

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 ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Aug-21	Fine	13:12	42	44	50	374	500
7-Aug-21	Fine	13:04	51	59	56		
13-Aug-21	Fine	13:20	57	63	71		
19-Aug-21	Fine	13:17	62	62	68		
25-Aug-21	Fine	14:10	57	50	56		
31-Aug-21	Fine	13:30	62	56	60		
		Min	42				
		Max	71				
		Average	57				

AMS3C - Ying Tung Estate Market Rooftop

Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
2-Aug-21	Fine	13:29	41	39	53	368	500
7-Aug-21	Fine	13:17	62	57	65		
13-Aug-21	Fine	13:39	54	60	51		
19-Aug-21	Fine	13:35	53	60	57		
25-Aug-21	Fine	14:27	44	51	48		
31-Aug-21	Fine	13:48	54	48	47		
		Min	39				
		Max	65				
		Average	52				

AMS7C - East Sea Rescue Berth – Airport Fire Contingent Third Runway Site Office

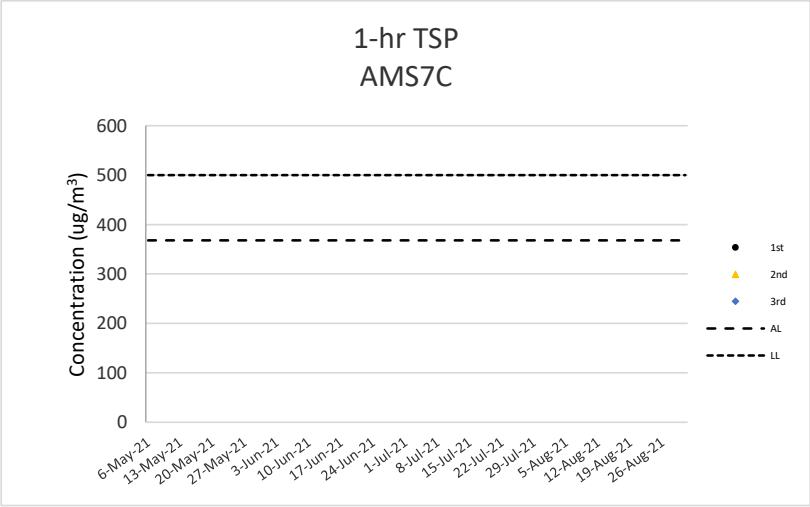
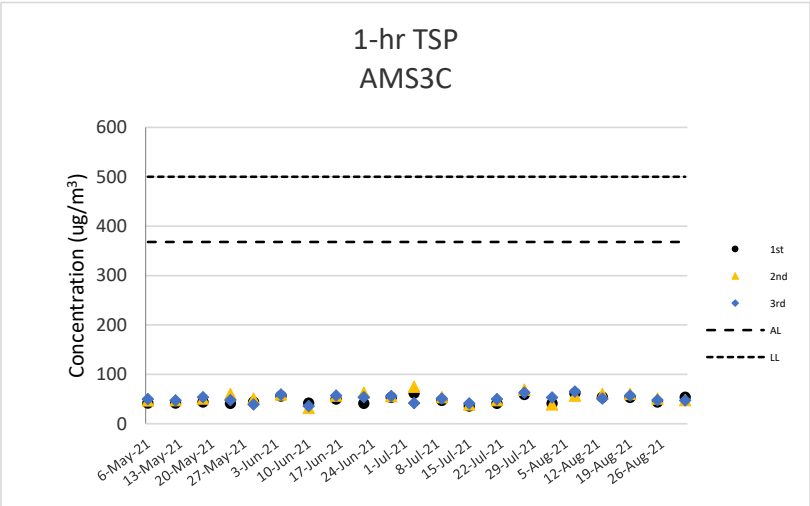
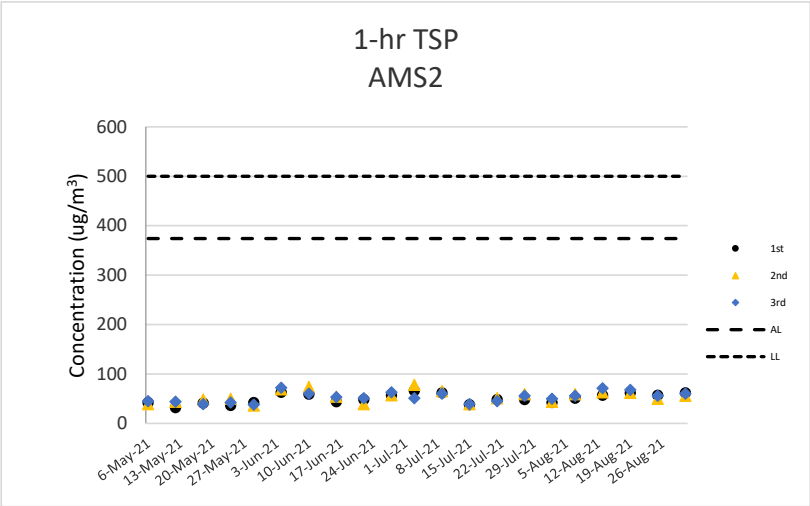
Date	Weather Condition	Start Time	1-hour TSP ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1st Measurement	2nd Measurement	3rd Measurement		
						370	500
		Min					
		Max					
		Average					

Note:

Underline: Exceedance of Action Level

Underline and Bold: Exceedance of Limit Level

1. Air quality monitoring location AMS7B was temporary suspended, effective from 10 December 2020.
2. According to the email date 11 August 2021, EPD have no comment on the Proposal for Relocation of Monitoring Location AMS 7B, the monitoring location AMS 7B are proposed to be relocated by alternative monitoring location AMS 7C for air quality monitoring.



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					
2-Aug-21	Fine	303.2	748.8	2.7153	2.7661	0.0508	24	0.89	0.91	0.90	1293.6	39	176	260
7-Aug-21	Fine	302.0	751.0	2.7414	2.8380	0.0966	24	0.89	0.91	0.90	1297.2	74		
13-Aug-21	Fine	301.8	754.7	0.0000	2.7342	0.0416	24	0.90	0.91	0.90	1300.0	32		
19-Aug-21	Fine	301.8	756.5	2.6728	2.7133	0.0405	24	1.04	0.98	1.01	1456.2	28		
25-Aug-21	Fine	302.9	756.8	2.6728	2.7133	0.0405	24	0.90	1.05	0.97	1403.5	29		
31-Aug-21	Fine	300.5	758.4	2.7013	2.7557	0.0544	24	0.90	0.91	0.91	1304.7	42		
												Min	28	
												Max	74	
												Average	41	

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					
2-Aug-21	Fine	303.2	748.8	2.7017	2.7519	0.0502	24	1.36	1.39	1.38	1980.4	25	167	260
7-Aug-21	Fine	302.0	751.0	2.7110	2.7915	0.0805	24	1.43	1.45	1.44	2077.4	39		
13-Aug-21	Fine	301.8	754.7	2.6594	2.6882	0.0288	24	1.37	1.39	1.38	1986.2	14		
19-Aug-21	Fine	301.8	756.5	2.6613	2.7161	0.0548	24	1.37	1.39	1.38	1987.3	28		
25-Aug-21	Fine	302.9	756.8	2.6613	2.7161	0.0548	24	1.50	1.52	1.51	2173.5	25		
31-Aug-21	Fine	300.5	758.4	2.7012	2.7285	0.0273	24	1.38	1.39	1.38	1990.5	14		
												Min	14	
												Max	39	
												Average	24	

AMS7C - East Sea Rescue Berth – Airport Fire Contingent Third Runway Site Office

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		

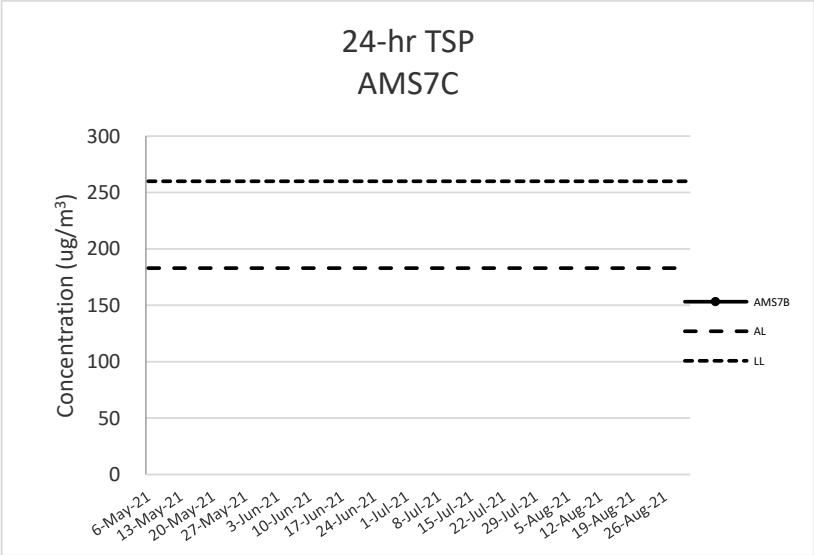
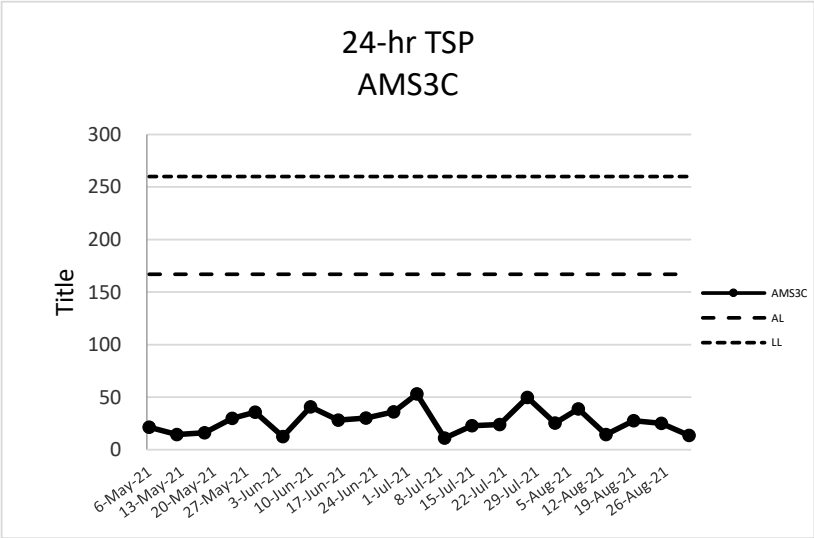
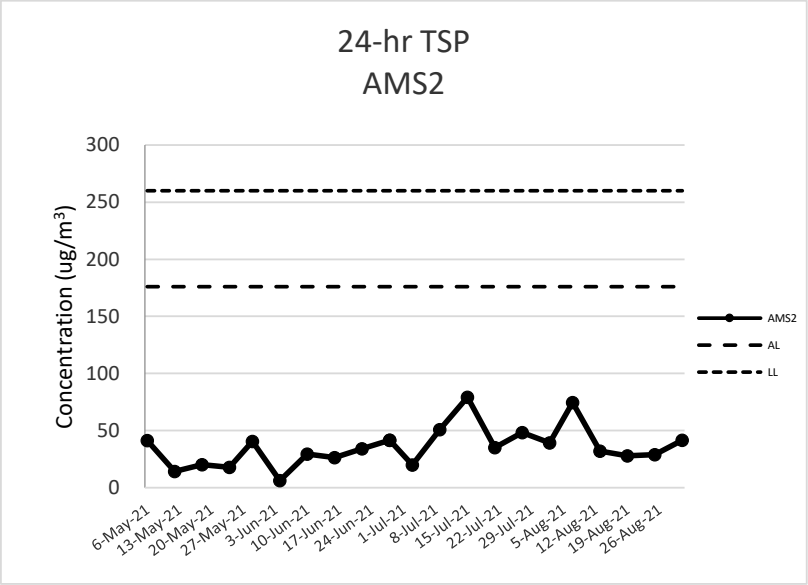
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

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)
2-Aug-21	14:08	62	67	59	0.9	Fine	75
13-Aug-21	14:32	64	66	60	0.8	Fine	75
19-Aug-21	14:25	65	67	61	0.8	Fine	75
25-Aug-21	15:17	63	66	60	1.1	Fine	75
31-Aug-21	14:45	69	71	65	0.9	Fine	75
	Max	69					
	Min	62					

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*
2-Aug-21	13:20	69	73	66	1.3	Fine	70	
13-Aug-21	13:43	68	70	65	0.8	Fine	70	
19-Aug-21	13:38	67	72	65	0.9	Fine	70	
25-Aug-21	14:31	67	69	64	0.8	Fine	70	
31-Aug-21	13:54	70	74	68	1.2	Fine	70	68.3
	Max	70						
	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)

