

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		
3-Nov-21	Fine	13:05	56	51	54	374	500
9-Nov-21	Fine	12:21	32	35	39		
15-Nov-21	Fine	08:40	48	47	53		
20-Nov-21	Fine	11:47	33	38	41		
26-Nov-21	Fine	08:43	53	59	54		
Min			32				
Max			59				
Average			46				

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		
3-Nov-21	Fine	13:17	106	113	103	368	500
9-Nov-21	Fine	12:46	67	67	74		
15-Nov-21	Fine	08:52	98	94	96		
20-Nov-21	Fine	12:02	62	58	58		
26-Nov-21	Fine	08:55	82	77	89		
Min			58				
Max			113				
Average			83				

AMS7C - East Sea Rescue Berth – Airport Fire ContingentThird 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		
3-Nov-21	Fine	14:10	55	53	59	370	500
9-Nov-21	Fine	12:06	55	53	49		
15-Nov-21	Fine	09:11	51	48	51		
20-Nov-21	Fine	11:30	55	40	63		
26-Nov-21	Fine	09:14	57	53	55		
Min			40				
Max			63				
Average			53				

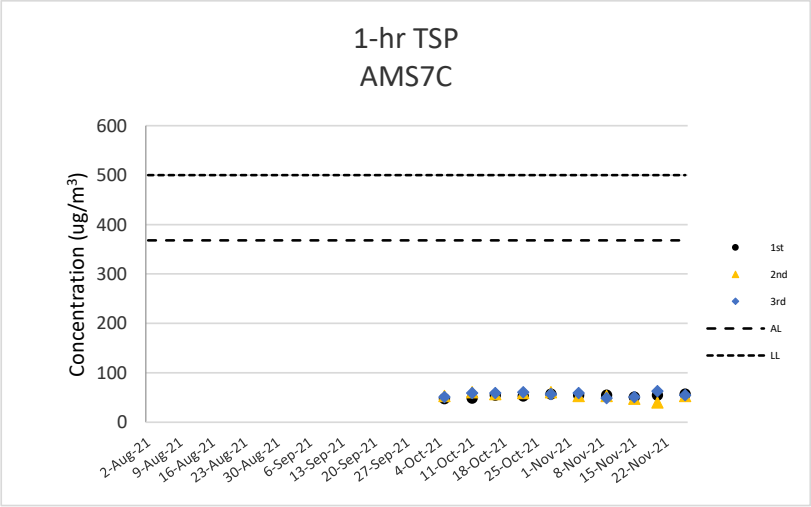
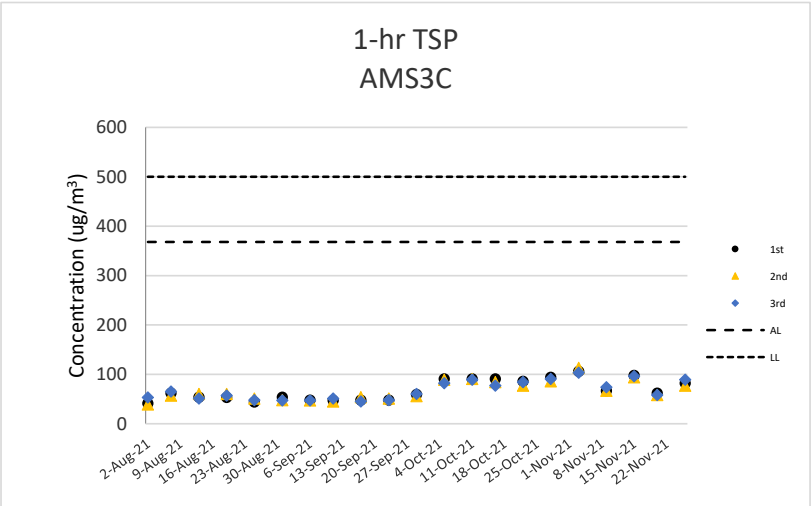
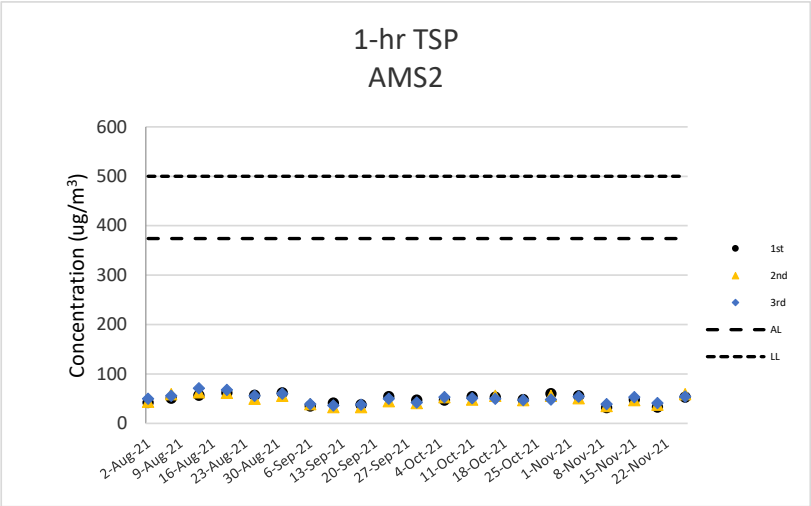
Note:

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					
3-Nov-21	Fine	298.4	762.6	2.7743	2.8652	0.0909	24	1.33	1.33	1.33	1920.6	47	176	260
9-Nov-21	Fine	292.7	764.5	2.7567	2.9105	0.1538	24	1.35	1.33	1.34	1932.5	80		
15-Nov-21	Fine	295.3	763.0	2.8077	2.9418	0.1341	24	1.34	1.33	1.34	1926.6	70		
20-Nov-21	Fine	296.9	759.7	2.6800	2.7687	0.0887	24	1.34	1.33	1.33	1921.3	46		
26-Nov-21	Fine	294.8	763.9	2.6776	2.8022	0.1246	24	1.35	1.33	1.34	1928.1	65		
												Min	46	
												Max	80	
												Average	61	

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-Nov-21	Fine	298.4	762.6	2.7779	2.9158	0.1379	24	1.38	1.38	1.38	1985.3	69	167	260
9-Nov-21	Fine	292.7	764.5	2.7584	2.8269	0.0685	24	1.47	1.45	1.46	2101.0	33		
15-Nov-21	Fine	295.3	763.0	2.7938	2.9632	0.1694	24	1.39	1.38	1.38	1991.0	85		
20-Nov-21	Fine	296.9	759.7	2.6532	2.7700	0.1168	24	1.38	1.38	1.38	1985.9	59		
26-Nov-21	Fine	294.8	763.9	2.6892	2.8722	0.1830	24	1.53	1.52	1.53	2200.7	83		
												Min	33	
												Max	85	
												Average	66	

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					
3-Nov-21	Fine	298.4	762.6	2.7716	2.8641	0.0925	24	1.54	1.54	1.54	2218.2	42	183	260
9-Nov-21	Fine	292.7	764.5	2.7590	2.9250	0.1660	24	1.56	1.54	1.55	2229.0	74		
15-Nov-21	Fine	295.3	763.0	2.7961	2.8920	0.0959	24	1.69	1.68	1.68	2421.6	40		
20-Nov-21	Fine	296.9	759.7	2.6787	2.8223	0.1436	24	1.54	1.54	1.54	2218.8	65		
26-Nov-21	Fine	294.8	763.9	2.7555	2.8906	0.1351	24	1.69	1.68	1.68	2423.2	56		
												Min	40	
												Max	74	
												Average	55	

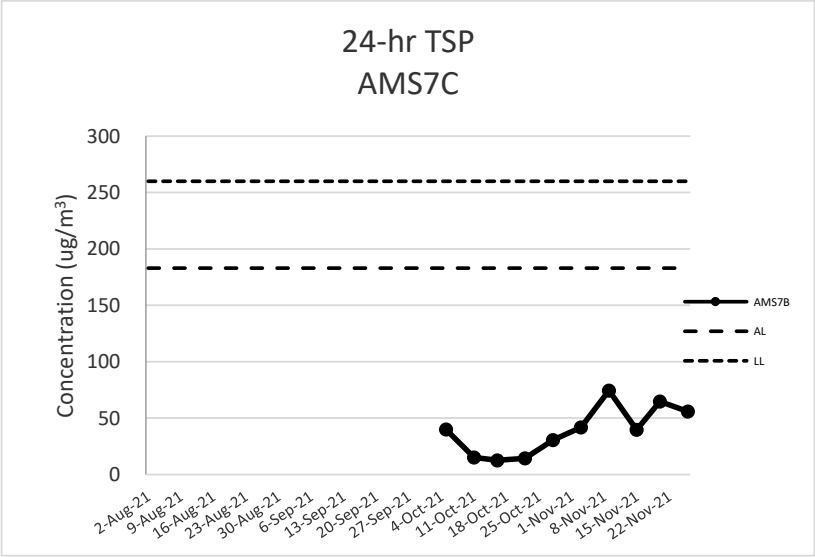
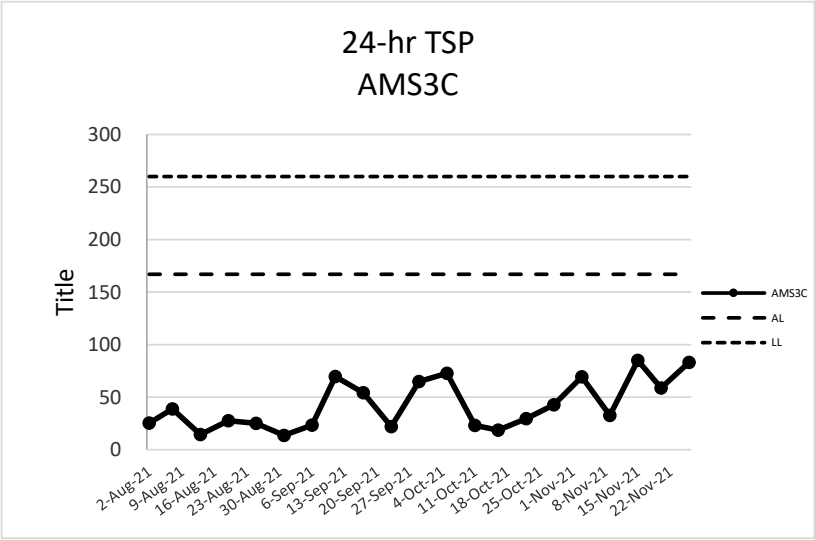
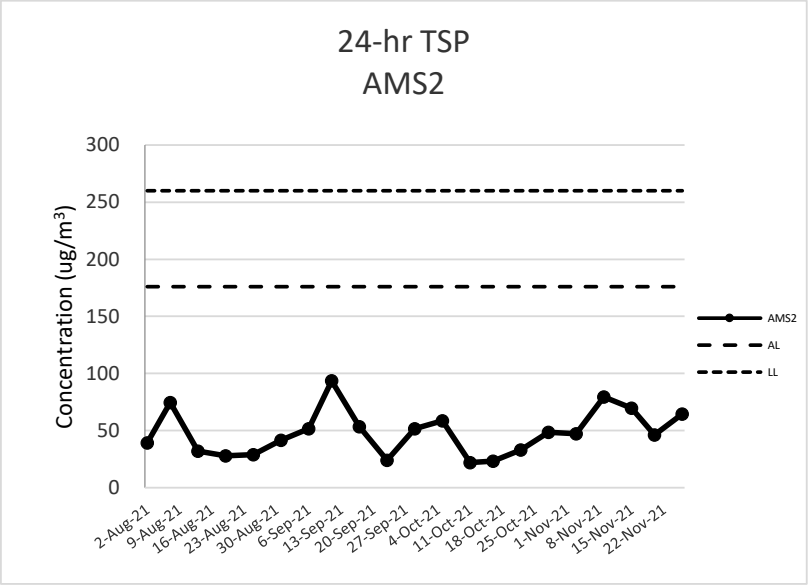
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**Noise Impact Monitoring Result for
Hong Kong-Zhuhai-Macao Bridge
Hong Kong Boundary Crossing Facilities – Phase 2 and Other Works**

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)
3-Nov-21	14:35	63	65	60	0.9	Fine	75
9-Nov-21	13:45	57	60	53	1.2	Fine	75
15-Nov-21	09:30	60	62	58	0.8	Fine	75
26-Nov-21	09:34	63	65	61	0.9	Fine	75
	Max	63					
	Min	57					

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*
3-Nov-21	13:20	71	74	68	0.7	Fine	70	69.4
9-Nov-21	12:51	64	68	56	2.0	Fine	70	
15-Nov-21	10:11	64	66	61	0.5	Fine	65	
26-Nov-21	10:18	70	72	67	1.2	Fine	70	
	Max	71						
	Min	64						

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)

