

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		
3-Jul-21	Fine	09:02	66	78	51	374	500
9-Jul-21	Cloudy	09:20	62	65	60		
15-Jul-21	Fine	09:00	38	39	39		
21-Jul-21	Fine	13:42	48	51	45		
27-Jul-21	Cloudy	13:27	48	59	56		
		Min	38				
		Max	78				
		Average	54				

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		
3-Jul-21	Fine	09:34	62	75	42	368	500
9-Jul-21	Cloudy	09:41	47	54	51		
15-Jul-21	Fine	09:15	36	39	41		
21-Jul-21	Fine	13:26	41	48	50		
27-Jul-21	Cloudy	13:18	59	69	63		
		Min	36				
		Max	75				
		Average	52				

AMS7B - 3RS Site Offices

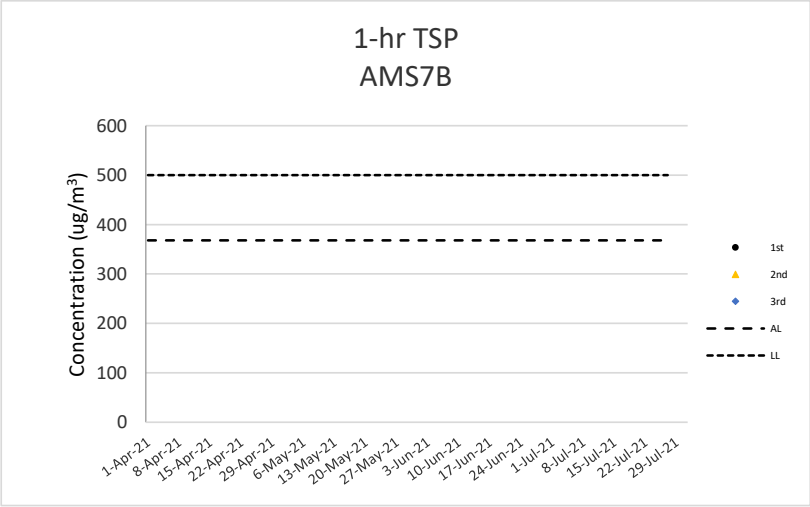
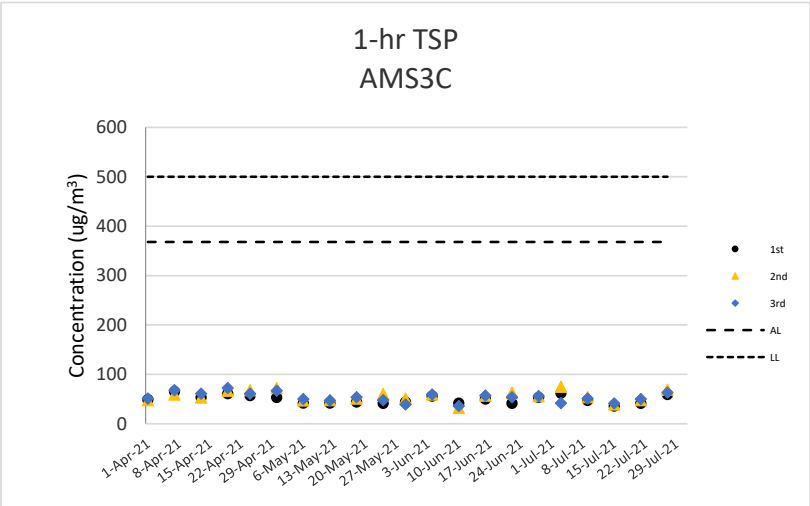
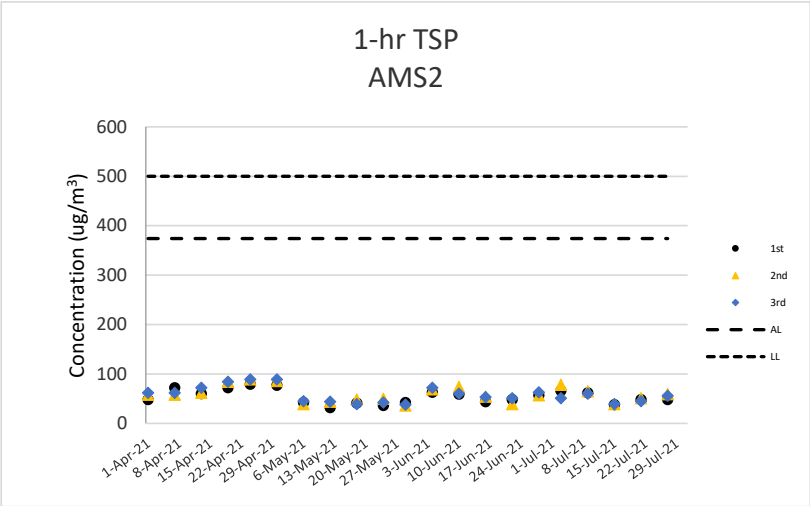
Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level (ug/m^3)	Limit Level (ug/m^3)
			1st Measurement	2nd Measurement	3rd Measurement		
						370	500
		Min					
		Max					
		Average					

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

Air quality monitoring location AMS7B was temporarily 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					
3-Jul-21	Fine	303.6	754.9	2.6686	2.6963	0.0277	24	0.96	0.98	0.97	1396.0	20	176	260
9-Jul-21	Cloudy	303.7	757.8	2.6637	2.7348	0.0711	24	0.96	0.98	0.97	1397.3	51		
15-Jul-21	Fine	304.5	756.7	2.6747	2.7853	0.1106	24	0.96	0.98	0.97	1395.8	79		
21-Jul-21	Fine	300.0	752.3	2.7100	2.7610	0.0510	24	1.04	0.98	1.01	1456.4	35		
27-Jul-21	Cloudy	304.5	747.7	2.7597	2.8270	0.0673	24	0.88	1.05	0.97	1394.5	48		
												Min		
												Max	79	
												Average	47	

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					
3-Jul-21	Fine	303.6	754.9	2.7042	2.7877	0.0835	24	1.09	1.10	1.09	1574.8	53	167	260
9-Jul-21	Cloudy	303.7	757.8	2.7278	2.7462	0.0184	24	1.15	1.16	1.16	1664.1	11		
15-Jul-21	Fine	304.5	756.7	2.6807	2.7166	0.0359	24	1.09	1.10	1.09	1574.6	23		
21-Jul-21	Fine	300.0	752.3	2.7223	2.7697	0.0474	24	1.37	1.39	1.38	1987.5	24		
27-Jul-21	Cloudy	304.5	747.7	2.7442	2.8522	0.1080	24	1.49	1.52	1.50	2164.6	50		
												Min		
												Max	53	
												Average	32	

AMS7B - 3RS Site Offices

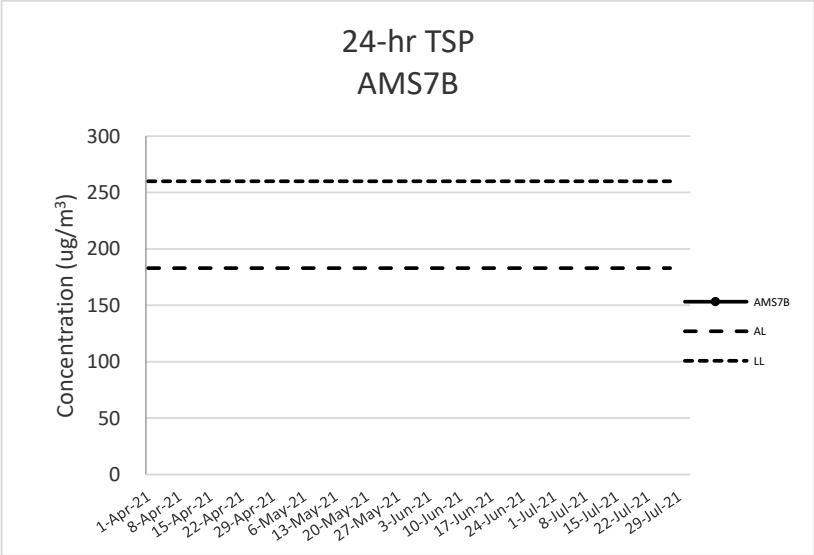
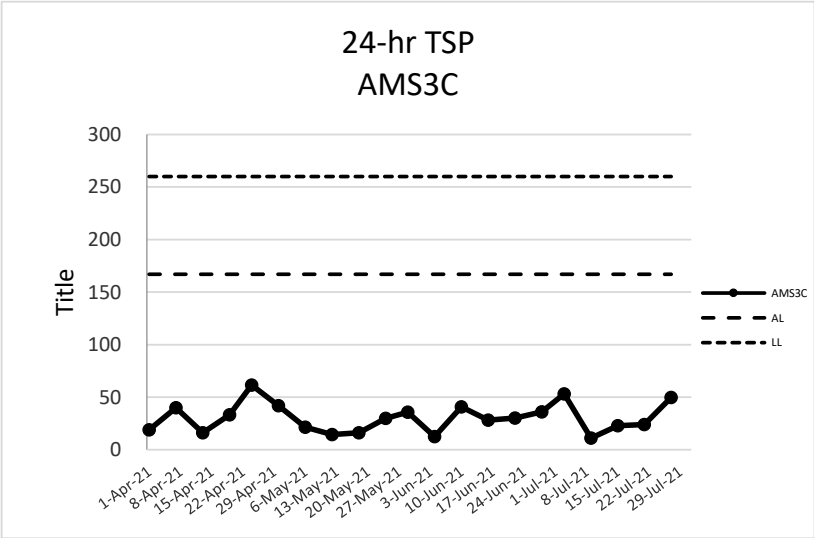
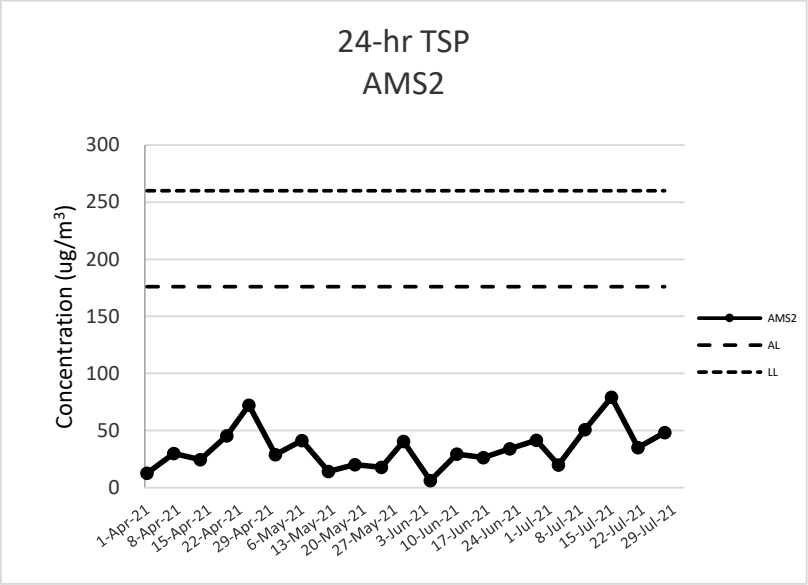
Start Date	Weather Condition	Air Temperature (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Sampling Time(hrs)	Flow Rate (m ³ /min.)		Average flow (m ³ /min.)	Total volume (m ³)	Conc. (ug/m ³)	Action Level (ug/m ³)	Limit Level (ug/m ³)
				Initial	Final			Initial	Final					
													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)
9-Jul-21	10:18	63	66	60	0.3	Cloudy	75
15-Jul-21	10:04	62	65	59	0.4	Fine	75
21-Jul-21	14:17	63	66	60	0.9	Fine	75
27-Jul-21	12:39	56	62	55	0.6	Cloudy	75
	Max	63					
	Min	56					

NMS3C - Ying Tung Estate Refuse Collection Point

Date	Start Time	L ₉₀ 30min dB(A)	L ₁₀ dB(A)	L ₉₀ dB(A)	Wind Speed (m/s)	Weather	Limit Level dB(A)	Corrected Noise Level*
9-Jul-21	11:04	67	68	65	0.8	Cloudy	70	
15-Jul-21	09:21	68	73	66	0.2	Fine	70	
21-Jul-21	13:21	68	72	65	0.4	Fine	70	
27-Jul-21	11:48	69	73	62	0.8	Cloudy	70	
	Max	69						
	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)

