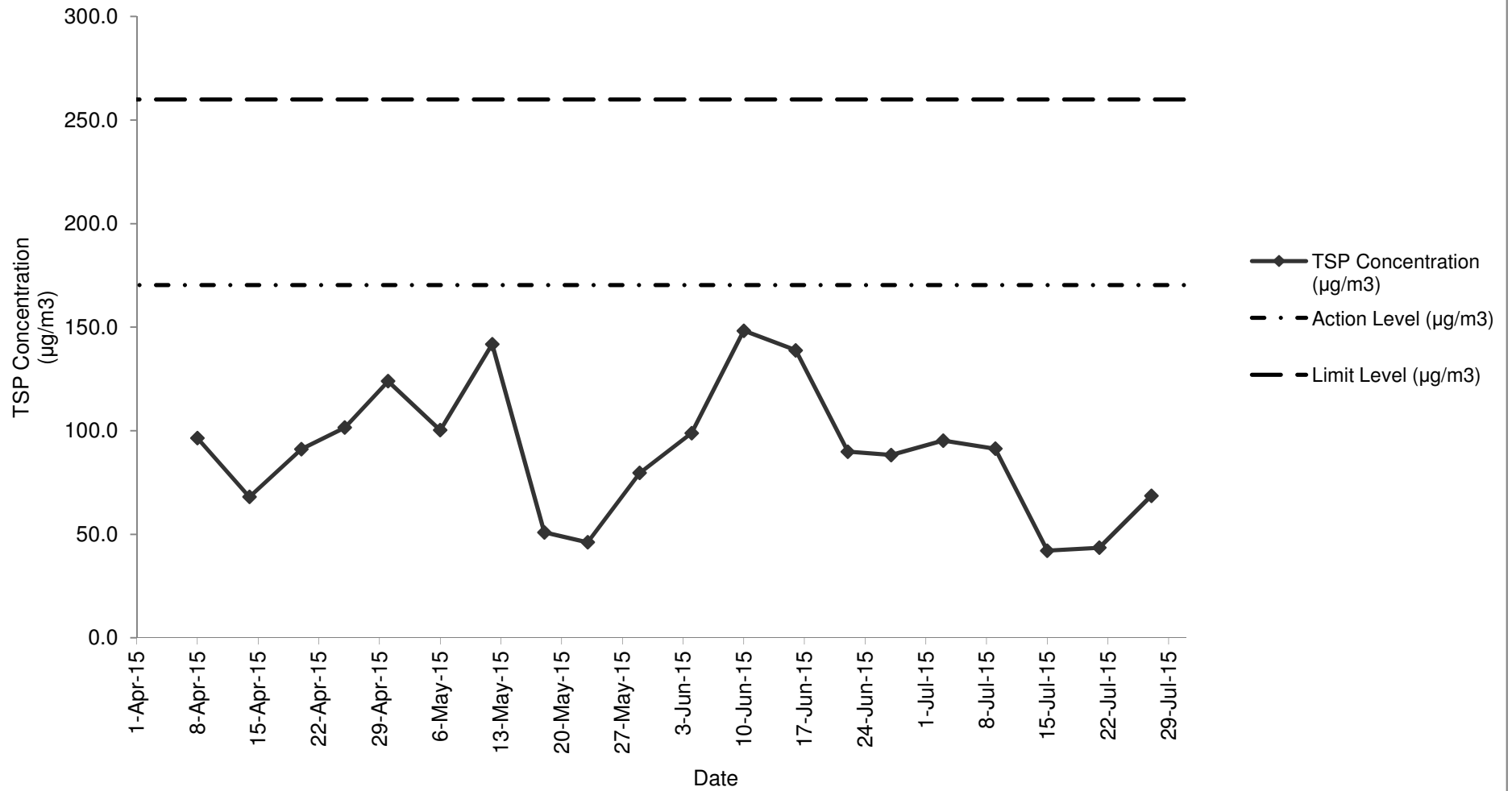
24-Hour TSP Monitoring Result at Station: SR77

Sampling Date	Weather Condition	Paper No.	Wt. of paper (g)			Elapse Time			Flow Rate (CFM)			Flow Rate (m <sup>3</sup> /min)			Total Volume (m <sup>3</sup> )	TSP Concentration (µg/m <sup>3</sup> )	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	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						
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
6-May-15	Fine	B82	2.8026	3.0111	0.2085	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	100.3	170.3	260.0	<5	N
12-May-15	Fine	B84	2.8111	3.1060	0.2949	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	141.8	170.3	260.0	<5	N
18-May-15	Rainy	B86	2.7942	2.9001	0.1059	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	50.9	170.3	260.0	<5	N
23-May-15	Rainy	B88	2.8311	2.9271	0.0960	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	46.2	170.3	260.0	<5	N
29-May-15	Fine	B90	2.8238	2.9894	0.1656	0.00	24.00	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	79.6	170.3	260.0	<5	N
4-Jun-15	Fine	B92	2.8016	3.0071	0.2055	3243.80	3267.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	98.8	170.3	260.0	<5	N
10-Jun-15	Fine	B94	2.7811	3.0894	0.3083	3270.80	3294.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	148.3	170.3	260.0	<5	N
16-Jun-15	Fine	B96	2.8004	3.0890	0.2886	3297.80	3321.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	138.8	170.3	260.0	<5	N
22-Jun-15	Rainy	B98	2.8211	3.0080	0.1869	3324.80	3348.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	89.9	170.3	260.0	<5	N
27-Jun-15	Fine	B100	2.8226	3.0061	0.1835	3351.80	3375.80	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.2	170.3	260.0	<5	N
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

Summary For the Reporting Quarter (May 2015 - Jul 2015)	
Average	88.2
Minimum	42.1
Maximum	148.3

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 (April 2015 - July 2015)



**Appendix E**  
**Air Quality Monitoring Results and their Graphical Presentation**

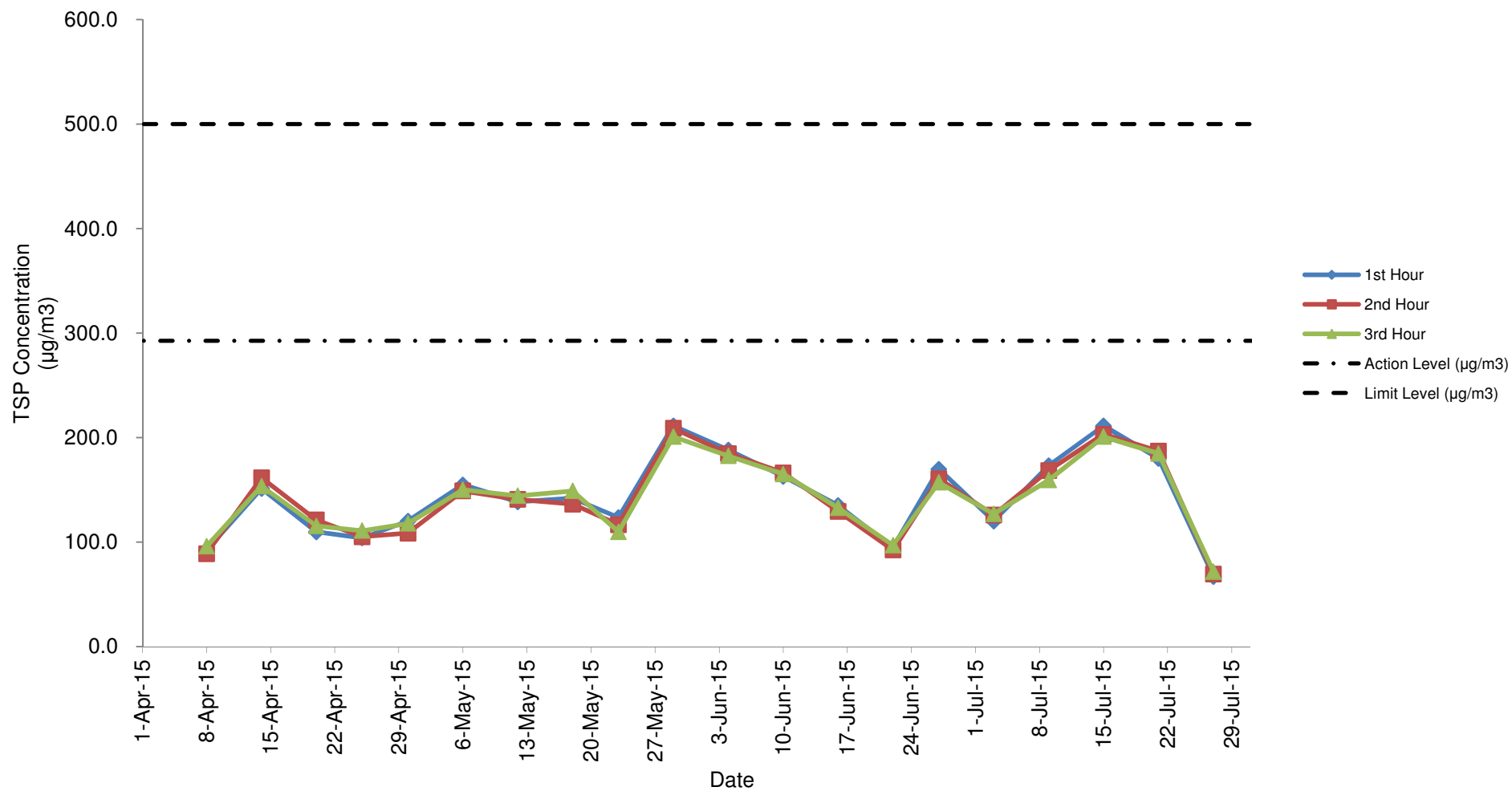
**1-Hour TSP Monitoring Result at Station: SR77**

Date	Weather Condition	Time	Conc.(µg/m <sup>3</sup> )			Action Level (µg/m3)	Limit Level (µg/m3)
			1 <sup>st</sup> Hour	2 <sup>nd</sup> Hour	3 <sup>rd</sup> Hour		
8-Apr-15	Rainy	9:00 - 12:00	92.3	88.9	95.8	292.7	500.0
14-Apr-15	Fine	9:00 - 12:00	151.2	161.6	153.5	292.7	500.0
20-Apr-15	Cloudy	9:00 - 12:00	109.6	121.2	115.4	292.7	500.0
25-Apr-15	Fine	9:00 - 12:00	103.9	105.0	110.8	292.7	500.0
30-Apr-15	Fine	9:00 - 12:00	120.0	108.5	117.7	292.7	500.0
6-May-15	Fine	9:00 - 12:00	154.6	148.9	150.0	292.7	500.0
12-May-15	Fine	9:00 - 12:00	138.5	140.8	144.3	292.7	500.0
18-May-15	Rainy	9:00 - 12:00	142.0	136.2	148.9	292.7	500.0
23-May-15	Rainy	9:00 - 12:00	123.5	116.6	109.6	292.7	500.0
29-May-15	Fine	9:00 - 12:00	211.2	208.9	200.8	292.7	500.0
4-Jun-15	Fine	9:00 - 12:06	188.1	184.7	182.3	292.7	500.0
10-Jun-15	Fine	9:00 - 12:09	162.7	166.2	165.0	292.7	500.0
16-Jun-15	Fine	9:00 - 12:06	135.0	129.3	132.7	292.7	500.0
22-Jun-15	Rainy	9:00 - 12:07	94.6	92.3	96.9	292.7	500.0
27-Jun-15	Fine	9:00 - 12:07	169.6	160.4	157.0	292.7	500.0
3-Jul-15	Fine	9:00 - 12:06	120.0	125.8	126.9	292.7	500.0
9-Jul-15	Rainy	9:00 - 12:09	173.1	168.5	159.3	292.7	500.0
15-Jul-15	Sunny	9:00 - 12:06	211.2	203.1	200.8	292.7	500.0
21-Jul-15	Rainy	9:00 - 12:06	180.0	187.0	184.7	292.7	500.0
27-Jul-15	Sunny	9:00 - 12:09	66.9	69.2	71.6	292.7	500.0

<b>Summary For the Reporting Quarter (May 2015 - Jul 2015)</b>	
<b>Average</b>	149.8
<b>Minimum</b>	66.9
<b>Maximum</b>	211.2

Note: No major dust source observed during the monitoring period

### 1-Hour TSP Monitoring Result at station: SR77 (April 2015 - July 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)				
2015/04/08	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	<b>76.5</b>	-	67.8	75.0	Y
2015/05/06	Fine	15:30	16:00	73.0	60.0	69.1	-	67.8	75.0	N
2015/05/07	Fine	14:30	15:00	73.5	62.5	71.4	-	67.8	75.0	N
2015/05/12	Fine	14:45	15:15	72.0	57.0	67.6	-	67.8	75.0	N
2015/05/19	Rainy	14:00	14:30	76.0	63.5	72.0	-	67.8	75.0	N
2015/05/29	Fine	14:30	15:00	76.5	64.0	71.0	-	67.8	75.0	N
2015/06/04	Fine	13:30	14:00	75.5	59.5	71.5	-	67.8	75.0	N
2015/06/10	Fine	14:00	14:30	80.0	58.5	71.0	-	67.8	75.0	N
2015/06/16	Fine	14:00	14:30	78.0	57.0	71.0	-	67.8	75.0	N
2015/06/22	Rainy	14:00	14:30	80.5	61.0	70.5	-	67.8	75.0	N
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
<b>Summary For the Reporting Quarter (May 2015 - Jul 2015)</b>										
<b>Average</b>									70.1	
<b>Minimum</b>									67.6	
<b>Maximum</b>									72.0	

**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 (April 2015 - July 2015)

