

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

			1-hour TSP (µg/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
6-Sep-21	Fine	11:00	35	39	39	374	500
11-Sep-21	Fine	13:21	41	33	36		
17-Sep-21	Fine	13:20	38	33	38		
23-Sep-21	Fine	13:13	54	45	50		
29-Sep-21	Fine	13:01	47	41	42		
		Min	33				
		Max	54				
		Average	41				

AMS3C - Ying Tung Estate Market Rooftop

			1-hour TSP (µg/m³)			Action Level (ug/m³)	Limit Level (ug/m³)
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement		
6-Sep-21	Fine	11:18	48	47	47	368	500
11-Sep-21	Fine	13:32	47	45	51		
17-Sep-21	Fine	13:33	48	54	45		
23-Sep-21	Fine	13:29	48	51	48		
29-Sep-21	Fine	13:15	59	56	60		
			Min	45			
			Max	60			
			Average	50			

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

Contingency Area: Runway Site Office							
1-hour TSP (µg/m³)							
Date	Weather Condition	Start Time	1st Measurement	2nd Measurement	3rd Measurement	Action Level (ug/m³)	Limit Level (ug/m³)
						370	500
		Min					
		Max					
		Average					

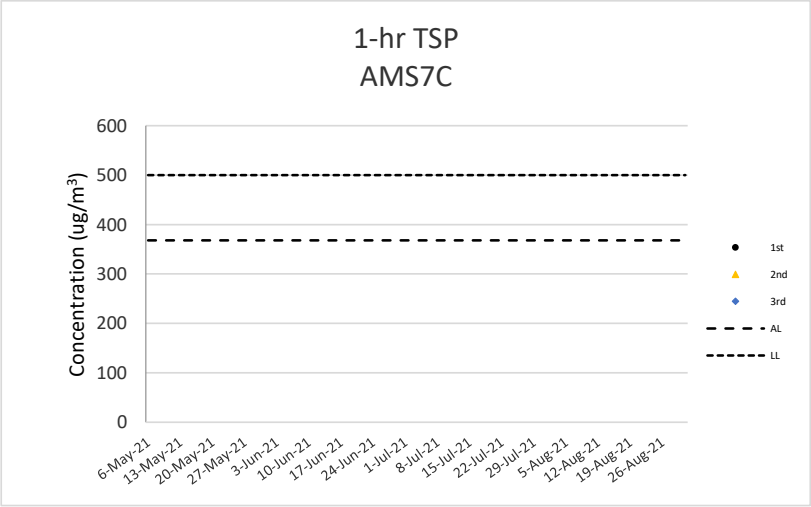
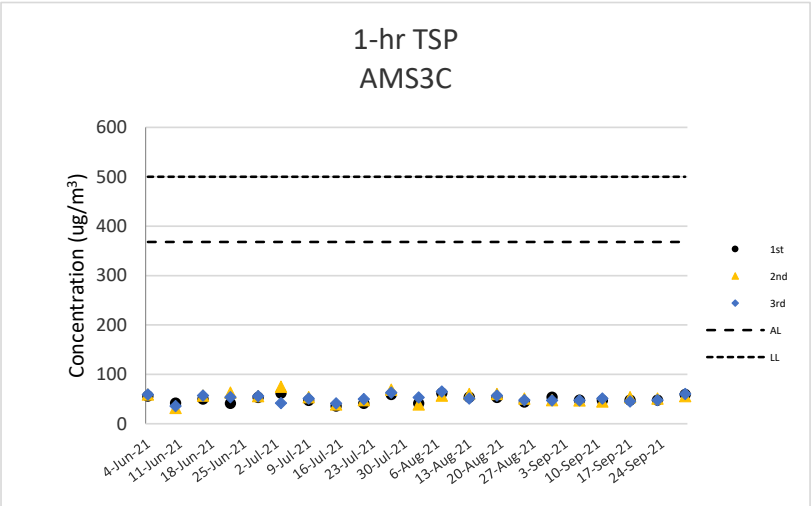
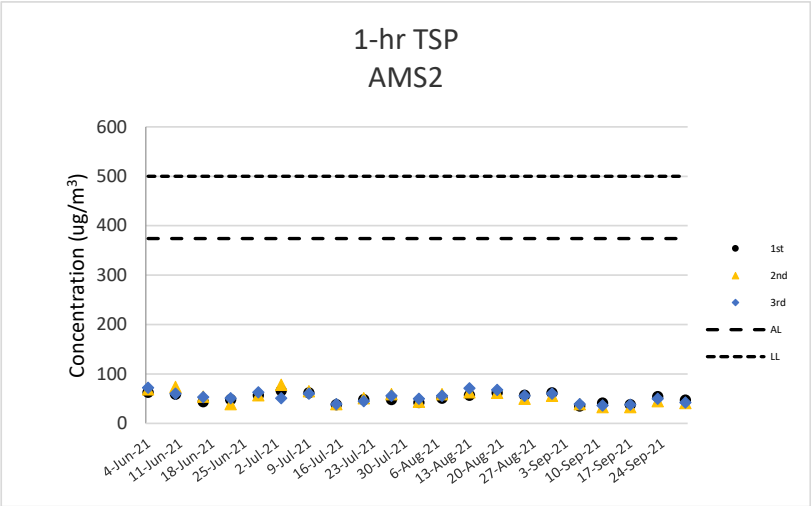
Note:

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					
6-Sep-21	Fine	302.9	757.9	2.7424	2.8096	0.0672	24	0.90	0.91	0.90	1300.3	52	176	260
11-Sep-21	Fine	303.7	756.3	2.6528	2.7742	0.1214	24	0.89	0.91	0.90	1297.9	94		
17-Sep-21	Fine	302.7	757.0	2.7536	2.8558	0.1022	24	1.32	1.33	1.33	1908.9	54		
23-Sep-21	Fine	301.2	759.8	2.7089	2.7587	0.0498	24	1.47	1.41	1.44	2075.7	24		
29-Sep-21	Fine	302.9	756.3	2.7354	2.8395	0.1041	24	1.32	1.48	1.40	2016.5	52		
												Min	24	
												Max	94	
												Average	55	

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-Sep-21	Fine	302.9	757.9	2.7534	2.7998	0.0464	24	1.37	1.39	1.38	1986.5	23	167	260
11-Sep-21	Fine	303.7	756.3	2.7347	2.8796	0.1449	24	1.43	1.45	1.44	2078.0	70		
17-Sep-21	Fine	302.7	757.0	2.6766	2.7836	0.1070	24	1.36	1.38	1.37	1974.1	54		
23-Sep-21	Fine	301.2	759.8	2.7040	2.7475	0.0435	24	1.37	1.38	1.37	1978.6	22		
29-Sep-21	Fine	302.9	756.3	2.7128	2.8545	0.1417	24	1.51	1.52	1.51	2179.6	65		
												Min	22	
												Max	70	
												Average	47	

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		

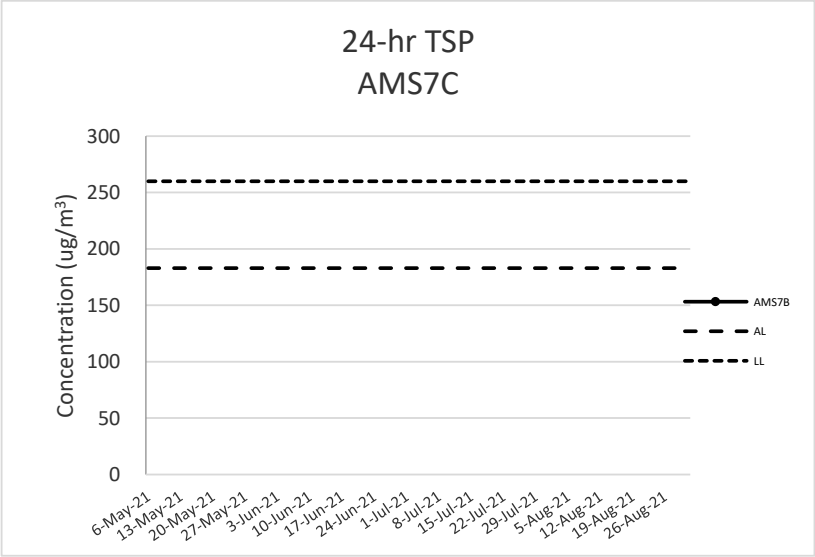
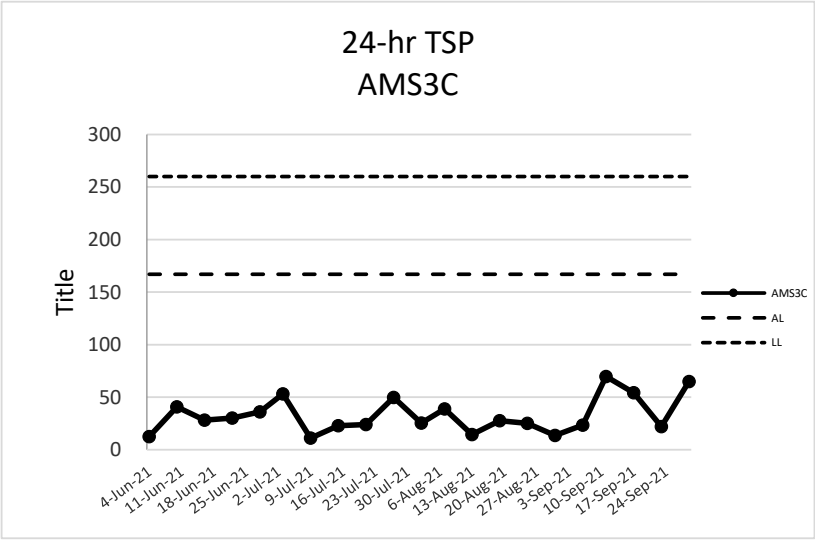
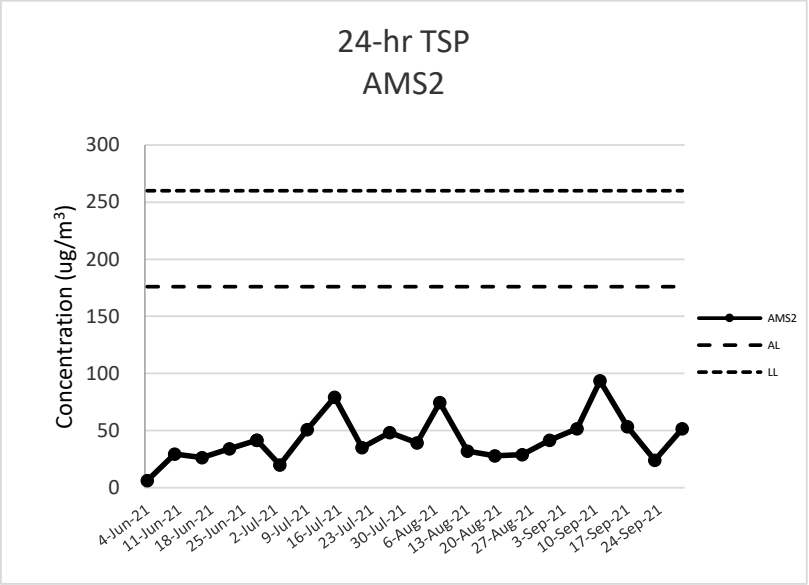
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

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)
6-Sep-21	12:16	58	53	63	0.4	Fine	75
17-Sep-21	14:20	62	65	60	0.7	Fine	75
23-Sep-21	14:13	59	62	58	0.7	Fine	75
29-Sep-21	14:00	61	64	59	0.9	Fine	75
	Max	62					
	Min	58					

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-Sep-21	11:27	66	57	71	0.0	Fine	70	
17-Sep-21	13:36	70	73	66	0.9	Fine	70	67.9
23-Sep-21	13:32	71	74	69	0.8	Fine	70	69.6
29-Sep-21	13:17	69	72	66	1.2	Fine	70	
	Max	71						
	Min	66						

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)

