

# 1-hour TSP Monitoring Result for Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works

## AMS2 - Tung Chung Development Pier

Date	Weather Condition	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
6-Oct-20	Fine	09:20	48	54	50	374	500
12-Oct-20	Fine	11:04	42	54	46		
17-Oct-20	Fine	09:23	34	38	40		
23-Oct-20	Fine	11:02	42	46	44		
29-Oct-20	Fine	13:58	52	64	56		
		Min	34				
		Max	64				
		Average	47				

## AMS3C - Ying Tung Estate Market Rooftop

Date	Weather Condition	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
6-Oct-20	Fine	09:00	58	62	60	368	500
12-Oct-20	Fine	11:20	64	56	54		
17-Oct-20	Fine	09:33	44	46	50		
23-Oct-20	Fine	11:16	56	50	54		
29-Oct-20	Fine	14:15	54	48	48		
		Min	44				
		Max	64				
		Average	54				

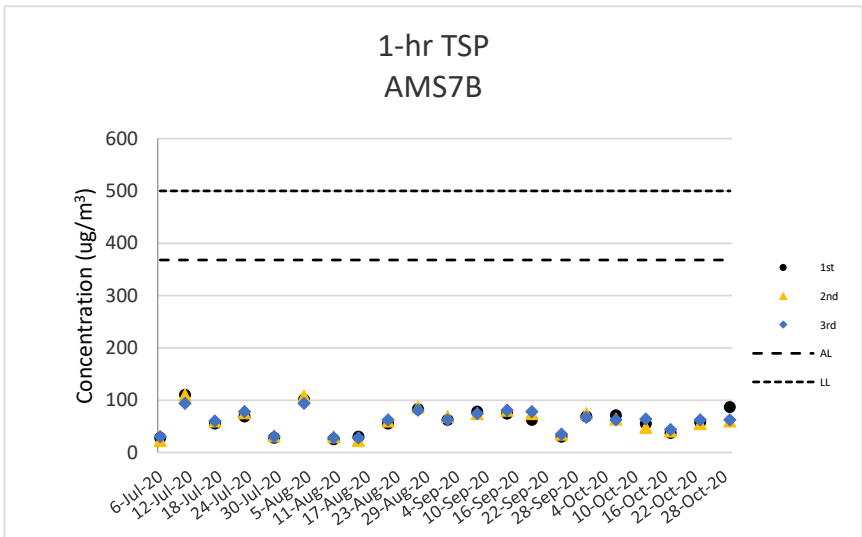
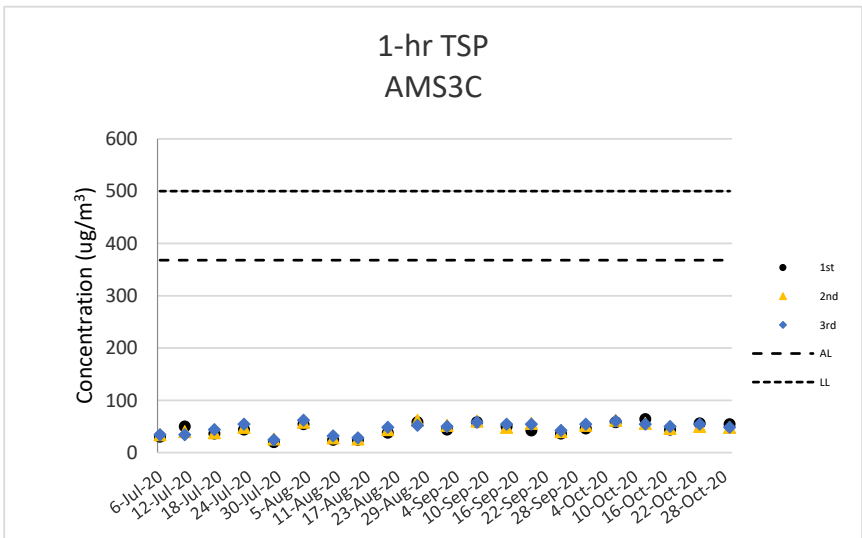
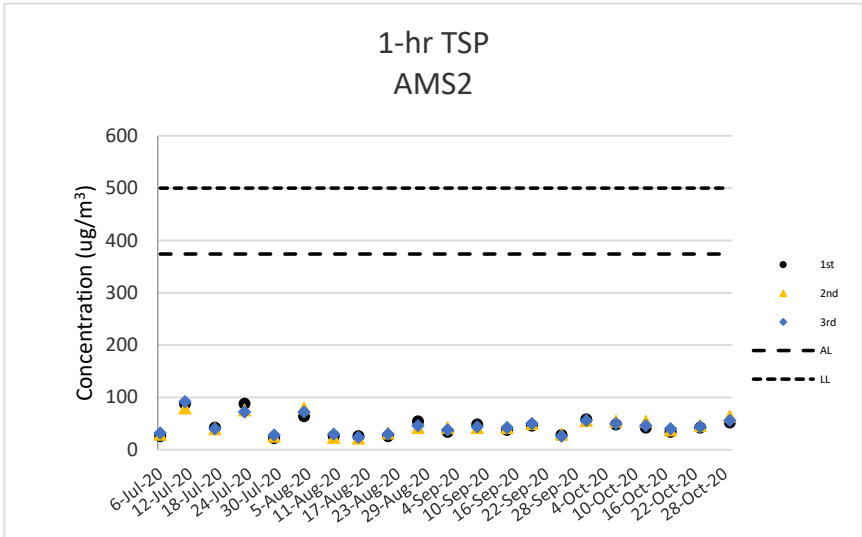
## AMS7B - 3RS Site Offices

Date	Weather Condition	Start Time	1-hour TSP ( $\mu\text{g}/\text{m}^3$ )			Action Level ( $\text{ug}/\text{m}^3$ )	Limit Level ( $\text{ug}/\text{m}^3$ )
			1st Measurement	2nd Measurement	3rd Measurement		
6-Oct-20	Fine	09:43	71	64	62	370	500
12-Oct-20	Fine	10:46	55	48	64		
17-Oct-20	Fine	09:10	37	41	44		
23-Oct-20	Fine	10:49	58	55	62		
29-Oct-20	Fine	13:12	87	60	62		
		Min	37				
		Max	87				
		Average	58				

Note:

Underline: Exceedance of Action Level

**Underline and Bold**: Exceedance of Limit Level



**24-hour TSP Monitoring Result for  
Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

**AMS2 - Tung Chung Development Pier**

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m <sup>3</sup> /min.)		Average flow (m <sup>3</sup> /min.)	Total volume (m <sup>3</sup> )	Conc. (ug/m <sup>3</sup> )	Action Level (ug/m <sup>3</sup> )	Limit Level (ug/m <sup>3</sup> )	
				Initial	Final			Initial	Final						
6-Oct-20	Fine	298.9	760.4	2.5979	2.6733	0.0754	24	1.20	1.20	1.20	1723.0	44	176	260	
12-Oct-20	Fine	301.0	756.6	2.7158	2.7684	0.0526	24	1.19	1.20	1.19	1717.2	31			
17-Oct-20	Fine	298.6	761.2	2.6973	2.7592	0.0619	24	1.20	1.20	1.20	1724.1	36			
23-Oct-20	Fine	296.5	758.6	2.5860	2.7163	0.1303	24	1.34	1.33	1.33	1921.9	68			
29-Oct-20	Fine	297.7	763.0	2.7330	2.8404	0.1074	24	1.56	1.56	1.56	2247.3	48			
												Min	31		
												Max	68		
												Average	45		

**AMS3C - Ying Tung Estate Market Rooftop**

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m <sup>3</sup> /min.)		Average flow (m <sup>3</sup> /min.)	Total volume (m <sup>3</sup> )	Conc. (ug/m <sup>3</sup> )	Action Level (ug/m <sup>3</sup> )	Limit Level (ug/m <sup>3</sup> )	
				Initial	Final			Initial	Final						
6-Oct-20	Fine	303.0	754.7	2.5929	2.6265	0.0336	24	1.24	1.24	1.24	1788.9	19	167	260	
12-Oct-20	Fine	300.1	758.2	2.7076	2.8154	0.1078	24	1.23	1.24	1.24	1783.9	60			
17-Oct-20	Fine	301.1	757.7	2.7325	2.7667	0.0342	24	1.24	1.24	1.24	1789.8	19			
23-Oct-20	Fine	300.2	759.0	2.6000	2.8455	0.2455	24	1.59	1.59	1.59	2293.9	107			
29-Oct-20	Fine	300.4	755.6	2.7404	2.8899	0.1495	24	1.49	1.49	1.49	2143.2	70			
												Min	19		
												Max	107		
												Average	55		

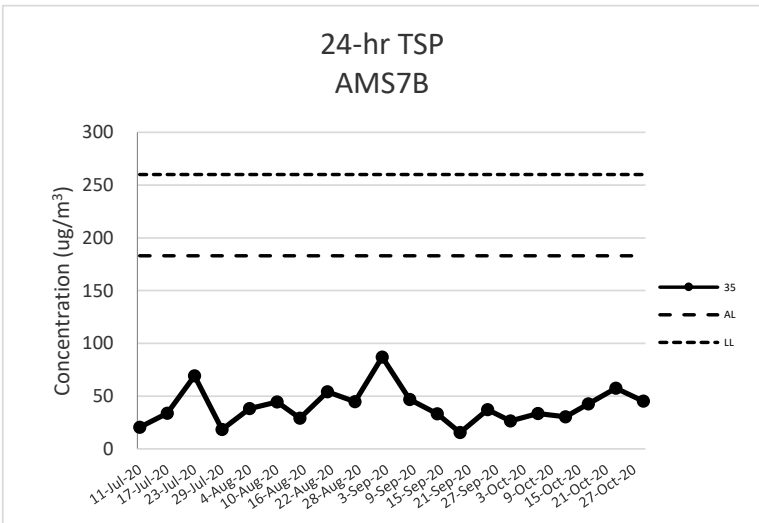
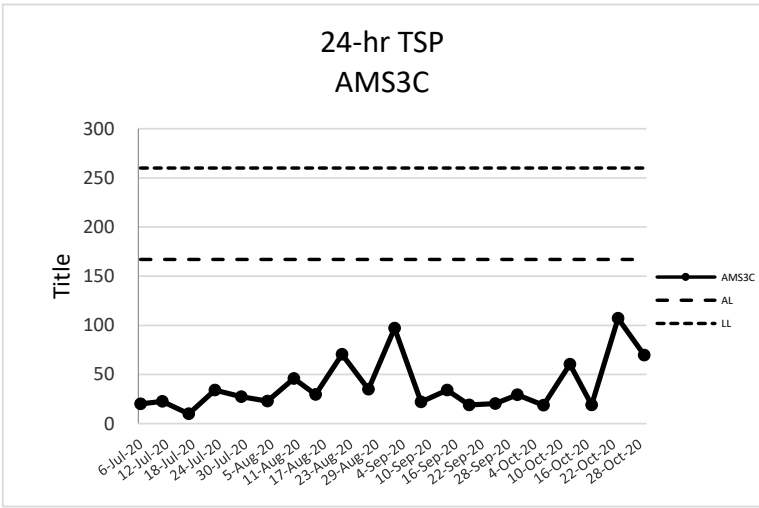
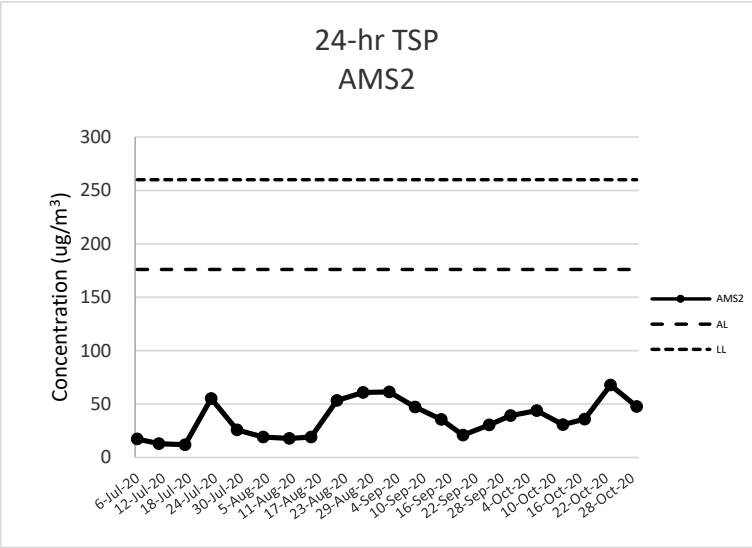
**AMS7B - 3RS Site Offices**

Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m <sup>3</sup> /min.)		Average flow (m <sup>3</sup> /min.)	Total volume (m <sup>3</sup> )	Conc. (ug/m <sup>3</sup> )	Action Level (ug/m <sup>3</sup> )	Limit Level (ug/m <sup>3</sup> )	
				Initial	Final			Initial	Final						
6-Oct-20	Fine	303.0	754.7	2.5949	2.6712	0.0763	24	1.58	1.58	1.58	2269.8	34	183	260	
12-Oct-20	Fine	300.1	758.2	2.7287	2.7976	0.0689	24	1.57	1.58	1.57	2263.4	30			
17-Oct-20	Fine	301.1	757.7	2.7216	2.8078	0.0862	24	1.40	1.40	1.40	2017.1	43			
23-Oct-20	Fine	300.2	759.0	2.6020	2.7084	0.1064	24	1.29	1.28	1.28	1849.4	58			
29-Oct-20	Fine	300.4	755.6	2.7157	2.8083	0.0926	24	1.42	1.42	1.42	2043.3	45			
												Min	30		
												Max	58		
												Average	42		

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level



**Noise Impact Monitoring Result for  
Hong Kong-Zhuhai-Macao Bridge  
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

**NMS2 - Seaview Crescent**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-Oct-20	10:42	59	64	57	2.8	Fine	75
12-Oct-20	12:08	60	65	54	1.2	Fine	75
23-Oct-20	12:04	61	65	55	2.2	Fine	75
29-Oct-20	15:00	61	54	66	0.8	Fine	75
	<b>Max</b>	61					
	<b>Min</b>	59					

**NMS3C - Ying Tung Estate Refuse Collection Point**

Date	Start Time	L <sub>eq</sub> 30min dB(A)	L <sub>10</sub> dB(A)	L <sub>90</sub> dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-Oct-20	09:45	68	70	64	0.9	Fine	70
12-Oct-20	11:25	71	75	66	0.8	Fine	70
23-Oct-20	11:22	68	72	65	1.2	Fine	70
29-Oct-20	14:18	69	64	72	0.4	Fine	65
	<b>Max</b>	71					
	<b>Min</b>	68					

Note:

NMS2: Façade Measurement

NMS3C: Free-field measurement (+3dB(A) correction has been applied), reduction to 65dB(A) during school examination periods will be applied.

No raining or wind with speed over 5 m/s was observed during noise monitoring according to the onsite observation.

