

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 (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
6-May-21	Fine	09:10	42	39	45	374	500
12-May-21	Fine	11:46	32	44	44		
18-May-21	Fine	10:32	41	48	39		
24-May-21	Fine	10:23	36	50	42		
29-May-21	Fine	09:56	42	36	38		
		Min	32				
		Max	50				
		Average	41				

AMS3C - Ying Tung Estate Market Rooftop

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
6-May-21	Fine	09:40	42	47	50	368	500
12-May-21	Fine	12:07	42	48	47		
18-May-21	Fine	11:17	44	51	54		
24-May-21	Fine	10:50	41	60	48		
29-May-21	Fine	10:20	44	51	39		
		Min	39				
		Max	60				
		Average	47				

AMS7B - 3RS Site Offices

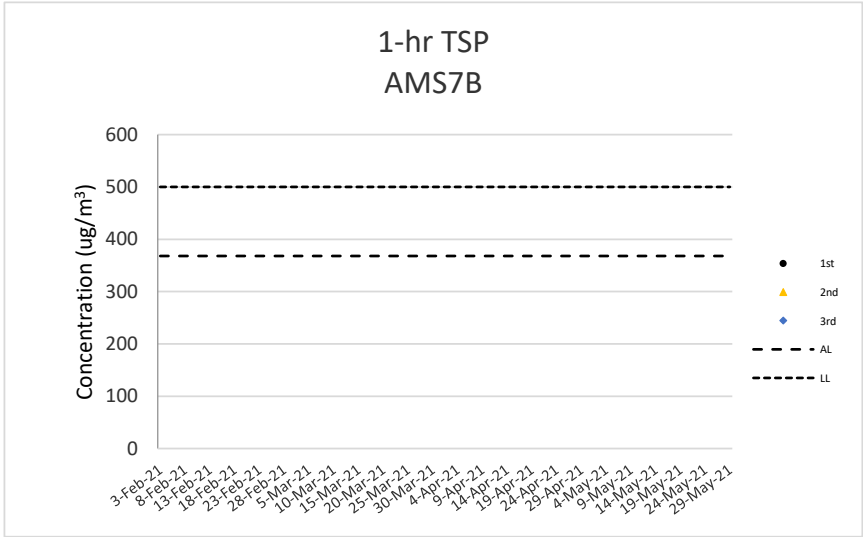
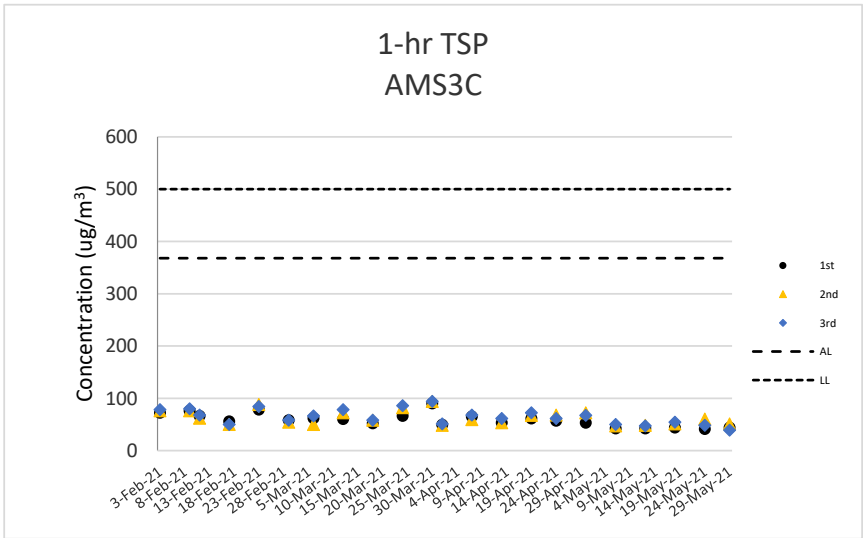
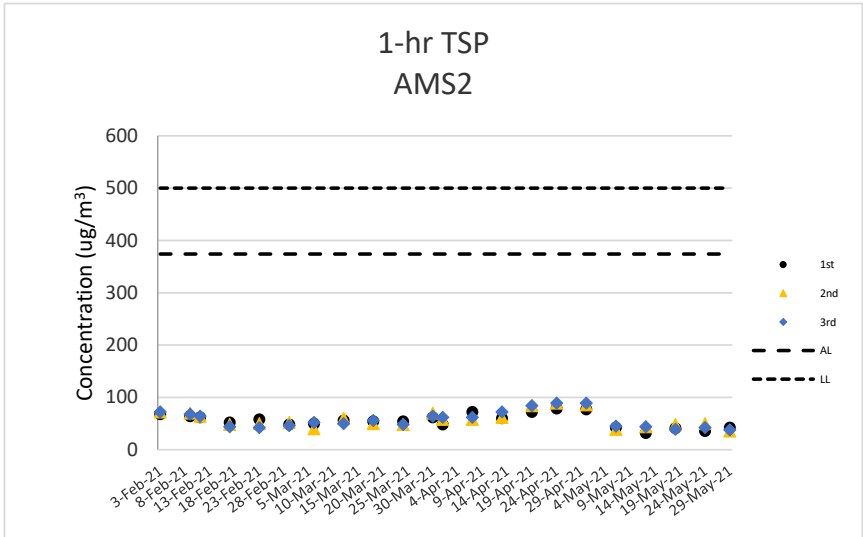
Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
						370	500
		Min					
		Max					
		Average					

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.



**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 ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)	
				Initial	Final			Initial	Final						
6-May-21	Fine	298.4	761.6	2.6853	2.7779	0.0926	24	1.56	1.56	1.56	2245.6	41	176	260	
12-May-21	Fine	302.8	756.3	2.7341	2.7658	0.0317	24	1.55	1.56	1.55	2236.6	14			
18-May-21	Fine	303.4	757.0	2.7258	2.7740	0.0482	24	1.66	1.67	1.67	2401.8	20			
24-May-21	Fine	303.0	757.3	2.7610	2.8012	0.0402	24	1.55	1.56	1.55	2236.9	18			
29-May-21	Fine	303.4	755.4	2.7294	2.7860	0.0566	24	0.96	0.98	0.97	1396.5	41			
												Min	14		
												Max	41		
												Average	27		

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 ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)	
				Initial	Final			Initial	Final						
6-May-21	Fine	299.9	755.8	2.6746	2.7183	0.0437	24	1.41	1.41	1.41	2034.4	21	167	260	
12-May-21	Fine	296.3	762.1	2.7344	2.7638	0.0294	24	1.40	1.41	1.40	2022.9	15			
18-May-21	Fine	299.1	760.3	2.7506	2.7869	0.0363	24	1.54	1.56	1.55	2234.3	16			
24-May-21	Fine	295.7	760.0	2.7450	2.8052	0.0602	24	1.40	1.41	1.41	2023.2	30			
29-May-21	Fine	298.8	759.4	2.7393	2.7956	0.0563	24	1.09	1.10	1.09	1575.4	36			
												Min	15		
												Max	36		
												Average	24		

AMS7B - 3RS Site Offices

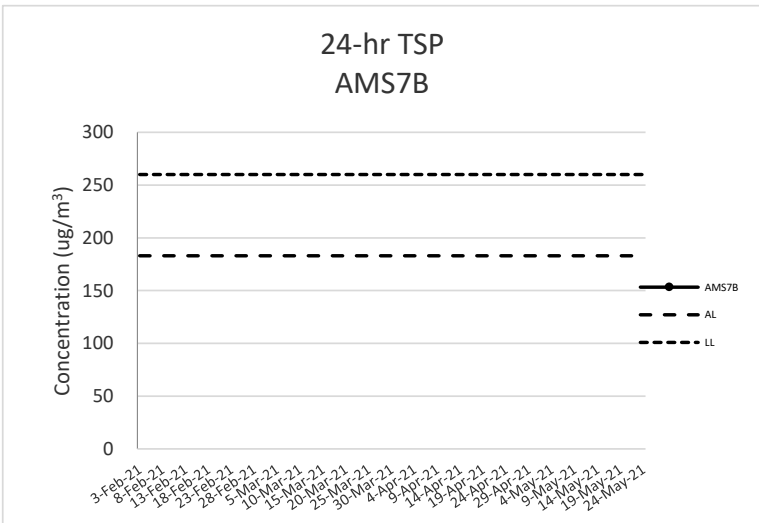
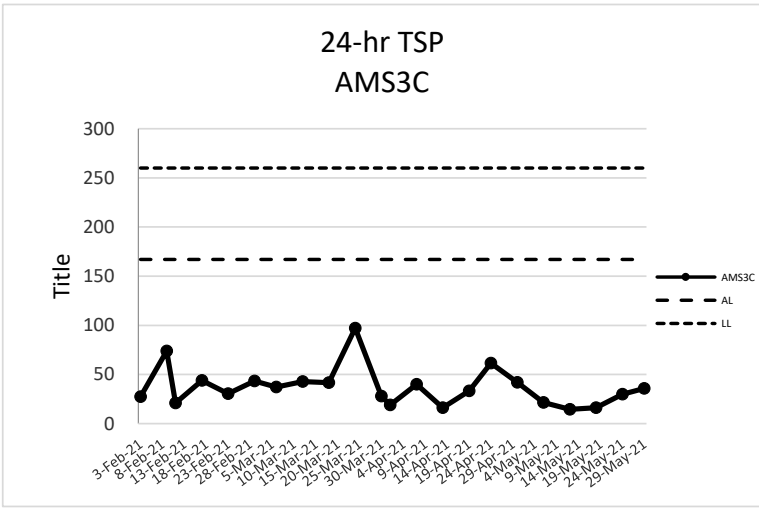
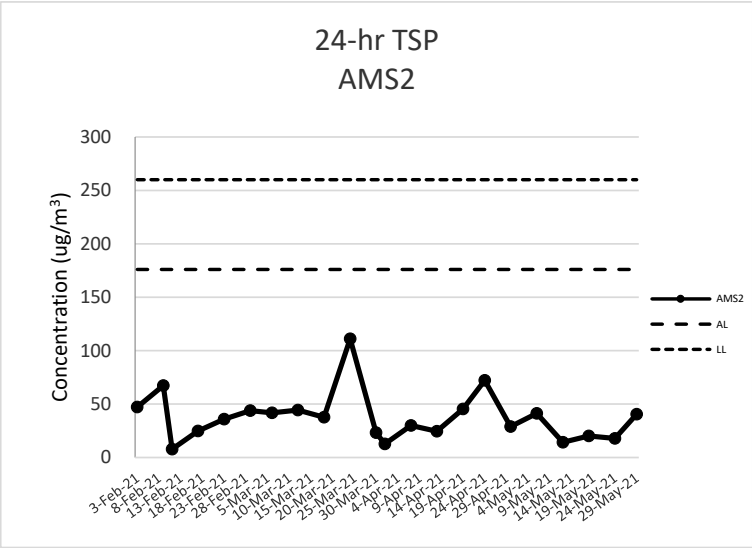
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)	
				Initial	Final			Initial	Final						
													183	260	
												Min			
												Max			
												Average			

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.



**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 _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)
6-May-21	10:45	64	67	58	0.6	Fine	75
12-May-21	13:21	60	69	58	0.9	Fine	75
18-May-21	10:32	60	57	64	0.7	Fine	75
24-May-21	10:11	59	61	55	0.2	Fine	75
	Max	64					
	Min	59					

NMS3C - Ying Tung Estate Refuse Collection Point

Date	Start Time	L _{eq} 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)	Corrected Noise Level*
6-May-21	10:00	68	71	66	0.0	Fine	70	
12-May-21	12:14	67	73	63	0.8	Fine	65	60.4
18-May-21	11:17	71	76	69	0.2	Fine	70	69.1
24-May-21	10:53	72	76	69	0.2	Fine	70	69.9
	Max	72						
	Min	67						

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.

*Corrected Noise Level = $\text{LOG}(10^{(\text{Impact Noise Level}/10)} - 10^{(\text{Baseline Noise Level}/10)}) \times 10$

Baseline Noise Level = 66.3 dB(A)

