

# Appendix E Environmental Monitoring Data for Air and Noise

Appendix E  
Air Quality Monitoring Results and their Graphical Presentation

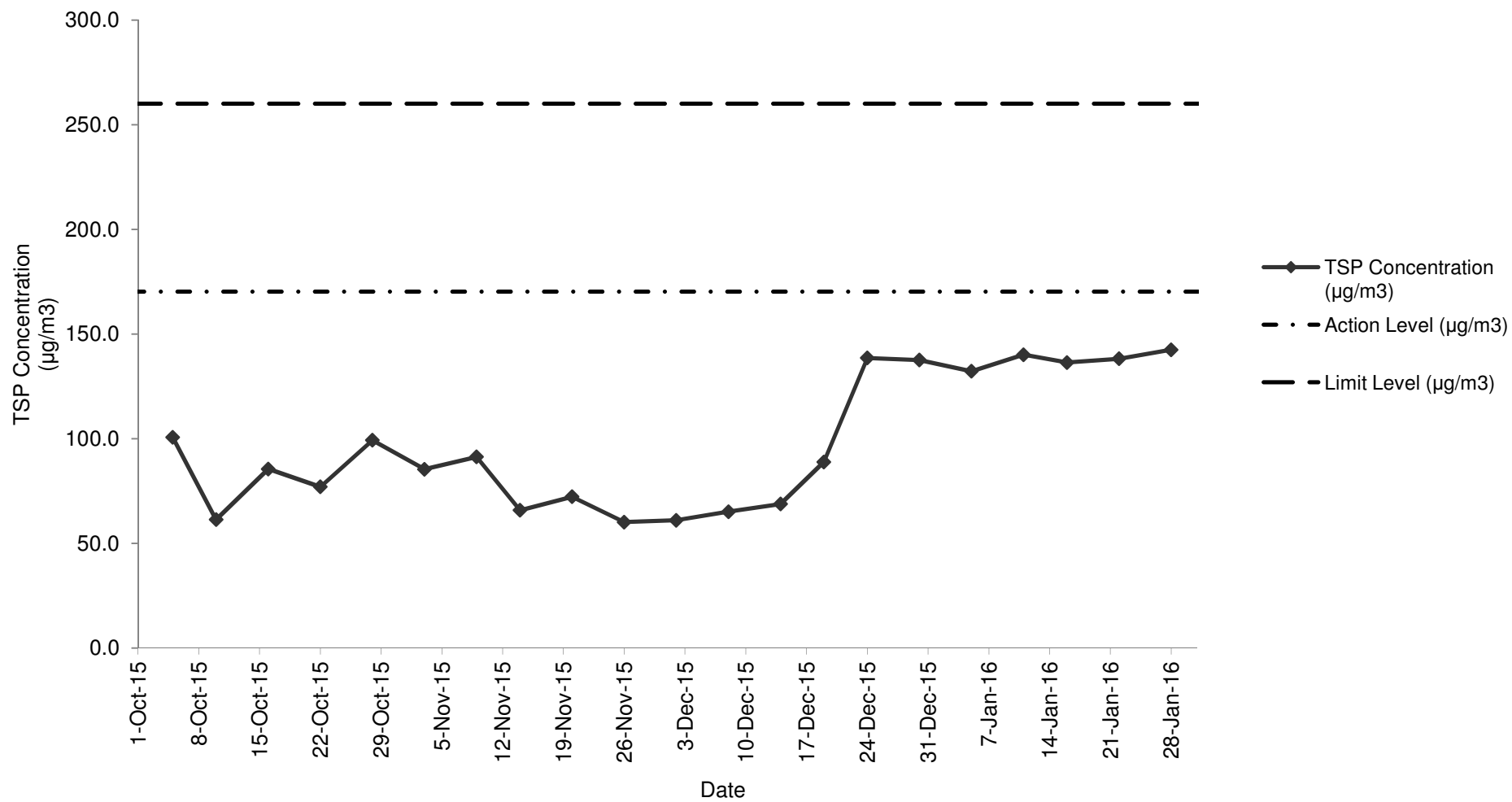
24-Hour TSP Monitoring Result at Station: SR77

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						
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
3-Nov-15	Sunny	C45	2.8536	3.0312	0.1776	3955.67	3979.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	85.4	170.3	260.0	<5	N
9-Nov-15	Sunny	C47	2.8249	3.0149	0.1900	3982.67	4006.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	91.4	170.3	260.0	<5	N
14-Nov-15	Sunny	C49	2.8308	2.9677	0.1369	4009.67	4033.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	65.8	170.3	260.0	<5	N
20-Nov-15	Sunny	C51	2.8297	2.9801	0.1504	4036.67	4060.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	72.3	170.3	260.0	<5	N
26-Nov-15	Sunny	C53	2.8091	2.9342	0.1251	4063.67	4087.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	60.2	170.3	260.0	<5	N
2-Dec-15	Fine	C134	2.8113	2.9383	0.1270	4090.67	4114.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	61.1	170.3	260.0	<5	N
8-Dec-15	Fine	C136	2.8206	2.9561	0.1355	4117.67	4141.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	65.2	170.3	260.0	<5	N
14-Dec-15	Cloudy	C138	2.8111	2.9542	0.1431	4144.67	4168.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	68.8	170.3	260.0	<5	N
19-Dec-15	Sunny	C140	2.8013	2.9862	0.1849	4171.67	4195.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	88.9	170.3	260.0	<5	N
24-Dec-15	Sunny	C142	2.8005	3.0887	0.2882	4198.67	4222.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	138.6	170.3	260.0	<5	N
30-Dec-15	Fine	C144	2.8057	3.0918	0.2861	4225.67	4249.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	137.6	170.3	260.0	<5	N
5-Jan-16	Cloudy	C144	2.8221	3.0971	0.2750	4252.67	4276.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	132.2	170.3	260.0	<5	N
11-Jan-16	Fine	C146	2.8195	3.1110	0.2915	4279.67	4303.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	140.2	170.3	260.0	<5	N
16-Jan-16	Cloudy	C148	2.8049	3.0886	0.2837	4306.67	4330.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	136.4	170.3	260.0	<5	N
22-Jan-16	Cloudy	C150	2.8134	3.1009	0.2875	4333.67	4357.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	138.2	170.3	260.0	<5	N
28-Jan-16	Cloudy	C152	2.8114	3.1078	0.2964	4360.67	4384.67	24.00	51	51	51.0	1.44	1.44	1.44	2079.59	142.5	170.3	260.0	<5	N

Summary For the Reporting Quarter (Nov 2015 - Jan 2016)	
Average	101.5
Minimum	60.2
Maximum	142.5

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 (October 2015 - January 2016)



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

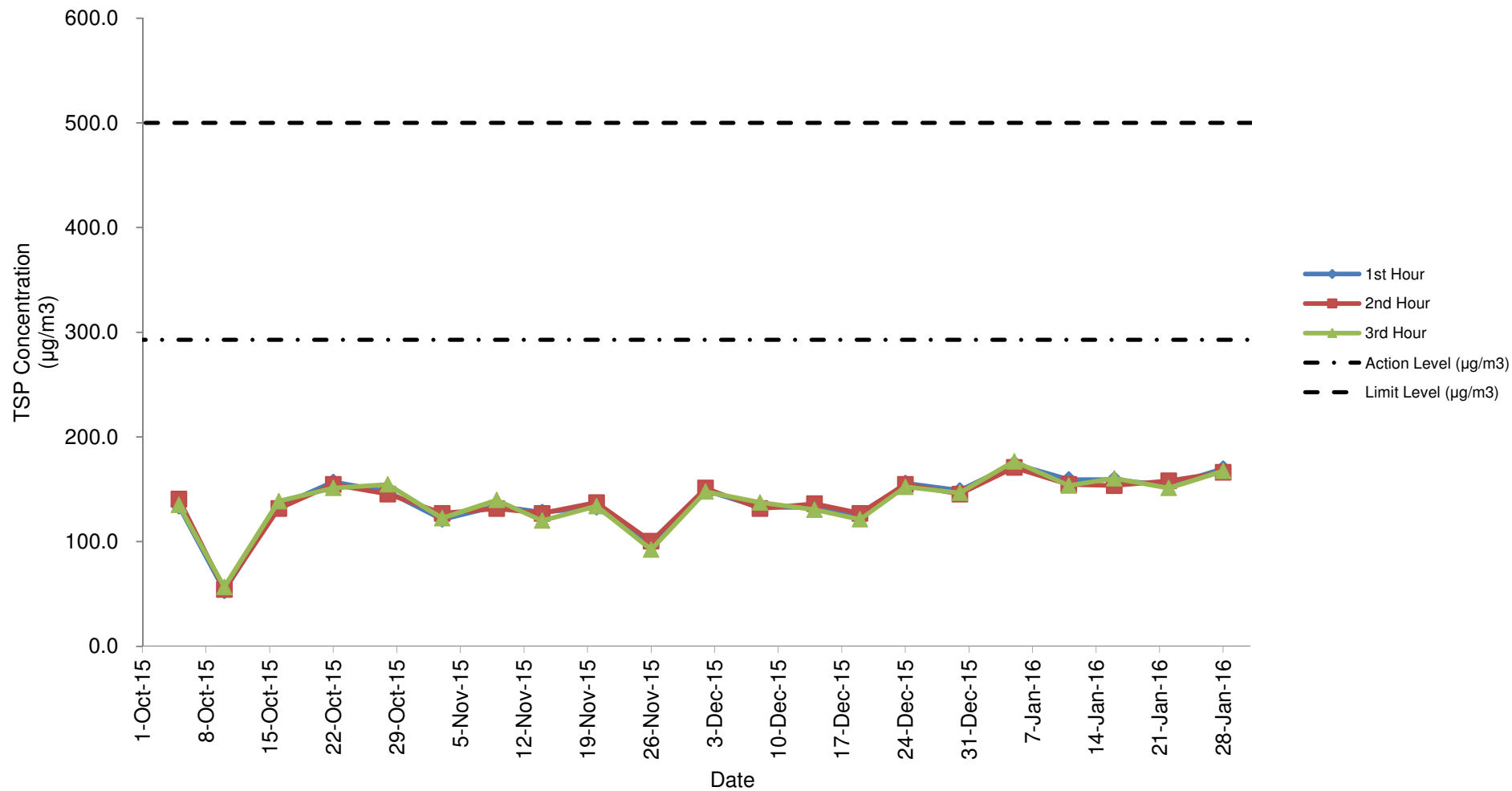
**1-Hour TSP Monitoring Result at Station: SR77**

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		
5-Oct-15	Rainy	9:00 - 12:07	133.9	140.8	135.0	292.7	500.0
10-Oct-15	Sunny	9:00 - 12:06	53.1	54.2	56.5	292.7	500.0
16-Oct-15	Sunny	9:00 - 12:06	133.9	131.6	138.5	292.7	500.0
22-Oct-15	Sunny	9:00 - 12:07	157.0	154.6	151.2	292.7	500.0
28-Oct-15	Sunny	9:00 - 12:06	147.7	145.4	154.6	292.7	500.0
3-Nov-15	Sunny	9:00 - 12:07	121.2	126.9	122.3	292.7	500.0
9-Nov-15	Sunny	9:00 - 12:07	133.9	131.6	139.6	292.7	500.0
14-Nov-15	Sunny	9:00 - 12:06	128.1	126.9	120.0	292.7	500.0
20-Nov-15	Sunny	9:00 - 12:07	132.7	137.3	133.9	292.7	500.0
26-Nov-15	Sunny	9:00 - 12:06	96.9	100.4	92.3	292.7	500.0
2-Dec-15	Sunny	9:00 - 12:07	148.9	151.2	147.7	292.7	500.0
8-Dec-15	Fine	9:00 - 12:07	132.7	131.6	137.3	292.7	500.0
14-Dec-15	Cloudy	9:00 - 12:06	132.7	136.2	130.4	292.7	500.0
19-Dec-15	Sunny	9:00 - 12:07	123.5	126.9	121.2	292.7	500.0
24-Dec-15	Sunny	9:00 - 12:08	155.8	154.6	152.3	292.7	500.0
30-Dec-15	Fine	9:00 - 12:06	148.9	145.4	146.6	292.7	500.0
5-Jan-16	Fine	9:00 - 12:07	174.3	170.8	176.6	292.7	500.0
11-Jan-16	Fine	9:00 - 12:06	159.3	154.6	153.5	292.7	500.0
16-Jan-16	Cloudy	9:00 - 12:06	159.3	153.5	160.4	292.7	500.0
22-Jan-16	Cloudy	9:00 - 12:07	153.5	158.1	151.2	292.7	500.0
28-Jan-16	Rainy	9:00 - 12:07	169.6	166.2	167.3	292.7	500.0

<b>Summary For the Reporting Quarter (Nov 2015 - Jan 2016)</b>	
<b>Average</b>	141.6
<b>Minimum</b>	92.3
<b>Maximum</b>	176.6

Note: No major dust source observed during the monitoring period

### 1-Hour TSP Monitoring Result at station: SR77 (October 2015 - January 2016)



**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)				
2015/10/07	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
2015/11/03	Fine	14:00	14:30	81.5	56.0	65.5	-	67.8	75.0	N
2015/11/09	Fine	16:30	17:00	86.0	53.5	68.0	-	67.8	75.0	N
2015/11/20	Fine	16:00	16:30	90.0	54.0	68.5	-	67.8	75.0	N
2015/11/26	Fine	15:30	16:00	87.0	63.0	65.5	-	67.8	75.0	N
2015/12/02	Fine	14:00	14:30	87.0	51.0	65.0	-	67.8	75.0	N
2015/12/08	Fine	15:00	15:30	90.0	58.5	65.5	-	67.8	75.0	N
2015/12/14	Cloudy	15:00	15:30	89.0	57.5	67.0	-	67.8	75.0	N
2015/12/24	Fine	14:30	15:00	86.5	60.0	68.0	-	67.8	75.0	N
2015/12/30	Fine	14:00	14:30	73.0	58.0	62.0	-	67.8	75.0	N
2016/01/05	Fine	15:00	15:30	87.0	57.5	65.5	-	67.8	75.0	N
2016/01/11	Fine	14:30	15:00	87.0	57.0	63.5	-	67.8	75.0	N
2016/01/23	Cloudy	11:00	11:30	76.0	63.0	67.0	-	67.8	75.0	N
2016/01/29	Cloudy	15:00	15:30	85.5	57.5	62.5	-	67.8	75.0	N

**Summary For the Reporting Quarter  
(Nov 2015 - Jan 2016)**

<b>Average</b>	65.7
<b>Minimum</b>	62.0
<b>Maximum</b>	68.5

**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  
(October 2015 - January 2016)**

