Development at West Kowloon Cultural District

Quarterly Environmental Monitoring and Audit (EM&A) Report (August 2021 – October 2021)

November 2021

This Quarterly EM&A Report has been reviewed and certified by the Environmental Team Leader (ETL) and verified by the Independent Environmental Checker (IEC).

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	Environmental Team Leader (ETL)
	West Kowloon Cultural District Authority
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	Independent Environmental Checker (IEC)
	Meinhardt Infrastructure and Environment Ltd
Date	30 Nov 2021

This Report Consists of:

Part-1: EM&A at Lyric Theatre Complex

and

Part-2: EM&A for Foundation Works in Zones 2A, 2B & 2C

Part-1: EM&A at Lyric Theatre Complex



Lyric Theatre Complex

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Executive summary

This Quarterly EM&A Report presents the monitoring works at Lyric Theatre Complex conducted from 1 August 2021 to 31 October 2021. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

Exceedance of Action and Limit Levels

There was no breach of Action and Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting quarter.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

Landscape and visual impact inspections were conducted as part of the abovementioned weekly site inspections during the reporting quarter. No adverse comment on landscape and visual aspects were made during these inspections.

Record of Complaints

Six complaints were received during the reporting quarter.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting guarter.

1 Introduction

1.1 Background

Mott MacDonald Hong Kong Limited (MMHK) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction of M+ Museum Main Works (Contract No.: CC/2015/3A/022) and Lyric Theatre Complex including the Foundation Works (Contract No.: CC/2015/3A/014), L1 Contract (Contract No. CC/2017/3A/030) and L2 Contract (Contract No. CC/2017/3A/031) at West Kowloon Cultural District (WKCD) (The Project) as part of the WKCD development. The Project Proponent is the West Kowloon Cultural District Authority (WKCDA). The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary also falls under this same category.

The M+ museum development aims to provide an iconic presence for the M+ museum, semi-transparent vertical plane, housing education facilities, a public restaurant and museum offices. At ground and lower levels, generous access will be provided to the park and other West Kowloon Cultural District facilities, alongside a public resource centre, theatres, retail and dining, and back-of-house functions.

The 1,200-seat Lyric Theatre Complex will be Hong Kong's first world-class facility for dance performances, including ballet, contemporary and Chinese dance forms. In the run up to the opening of further major performing arts venues in the WKCD, it will also be used for a wide variety of performing arts events including drama, opera and musical performances. The Lyric Theatre Complex will act as a platform for Hong Kong's leading arts organisations and be a new major venue to show programmes from Asia and worldwide.

The Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works conducted from 1 August 2021 to 31 October 2021. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Status of Construction Works in the Reporting Period

During the reporting period, construction works at L2 undertaken include:

LTC construction

Structure (Slab, wall, columns and beam)

- Falsework and formwork erection
- Reinforcement work
- Concrete work

ABWF & MEP work

LT temporary deck

- ASDA and Lyric Theatre Promenade
 - Structure and BS works
- DSC cofferdam (Cofferdam A)
 - Install DCS pipes/valve/ fittings (DN500/ DN1400) outside chamber Construction of Valve Chamber
 - Construction of valve chamber (upper and middle portion)
 - DCS related works
- Modification to existing pump cell
 - ABWF works
- Extended basement
 - ABWF & MEP work
 - RC Water Tank
 - RC Duct Slab (Forms/Rebar/Concrete)
 - Carpark area plaster and paint
- Underpass and Associated Area
 - RC Structure (Waffle Ceiling)
 - ABWF & MEP work
- M+ Day 2 Works
 - Hoarding Work
 - Open excavation
- P32 Interim Development
 - Structure works (Scaffold/forms/rebar concrete)

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

2 Summary of EM&A Requirements and Mitigation Measures

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

Table 2.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies	Action level	Limit level
Air Quality	24-Hour TSP	AM1 - International Commerce Centre	At least once every 6 days	143.6 µg/m³	260 μg/m³
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 μg/m³	500 μg/m³
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 μg/m³	260 μg/m³
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 μg/m³	500 μg/m³
Noise	Leq, 30 minutes	NM1- The Harbourside Tower 1	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly	N/A	N/A

In the context of the monitoring activities at M+ Museum and the Lyric Complex, three monitoring stations had been considered, including AM1 (International Commerce Centre), AM2 (The Harbourside Tower 1) for air monitoring, and NM1 (The Harbourside Tower 1) for noise monitoring. Other monitoring locations were so far away from M+ Museum and the Lyric Complex and could not be representative for impact monitoring.

The Harbourside management office formally rejected our proposal of setting up air quality and noise monitoring equipment on its premises at the podium level of Tower 1 (AM2/NM1) on 10 November 2015. Nevertheless, a suitable air quality monitoring location at AM2 was identified on the ground floor in front of The Harbourside Tower 1, which is at the same location as that of baseline monitoring for consistency. No management approval is required on the ground floor for conducting the air monitoring. However, the electricity supply at AM2 was suspended from 31 August 2016. In order to have a more secure electricity supply, an alternative air monitoring location (AM2A) was identified at Austin Road West opposite to The Harbourside Tower 1, which

is close to Lyric Theatre Complex site entrance. This alternative air monitoring location was approved by EPD on 28 September 2016. Due to the works programme, the air monitoring location AM2A has been relocated to the alternative monitoring location AM2B at the 1st floor of Gammon's site office, which was approved by EPD on 21 February 2019. In view of the upcoming construction works to be undertaken at the air monitoring station AM2B, AM2B was no longer available for conducting the impact air quality monitoring. Hence, an alternative air monitoring location was identified on the ground floor in front of The Harbourside Tower 1 (AM2) which is at the same location as the baseline monitoring and this previously approved monitoring location had also been used for the EM&A Programme from November 2015 to August 2016, the relocation was approved by EPD on 27 May 2021.

Alternative noise monitoring location was identified at The Arch (NM2); however, The Arch management office formally rejected our proposal of setting up noise monitoring equipment on its premises on 23 November 2015. On the other hand, noise monitoring at G/F of Harbourside could not be representative. However, approval from the management office of the International Commerce Centre has been granted on 29 February 2016 for conducting noise monitoring at the alternative noise monitoring location identified at the podium floor (NM1A) which is free from screening to the construction activities.

In short, 2 air quality monitoring stations and 1 noise impact monitoring station were confirmed for the impact monitoring.

2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.

3 Summary of EM&A Results

3.1 Monitoring Data

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results is presented in **Table 3.1**.

Table 3.1: Summary of Monitoring Data

Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	AM1	19	74	39
	AM2	25	94	51
24 hour TSP	AM1	7	64	24
	AM2	8	113	36
Construction Noise				
Leq(30min)	NM1A	67	68	68

3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in **Table 3.2**.

Table 3.2: Summary of Exceedances

Monitoring Station	Parameter	No. of Exc	eedance	Action Taken
		Action Level	Limit Level	•
Air Quality				
AM1	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
AM2	1 hour TSP	0	0	N/A
	24 hour TSP	0	0	N/A
Construction Noise				
NM1A	Leq(30min)	0	0	N/A

3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance was recorded.

3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

3.2.4 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

4 Waste Management

4.1 Lyric Theatre Complex

As advised by the Contractor (L2 Contract), 768.14 tonnes, 1233.35 tonnes and 96.63 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter, while 1565.5 tonnes of general refuse were disposed of at SENT and WENT landfill. 186.6 tonnes of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 0.0 tonne of inert C&D materials was reused on site. 0.0 tonne of fill materials was imported for use at site and 0.0 tonne of inert C&D materials was reused in other projects. 549.6 tonnes of inert C&D materials were disposed to sorting facility and 0.0 tonne of chemical waste were collected by licensed contractors in the reporting quarter.

The actual amount of different types of waste generated by the activities of construction works at Lyric Theatre Complex in the reporting quarter are shown in **Appendix F**.

5 Environmental Non-conformance

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in the reporting quarter.

Six complaints were received in the reporting quarter: 4 complaints in August and 2 complaints in October. No notifications of summons and successful prosecutions were received in the reporting quarter.

On 2 August 2021, WKCDA received a complaint from the office of Mr. Derek Hung (Yau Tsim Mong District Council (YTMDC) member) regarding noise generated from WKCD construction site. The complainant has expressed concern about the construction noise between 19 and 31 July 2021, especially before 9am on 21 and 31 July 2021. The complainant understands that the working hours permitted by the government is 7am-7pm, except public holidays. However, he/she and Derek Hung would like to seek if the noise disturbance could be reduced before 9am. Video shot was also taken by the complainant at 8:50 am on 31 July 2021 to show the evidence of noise generated from WKCD construction site. After the investigation, it was preliminarily believed that the construction noise on 21 July 2021 could be attributable to Lyric Theatre Complex (L2 Contract), which involved breaking works at around 8:45am on 21 July 2021 for residue concrete removal at G/F of LTC area. As the breaker noise was similar to the noise in the video provided by the complainant, it is believed that the breaker was the plausible source of the complaint noise. However, by considering that the permitted working hours for construction works are 7am to 7pm (except for public holidays), the works carried out in Lyric Theatre Complex (L2 Contract) were still within compliance to the local regulations and construction noise permit (CNP) conditions. Nonetheless, the Contractor is recommended to enhance specific noise mitigation measures and avoid noisy works before 9am to minimize disturbance to nearby residents.

On 18 August 2021, the Environmental Protection Department (EPD) has received a complaint regarding dust emission generated from WKCD Zone 2A site and the complaint was referred by EPD on 20 August 2021. The complainant has expressed concern of construction dust generated by rock breaking work at B1/F of Zone 2A site without proper dust mitigation measures. As the complainant specified that the dust impact was from the construction B1/F site of Zone 2A, that is not within the Lyric Theatre Complex site boundary, hence the complaint was not attributable to Lyric Theatre Complex. However, dust control measures will continue to be strictly implemented on site to reduce impacts to nearby residents.

On 19 August 2021, WKCDA has received a complaint from the Office of Mr. Derek Hung (YTMDC member) regarding noise generated from WKCD construction site. The complainant has expressed concern about the construction noise before 9am on 18 and 19 August 2021. The complainant understands that the working hours permitted by the government is 7am-7pm, except public holidays. However, he/she and Mr. Derek Hung would like to seek if the noise disturbance could be reduced before 9am. Video shot was also taken by the complainant at 8:30am on 18 and 19 August 2021 to show the evidence of noise generated from WKCD construction site. After investigation, it was found that no noisy works were undertaken before 9am on 18 and 19 August 2021 for Lyric Theatre Complex (L1 and L2 Contracts). Also, since the major construction works for Lyric Theatre Complex (L1 Contract) were completed by June 2021, no noisy works were undertaken in L1 Contract. In sum, the complaint could not be attributable to Lyric Theatre Complex (L1 and L2 Contract). However, noise mitigation measures will continue to be strictly implemented on site. The contractors are reminded to strengthen the implementation of the recommendations for noise mitigation measures to reduce impacts on nearby residents.

On 27 August 2021, WKCDA received a complaint from the same resident living in The Harbourside through WKCDA Enquiry Hotline and referral by YTMDC Member. The complainant concerned the pile driving carried out in the construction site next to the Lyric Theatre Complex, and claiming that the noise persisted from 8 am to 6 pm. The complainant also enquired about the tentative completion date of the pile driving works. As the complainant specified that the noise was generated from pile driving activities next to the Lyric Theatre Complex, and no pile driving works were involved in Lyric Theatre Complex, hence the complaint was considered to be not attributable to Lyric Theatre Complex. However, noise control measures will continue to be strictly implemented on site to reduce impacts to nearby residents.

On 8 October 2021, EPD received a complaint regarding muddy water discharge near WKCD and referred to WKCDA on 12 October 2021. Two photos were provided by the complainant. As from the photos provided by the complainant, the concerned area was not within Lyric Theatre Complex's site boundary, hence it could not directly imply the complaint was attributable to Lyric Theatre Complex. However, the contractors are reminded to strictly implement and maintain good site practices to avoid water pollution to the water body of Victoria Harbour.

On 27 October 2021, WKCDA has received a complaint from EPD. The complainant has expressed concern about the construction noise generated from 9am to 9pm even on Sunday. A video and photos were provided by the complainant showing the situation on 25 October 2021. As from the photos and video provided by the complainant, the concerned area was not within Lyric Theatre Complex's site boundary, hence it could not directly imply the complaint was attributable to Lyric Theatre Complex. However, noise control measures will continue to be strictly implemented on site to reduce impacts to nearby residents.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

6 Comments, Recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits, landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and noise were recorded in the reporting quarter.

6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

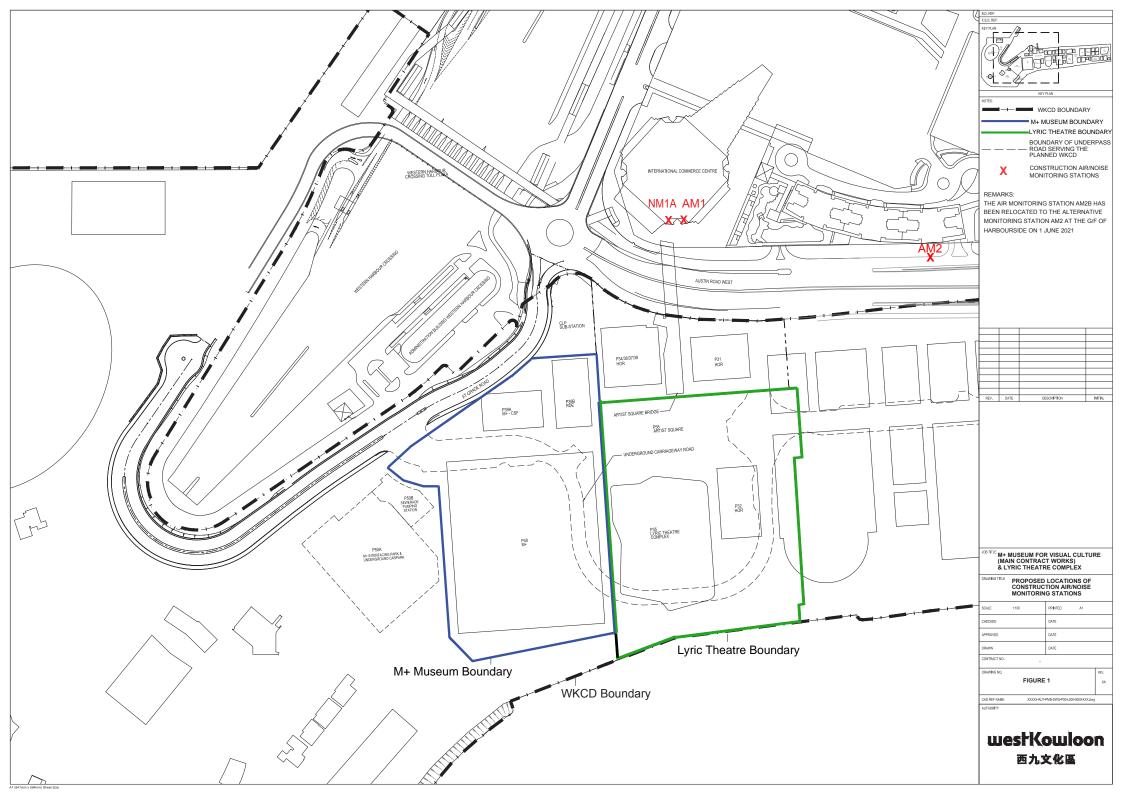
The EM&A programme as recommended in the EM&A Manual has been undertaken. The construction works and EM&A programme for M+ Museum was commenced on 31 October 2015 and completed on 28 February 2021; while the construction works and EM&A programme for Lyric Theatre Complex (L1 and L2 Contracts) was commenced on 1 March 2016, and the EM&A programme for L1 Contract was completed on 30 June 2021.

Monitoring of air quality and noise with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP and noise level (as Leq, 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action and Limit levels for Air Quality (1-hour TSP and 24-hour TSP) and Noise in this reporting quarter.

Six complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting quarter as required. It was observed that the Contractor had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

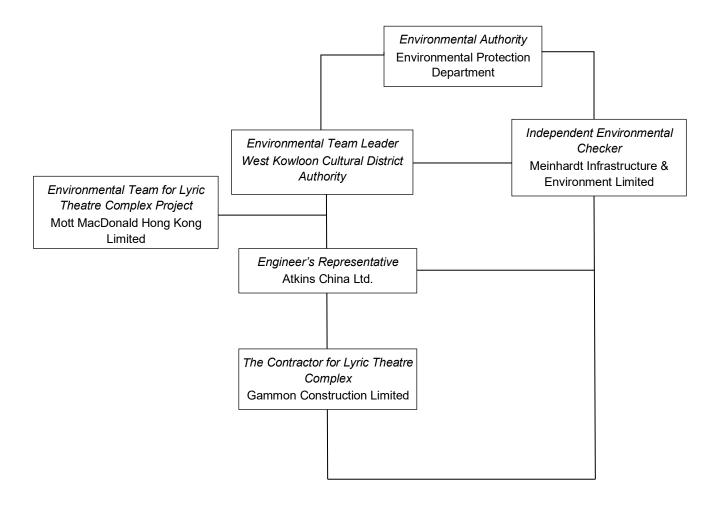


Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
Atkins China Ltd.	Resident Engineer	Ms. Gloria Lui	5506 6361	gloria.lui@atkinsglobal.com
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine Lee	2859 5409	claudinelee@meinhardt.com.hk
Gammon Construction Limited (L2)	Environmental Manager	Mr. Ivan Chiu	9416 1664	ivan.chiu@gammonconstruction.com
Mott MacDonald Hong Kong Ltd.	Contractor's Environmental Team Leader	Mr. Thomas Chan	2828 5757	thomas.chan@mottmac.com
West Kowloon Cultural District Authority	Senior Project Manager (Safety, Health and Environment)	Mr. C.K. Wu	5506 9178	ck.wu@wkcda.hk

B. Construction Programme

	Activity	RD	Start	Finish	202			du A	O+- 4		202		2 1 2	>+- 4	04	4		022	. 2	O+- 4		t- 1	04-0	104	2 0:			2024
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Section Key	dates														1				1-1					11				
KD05C	PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed]	0		16-Feb-22*						111				1777	∀	1-1-	0		1-1					1	1 1 1	1111		
KD05B	Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed]	0		08-Mar-22*			111			111				1	1 1	⊽	✐	1 1	1 1	111	111			1111				
KD05	PC for HO of the Remaining Works for M+ Promenade South	0		18-Mar-22*			777						Ø	11-	1	▽			7-7					11111				
KD05A	Complete Required Pedestrian Access Corridor and Floor Finishes at AURW	0		06-Jun-22*										Ш			Ø∇		71.7	77.7								
KD08	PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instn Wrks	0		04-May-24*										Ш				1 1							⊗			7
KD10	PC for HO of ASDA, Lyric Theatre Promenade South to Authority	0		04-May-24*			.1.1						ll	l. l.	.li	L.L.	.1.1.		1.1.				ii	.ii	♦			▽
KD09	PC for HO of RDE areas for Tenancy Fit-out Wrks	0		04-May-24*			4.4.							1		ļ.ļ.			بإسابا					.11	♥			. ▽
KD11	PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority	0		06-Jul-24*	1									ļļ.	4	ļ.,ļ.			4-4		-1			ļļ	ļļļ.	∅		
KD07	PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works)	0		02-Aug-24*	4.4.4		-4-4							ļļ.		ļļ.	44.	4-4-	4-4	44				.ļļ		Ø		
KD13	PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & C'Way 3B	0		02-Aug-24*	4						11			1	i	1			4-4						1	Ø		
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KD01	Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks	0		20-Jul-19 A	1									ļļ.	.ļļ	ļ.,			4-4					.ii	ļļļ.			
KD06	PC for Fountain Related Plantroom(s)	0		14-May-22*	4.4.4						11			1	4	1	ͺ		4-4						1.1.1.			. <u></u>
KD03	OBTAIN OP for Lyric Theatre & Extended Basement	0		04-May-24*	1.1.1		4.4							ļļ.		ļ.,ļ.			4-4					.ii	⊚			V
KD14	Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement	0		21-May-24*	1.4.4		-4-4							ļļ.		ļļ.			4-4					.ļļ	€			\ <u>`</u>
KD02	Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works	0		03-Jul-24*	4-4-4		-44-						¦¦	ļļ-		ļķ.		4-4-	4-4	44-				. 	ļļļ-	.; 🌳;		
Summary .	Program - Level 1																		1 1									- }
SUM10	[LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete	84	06-May-20 A	22-Nov-21	•			******	•	*****		₩	*****	•														
SUM14	[LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works)	810	28-May-21 A	07-May-24	$\Pi \Pi \Pi$						****	*****	*****	****	~~~~	****	*****	~~~~	****	*****	*****	*****	******	~~~~		-	******	-
SUM11	[LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete	411	02-Jul-21 A	04-Feb-23			\mathbf{m}				•	₩	****		******	****	*****		*****	******	•			III	HH			
SUM15	[LoE] CC_B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.)	651	02-Oct-21	16-Dec-23							<u> </u>		•	*****	******	*****	*****	******	*****	******	*****	*****	*****	*****	******	~		!
SUM41	[LoE] CC_B Lyric Theatre - Structural Steel by CSD	407	19-Nov-21	16-May-23	1.1.1								· · ·					11	-11-						1	.111		
SUM12	[LoE] CC_B Lyric Theatre - EWS Weather Tight Type	282	18-Mar-22	29-Mar-23	1.1.1						1_1		l l					XXXXXX						1	1.1.1.			!
SUM17	[LoE] CC_B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning	622	22-Jun-22	01-Aug-24	1.1.1		بإدبار							ļ. ļ.		i.i.	. jj.	*****		******			*******		1			
SUM13	[LoE] CC_B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3	328	26-Aug-22	09-Nov-23			-4-4							ļļ.	4	ļ.,ļ.			****	*****				+		<u></u>	44	
SUM16	[LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical)	143	10-Jul-23	28-Dec-23	1.4.4									ļļ.	.ļļ	ļ.,			4-4					-	÷			<u> </u>
SUM18	[LoE] CC_B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP)	98	29-Dec-23	04-May-24	4.4.4		-11				11			1	1	1	11	1 1	1 1				1 1	-		تتلين		
SUM21	[LoE] CC_C - LT EVA1 & EVA2	731	12-Apr-21 A	06-Apr-24	1.1.1		4. +							1										1				
SUM23	[LoE] CC_C -Artist SQ. Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA)	692	21-Jun-21 A	09-Feb-24	4.4.4		-44-					#		1								-		1	1 i	<u> </u>		
SUM22	[LoE] CC_C - HoR Development (P32-1, P29-1, P31-EVA)	599	02-Oct-21	09-Dec-23	4-4-4		-44-		44																	نسلست	<u></u>	<u>, -</u>
SUM20	[LoE] CC_C - LT Promenade & Pocket Square Bridge	651	23-Nov-21	11-Apr-24	4-4-4																			· · · · · ·	ļļļ-			
SUM24	[LoE] CC_D - Remaining Works for M+ Promenade South	175	18-Feb-21 A		H								*****			-			-					.				
SUM25	[LoE] CC_E - DCS Cofferdam A Works & Obtain BA14	335	23-Jun-20 A	28-Oct-22	↓ ∓												-11					<u> i i</u>	<u></u> .	.ii	ļļļ.			
SUM42	[LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall)	480	09-Sep-21	12-Jun-23	∦-⊹- ⊹							نے ا	i	<u> </u>			<u></u>	- - - 	44					· 	ļļļ-			
SUM26 SUM27	[LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps)	208	16-Aug-21	18-May-22										<u> </u>		<u> </u>									<u> -</u>	.}}		
SUM28	[LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) [LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck)	625 607	15-May-21 A 17-May-21 A		H-+-+						******	٠	·····			·····								******		.}}}		
SUM29	, ,	294	17-Way-21 A 15-Sep-22	14-Sep-23	H-+-+						++			+ <u>+</u> -												+		
SUM30	[LoE] CC_G Extended Basement - T&C [LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19)	0	09-May-20 A		المسامية							·	} 	ļļ-		ļļ-						· - i i -		· 	ļļļ-			
SUM31	[LoE] CC_I Carriageway 3B - ABWF Works	427	02-Aug-21	10-Feb-21 A 10-Jan-23									<u>i</u>	<u>ii.</u>		<u></u>	<u>. i i.</u>	. <u></u>	<u> </u>	<u> </u>	- -⊹			· 	ļļļ-	.}		
SUM32	[LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix)	306	02-Aug-21 06-Nov-21	10-Jan-23 19-Nov-22	 		-4-4							===		-	+++							· 	†	+	-+-+	
SUM33	[LoE] CC_I Underpass 3B & Associated Area - T&C	108	08-Dec-22	27-Apr-23	 -	} }								ii-		; ; -			<u>-</u>				= ∤∳	· † †	†	+++		
SUM35	[LoE] CC J - M+ Day 2 Works (excl. connections to M+ and SZ 1 FS Changeover)	748	03-Jun-21 A	19-Feb-24	1							نسلب		سلسه	4		dada	4	, , , , , , , , , , , , , , , , , , , 		-	سنسلت			!!	فتتلتث	<u>-</u>	
SUM38	[LoE] CC J - M+ Day 2 FS Changeover in 3A SZ 1, Connections to M+, Integrated T&C	99	13-Jan-24	21-May-24	H-+-+		-+-+							::-										· · · · · ·			-	-
SUM34	[LoE] CC J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14)	56	25-Apr-24	03-Jul-24	 		-4-4									}}-			4-4					·				-
SUM39	[LoE] CC K - Water Main at Promenade	250	29-Oct-22	28-Sep-23	 	}} <u>}</u>								†		}}-	<u>++</u>		+-+			.,	.,,,,,,	4		75		
CONIOS	[LoE] CC N Lifts & Escalators	472	11-Feb-22	15-Sep-23	H		-44-		44	-44		 ‡	; ;	ļļ-		****			****						<u> </u>	+++		



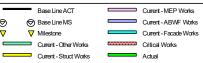


L2 CMWP_R01_11 Approved 29Sep20 - 11th Update DD=31Jul21

Date	Revision	Checked	Approved
06-Aug-21	CMWP Rev_1_11 - 11th Update DD 31Jul21	NS	IH

tr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | MJJJASONIDJEMAMJJJASONIDJEMAMJJJASONIDJEMAMJJJASONIDJEMAMJJJASONIDJEMAMJJJ L2 CMWP R01 11 Approved 29Sep20 - 11th Update DD=31Jul21 **GENERAL & PRELIMINARIES** Contract Significant Dates **Commencement & Completion Dates** Section Keydates KD05C PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed] 16-Feb-22* 0 Ø KD05B Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed] 08-Mar-22* 0 Ø KD05 PC for HO of the Remaining Works for M+ Promenade South 0 18-Mar-22* KD05A Complete Required Pedestrian Access Corridor and Floor Finishes at AURW 0 06-Jun-22* Ø∇ PC for HO Loc ICT/Risers Rms to APC for ICT Svs Instn Wrks 0 ∇ KD08 11-Apr-24* 0 ▽ KD10 PC for HO of ASDA, Lyric Theatre Promenade South to Authority 0 11-Apr-24* PC for HO of RDE areas for Tenancy Fit-out Wrks 0 KD09 11-Apr-24* KD11 PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority 0 13-Jun-24* PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works) KD07 0 11-Jul-24* KD13 PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & C'Way 3B 0 11-Jul-24* Stage Keydates Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks 0 20-Jul-19 A KD01 KD06 PC for Fountain Related Plantroom(s) 0 14-May-22* KD03 OBTAIN OP for Lyric Theatre & Extended Basement 0 11-Apr-24* KD14 Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement 0 26-Apr-24* KD02 Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works 0 08-Jun-24* Summary Program - Level 1 SUM10 [LoE] CC B Lyric Theatre - Substructure RC Structural Concrete 84 06-May-20 A 22-Nov-21 SUM14 [LoE] CC B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works) 794 28-May-21 A 17-Apr-24 SUM11 [LoE] CC B Lyric Theatre - Superstructure RC Structural Concrete 400 02-Jul-21 A 16-Jan-23 SUM15 [LoE] CC B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.) 02-Oct-21 05-Dec-23 [LoE] CC B Lyric Theatre - Structural Steel by CSD 02-May-23 SUM41 397 19-Nov-21 SUM12 [LoEl CC B Lyric Theatre - EWS Weather Tight Type 271 18-Mar-22 16-Mar-23 SUM17 [LoE] CC B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning 603 22-Jun-22 10-Jul-24 SUM13 [LoE] CC B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3 09-Nov-23 328 26-Aug-22 SUM16 [LoE] CC B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical) 134 04-Dec-23 27-Jun-23 [LoE] CC B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP) SUM18 98 05-Dec-23 11-Apr-24 SUM21 [LoE] CC C-LT EVA1 & EVA2 21-Mar-24 721 12-Apr-21 A SUM23 [LoE] CC C - Artist SQ. Bridge (ASB 1/2/3; ASB 3; P31 2; P34 2; AS 1/2; ASB-6/P31 EVA) 682 21-Jun-21 A 29-Jan-24 SUM22 [LoE] CC C - HoR Development (P32-1, P29-1, P31-EVA) 589 02-Oct-21 28-Nov-23 SUM20 [LoE] CC C - LT Promenade & Pocket Square Bridge 651 23-Nov-21 11-Apr-24 SUM24 [LoE] CC D - Remaining Works for M+ Promenade South 18-Mar-22 175 18-Feb-21 A SUM25 [LoE] CC E - DCS Cofferdam A Works & Obtain BA14 335 28-Oct-22 23-Jun-20 A SUM42 [LoE] CC E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall) 480 09-Sep-21 12-Jun-23 SUM26 [LoE] CC F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) 208 16-Aug-21 18-May-22 [LoE] CC G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) SUM27 614 15-Mav-21 A 01-Sep-23 SUM28 [LoE] CC G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) 596 17-May-21 A 11-Aug-23 SUM29 [LoE] CC G Extended Basement - T&C 283 15-Sep-22 01-Sep-23 [LoE] CC H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19) SUM30 0 10-Feb-21 A SUM31 [LoE] CC | Carriageway 3B - ABWF Works 427 02-Aug-21 10-Jan-23 SUM32 [LoE] CC I Carriageway 3B - MEP Works (1st Fix to Final Fix) 306 06-Nov-21 19-Nov-22 SUM33 [LoE] CC I Underpass 3B & Associated Area - T&C 108 08-Dec-22 27-Apr-23 SUM35 [LoE] CC J - M+ Day 2 Works (excl. connections to M+ and SZ 1 FS Changeover) 742 05-Feb-24 03-Jun-21 A SUM38 [LoE] CC J - M+ Day 2 FS Changeover in 3A SZ 1, Connections to M+, Integrated T&C 99 26-Apr-24 19-Dec-23 SUM34 [LoE] CC J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) 56 02-Apr-24 08-Jun-24 SUM39 [LoE] CC K - Water Main at Promenade 250 29-Oct-22 28-Sep-23 SUM40 [LoE] CC N Lifts & Escalators 460 11-Feb-22 01-Sep-23



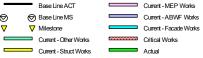


L2 CMWP R01 11 Approved 29Sep20 - 11th Update DD=31Jul21

Date	Revision	Checked	Approved
06-Aug-21	CMWP Rev_1_11 - 11th Update DD 31Jul21	NS	H

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	_& PRELIMINARIES								11			÷					}}-							 -		; -		
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Contract S	Significant Dates				1.1.1	_1_1_	LL.	1	<u>1.1.</u>	1.1.	.11		. l. l.			<u>i</u>	LI.	1.1	1.1					1			111	1
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Section Key	ydates				TTT		777		TT	H							П	11									7.7	7
KD05A	Complete Required Pedestrian Access Corridor and Floor Finishes at AURW	0		15-Jan-22*							. i . i				▽		✐											
KD05B	Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed]	0		15-Jan-22*			$\Pi\Pi$	Ш	Ш	J.H.		Ш		: 1	∇;		✐	\mathbf{J}		IJJ				I				
KD05C	PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed]	0		15-Jan-22*	1.1.1]]		1.1	.]]		1			▽		Ø	1.1.						1				
KD05	PC for HO of the Remaining Works for M+ Promenade South	0		06-Apr-22*	1		1.1.		1.1	.		1	✐			▽	1.1.	1.1						1		li		
KD08	PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instn Wrks	0		07-May-24*	1.1.1		<u> </u>	1	1.1.	1	.					<u>i</u>	<u> </u>							iii.	♦			▽
KD10	PC for HO of ASDA, Lyric Theatre Promenade South to Authority	0		07-May-24*	1.1.1		1	1	1.1			l					L.L.	. 1 1.						1	∅			▽
KD09	PC for HO of RDE areas for Tenancy Fit-out Wrks	0		07-May-24*			ļļ	ļl	4.4		. į į	ļ.,	į į .				ļ., ļ.,	4.4.						iii.	∅			▽
KD11	PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority	0		09-Jul-24*	1		ļ. ļ	ļ	ļļ	. ļ ļ		ļ.,					ļļ.	4-4						ļļļ.		Ø		
KD07	PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works)	0		05-Aug-24*	1.4.4		44	1			-‡‡	ļ					4.4.	4-4	-4-4	44				ļļļ.		Ø		
KD13	PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & C'Way 3B	0		05-Aug-24*	4																					⊚		
Stage Keyd							ļ., ļ.,	j	44	-	-	ļ.,					ļ., ļ.,	4-4						iii-		,		- ļ
KD01	Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks	0		20-Jul-19 A	4-4-4		44	ļ	44			ļ					<u>.</u> .	4-4		44				ļļļ.				
KD06	PC for Fountain Related Plantroom(s)	0		11-May-22*	4-4-4							ļ					₹											-
KD03	OBTAIN OP for Lyric Theatre & Extended Basement	0		07-May-24*	4		ļ ļ	į	ļļ	. 		ļ.,					ļļ.	4-4-	-4-4					ļļļ-	Ø Ø			
KD14	Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement	0		23-May-24*	H-+-+				44			ļ					ķ.,ķ.	44-										
KD02	Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works	0		05-Jul-24*	4							ļ														·		
	Program - Level 1						<u> </u>	į	1 1		<u> </u>		<u> </u>				1.1.							1				
SUM10	[LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete	60	06-May-20 A				J J										L.L.	<u>.ii.</u>						<u> </u>		<u> </u>	1.1.	<u> </u>
SUM14	[LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works)	792		17-May-24	1		ļ. ļ		4-4	. j j.						*****	****						!!-	1				
SUM11	[LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete	394	02-Jul-21 A	10-Feb-23	1		ļ. ļ.	ļ							*****		****						<u> i i .</u>	<u> </u>		أسامه		
SUM15	[LoE] CC_B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.)	627	06-Nov-21	22-Dec-23	1.4.4		4-4-	1	1	++-		;												iii-				
SUM41	[LoE] CC_B Lyric Theatre - Structural Steel by CSD	394	10-Dec-21	23-May-23	4-4-4						- 							-11-										
SUM12	[LoE] CC_B Lyric Theatre - EWS Weather Tight Type	287	18-Mar-22	04-Apr-23	4		ļ ļ	į	ļļ	. 		ļ	 -						RXX				· ; ;	 				
SUM17	[LoE] CC_B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning	555	12-Sep-22	03-Aug-24	4		ļ ļ	ļ	ļļ	. ļ ļ		ļ.,				 	ļ.,ļ.	44-										
SUM13	[LoE] CC_B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3	314	14-Sep-22	10-Nov-23	4-4-4		44	ļ	44			ļ.,			}}		} - \$ -	44-										
SUM16	[LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical)	134	22-Jul-23	30-Dec-23	1							ļ -					ļ							•				
SUM18 SUM21	[LoE] CC_B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP)	98	02-Jan-24	07-May-24	4					-							<u> </u>	<u> </u>					<u></u>					7-
SUM23	[LOE] CC_C - LT EVA1 & EVA2	714	12-Apr-21 A	12-Apr-24 22-Feb-24																		11	11-	111.		<u></u>	<u>-</u> ;;-	
SUM23 SUM22	[LoE] CC_C - Artist SQ. Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA) [LoE] CC_C - HoR Development (P32-1, P29-1, P31-EVA)	675 625	21-Jun-21 A 03-Aug-21 A				 					_														<u></u>		
SUM20	[LoE] CC_C - Hor Development (F32-1, F29-1, F31-EVA) [LoE] CC_C - LT Promenade & Pocket Square Bridge	669	20-Nov-21	03-May-24	H							÷		-								******	******			-		<u></u>
SUM24	[LoE] CC D - Remaining Works for M+ Promenade South	168	18-Feb-21 A		+			÷	+ 👑	•••••						···										/ -		
SUM25	[LoE] CC E - DCS Cofferdam A Works & Obtain BA14	336	23-Jun-20 A		H	_		*****	_			•						بلسله	_	إسلسا						/ -		
SUM42	[LoE] CC E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall)	496	09-Sep-21	04-Jul-23	∦ ∓							†	*****	·····	******		•						-	-				
SUM26	[LoE] CC F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps)	206	01-Sep-21	01-Jun-22	+		†	<u> </u>				† -	44-				 -	+						†		; 		
SUM27	[LoE] CC G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck)	605		21-Sep-23	1			·	ii	1111								44-						+++-	5			
SUM28	[LoE] CC G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck)	587	17-May-21 A		11111			7-7-	11	111111	******	***	·····	*****	******	*****	*****	*****		······	******		~~~~	*******		:		
SUM29	[LoE] CC G Extended Basement - T&C	307	07-Sep-22	21-Sep-23	1		1-1-	11	1						:				000		***************************************	******	******		s			
SUM30	[LoE] CC H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19)	0	09-May-20 A	10-Feb-21 A					-		- † †	1					1-1-	1-1	-1-1	1				111111				
SUM31	[LoE] CC Carriageway 3B - ABWF Works	403	12-Aug-21 A				1111	<u> </u>			- † †										-							1
SUM32	[LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix)	264	07-Dec-21	01-Nov-22	1		111	7-1-1	111	1-1-	- i i	†								= 1				111-				1
SUM33	[LoE] CC_I Underpass 3B & Associated Area - T&C	108	24-Dec-22	15-May-23		777	7-7-	777	Ti	777	1-1-	T	T	7		T	T				-	*****	*****	mi	7-1-1		TT	7
SUM35	[LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover)	717	03-Jun-21 A					11	111.			₩	*****	****	•	•	*****	******		•		•	******					1
SUM38	[LoE] CC J - M+ Day 2 FS Changeover in 3A SZ 1, Connections to M+, Integrated T&C	99	16-Jan-24	23-May-24	1111		111	1-1-	111	111	1 1						1 1	1 1		1			1 1	111-			*****	متبته
SUM34	[LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14)	56	27-Apr-24	05-Jul-24	1		111	111	111	11-	- † †	†					î i	1-1								_		***
SUM39	[LoE] CC_K - Water Main at Promenade	243	25-Nov-22	21-Oct-23	1		7	1-1-	7-1	1-1-		111					7					****	****	****			+-+-	
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L2 CMWP_R01_12 Approved 29Sep20 - 12th Update DD=31Aug21

Date	Revision	Checked	Approved
09-Sep-21	CMWP Rev_1_12 - 12th Update DD 31Aug21	NS	IH

Activity tr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 MJJJASONID JEMAMJJJASONID JEMAMJJJASONID JEMAMJJJASONID JEMAMJJJASONID JEMAMJJJASONID JE L2 CMWP R01 13 Approved 29Sep 20 - 13th Update DD=30 Sep 2021 **GENERAL & PRELIMINARIES** Contract Significant Dates Commencement & Completion Dates Section Keydates KD05A Complete Required Pedestrian Access Corridor and Floor Finishes at AURW 12-Dec-21 0 Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed] 12-Dec-21 Θ KD05B 0 KD05C PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed] 0 12-Dec-21 KD05 PC for HO of the Remaining Works for M+ Promenade South 0 07-Jun-22³ 0 10-Sep-24 KD08 PC for HO Loc ICT/Risers Rms to APC for ICT Svs Instn Wrks 0 KD10 PC for HO of ASDA, Lyric Theatre Promenade South to Authority 0 10-Sep-243 PC for HO of RDE areas for Tenancy Fit-out Wrks 0 10-Sep-243 KD09 KD11 PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority 12-Nov-24' PRACTICAL COMPLETION for C'Way 3A (M+ Day 2 Works) 09-Dec-24* KD07 0 KD13 PRACTICAL COMPLETION for Lyric Theatre, Extended Basement & C'Way 3B 0 09-Dec-24' Stage Keydates Compl Dsgn Coor/Subm and obtn NNO for L1 Contr Bsmt constn wrks 0 20-Jul-19 A KD01 KD06 PC for Fountain Related Plantroom(s) 0 09-Jun-22' 0 KD03 OBTAIN OP for Lyric Theatre & Extended Basement 0 10-Sep-243 KD14 Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement 0 26-Sep-24* KD02 Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works 0 08-Nov-24* Summary Program - Level 1 SUM10 [LoE] CC B Lyric Theatre - Substructure RC Structural Concrete 54 06-May-20 A 07-Dec-21 SUM14 [LoE] CC B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works) 28-May-21 A 20-Sep-24 SUM11 [LoE] CC B Lyric Theatre - Superstructure RC Structural Concrete 02-Jul-21 A 21-Jun-23 SUM15 [LoE] CC B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS, TH Non-FSD in Walls, etc.) 15-Nov-21 27-Apr-24 [LoE] CC B Lyric Theatre - Structural Steel by CSD SUM41 20-Dec-21 03-Oct-23 SUM12 [LoE] CC B Lyric Theatre - EWS Weather Tight Type 385 18-Mar-22 23-Aug-23 SUM17 [LoE] CC B Lyric Theatre - Theatre Specialist Systems Incl. T&C, Precom. & Commissioning 619 01-Nov-22 07-Dec-24 SUM13 [LoE] CC B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3 302 04-Feb-23 11-Mar-24 16-May-24 [LoE] CC B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical) 128 SUM16 02-Dec-23 [LoE] CC B Lyric Theatre, EB, C'Way 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP) SUM18 98 17-May-24 10-Sep-24 SUM21 [LoE] CC C-LT EVA1 & EVA2 787 12-Apr-21 A 21-Aug-24 SUM23 [LoE] CC C - Artist SQ. Bridge (ASB 1/2/3; ASB 3; P31 2; P34 2; AS 1/2; ASB-6/P31 EVA) 21-Jun-21 A 17-Jun-24 SUM22 [LoE] CC C - HoR Development (P32-1, P29-1, P31-EVA) 03-Aug-21 A 09-Apr-24 SUM20 [LoE] CC C - LT Promenade & Pocket Square Bridge 01-Dec-21 17-Jun-24 SUM24 [LoE] CC D - Remaining Works for M+ Promenade South 189 18-Feb-21 A 07-Jun-22 SUM25 [LoE] CC E - DCS Cofferdam A Works & Obtain BA14 354 23-Jun-20 A 12-Jan-23 SUM42 [LoE] CC E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall) 512 08-Sep-21 A 18-Aug-23 SUM26 [LoE] CC F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps) 190 01-Nov-21 09-Jul-22 [LoE] CC G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck) SUM27 681 15-May-21 A 24-Jan-24 17-May-21 A SUM28 [LoE] CC G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck) 03-Jan-24 SUM29 [LoE] CC G Extended Basement - T&C 09-Sep-22 24-Jan-24 SUM30 [LoE] CC H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19) 09-May-20 A 10-Feb-21 A SUM31 [LoE] CC | Carriageway 3B - ABWF Works 12-Aug-21 A 04-Jan-23 SUM32 [LoE] CC I Carriageway 3B - MEP Works (1st Fix to Final Fix) 251 07-Jan-22 14-Nov-22 SUM33 [LoE] CC I Underpass 3B & Associated Area - T&C 19-Jan-23 23-Sep-23 SUM35 [LoE] CC J - M+ Day 2 Works (excl. connections to M+ and SZ 1 FS Changeover) 787 03-Jun-21 A 11-Jun-24 SUM38 [LoE] CC J - M+ Day 2 FS Changeover in 3A SZ 1, Connections to M+, Integrated T&C 99 26-Sep-24 31-May-24 [LoE] CC J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14) SUM34 56 02-Sep-24 08-Nov-24 SUM39 [LoE] CC K - Water Main at Promenade 236 13-Jan-23 29-Nov-23 [LoE] CC N Lifts & Escalators 597 SUM40 13-Jan-22 24-Jan-24





L2 CMWP_R01_13 Approved 29Sep20 - 13th Update DD=30 Sep 2021

Date	Revision	Checked	Approved
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C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

			L2	
EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
Air Quali	ity Impact (Construction)			
2.1 &	General Dust Control Measures			
10.3.1	Frequent water spraying for active construction areas (12 times a day or once every one hour), including Heavy construction activities such as construction of buildings or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)	Obs	Obs	✓
2.1 &	Best Practice For Dust Control			
10.3.1	The relevant best practices for dust control as stipulated in the Air Pollution Control (construction Dust) Regulation should be adopted to further reduce the construction dust impacts from the Project. These best practices include:			
	Good Site Management			
	 Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or by-products should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning. 	Obs	Obs	Obs
	Disturbed Parts of the Roads			
	 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	✓	√	√
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	✓	✓
	Exposed Earth			
	 Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	N/A	N/A	N/A
	Loading, Unloading or Transfer of Dusty Materials			

Implementation Stage

Implementation Stage L2

&A	Recommendation Measures	Aug	Sep	Oct
		2021	2021	2021
	All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. Debris Handling	√	✓	✓
	 Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓	✓
	 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	✓	✓	✓
	Transport of Dusty Materials			
	 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	✓	✓	✓
	Wheel washing			
	 Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	Use of vehicles			
	 The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. 	✓	✓	✓
	 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	 Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓	✓	✓
	Site hoarding			
	 Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	✓	✓	✓

Exhaust from Dust Arrestment Plant

The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:

10.3.1

Implementation Stage

			L2	
EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
	Wherever possible the final discharge point from particulate matter arrestment plant, where is not necessary to achieve dispersion from residual pollutants, should be at low level to minimise the effect on the local community in the case of abnormal emissions and to facilitate maintenance and inspection	N/A	N/A	N/A
	Emission Limits			
	 All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 	N/A	N/A	N/A
	Engineering Design/Technical Requirements			
	 As a general guidance, the loading, unloading, handling and storage of fuel, raw materials, products, wastes or by-products should be carried out in a manner so as to prevent the release of visible dust and/or other noxious or offensive emissions 	N/A	N/A	N/A
	Non-Road Mobile Machinery (NRMM):			
	All NRMMs operating on-site which are subject to emission control of Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation are approved/exempted (as the case may be) and affixed with the requisite approval/exemption labels.	Rem	√	✓
Noise Im	pact (Construction)			
3.1 & 10.4.1	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:			
	 only well-maintained plant to be operated on-site and plant should be serviced regularly during the construction works; 	✓	✓	✓
	 machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum 	✓	✓	✓
	 plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; 	✓	✓	✓
	mobile plant should be sited as far away from NSRs as possible; and	✓	✓	✓
	 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	✓
	· · · · · · · · · · · · · · · · · · ·			

Adoption of Quieter PME

Implementation Stage

			L2	
EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
3.1 & 10.4.1	The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	√	✓	√
3.1 &	Use of Movable Noise Barriers			
10.4.1	Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	✓	~	✓
3.1 &	Use of Noise Enclosure/ Acoustic Shed			
10.4.1	The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓	~	✓
3.1 & 10.4.1	Use of Noise Insulating Fabric			
	Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling machine etc). The fabric should be lapped such that there are no openings or gaps on the joints. According to the approved Tsim Sha Tsui Station Northern Subway EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the PME lapped with the noise insulating fabric.	Obs	~	Obs
3.1 & 10.4.1	Scheduling of Construction Works outside School Examination Periods			
	During construction phase, the contractor should liaise with the educational institutions (including NSRs LCS and CRGPS) to obtain the examination schedule and avoid the noisy construction activities during school examination periods.	N/A	N/A	N/A
Water Q				

Construction site runoff and drainage

Implementation Stage L2

EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
4.1 & 10.5.1	The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended to protect water quality and sensitive uses of the coastal area, and when properly implemented should be sufficient to adequately control site discharges so as to avoid water quality impacts:			
	 At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the WKCDA's Contractor prior to the commencement of construction; 	✓	✓	✓
	 Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. 	✓	~	✓
	 All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times. 	✓	Rem, Obs	Obs
	 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓	✓	✓

Implementation Stage L2 Sep

Recommendation Measures	Aug	Sep	Oct
	2021	2021	2021
All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	~	~	~
 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 	✓	✓	✓
 Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers. 	✓	✓	✓
 Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 	✓	✓	✓
Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	N/A	N/A	N/A
Barging facilities and activities			
Recommendations for good site practices during operation of the proposed barging point include:			
 All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A	N/A

EM&A Ref.

Implementation Stage L2

EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
	 Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; 	N/A	N/A	N/A
	 All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	N/A	N/A	N/A
	 Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A	N/A
4.1 &	Sewage effluent from construction workforce			
10.5.1	Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	√	✓	✓
4.1 &	General construction activities			
10.5.1	 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. 	√	~	✓
	 Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	Obs	Obs	Obs
Waste M	anagement Implications (Construction)			
6.1 &	Good Site Practices			
10.7.1	Recommendations for good site practices during the construction activities include:			
	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	√	✓	✓
	 Training of site personnel in proper waste management and chemical handling procedures 	✓	✓	✓

Implementation Stage L2

EM&A	Recommendation Measures	Aug	Sep	Oct		
Ref.		2021	2021	2021		
	Provision of sufficient waste disposal points and regular collection of waste	Obs	Obs	Obs		
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	✓	✓	✓		
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	✓	✓	✓		
	 Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓		
6.1 &	Waste Reduction Measures					
10.7.1	Recommendations to achieve waste reduction include:					
	 Sort inert C&D material to recover any recyclable portions such as metals 	✓	✓	✓		
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	✓	✓	Obs		
	 Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force 	✓	~	✓		
	 Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	✓	✓	✓		
	 Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes 	✓	✓	✓		
6.1 &	Inert and Non-inert C&D Materials					
10.7.1	In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.	✓	~	✓		
	 The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	✓	✓	✓		
	 Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	✓	✓	✓		

Implementation Stage L2

EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
	 The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. 	✓	✓	✓
	• In order to monitor the disposal of inert and non-inert C&D materials at respectively PFRFs and the designated landfill site, and to control fly-tipping, it is recommended that the Contractor should follow the Technical Circular (Works) No. 6/2010 for Trip Ticket System for Disposal of Construction & Demolition Materials issued by Development Bureau. In addition, it is also recommended that the Contractor should prepare and implement a Waste Management Plan detailing their various waste arising and waste management practices in accordance with the relevant requirements of the Technical Circular (Works) No. 19/2005 Environmental Management on Construction Site.	✓	~	✓
6.1 &	Chemical Waste			
10.7.1	• If chemical wastes are produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes". Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	~	✓	✓
	 Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate mitigation measures as recommended. 	✓	✓	✓
6.1 &	General Refuse			
10.7.1	General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	✓	✓	✓

Implementation Stage L2

EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
Land Con	tamination (Construction)			
7.1 & 10.8.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material:			
	 To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 	N/A	N/A	N/A
	 Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when interacting directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; 	N/A	N/A	N/A
	 Stockpiling of contaminated excavated materials on site should be avoided as far as possible; 	N/A	N/A	N/A
	 The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	N/A	N/A	N/A
	 Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 	N/A	N/A	N/A
	Truck bodies and tailgates should be sealed to stop any discharge;	N/A	N/A	N/A
	 Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; 	N/A	N/A	N/A
	 Speed control for trucks carrying contaminated materials should be exercised; 	N/A	N/A	N/A
	 Observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354) and obtain all necessary permits where required; and 	N/A	N/A	N/A

Implementation Stage

			L2	
EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
	 Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A
Ecologica	al Impact (Construction)			
	No mitigation measure is required.			
Landscap	e and Visual Impact (Construction)			
Table 9.1 & 10.8 (CM1)	Trees should be retained in situ on site as far as possible. Should tree removal be unavoidable due to construction impacts, trees will be transplanted or felled with reference to the stated criteria in the Tree Removal Applications to be submitted to relevant government departments for approval in accordance to ETWB TCW No. 29/2004 and 3/2006.	✓	~	✓
Table 9.1 & 10.8 (CM2)	Compensatory tree planting shall be incorporated to the proposed project and maximize the new tree, shrubs and other vegetation planting to compensate tree felled and vegetation removed. Also, implementation of compensatory planting should be of a ratio not less than 1:1 in terms of quality and quantity within the site.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM4)	Softscape treatments such as vertical green wall panel /planting of climbing and/or weeping plants, etc, to maximize the green coverage and soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM5)	Roof greening by means of intensive and extensive green roof to maximize the green coverage and improve aesthetic appeal and visual quality of the building/structure.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A
Table 9.1 & 10.8 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A	N/A
Table 9.1 (CM9)	Minimize the structure of marine facilities to be built on the seabed and foreshore in order to minimize the affected extent to the waterbody	N/A	N/A	N/A

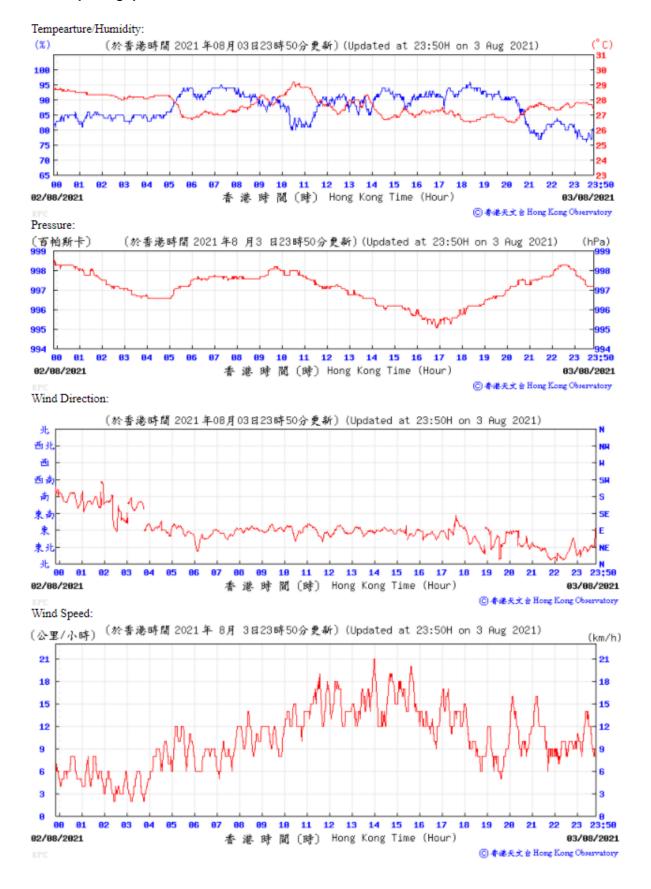
Implementation Stage

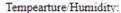
			L2	
EM&A	Recommendation Measures	Aug	Sep	Oct
Ref.		2021	2021	2021
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	√	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP4)	Control of night time lighting	✓	✓	√
Table 9.2 & 10.9 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A	N/A	N/A

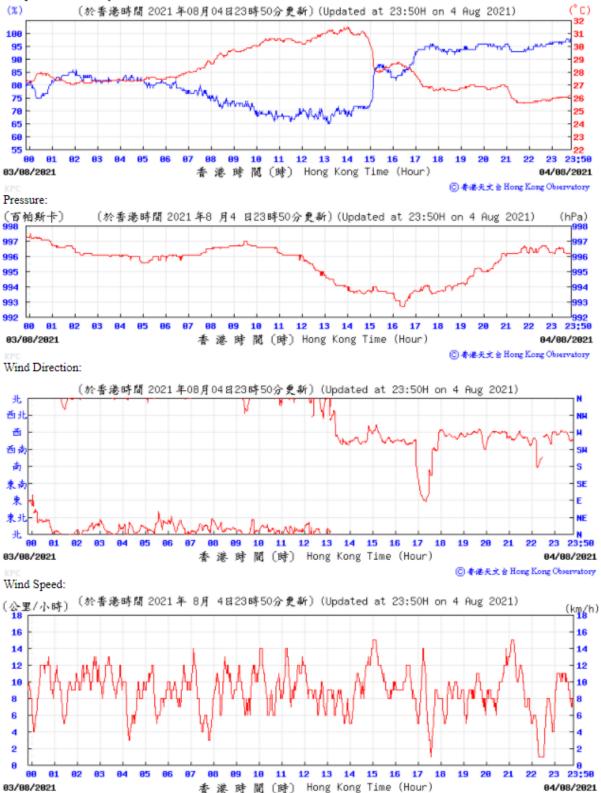
N/A	•	Not Applicable
✓	ı	Implemented
Obs	-	Observed
Rem	ı	Reminder

D. Meteorological Data Extracted from Hong Kong Observatory

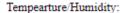
Table D-1: Extract of Meteorological Observations for King's Park Automatic Weather Station in the reporting quarter

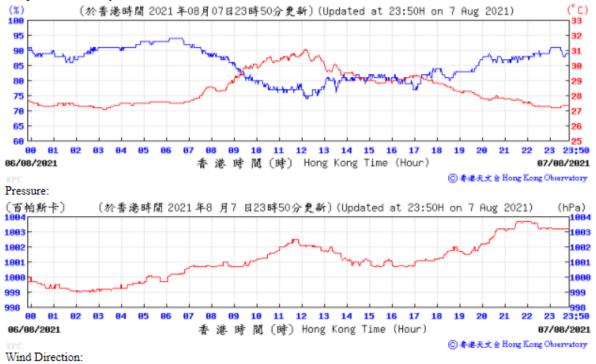


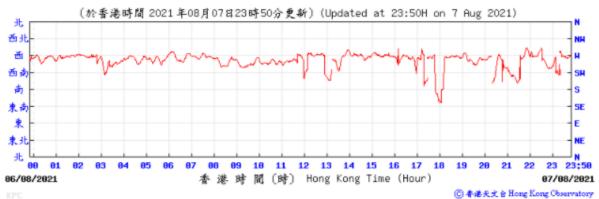


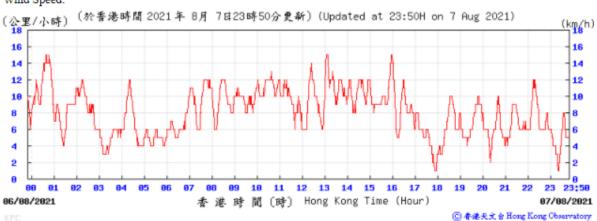


⑥ 春港天文台 Hong Kong Observatory





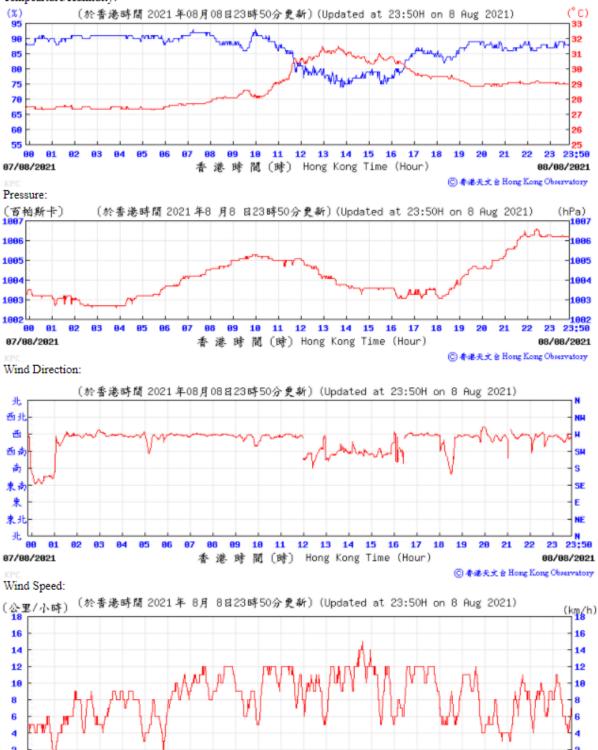






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07/08/2021



10 11 12 13 14 15 16 17

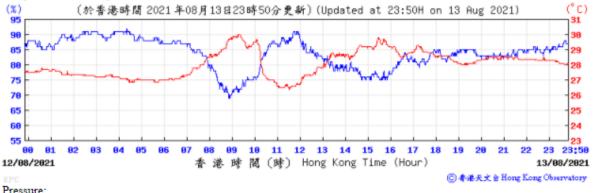
香港時間(時) Hong Kong Time (Hour)

23 23;50

08/08/2021

◎ 香港天文台 Hong Kong Observatory

Tempearture/Humidity:



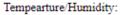
Pressure: (百帕斯卡) 1009 (hPa) (於香港時間 2021 年8 月13日23時50分更新) (Updated at 23:50H on 13 Aug 2021) 1008 1007 1007 1006 1005 1005 1004 1004 91 10 11 12 13 14 15 16 17 18 23 23:50 12/08/2021 香港時間(時) Hong Kong Time (Hour) 13/08/2021

⑥ 香港天文台 Hong Kong Observatory

Wind Direction:



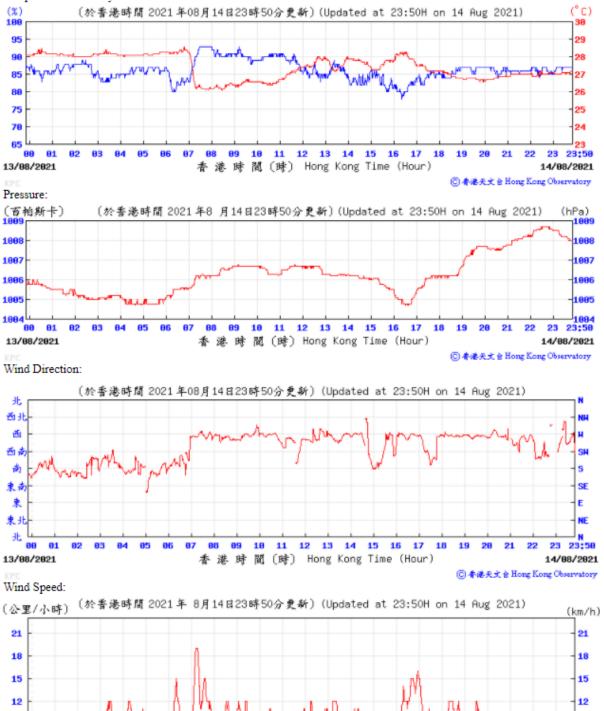




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01

13/08/2021



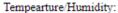
89 18 11 12 13 14 15 16 17 18

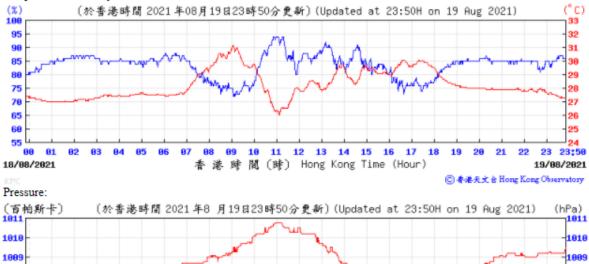
香港時間(時) Hong Kong Time (Hour)

23;50

14/08/2021

◎ 春港天文台 Hong Kong Observatory





1008

1007 1006 23;50

19/08/2021

◎ 香港天文 à Hong Kong Observatory

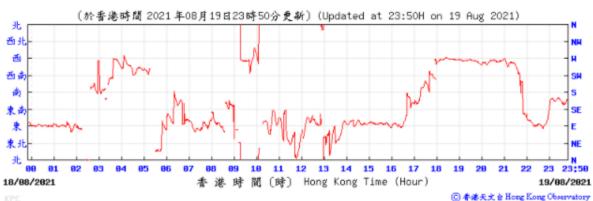
Wind Direction:

18/08/2021

81

100

1007

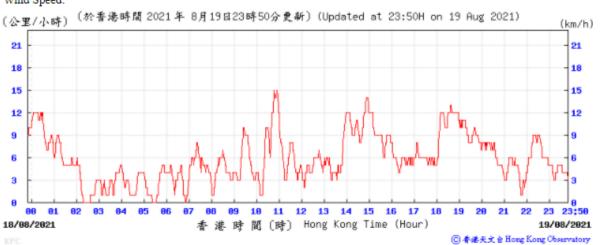


11 12 13 14 15 16

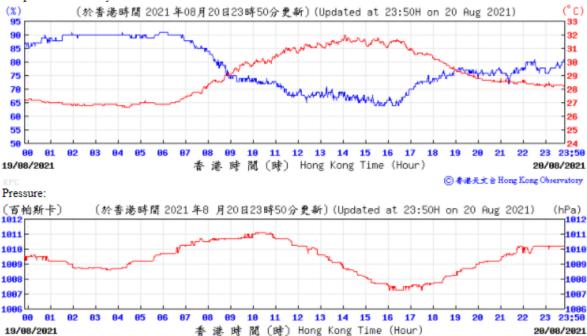
香港時間 (時) Hong Kong Time (Hour)

17

10



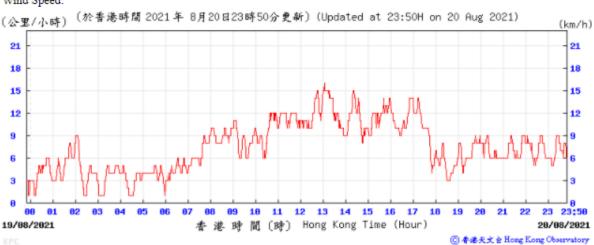
Tempearture/Humidity:

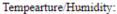


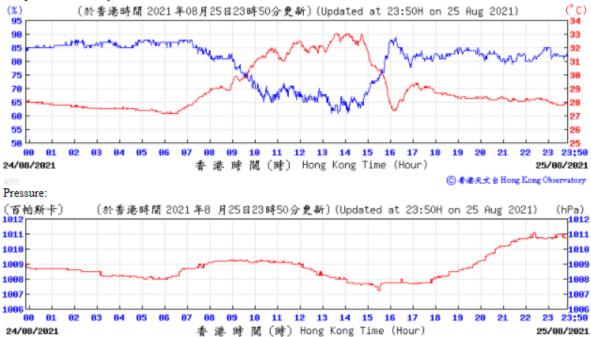
Wind Direction:

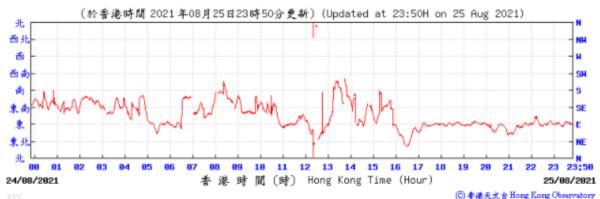


◎ 春港天文 à Hong Kong Observatory

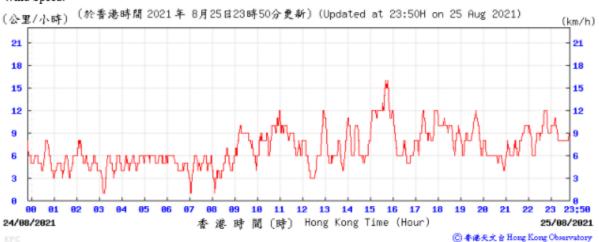


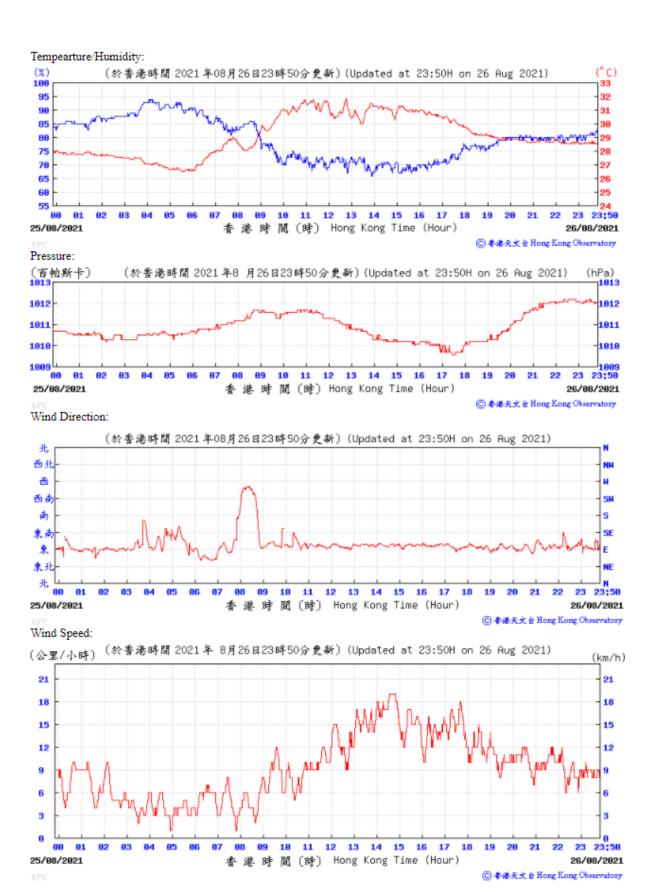




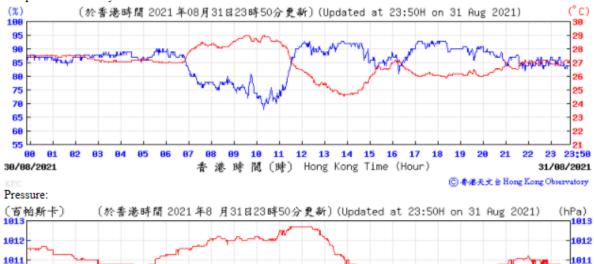


⑥ 香港天文台 Hong Kong Observatory









1010

1009

23:50

31/08/2021

23

◎ 春港天文台 Hong Kong Observatory

Wind Direction:

81

86

09 10 11 12

1010

1009

1008

88

30/08/2021



13

香港時間(時) Hong Kong Time (Hour)

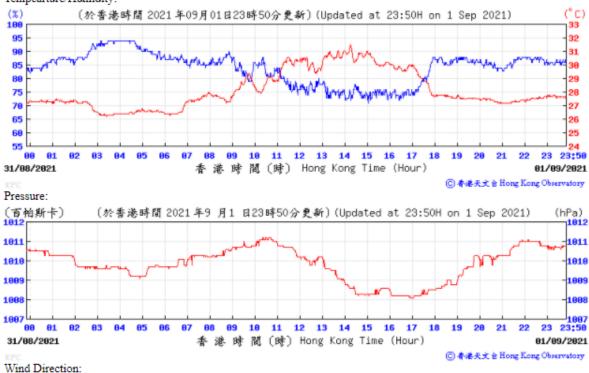
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15 16

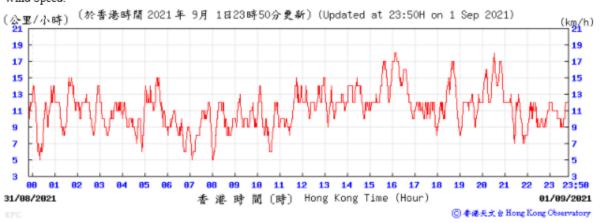
17 18

Wind Speed: 〔於香港時間 2021 年 8月31日23時50分更新〕(Updated at 23:50H on 31 Aug 2021) (公里/小時) (km/h) 27 27 24 24 21 21 18 18 15 15 12 12 9 6 01 13 14 15 16 23 23:50 30/08/2021 香港時間(時) Hong Kong Time (Hour) 31/08/2021 ⑥ 香港天文台 Hong Kong Observatory

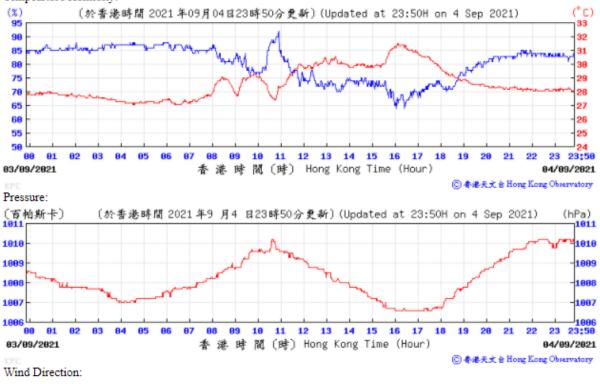






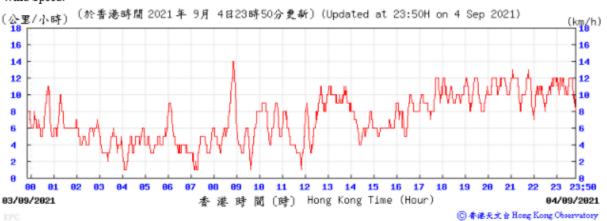






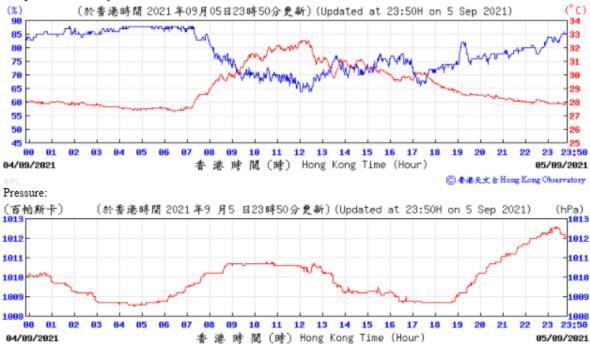


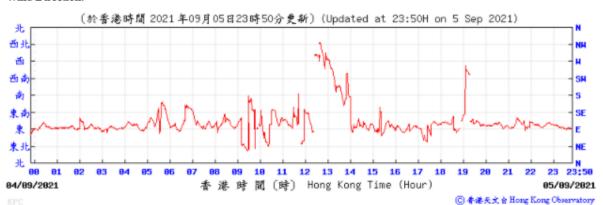
Wind Speed:



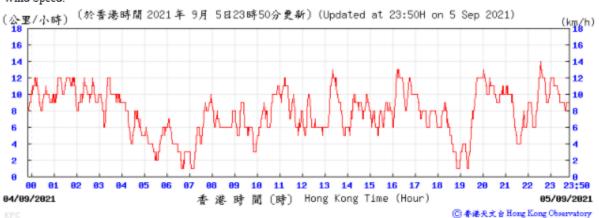
⑥ 春港天文台 Hong Kong Observatory



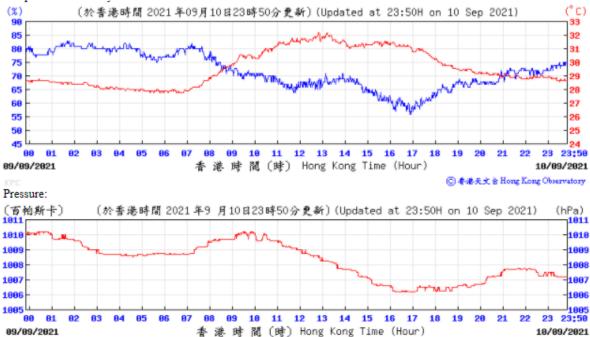


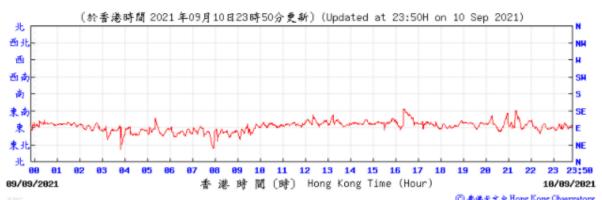


⑥ 香港天文台 Hong Kong Observatory

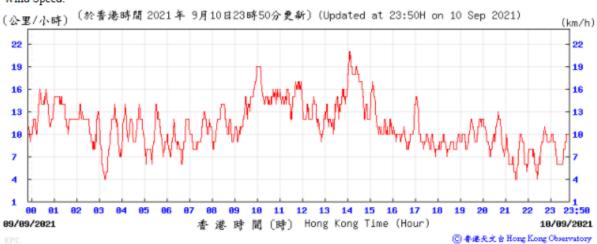


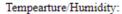


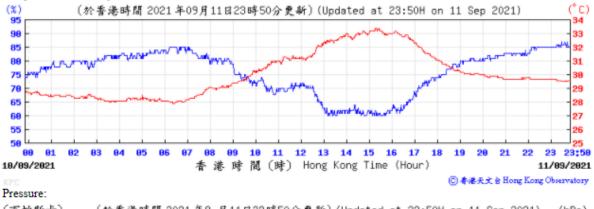




◎ 春港天文台 Hong Kong Observatory



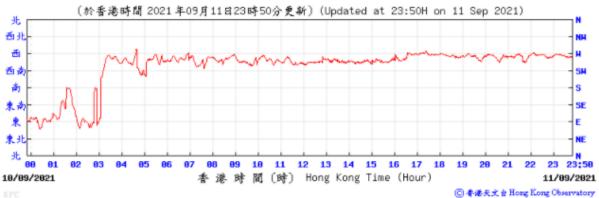


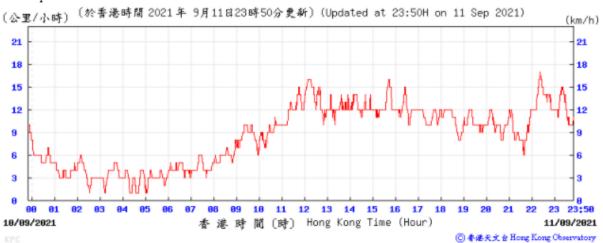


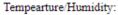
(百帕斯卡) 1998 (於香港時間 2021年9 月11日23時50分更新) (Updated at 23:50H on 11 Sep 2021) (hPa) 1007 1007 1006 1006 1005 1005 1004 1004 1003 1003 1002 1001 1881 1888 23;58 1000 10 11 12 13 14 15 16 17 10/09/2021 香港時間(時) Hong Kong Time (Hour) 11/09/2021

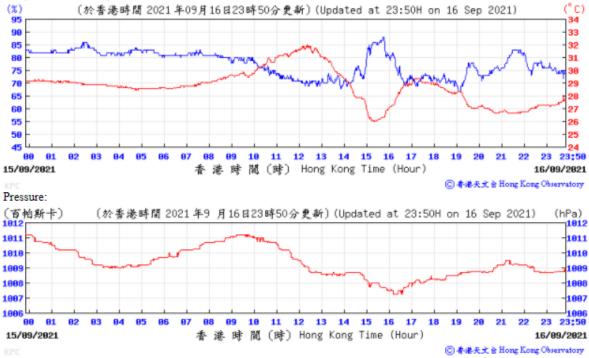
⑥ 考達天文 à Hong Kong Observatory

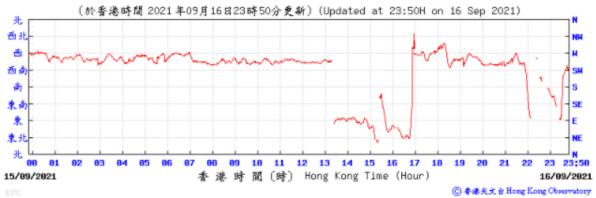
Wind Direction:

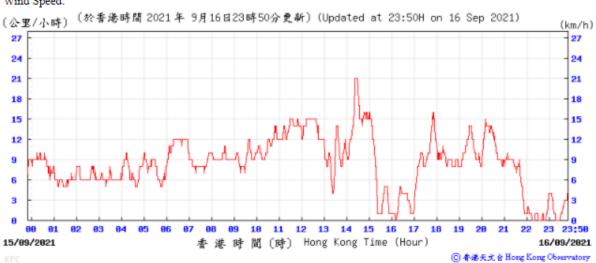




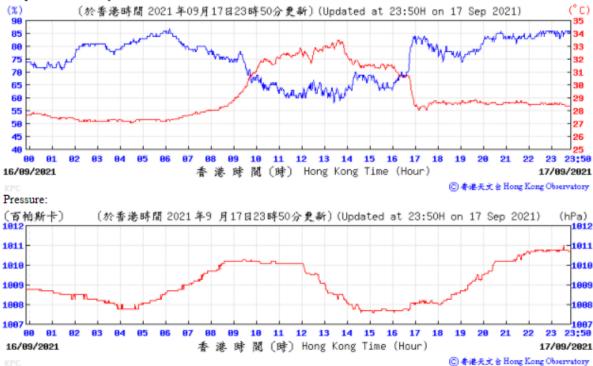


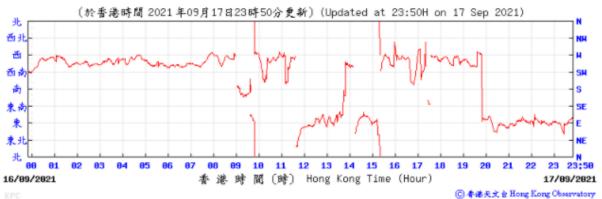


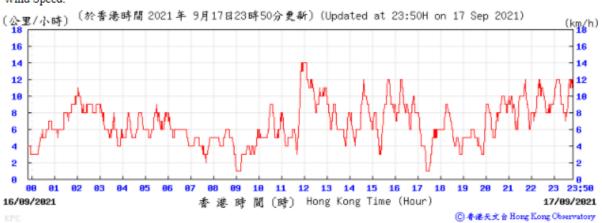


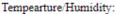


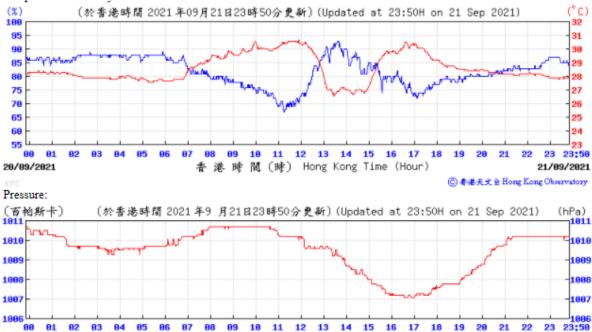




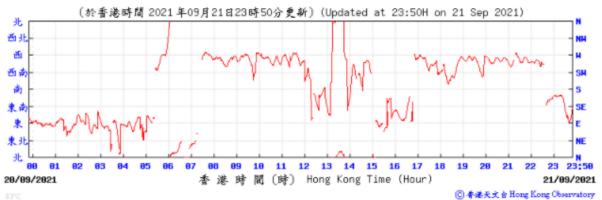








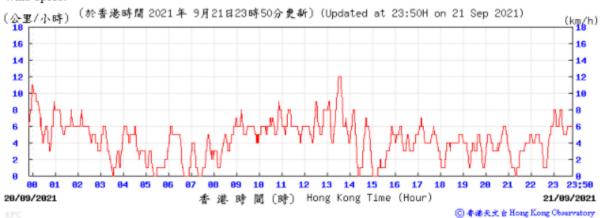
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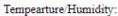


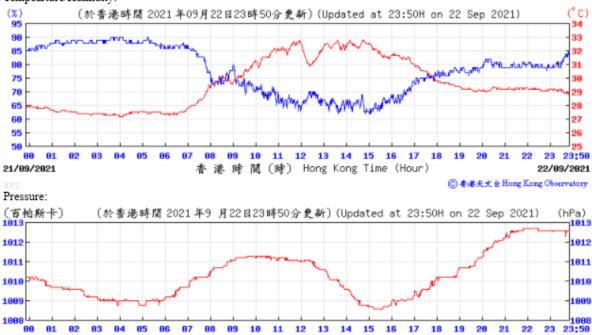
香港時間(時) Hong Kong Time (Hour)

21/09/2021

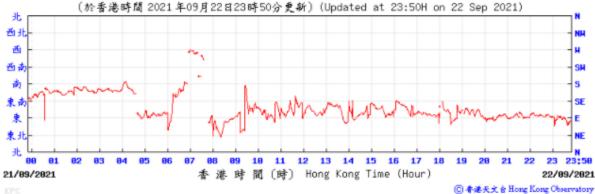
◎ 春港天文台 Hong Kong Observatory







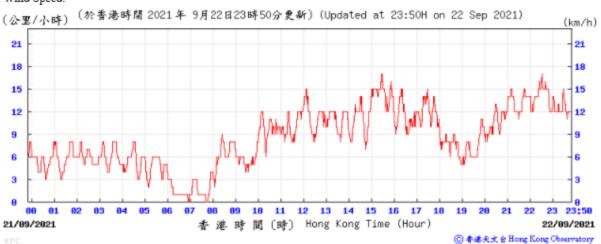
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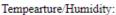


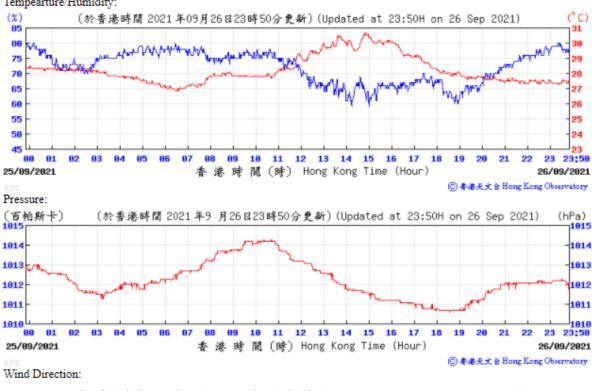
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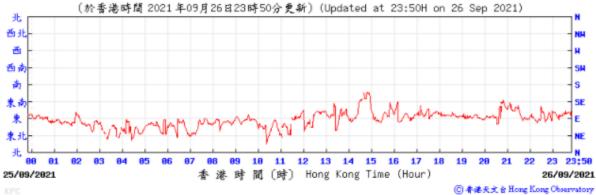
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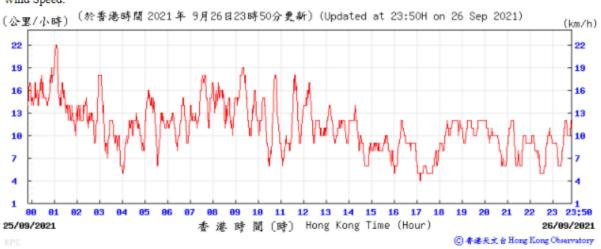
◎ 春港天文 à Hong Kong Observatory



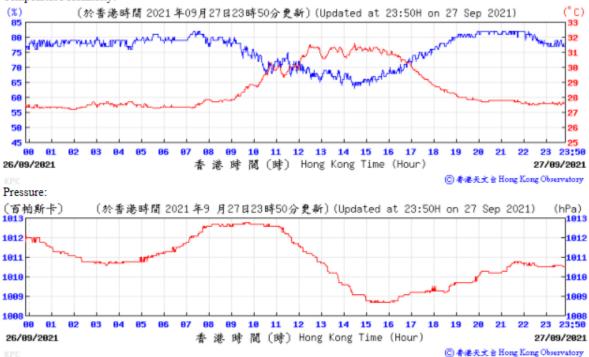


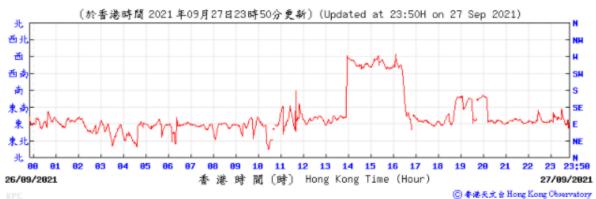


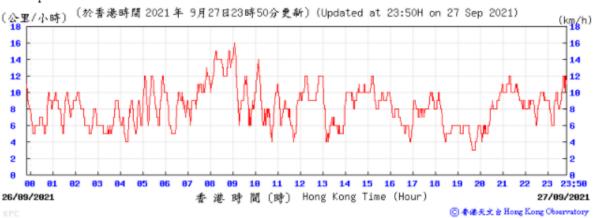


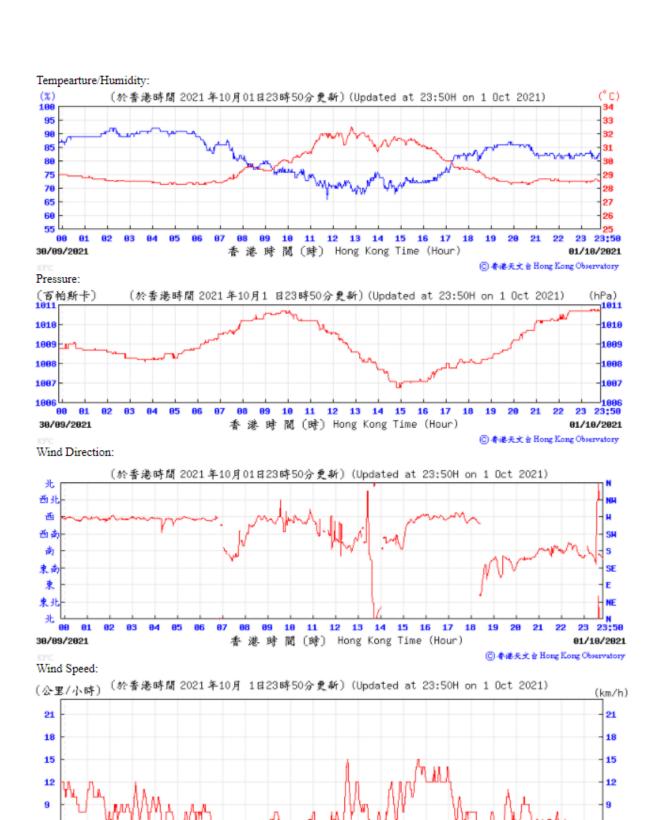












14 15 16 17

01/10/2021

◎ 春建天文會 Hong Kong Observatory

11 12 13

香港時間 (時) Hong Kong Time (Hour)

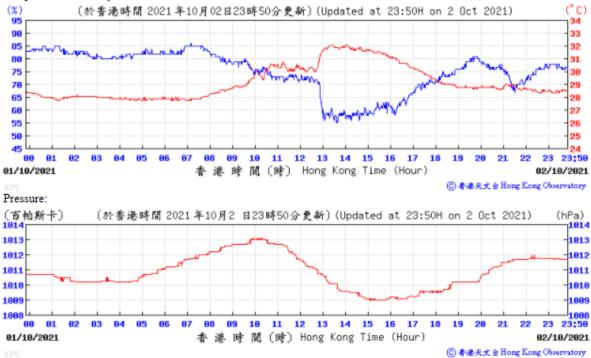
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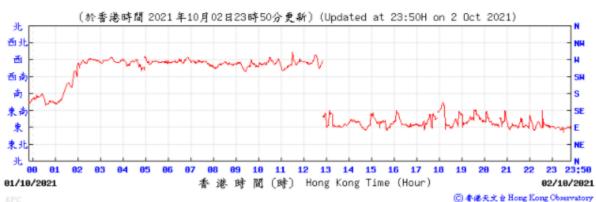
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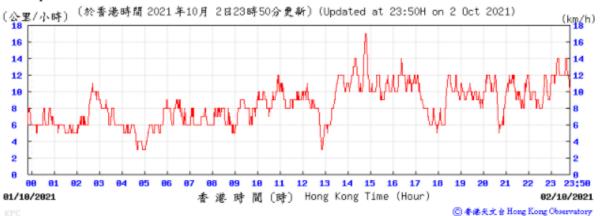
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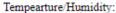
30/09/2021

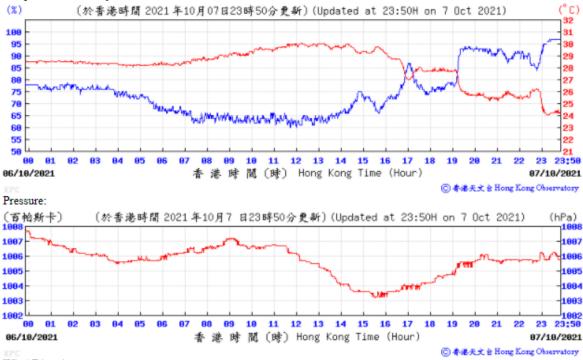


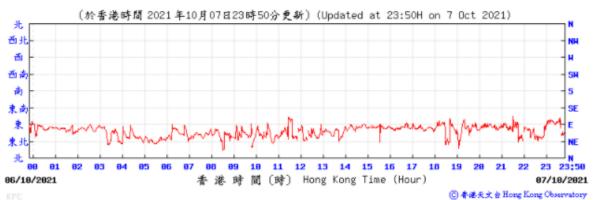


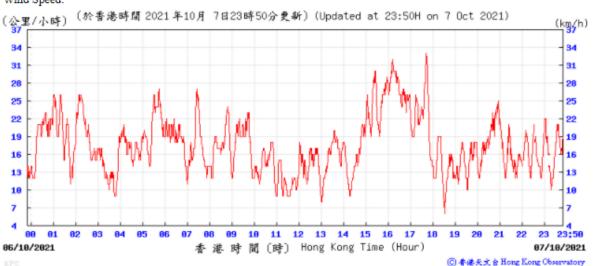




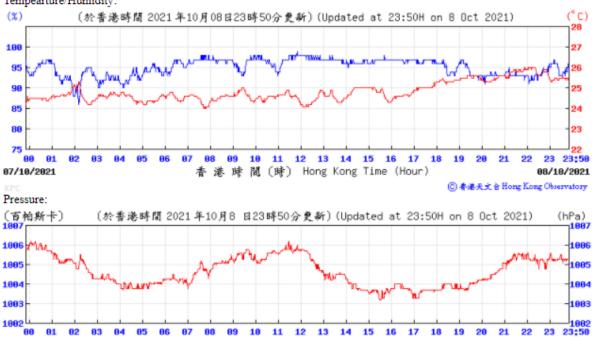




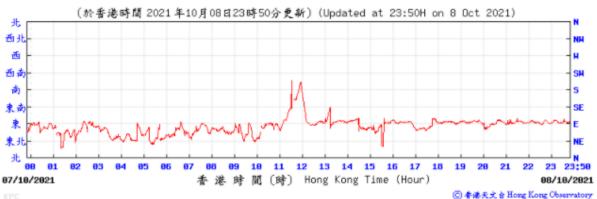








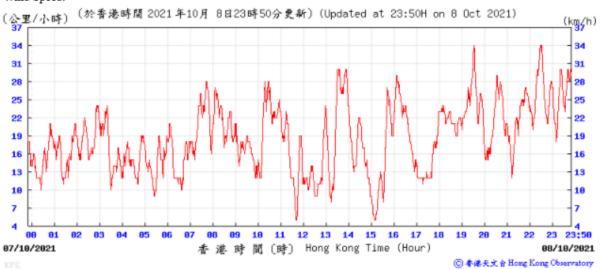
07/10/2021

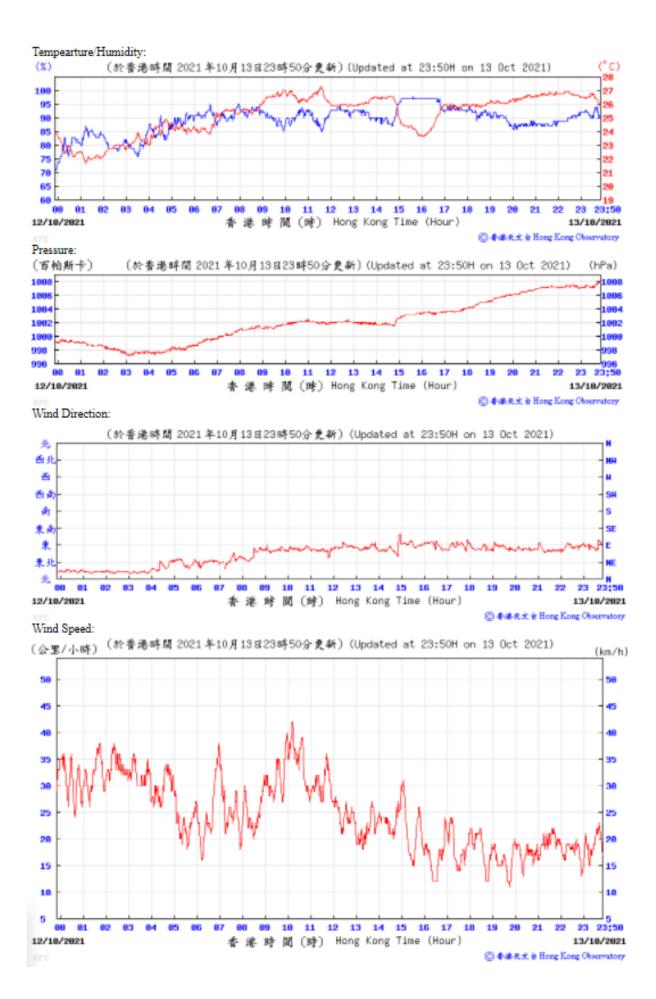


港 時 間 (時) Hong Kong Time (Hour)

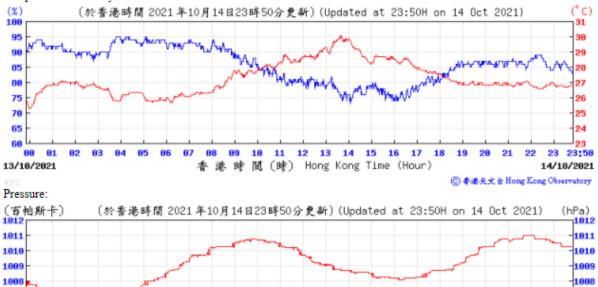
08/10/2021

⑥ 香港天文台 Hong Kong Observatory





Tempearture/Humidity:



1007

1006 23:50

14/18/2821

23

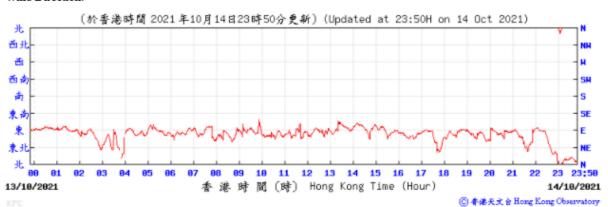
⑥ 香港天文台 Hong Kong Observatory

Wind Direction:

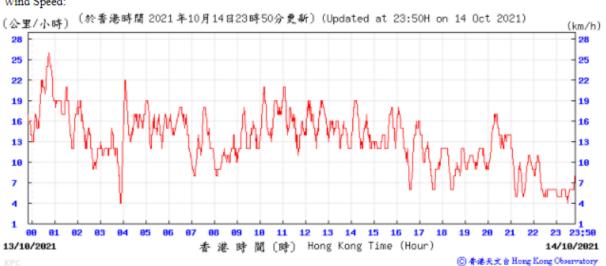
13/18/2821

91

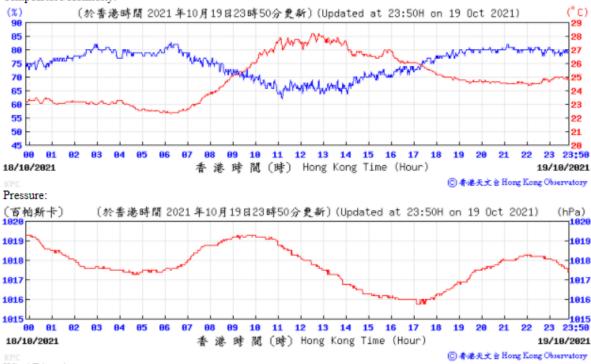
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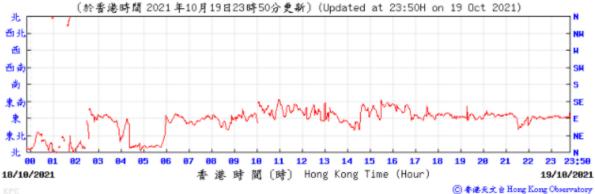


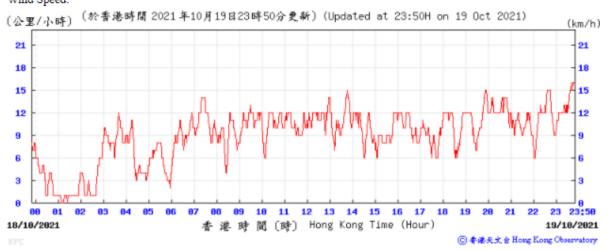
香港時間(時) Hong Kong Time (Hour)



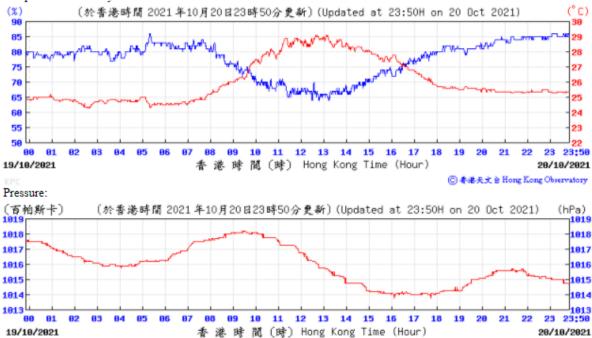


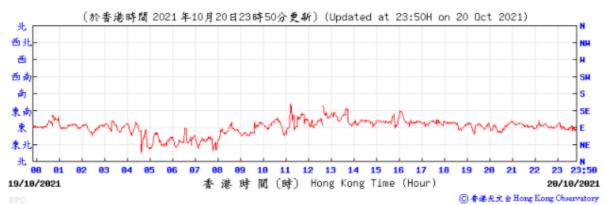




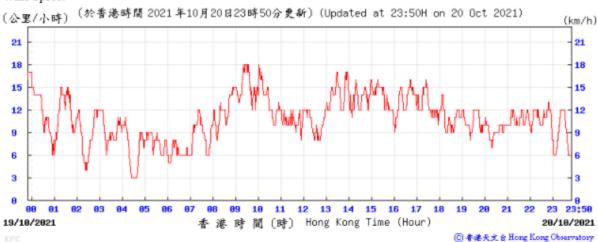




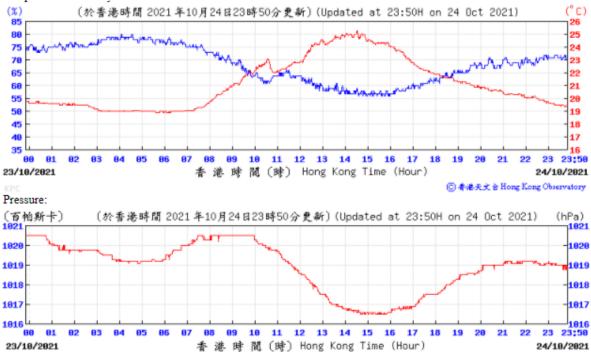




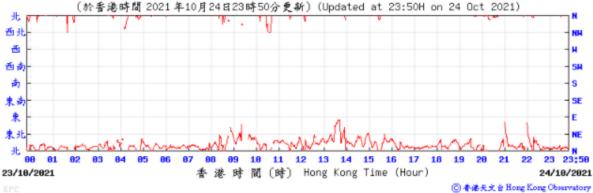
⑥ 香港天文 à Hong Kong Observatory





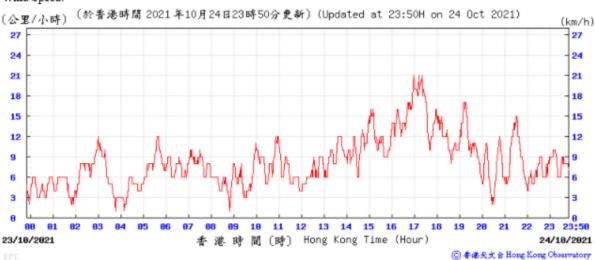


Wind Direction:

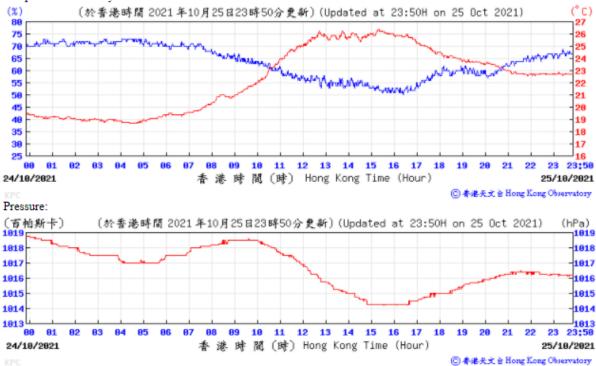


⑥ 香港天文台 Hong Kong Observatory

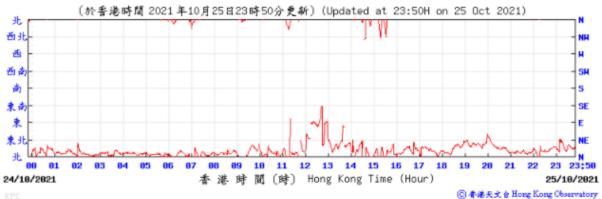
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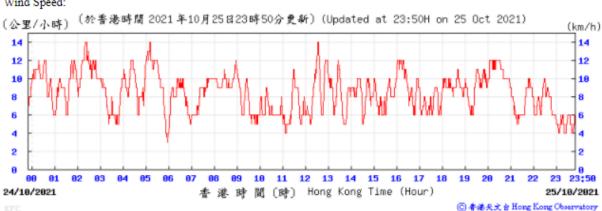


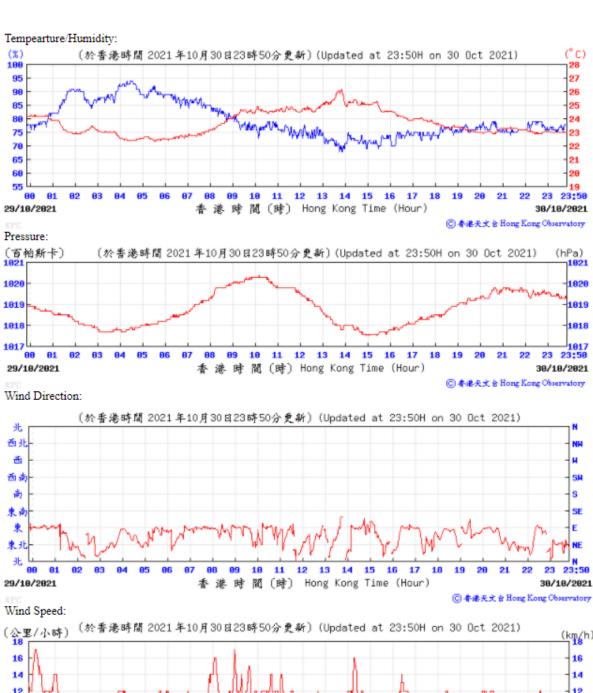


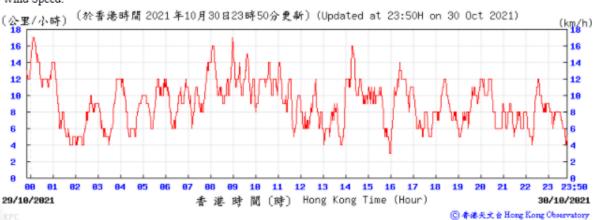
Wind Direction:

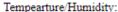


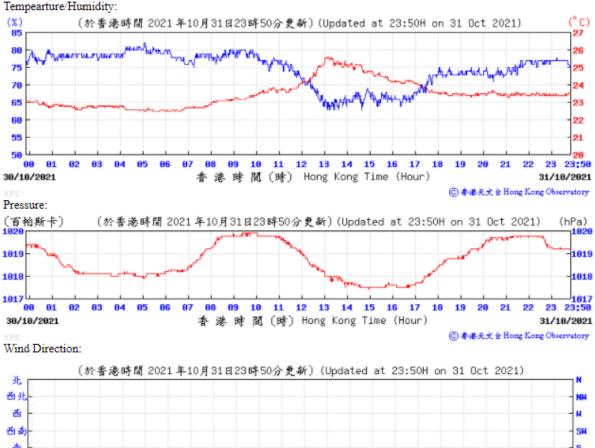
Wind Speed:

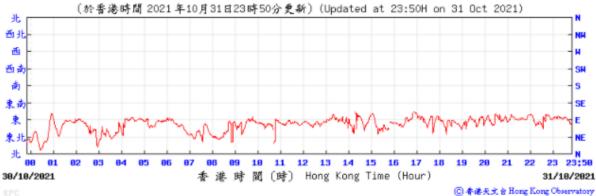




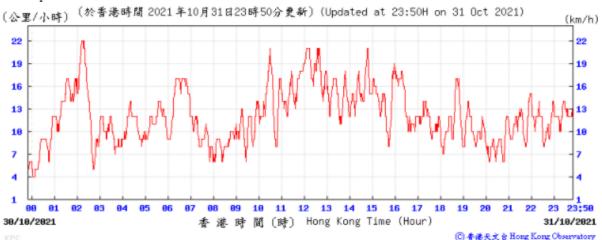










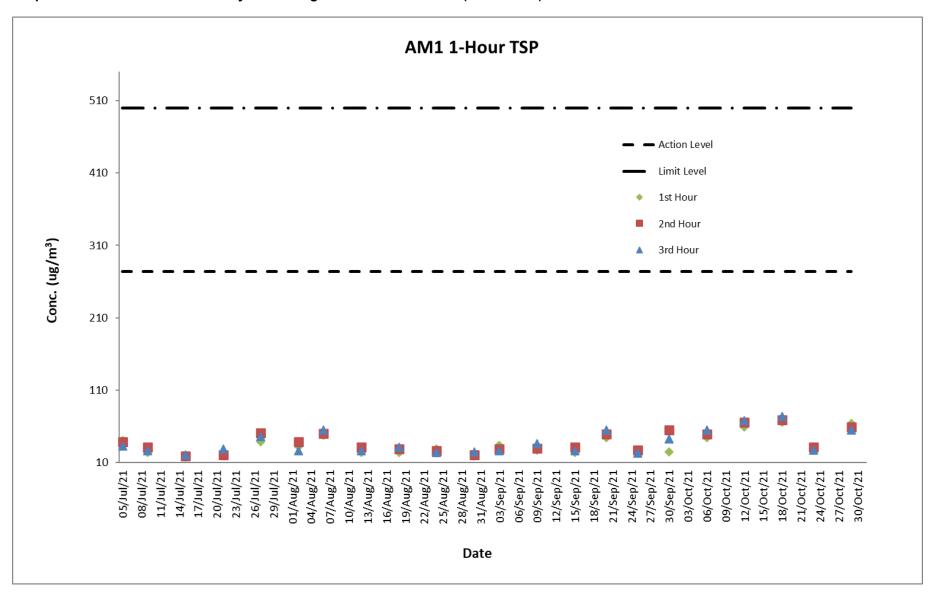


E. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM1 (1-hour TSP)

	Weather		Conc. (μg/m³)			Action Level	Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m³)
02-Aug-21	Fine	8:32 - 11:32	32	39	26	273.7	500
06-Aug-21	Cloudy	8:28 - 11:28	48	50	55	273.7	500
12-Aug-21	Fine	8:37 - 11:37	24	31	26	273.7	500
18-Aug-21	Fine	8:31 - 11:31	24	29	31	273.7	500
24-Aug-21	Fine	8:23 - 11:23	29	26	24	273.7	500
30-Aug-21	Fine	8:22 - 11:22	19	21	25	273.7	500
03-Sep-21	Fine	8:32 - 11:32	34	29	26	273.7	500
09-Sep-21	Sunny	8:31 - 11:31	27	30	36	273.7	500
15-Sep-21	Sunny	8:22 - 11:22	24	31	26	273.7	500
20-Sep-21	Fine	8:29 - 11:29	44	49	55	273.7	500
25-Sep-21	Sunny	8:23 - 11:23	24	27	23	273.7	500
30-Sep-21	Sunny	8:24 - 11:24	25	55	43	273.7	500
06-Oct-21	Sunny	8:22 - 11:22	44	49	55	273.7	500
12-Oct-21	Fine	8:31 - 11:31	59	66	68	273.7	500
18-Oct-21	Cloudy	8:24 - 11:24	66	69	74	273.7	500
23-Oct-21	Cloudy	8:23 - 11:23	29	31	27	273.7	500
29-Oct-21	Cloudy	8:18 - 11:18	64	59	55	273.7	500

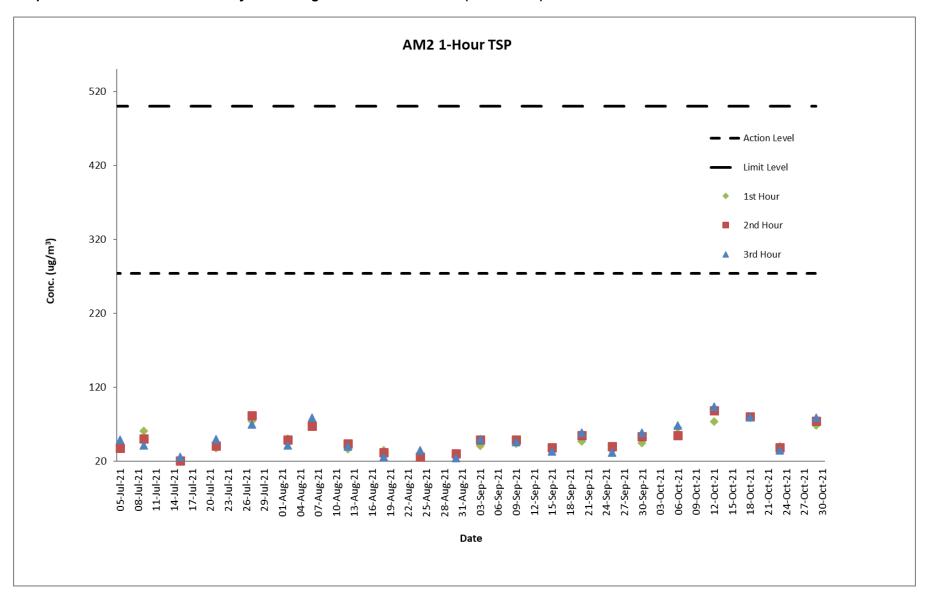
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



Air Quality Monitoring Result at Station AM2 (1-hour TSP)

	Weather		Conc. (μg/m³)			Action Level	Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m3)	(µg/m³)
02-Aug-21	Fine	8:44 - 11:44	51	49	42	274.2	500
06-Aug-21	Cloudy	8:38 - 11:38	73	68	79	274.2	500
12-Aug-21	Fine	8:51 - 11:51	37	44	40	274.2	500
18-Aug-21	Fine	8:45 - 11:45	35	32	26	274.2	500
24-Aug-21	Fine	8:37 - 11:37	31	26	35	274.2	500
30-Aug-21	Fine	8:36 - 11:36	28	31	25	274.2	500
03-Sep-21	Fine	8:46 - 11:46	41	49	50	274.2	500
09-Sep-21	Sunny	8:44 - 11:44	44	49	46	274.2	500
15-Sep-21	Sunny	8:36 - 11:36	35	39	34	274.2	500
20-Sep-21	Fine	8:43 - 11:43	47	55	59	274.2	500
25-Sep-21	Sunny	8:37 - 11:37	35	40	32	274.2	500
30-Sep-21	Sunny	8:38 - 11:38	45	54	59	274.2	500
06-Oct-21	Sunny	8:37 - 11:37	66	55	69	274.2	500
12-Oct-21	Fine	8:48 - 11:48	74	89	94	274.2	500
18-Oct-21	Cloudy	8:39 - 11:39	79	81	80	274.2	500
23-Oct-21	Cloudy	8:38 - 11:38	40	39	35	274.2	500
29-Oct-21	Cloudy	8:33 - 11:33	69	75	79	274.2	500

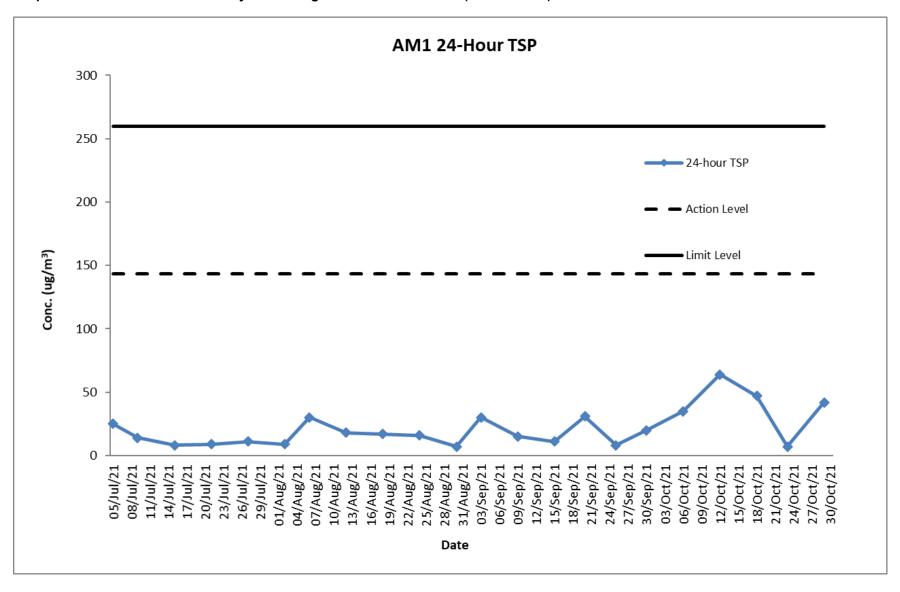
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



Air Quality Monitoring Result at Station AM1 (24-hour TSP)

Star	rt	Finis	sh	Filter W	eight (g)	Rea	ding	Sampling	Flov	w Rate (m³/ı	min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
02-Aug-21	08:30	03-Aug-21	08:30	2.7473	2.7635	23696.38	23720.38	24	1.27	1.27	1.27	9	Fine	143.6	260
06-Aug-21	08:25	07-Aug-21	08:25	2.7303	2.786	23720.38	23744.38	24	1.27	1.27	1.27	30	Cloudy	143.6	260
12-Aug-21	08:35	13-Aug-21	08:35	2.7305	2.7638	23744.38	23768.38	24	1.27	1.27	1.27	18	Fine	143.6	260
18-Aug-21	08:28	19-Aug-21	08:28	2.738	2.7685	23768.38	23792.38	24	1.27	1.27	1.27	17	Fine	143.6	260
24-Aug-21	08:21	25-Aug-21	08:21	2.7282	2.757	23792.38	23816.38	24	1.27	1.27	1.27	16	Fine	143.6	260
30-Aug-21	08:20	31-Aug-21	08:20	2.7570	2.7690	23816.38	23840.38	24	1.26	1.26	1.26	7	Fine	143.6	260
03-Sep-21	08:30	04-Sep-21	08:30	2.7623	2.8175	23840.38	23864.38	24	1.27	1.27	1.27	30	Fine	143.6	260
09-Sep-21	08:29	10-Sep-21	08:29	2.7825	2.8098	23864.38	23888.38	24	1.27	1.27	1.27	15	Sunny	143.6	260
15-Sep-21	08:20	16-Sep-21	08:20	2.7883	2.8078	23888.38	23912.38	24	1.27	1.27	1.27	11	Sunny	143.6	260
20-Sep-21	08:26	21-Sep-21	08:26	2.7923	2.8463	23912.38	23936.38	24	1.22	1.22	1.22	31	Fine	143.6	260
25-Sep-21	08:20	26-Sep-21	08:20	2.7980	2.8122	23936.38	23960.38	24	1.22	1.22	1.22	8	Sunny	143.6	260
30-Sep-21	08:22	01-Oct-21	08:22	2.7855	2.82	23960.38	23984.38	24	1.22	1.22	1.22	20	Sunny	143.6	260
06-Oct-21	08:20	07-Oct-21	08:20	2.7737	2.8357	23984.38	24008.38	24	1.22	1.22	1.22	35	Sunny	143.6	260
12-Oct-21	08:29	13-Oct-21	08:29	2.7770	2.8890	24008.38	24032.38	24	1.22	1.22	1.22	64	Fine	143.6	260
18-Oct-21	08:22	19-Oct-21	08:22	2.7767	2.8590	24032.38	24056.38	24	1.22	1.22	1.22	47	Cloudy	143.6	260
23-Oct-21	08:20	24-Oct-21	08:20	2.7620	2.7736	24056.38	24080.38	24	1.22	1.22	1.22	7	Cloudy	143.6	260
29-Oct-21	08:15	30-Oct-21	08:15	2.7480	2.8217	24080.38	24104.38	24	1.22	1.22	1.22	42	Cloudy	143.6	260

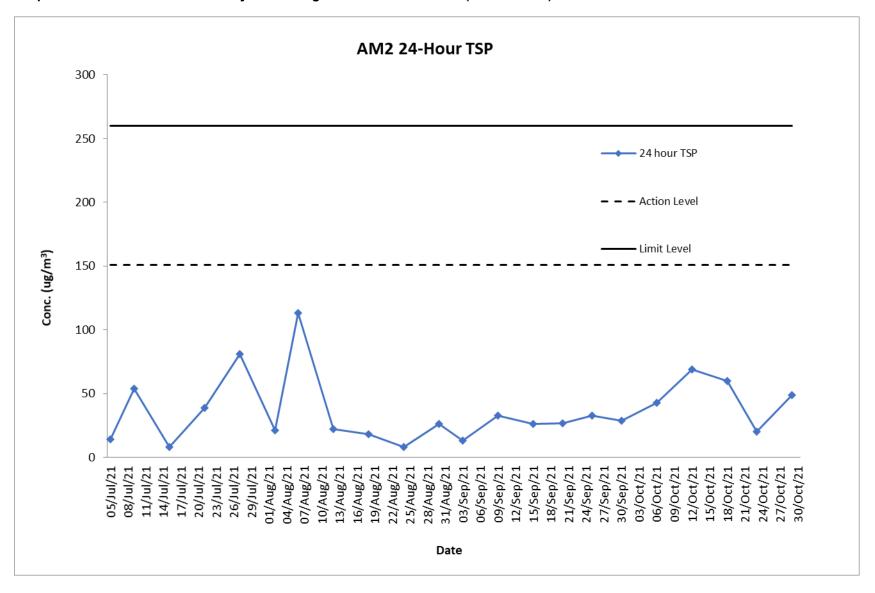
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



Air Quality Monitoring Result at Station AM2 (24-hour TSP)

Star	t	Finis	h	Sampling				
Date	Time	Date	Time	Time (hrs)	Conc. (µg/m³)	Weather Condition	Action Level	Limit Level
02-Aug-21	08:42	03-Aug-21	08:42	24	21	Fine	151.1	260
06-Aug-21	08:41	07-Aug-21	08:41	24	113	Cloudy	151.1	260
12-Aug-21	08:48	13-Aug-21	08:48	24	22	Fine	151.1	260
18-Aug-21	08:42	19-Aug-21	08:42	24	18	Fine	151.1	260
24-Aug-21	08:34	25-Aug-21	08:34	24	8	Fine	151.1	260
30-Aug-21	08:33	31-Aug-21	08:33	24	26	Fine	151.1	260
03-Sep-21	08:43	04-Sep-21	08:43	24	13	Fine	151.1	260
09-Sep-21	08:41	10-Sep-21	08:41	24	33	Sunny	151.1	260
15-Sep-21	08:33	16-Sep-21	08:33	24	26	Sunny	151.1	260
20-Sep-21	08:40	21-Sep-21	08:40	24	27	Fine	151.1	260
25-Sep-21	08:34	26-Sep-21	08:34	24	33	Sunny	151.1	260
30-Sep-21	08:35	01-Oct-21	08:35	24	29	Sunny	151.1	260
06-Oct-21	08:34	07-Oct-21	08:34	24	43	Sunny	151.1	260
12-Oct-21	08:44	13-Oct-21	08:44	24	69	Fine	151.1	260
18-Oct-21	08:36	19-Oct-21	08:36	24	60	Cloudy	151.1	260
23-Oct-21	08:35	24-Oct-21	08:35	24	20	Cloudy	151.1	260
29-Oct-21	08:29	30-Oct-21	08:29	24	49	Cloudy	151.1	260

Graphical Presentation of Air Quality Monitoring Result at Station AM2 (24-hour TSP)



Noise Monitoring Result at Station NM1A

voise Monitoi	ring Result	at Station NM1A		
Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
02-Aug-21	09:28	66.3	62.5	
02-Aug-21	09:33	67.4	63.2	
02-Aug-21	09:38	66.0	62.7	67
02-Aug-21	09:43	65.8	61.7	67
02-Aug-21	09:48	66.2	62.9	
02-Aug-21	09:53	66.4	62.2	
12-Aug-21	09:35	66.6	62.4	
12-Aug-21	09:40	67.3	63.1	
12-Aug-21	09:45	66.4	62.6	
12-Aug-21	09:50	66.2	62.7	68
12-Aug-21	09:55	67.0	63.2	
12-Aug-21	10:00	66.7	62.9	
18-Aug-21	09:28	66.2	62.1	
18-Aug-21	09:33	65.0	61.3	
18-Aug-21	09:38	66.7	62.4	
18-Aug-21	09:43	66.5	62.1	67
18-Aug-21	09:48	65.4	61.2	
18-Aug-21	09:53	65.9	61.6	
24-Aug-21	09:21	65.6	61.3	
24-Aug-21	09:26	66.2	62.4	
24-Aug-21	09:31	66.7	62.5	
	09:36	68.6	64.1	68
24-Aug-21	09:41	67.5	63.8	
24-Aug-21				
24-Aug-21	09:46	65.9	61.6	
30-Aug-21	09:20	66.7	62.9	
30-Aug-21	09:25	67.1	63.7	
30-Aug-21	09:30	67.8	63.4	68
30-Aug-21	09:35	66.3	62.6	
30-Aug-21	09:40	66.5	62.6	
30-Aug-21	09:45	67.2	63.6	
09-Sep-21	09:28	66.0	62.6	
09-Sep-21	09:33	67.2	63.3	
09-Sep-21	09:38	67.2	63.4	68
09-Sep-21	09:43	66.5	62.7	
09-Sep-21	09:48	68.9	64.7	
09-Sep-21	09:53	66.4	62.1	
15-Sep-21	09:20	66.0	62.8	
15-Sep-21	09:25	67.9	63.6	
15-Sep-21	09:30	66.2	62.5	68
15-Sep-21	09:35	66.4	62.5	
15-Sep-21	09:40	67.4	63.6	
15-Sep-21	09:45	66.7	62.9	
20-Sep-21	09:27	66.9	62.7	
20-Sep-21	09:32	67.2	63.8	
20-Sep-21	09:37	66.2	62.3	68
20-Sep-21	09:42	66.4	62.5	
20-Sep-21	09:47	67.4	63.5	
20-Sep-21	09:52	66.6	62.8	
30-Sep-21	09:22	66.0	62.1	
30-Sep-21	09:27	67.1	63.5	
30-Sep-21	09:32	67.4	63.6	68
30-Sep-21	09:37	66.3	62.8	00
30-Sep-21	09:42	67.1	63.7	
30-Sep-21	09:47	67.8	63.7	

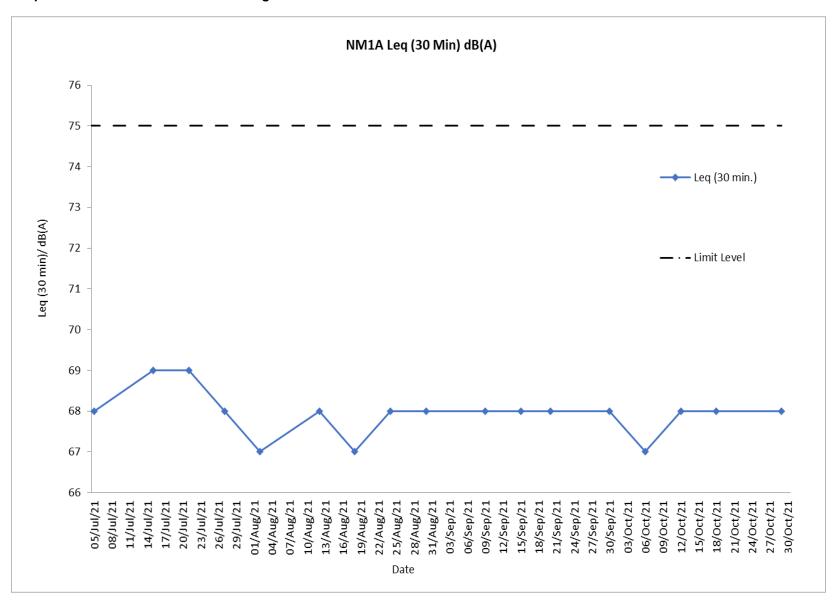
	61.9	65.0	09:22	06-Oct-21
	62.8	66.4	09:27	06-Oct-21
67	61.5	65.2	09:32	06-Oct-21
07	62.7	66.3	09:37	06-Oct-21
	62.8	66.6	09:42	06-Oct-21
	61.3	65.5	09:47	06-Oct-21
	62.9	66.0	09:32	12-Oct-21
	63.8	67.2	09:37	12-Oct-21
68	64.7	68.3	09:42	12-Oct-21
06	63.6	67.2	09:47	12-Oct-21
	62.1	66.5	09:52	12-Oct-21
	62.6	66.8	09:57	12-Oct-21
	63.5	67.6	09:22	18-Oct-21
	64.5	68.6	09:27	18-Oct-21
68	62.8	66.4	09:32	18-Oct-21
08	62.6	66.9	09:37	18-Oct-21
	62.1	66.0	09:42	18-Oct-21
	63.1	67.2	09:47	18-Oct-21
	62.5	66.0	09:17	29-Oct-21
	61.4	65.2	09:22	29-Oct-21
68	61.7	65.6	09:27	29-Oct-21
UO	63.1	67.4	09:32	29-Oct-21
	63.6	67.8	09:37	29-Oct-21
	62.6	66.7	09:42	29-Oct-21

Remarks: +3dB (A) correction was applied to free-field measurement.



The station set-up of a free-field measurement at Station NM1A.

Graphical Presentation Noise Monitoring Result at Station NM1A



F. Waste Flow table

		Actual Quant				ed Monthly		Act	ual Quantities	of C&D Wa	stes Gene	rated Month	nly
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2016													
Mar	2702.1	0.0	0.0	0.0	2702.1	0.0	0.0	4.5	0.1	0.0	0.0	0.0	30.6
Apr	8631.5	0.0	0.0	0.0	8631.5	0.0	0.0	16.0	0.0	0.0	0.0	0.0	19.2
May	12487.8	0.0	0.0	0.0	12487.8	0.0	0.0	34.0	0.0	0.0	0.0	0.7	60.5
Jun	8600.8	0.0	0.0	0.0	8.0008	0.0	0.0	31.4	0.2	0.0	0.0	0.5	13.5
Jul	12624.2	0.0	0.0	0.0	12624.2	0.0	0.0	19.6	0.0	0.0	0.0	2.0	9.9
Aug	14419.9	0.0	0.0	0.0	14419.9	0.0	0.0	43.9	0.0	0.0	0.0	0.0	11.1
Sep	13671.3	0.0	0.0	0.0	13671.3	0.0	0.0	59.8	0.0	0.0	0.0	1.6	12.4
Oct	13088.9	0.0	0.0	0.0	13088.9	0.0	0.0	36.9	0.2	1.5	0.0	0.0	15.2
Nov	12424.7	0.0	0.0	0.0	12424.7	0.0	0.0	74.7	0.0	0.0	0.0	1.4	10.2
Dec	12487.6	0.0	0.0	0.0	12487.6	0.0	0.0	13.9	0.0	0.0	0.0	1.3	9.0
Sub-total (2016)	111138.8	0.0	0.0	0.0	111138.8	0.0	0.0	334.5	0.4	1.5	0.0	7.6	191.6
2017													
Jan	9607.8	0.0	0.0	0.0	9607.8	0.0	0.0	29.5	0.0	0.0	0.0	0.0	7.3
Feb	9108.2	0.0	0.0	0.0	9108.2	0.0	0.0	50.2	0.2	0.0	0.0	0.7	9.8
Mar	11361.7	0.0	0.0	0.0	11361.7	0.0	0.0	16.1	0.0	0.0	0.0	1.4	8.5
Apr	2591.5	0.0	0.0	0.0	2591.5	0.0	0.0	35.7	0.0	0.0	0.0	0.0	4.7
May	2579.3	0.0	0.0	99.0	2480.3	0.0	0.0	20.9	0.1	0.0	0.0	0.5	10.0
Jun	476.0	0.0	0.0	341.0	129.7	5.3	0.0	0.0	0.0	0.0	0.0	0.0	7.6
Jul	3419.0	0.0	0.0	804.0	2615.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.8
Aug	3730.9	0.0	0.0	1377.5	2353.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4
Sep	2108.2	0.0	0.0	1133.5	974.7	0.0	0.0	34.6	0.2	0.0	0.0	0.0	10.8
Oct	9159.0	0.0	0.0	7868.0	1291.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	9.3
Nov	5095.4	0.0	0.0	4352.0	725.2	18.1	0.0	0.0	0.0	0.0	0.0	0.0	38.8
Dec	3856.2	0.0	0.0	3076.0	780.2	0.0	0.0	0.0	0.2	0.0	0.0	0.4	8.4
Sub-total (2017)	63093.1	0.0	0.0	19051.0	44018.7	23.4	0.0	187.1	0.7	0.0	0.0	3.8	137.3

145101111		Actual Quant	ities of Inert			Act	ual Quantities	of C&D Wa	astes Gene	rated Month	nly		
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2018													
Jan	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Feb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5
Mar	6120.2	0.0	0.0	5782.0	338.2	0.0	0.0	0.0	0.0	1.0	0.0	0.5	17.6
Apr	14460.3	0.0	0.0	12484.1	1976.3	0.0	0.0	0.0	0.0	0.2	0.0	0.0	7.6
May	59783.7	0.0	0.0	46989.0	12794.7	0.0	0.0	59.6	0.0	0.0	0.0	0.0	9.4
Jun	53117.5	0.0	0.0	37642.8	15474.7	0.0	0.0	51.5	0.2	0.0	0.0	0.0	12.8
Jul	89901.5	0.0	0.0	85317.1	4584.4	0.0	165.1	114.6	0.0	0.0	0.0	0.0	41.3
Aug	35137.3	0.0	0.0	33731.6	1405.7	0.0	214.3	148.1	0.0	0.0	0.0	0.0	48.5
Sep	4924.3	0.0	0.0	4641.2	196.1	87.0	174.6	40.0	0.0	0.0	0.0	0.0	179.2
Oct	19099.9	0.0	0.0	11301.0	7642.8	156.1	0.0	106.3	0.4	0.0	0.0	0.0	528.5
Nov	104168.0	0.0	0.0	79811.6	24351.0	5.3	0.0	54.5	0.0	0.6	0.0	0.0	31.5
Dec	62989.9	0.0	0.0	51284.4	11699.9	5.6	0.0	95.1	0.0	0.6	0.0	0.0	65.9
Sub-total (2018)	449702.6	0.0	0.0	368984.8	80463.7	254.0	553.9	669.7	0.5	2.4	0.0	0.5	943.7
2019						•							
Jan	74479.1	0.0	0.0	69249.5	5229.7	0.0	318.0	326.7	0.2	0.0	0.0	0.0	76.3
Feb	21969.9	0.0	0.0	17723.9	4246.0	0.0	16.5	55.2	0.0	0.0	0.0	0.0	26.7
Mar	19311.9	0.0	0.0	8569.9	10742.0	0.0	337.8	61.5	0.0	0.0	0.0	0.0	36.3
Apr	28559.9	0.0	0.0	21280.3	7279.6	0.0	0.0	32.6	0.0	0.8	0.0	0.0	24.9
May	45418.0	0.0	0.0	11200.6	34217.4	0.0	0.0	27.4	0.2	0.5	0.0	0.0	33.7
Jun	66633.4	0.0	0.0	23874.5	42748.0	10.9	59.2	11.9	0.0	0.9	0.0	0.0	35.3
Jul	36619.6	0.0	0.0	1632.7	34960.9	26.0	64.4	120.7	0.0	0.0	0.0	0.0	57.9
Aug	2526.8	0.0	0.0	0.0	2499.0	27.8	31.9	40.2	0.0	0.8	0.0	0.0	66.3
Sep	4117.6	0.0	0.0	0.0	4088.7	28.9	95.2	19.0	0.0	0.6	0.0	0.0	127.4
Oct	6974.2	0.0	0.0	0.0	6948.1	26.1	15.9	11.4	0.2	1.0	0.0	0.6	223.6
Nov	5334.4	0.0	0.0	0.0	5304.1	30.3	0.0	8.9	0.0	0.0	0.0	0.0	151.6
Dec	6236.8	0.0	0.0	0.0	6236.8	0.0	0.0	70.6	0.0	0.0	0.0	0.0	98.9
Sub-total (2019)	318181.6	0.0	0.0	153531.3	164500.1	150.1	938.9	785.8	0.6	4.6	0.0	0.6	959.0

		Actual Quant					Act	ual Quantities	of C&D Wa	astes Gene	rated Month	nly	
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facilty	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
2222	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)
2020	7000 0	0.0	0.0	0.0	7000 0			10.0		0.0			05.7
Jan - ·	7089.9	0.0	0.0	0.0	7089.9	0.0	0.0	10.6	0.2	0.0	0.0	0.0	65.7
Feb	16822.3	0.0	0.0	0.0	16822.3	0.0	0.0	232.2	0.1	0.0	0.0	0.0	66.3
Mar	6559.0	0.0	0.0	0.0	6559.0	0.0	110.4	63.1	0.0	0.9	0.0	0.0	138.3
Apr	4997.9	0.0	0.0	1615.7	3382.2	0.0	159.2	1123.9	1.9	0.0	0.0	0.0	113.2
May	2236.0	0.0	0.0	452.3	1783.6	0.0	0.0	406.5	0.0	0.0	0.0	0.0	188.8
Jun	1134.3	0.0	0.0	0.0	1134.3	0.0	31.5	262.6	0.2	0.6	0.0	0.0	210.6
Jul	148.8	0.0	0.0	0.0	148.8	0.0	31.5	458.5	0.5	0.0	0.0	0.0	220.0
Aug	540.7	0.0	0.0	0.0	540.7	0.0	0.0	340.8	0.0	0.0	0.0	0.0	238.3
Sep	1432.3	0.0	0.0	0.0	1432.3	0.0	0.0	750.7	0.2	0.0	0.0	0.0	291.9
Oct	1381.5	0.0	0.0	0.0	1381.5	0.0	0.0	717.9	0.2	0.0	0.0	0.0	400.2
Nov	1444.1	0.0	0.0	0.0	1437.4	6.7	475.8	473.6	0.2	0.5	0.0	0.0	377.8
Dec	793.8	0.0	0.0	0.0	793.8	0.0	0.0	478.3	0.2	0.0	0.0	0.0	435.8
Sub-total (2020)	44580.6	0.0	0.0	2068.1	42505.8	6.7	808.3	5318.7	3.7	2.0	0.0	0.0	2746.8
2021											_		_
Jan	881.4	0.0	0.0	0.0	881.4	0.0	0.0	835.1	0.4	0.0	0.0	0.0	497.0
Feb	544.7	0.0	0.0	0.0	544.7	0.0	0.0	100.5	0.3	0.0	0.0	0.0	504.7
Mar	406.1	0.0	0.0	0.0	406.1	0.0	0.0	455.8	0.3	0.0	0.0	0.0	881.8
Apr	633.0	0.0	0.0	0.0	633.0	0.0	0.0	429.9	0.7	0.0	0.0	0.0	613.0
May	1125.8	0.0	0.0	0.0	1125.8	0.0	0.0	355.1	0.2	0.1	0.0	0.0	355.3
Jun	877.3	0.0	0.0	0.0	877.3	0.0	0.0	98.4	0.2	0.0	0.0	0.4	420.3
Jul	8.9	0.0	0.0	0.0	0.0	8.9	0.0	43.9	2.0	0.0	0.0	0.0	278.2
Aug	1296.2	0.0	0.0	0.0	1296.2	0.0	0.0	161.5	0.0	0.0	0.0	0.0	459.1
Sep	1040.5	0.0	0.0	0.0	490.9	549.6	0.0	13.6	0.0	0.0	0.0	0.0	620.8
Oct	311.0	0.0	0.0	0.0	311.0	0.0	0.0	11.5	0.0	0.0	0.0	0.0	485.6
Nov	0.0												
Dec	0.0												
Sub-total (2021)	7124.8	0.0	0.0	0.0	6566.4	558.5	0.0	2505.2	4.0	0.1	0.0	0.4	5115.7
Total	993821.4	0.0	0.0	543635.2	449193.4	992.7	2301.1	9800.8	9.9	10.5	0.0	12.9	10094.0

ſ		Actual Quantities of Inert C&D Materials Generated Monthly								Actual Quantities of C&D Wastes Generated Monthly					
	Month	Total Quantity Generated	and Large Broken	Reused in the Contract	Reused in other Projects	•	Disposed to Sorting Facilty	Imported	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse	
L		(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	(in ton)	

Note:

^{- 768.14, 1233.35} and 96.63 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137, Tuen Mun Area 38, and Chai Wan Public Fill Barging Point respectively in the reporting quarter.

G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works to the end of the reporting quarter are summarized in **Table G-1** below.

Table G-1: Statistics for complaints, notifications of summons and successful prosecutions for Lyric Theatre Complex

Reporting Period	Cumulative Statistics							
	Complaints	Notifications of summons	Successful prosecutions					
This reporting quarter (Aug 21 – Oct 21)	6	0	0					
From 1 March 2016 to end of the reporting quarter	30	0	0					

END OF PART-1

Part-2: EM&A for Foundation Works in Zones 2A, 2B & 2C

Foundation Works in Zones 2A, 2B & 2C

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The information supplied and contained within this report is, to the best of our knowledge, correct at time of printing

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Executive summary

This Quarterly EM&A Report presents the monitoring works conducted at Zone 2A from 1 August 2021 to 31 October 2021 and at Zone 2B & 2C from 30 September 2021 to 31 October 2021.

The impact stage EM&A programme for the Project includes air quality, noise, water quality, waste, landscape and visual monitoring. The recommended environmental mitigation measures were implemented on site and regular inspections were carried out to ensure that the environmental conditions are acceptable.

The EM&A programme was carried out by the ET in accordance with the EM&A Manual requirements. It is concluded from the environmental monitoring and audit works that adequate environmental mitigation measures have been implemented by the contractors where appropriate in the reporting quarter.

Exceedance of Action and Limit Levels

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) in the reporting quarter.

One Action Level exceedance due to one complaint with no Limit Level exceedance of Construction Noise was recorded in the reporting quarter.

Implementation of Mitigation Measures

Construction phase weekly site inspections were carried out to confirm the implementation measures undertaken by the Contractors in the reporting quarter. The status of implementation of mitigation measures during the reporting quarter is shown in **Appendix C**.

Landscape and visual impact inspections were conducted as part of the above-mentioned weekly site inspections during the reporting quarter. No adverse comment on landscape and visual aspects were made during these inspections.

Record of Complaints

Six environmental complaints were received during the reporting quarter.

Record of Notifications of Summons and Successful Prosecutions

No notifications of summons and successful prosecutions were recorded in the reporting quarter.

1 Introduction

1.1 Background

Apex Testing & Certification Limited (Apex) was commissioned to undertake the Environmental Team (ET) services (including environmental monitoring and audit (EM&A)) for the construction activities in Zone 2A, consisting of Foundation, Excavation and Lateral Support Works for Integrated Basement and Underground Road (Contract No.: GW/2020/05/073); and Zone 2B & 2C consisting of Piling Works for Integrated Basement and Underground Road (Contract No.: CC/2020/2B/088) at WKCD. The major construction works and EM&A programme for Zone 2A and Zone 2B & 2C commenced on 3 October 2020 and 30 September 2021 respectively.

The overall works for the WKCD fall under two separate categories of Designated Project (DP) of the Environmental Impact Assessment Ordinance (EIAO), namely an "engineering feasibility study of urban development projects with a study area covering more than 20 ha or involving a total population of more than 100 000" (Item 1 of Schedule 3) and "an underpass more than 100m in length under the built areas" (Item A.9, Part I, Schedule 2). An Environmental Permit No. EP-453/2013/B (EP) was issued with respect to the "Underpass Road and Austin Road Flyover Serving the West Kowloon Cultural District" which specifically includes the abovementioned category of DP under Item A.9, Part I, Schedule 2 of the EIAO. The captioned projects include part of the abovementioned underpass road located within the site boundary falls under this same category.

The purpose of the development in Zone 2A and Zone 2B & 2C is to reserve for Integrated Basement (IB) and Underground Road (UR). The Zone 2A construction activities involve the foundation, excavation and lateral support (ELS) works, road works, drainage diversion works, and temporary car parking. The Zone 2B & 2C construction activities involve the piling works.

The Quarterly EM&A Report is prepared in accordance with the Clause 3.4 of the Environmental Permit No. EP-453/2013/B. This Quarterly EM&A Report presents the monitoring works at Zone 2A from 1 August 2021 to 31 October 2021and at Zone 2B & 2C from 30 September 2021 to 31 October 2021. The purpose of this report is to summarise the findings in the EM&A of the project over the reporting period.

1.2 Project Organisation

The organisation chart and lines of communication with respect to the on-site environmental management structure together with the contact information of the key personnel are shown in **Appendix A**.

1.3 Environmental Status in the Reporting Period

During the reporting period, construction works at Zone 2A undertaken include:

Zone 2A-1

- Grouting Works (Trial 1)
 - Install Pump Wells
 - Pumping Test

- ELS (Stage 1) Grouting / Pipe Pile Works
 - King Post & Erection of Steel Column for Working Platform
- Socketed H-Pile Works
 - Remaining Socketed H-Pile Works
- Bored Pile Works
 - Bored Pile Construction

Zone 2A-2

- Bored Pile Works
 - Additional Bored Pile Construction
- ELS (Stage 1) Grouting / Pipe Pile Works
 - King Post
 - Stage 1a & 1b Grouting
 - Pipe Pile Construction

During the reporting period, construction works at Zone 2B & 2C undertaken include: Stage (4-1)

- Bored Pile Works
 - Predrilling

Section 1, Section 2, Section 3, Section 4, Section 5

- Bored Pile Works
 - Predrilling

The Construction Works Programme of the Project is provided in **Appendix B**. A layout plan of the Project is provided in **Figure 1**.

2 Summary of EM&A Requirements and Mitigation Measures

2.1 Monitoring Requirements

In accordance with the EM&A Manual, environmental parameters including air quality, noise, landscape and visual have been monitored. The specific parameters, monitoring frequency and the respective Action and Limit levels are given in **Table 2.1**. Locations of the monitoring stations are provided in **Figure 1**.

Table 2.1: Summary of Impact EM&A Requirements

Parameters	Descriptions	Locations	Frequencies	Action level	Limit level
Air Quality	24-Hour TSP	AM3 - The Victoria Towers Tower 1	At least once every 6 days	152.4 μg/m³	260 μg/m³
	1-Hour TSP	AM3 - The Victoria Towers Tower 1	At least 3 times every 6 days	280.4 μg/m³	500 μg/m³
	24-Hour TSP	AM4 - Canton Road Government Primary School	At least once every 6 days	152.6 µg/m³	260 μg/m³
	1-Hour TSP	AM4 - Canton Road Government Primary School	At least 3 times every 6 days	278.5 μg/m³	500 μg/m³
	24-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least once every 6 days	141.1 μg/m³	260 μg/m³
	1-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days	275.4 μg/m³	500 μg/m³
Noise	Leq, 30 minutes	NM2 - The Arch, Sun Tower	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
	Leq, 30 minutes	NM3 - The Victoria Towers Tower 1	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
	Leq, 30 minutes	NM4 - Canton Road Government Primary School	Weekly	When one documented complaint is received from any one of the sensitive receivers	70/65 dB(A)^
	Leq, 30 minutes	NM5 -Development next to Austin Station	Weekly	When one documented complaint is received from any one of the sensitive receivers	75 dB(A)
Landscape & Visual	Monitor implementation of proposed mitigation measures during the construction stage	As described in Table 9.1 and 9.2 of the EM&A Manual	Bi-weekly	N/A	N/A

Note:

^{^70} dB(A) for schools and 65 dB(A) during school examination periods.

The EM&A programme for the Project require 5 air monitoring stations and 5 noise quality monitoring stations located closest to the Project area. With regard to the monitoring activities at M+ Museum and the Lyric Complex, three monitoring stations had been considered, including AM1, AM2 for air monitoring, and NM1 for noise monitoring. In the context of the construction activities in Zone 2A and Zone 2B & 2C, all other monitoring locations including AM3, AM4, and AM5 for air monitoring; and NM2, NM3, NM4 and NM5 for noise monitoring, have been taken into account. However, access to all these originally designated monitoring stations was declined. Therefore, alternative monitoring stations was identified and proposed.

With regard to air monitoring, alternative monitoring locations (AM3A, AM4A, and AM5A) were identified at ground floor at the Northeast corner of West Kowloon Station's station box, at ground floor at the Southeast corner of West Kowloon Station's station box, and at ground floor at the North of West Kowloon Station's station box respectively. AM3A, AM4A, and AM5A were set in same direction to the area of major construction site activities in Zone 2A0. These alternative air monitoring locations (AM3A, AM4A, and AM5A) were approved by EPD on 29 September 2020.

For noise monitoring, alternative noise monitoring location (NM2A) was identified at the ground floor in front of The Arch - Sun Tower, which is at the same location as stated in the EM&A Manual for consistency. This alternative noise monitoring location was approved by EPD on 29 September 2020. Other alternative noise monitoring locations (NM3A, NM4A, and NM5A) were identified at the ground floor in front of the Xiqu Centre, at the ground floor next to Tsim Sha Tsui Fire Station, and at the Pedestrian road (ground floor) outside West Kowloon Station respectively. NM3A, NM4A and NM5A were set closer to the construction site boundary with more direct line sight to the major site activities and higher exposure to the construction noise with no disturbance to the premises' occupants during noise monitoring activities. These alternative noise monitoring locations (NM3A, NM4A, and NM5A) were approved by EPD on 29 September 2020.

Therefore, 3 air quality monitoring stations and 4 noise impact monitoring station were confirmed for the impact monitoring for construction activities in Zone 2A and Zone 2B & 2C.

2.2 Environmental Mitigation Measures

Environmental mitigation measures have been recommended in the EM&A Manual. Summary of implementation status of the environmental mitigation measures is provided in **Appendix C**.

3 Summary of EM&A Results

3.1 Monitoring Data

In accordance with the EM&A Manual, impact monitoring has been conducted in the reporting quarter. Meteorological data for the reporting quarter have been extracted from Hong Kong Observatory and presented in **Appendix D**. Monitoring data with graphical presentation for the reporting quarter are shown in **Appendix E**. A summary on the monitoring results are presented in **Table 3.1**.

Table 3.1: Summary of Monitoring Data

Parameter	Monitoring Location	Minimum	Maximum	Average
Air Quality				
1 hour TSP	АМЗА	32	83	51
1 hour TSP	AM4A	32	81	52
1 hour TSP	AM5A	32	83	53
24 hour TSP	AM3A	31	76	48
24 hour TSP	AM4A	31	79	49
24 hour TSP	AM5A	31	78	49
Construction Noise				
Leq(30min)	NM2A	58	58	58
Leq(30min)	NM3A	69	71	70
Leq(30min)	NM4A	68	69	68
Leq(30min)	NM5A	65	67	66

3.2 Monitoring Exceedances

Summary of the exceedances in the reporting quarter is tabulated in Table 3.2.

Table 3.2: Summary of Exceedances

Monitoring Station	Parameter	No. of Ex	Action Taken		
		Action Level	Limit Level	_	
Air Quality					
AM3A	1 hour TSP	0	0	N/A	
	24 hour TSP	0	0	N/A	
AM4A	1 hour TSP	0	0	N/A	
	24 hour TSP	0	0	N/A	
AM5A	1 hour TSP	0	0	N/A	
	24 hour TSP	0	0	N/A	
Construction Noise					
NM2A	Leq(30min)		0	Strengthen the implementation of	
NM3A	Leq(30min)	1 exceedance	0		
NM4A	Leq(30min)	due to one complaint	0	noise mitigation	
NM5A	Leq(30min)	_ '	0	measures	

3.2.1 1-hour TSP Monitoring

All 1-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 1-hour TSP for Air Quality was recorded.

3.2.2 24-hour TSP Monitoring

All 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/ Limit Level exceedance of 24-hour TSP for Air Quality was recorded.

3.2.3 Construction Noise Monitoring

All construction noise monitoring was conducted as scheduled in the reporting quarter. One Action Level exceedances (due to one noise complaint related to Zone 2A) with no Limit Level exceedance of Noise was recorded in the reporting quarter.

3.2.4 Landscape and Visual Monitoring

All landscape and visual impact inspections were conducted as scheduled in the reporting quarter. No adverse comment on landscape and visual aspects were recorded.

4 Waste Management

4.1 Zone 2A

As advised by the Contractor, 35.81 tonnes, 1538.68 tonnes, 9483.62 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter, while 48.96 tonnes of general refuse were disposed of at SENT landfill. 10.70 tonnes of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 0.0 tonne of inert C&D materials were reused on site. 0.0 tonne of fill materials were imported for use at site and 1275.76 tonnes of inert C&D materials was reused in other projects. 0.0 tonne of inert C&D materials was disposed to sorting facility and 1.00 tonnes of chemical wastes was collected by licensed contractors in the reporting quarter.

4.2 Zone 2B & 2C

As advised by the Zone 2B & 2C Contractor, 22.58 tonnes of inert C&D material were disposed of at Tuen Mun Area 38 in the reporting quarter, while 13.19 tonnes of general refuse were disposed of at SENT landfill. 0.0 tonne of metals, 0.0 tonne of paper/cardboard packaging, 0.0 tonne of plastics and 0.0 tonne of timber was collected by recycling contractors in the reporting quarter. 37.75 tonnes of inert C&D material were reused on site. 0.0 tonne of inert C&D material was imported for reuse at site and 0.0 tonne of inert C&D material were reused in other projects. 0.0 tonne of inert C&D material was disposed to sorting facility and 0.0 tonne of chemical waste was collected by licensed contractors in the reporting quarter.

The actual amounts of different types of waste generated by the activities of construction works at Zone 2A and Zone 2B & 2C in the reporting quarter are shown in **Appendix F**.

5 Environmental Non-conformance

There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) in the reporting quarter.

One Action Level exceedance due to one complaint with no Limit Level exceedance of Construction Noise was recorded in the reporting quarter.

Six complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received in the reporting quarter.

The first complaint was received on 2 August 2021. WKCDA received a complaint from the office of Mr. Derek hung (YTMDC member) regarding noise generated from WKCD construction site. The complainant has expressed concern about the construction noise between 19 and 31 July 2021, especially before 9am on 21 & 31 July 2021 (Wed & Sat). The complainant understands that the working hours permitted by the government is 7am - 7pm, except public holidays. However, he/she and Derek Hung would like to seek if the noise disturbance could be reduced before 9am. Video shot was taken by the complainant on 31 July 2021 to show the evidence of noise generated from WKCD construction site. Investigation result revealed that the identified major noise source by the complainant over 19-31 July 2021, was not from WKCD Zone 2A site (Zone 2B & 2C project was not commenced at that time). Thereby, the complaint might not be attributable to the Zone 2A site. However, the Contractor is recommended to maintain good practice on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby neighbors.

The second complaint was received on 19 August 2021. WKCDA has received a complaint from the Office of Mr. Derek Hung (YTMDC member) regarding noise generated from WKCD construction site. The complainant has expressed concern about the construction noise before 9am on 18 & 19 August 2021. The complainant understands that the working hours permitted by the government is 7am - 7pm, except public holidays. However, he/she and Mr. Derek Hung would like to seek if the noise disturbance could be reduced before 9am. Video shot was taken by the complainant on 18 & 19 August 2021 to show the evidence of noise generated from WKCD construction site. After carrying out the investigation with the contractors, the noise source before 9am on 18 & 19 August 2021 might be from the site clearance and preparation activities carried out on Zone 2B & 2C site for safe logistic operations on the main haul road. As such, the complaint might be attributable to Zone 2B & 2C site. In response, the Contractor has promptly implemented noise mitigation measures on site to minimize the noise impact on neighbors. On the other hand, although the site clearance and preparation activities on Zone 2B & 2C site in this time interval (before 9am) is in compliance with the local regulation, the Contractor has been recommended to avoid noisy works before 9am as practicable as possible (as expected by the complainant) to prevent disturbance to nearby residents.

The third complaint was referred by EPD on 20 August 2021. EPD has received a complaint regarding dust emission generated from WKCD Zone 2A site. The complainant has expressed concern of construction dust generated by rock breaking work at B1/F of Zone 2A site without proper dust mitigation measures. As a response, dust control measures on B1/F of Zone 2A site have been improved and properly maintained on site. Moreover, existing dust control measures have been properly maintained and will continue to be strictly implemented on site (through trainings to frontline staff, apply water spray on rock breaking works, water spraying at working area to suppress dust, dust monitoring with no exceedance). Nonetheless, the Contractor is recommended to maintain good practice on site, and strengthen the implementation of dust mitigation measures to reduce impacts to the nearby neighbors.

The fourth complaint was received on 27 August 2021. WKCDA has received a complaint from the Office of Mr. Derek Hung (YTMDC member) and WKCDA Enquiry Hotline regarding noise generated from WKCD construction site. The complainant has expressed concern about the pile driving noise on 27 August 2021 at the construction site next to the Lyric Theatre. The complainant claimed that she could hear the noise from 08:00 to 18:00 even when the windows are closed. The complainant would like to enquire when the pile driving works will be completed. After carrying out the investigation with the contractors, the most plausible noise source might be the demolition of ex-MTR storage shed and concrete footing removal for site clearance and preparation on WKCD Zone 2B & 2C site (which is located nearby and close to Lyric Complex site as specified by the complainant). The complaint might be therefore attributable to Zone 2B & 2C site. In response, prompt action has been taken to erect noise barrier on site for these clearance and preparation works. Noise measurement and monitoring were carried out nearby the Harbourside with no exceedance. The Contractors has been recommended to avoid noise activities before 9am, maintain good practice on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby neighbors.

The fifth complaint was referred by EPD on 12 October 2021. Refer to photos provided by the complainant, water discharge was spotted at the waterbody of Victoria Harbour near WKCD construction site on 8 October 2021. Reminder was given by EPD to the main contractors of the WKCD construction sites to take all necessary measures to prevent water discharging from the construction sites into the nearby marine water. After carrying out the investigation with the contractors, on 8 October 2021, existing mitigation measures were properly maintained on both Zone 2A and Zone 2B & 2C sites. However, due to the extreme weather condition on 08 October 2021, it might be possible that rainwater from upper stream of adjacent sites has breached through the sandbags system next to the seafront. The other possible source is the upper stream water from the stormwater outlet near the pier of Tsim Sha Tsui Fire Station at the Victoria Harbor. Thereby, the complaint might be possibly attributable to Zone 2 sites. Subsequently, prompt actions have been taken to improve the seafront site boundary, and avoid surface water leakage from the site during the following typhoon – Kompasu. Nonetheless, the Contractors are recommended to strictly maintain good site practices to avoid surface water flowing into to the waterbody of Victoria Harbour.

The sixth complaint was referred by EPD on 27 October 2021. As shown in the video and photos taken by the complainant around 9pm on 25 October 2021, construction activity was found at WKCD Zone 2A site. The complainant has also expressed concern about the construction noise generated from 9am to 9pm even on Sunday. Investigation result reveal that the noise source might be possibly from the mobile crane and generator operation for pile extraction works in WKCD Zone 2A site. However, the mobile crane and generator have been labelled as QPME by EPD. During the construction works in nighttime (i.e. 19:00 to 21:00) on 25 October 2021, only one single group of PME was used and the work process fully complied with permitted time. In addition, noise mitigation measures have already been implemented and properly maintained on site. No construction work was conducted after permitted time (i.e. 23:00) on 25 October 2021 in WKCD Zone 2A site. On the other hand, no construction work was carried out in nighttime in Zone 2B & 2C site and Sundays in Zone 2A, 2B & 2C site in October 2021. Moreover, noise measurement and monitoring were carried out with no exceedance. Nonetheless, the Contractors are recommended to maintain good practice on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the neighbors.

The cumulative statistics on complaints, notifications of summons and successful prosecutions were provided in **Appendix G**.

6 Comments, Recommendations and Conclusion

6.1 Comments

Based on the observations made during site audits and landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and construction were recorded in the reporting quarter.

6.2 Recommendations

Reviewing the implementation of the recommended mitigation measures in the EM&A Manual, it was observed that they were effective and efficient in controlling the potential impacts due to construction of the project during the reporting period. Review of the effectiveness and efficiency of the EM&A programme will continue, and recommendations will be provided to remediate any potential impacts due to the project and to improve the EM&A programme if deficiencies of the existing EM&A programme are identified.

6.3 Conclusion

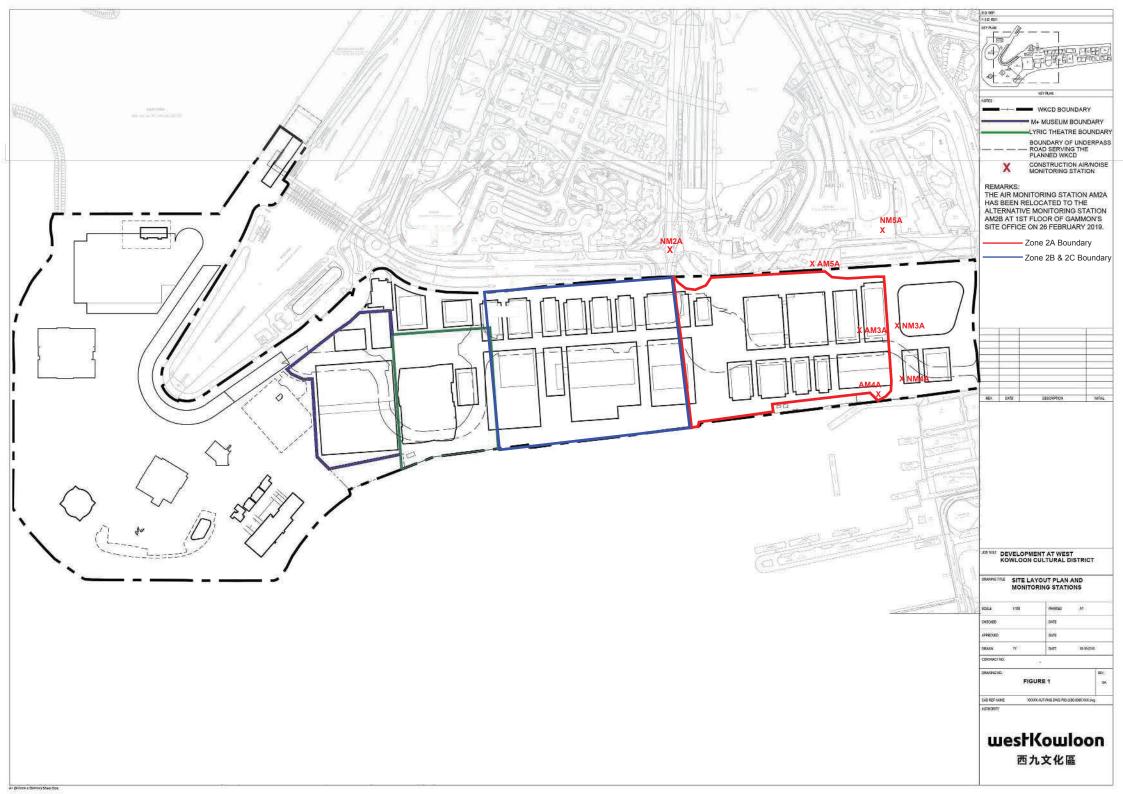
The EM&A programme as recommended in the EM&A Manual has been undertaken since the construction works of Zone 2A and 2B & 2C commenced on 3 October 2020 and 30 September 2021 respectively.

Monitoring of air quality and noise with respect to the Project is underway. In particular, the 1-hour TSP, 24-hour TSP, noise level (as Leq, 30 minutes) under monitoring have been checked against established Action and Limit levels. There was no breach of Action or Limit levels for Air Quality (1-hour TSP and 24-hour TSP) in the reporting quarter. One Action Level exceedance due to one complaint with no Limit Level exceedance of Construction Noise was recorded in the reporting quarter.

Six complaints were received in the reporting quarter. No notifications of summons and successful prosecutions were received during the reporting quarter.

Weekly construction phase site inspections and bi-weekly landscape and visual impact inspections were conducted during the reporting quarter as required. It was observed that the Contractor had implemented all possible and feasible mitigation measures to mitigate the potential environmental impacts during construction phase works.

Figure 1 Site Layout Plan and Monitoring Stations



Appendices

- A. Project Organisation
- B. Construction Programme
- C. Environmental Mitigation Measures Implementation Status
- D. Meteorological Data Extracted from Hong Kong Observatory
- E. Graphical Plots of the Monitoring Results
- F. Waste Flow table
- G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

A. Project Organisation

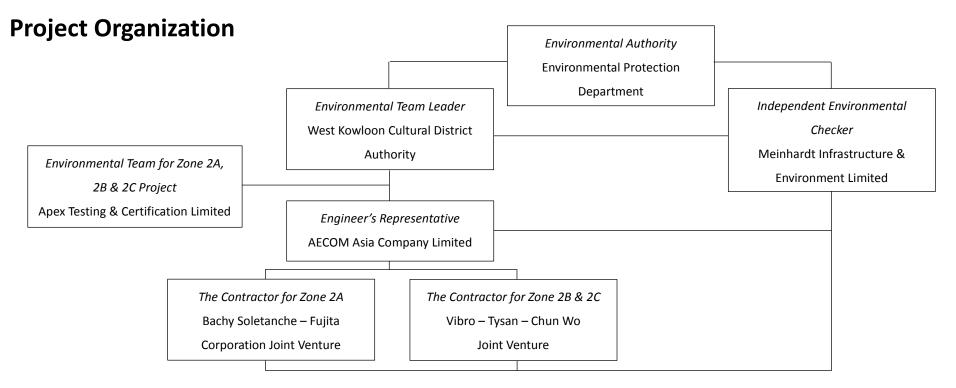
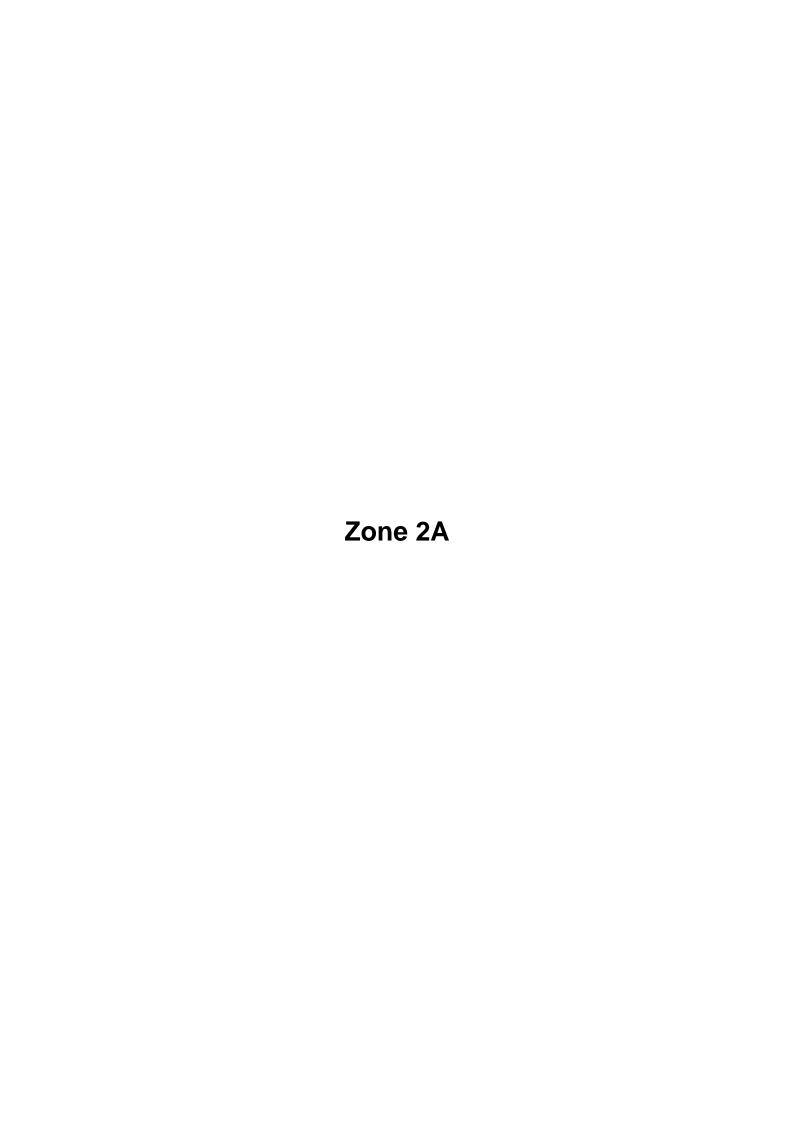


Table A-1: Contract Information

Company Name	Role	Name	Telephone	Email
West Kowloon Cultural District Authority	WKCDA Representative & Project ETL	Mr. C.K. WU	5506 9178	ck.wu@wkcda.hk
Meinhardt Infrastructure & Environment Limited	Independent Environmental Checker	Ms. Claudine LEE	2859 5409	caludinelee@meinhardt.com.hk
AECOM Asia Company Limited	Resident Engineer	Mr. Alex GBAGUIDI	3619 6287	alex.gbaguidi@aecom.com
Bachy Soletanche – Fujita Corporation Joint	Interface & Environmental Manager	Mr. Philip CHAN	9668 8403	philip.chan@soletanche-bachy.com
Venture				
Bachy Soletanche – Fujita Corporation Joint	Environmental Engineer	Mr. William CHAN	54083045	william-hou.chan@soletanche-
Venture				bachy.com
Vibro – Tysan – Chun Wo Joint Venture	Environmental Sustainability Manager	Mr. Tony YAM	2137 5586	tony_yam@vibro.com.hk
Apex Testing & Certification Limited	Contractor's Environmental Team	Mr. Calvin LUI	9629 9718	calvinlui@apextestcert.com
	Leader			

B. Construction Programme



Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

										2021					
Activity Description	Duration	Start Date	Finish Date		•	just			Septe				Octol		
Activity Description	(Cal. Day)	Otart Bate	i iiiisii bate	6 W65	13 W66	20 W67	27 W68	3 W69	10 W70	17 W71		1 N73	8 15 W74 W75		
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)		l	•				1			l			L		
Grouting Works (Trial 1)															
Install Pump Wells	15	26-Jul-21	9-Aug-21												
Pumping Test	10	17-Aug-21	26-Aug-21												
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (11/41 Nos completed)	209	15-May-21	9-Dec-21												
Socketed H-Pile Works															
Remaining Socketed H-Pile Works (22/53 Nos completed)	150	16-Jun-21	12-Nov-21												
Bored Pile Works															
Bored Pile Construction (Total 32 Nos. 2~4 Workfront)															
BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1, BP35J1, BP35K1, BP33D, BP32E, BP34E (27 Nos. Cast; 2 Nos. completed RCD; 0 Nos. RCD in progress)	345	9-Nov-20	19-Oct-21												
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)					•		•			'	•		1	•	
Bored Pile Works															
Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA. BP12K, BP13W, BP12P (11 Nos. Cast; 1 Nos. completed RCD; 1 Nos. RCD in progress)	236	23-Mar-21	13-Nov-21												
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	190	28-Aug-21	5-Mar-22												
Stage 1a & 1b grouting (812/1058 Nos Completed)	477	22-Oct-20	10-Feb-22												
Pipe Pile Construction (279/523 Nos Completed)	462	17-Nov-20	21-Feb-22												

- Actual

- Remaining Works

- Critical Remaining Works

3-Month Rolling Programme

										2021					
Activity Description	Duration	Start Date	Finish Date		Septen				C	Octobe				lovember	r
Activity Description	(Cal. Day)	Otari Bate	I mish bate	3 W69	10 W70		24 W72	1 W73	8 W74	15 w ₇₅	22 W76	29 W77	6 1 W78 W	12 19	
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)				1100	*****		****	••••		1110	****	••••	<u> 11</u>	75 1100	<i>y</i> 11 01
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (11/41 Nos completed)	239	15-May-21	8-Jan-22												
Socketed H-Pile Works															
Remaining Socketed H-Pile Works (25/53 Nos completed)	161	16-Jun-21	23-Nov-21												
Bored Pile Works															
Bored Pile Construction (Total 32 Nos. 2~4 Workfront)															
BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1, BP35J1, BP35K1, BP33D, BP32E, BP34E, BP33E (30 Nos. Cast; 0 Nos. completed RCD; 0 Nos. RCD in progress)	372	9-Nov-20	15-Nov-21												
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)					•	•		•				•	•		
Bored Pile Works															
Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA. BP12K, BP13W, BP12P, BP12JA (13 Nos. Cast; 0 Nos. completed RCD; 1 Nos. RCD in progress)	236	23-Mar-21	10-Dec-21												
ELS (Stage 1) - Grouting / Pipe Pile Works															
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	189	25-Sep-21	1-Apr-22												
Stage 1a & 1b grouting (812/1058 Nos Completed)	504	22-Oct-20	9-Mar-22												
Pipe Pile Construction (313/523 Nos Completed)	488	17-Nov-20	19-Mar-22												

- Actual

- Remaining Works

- Critical Remaining Works

Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

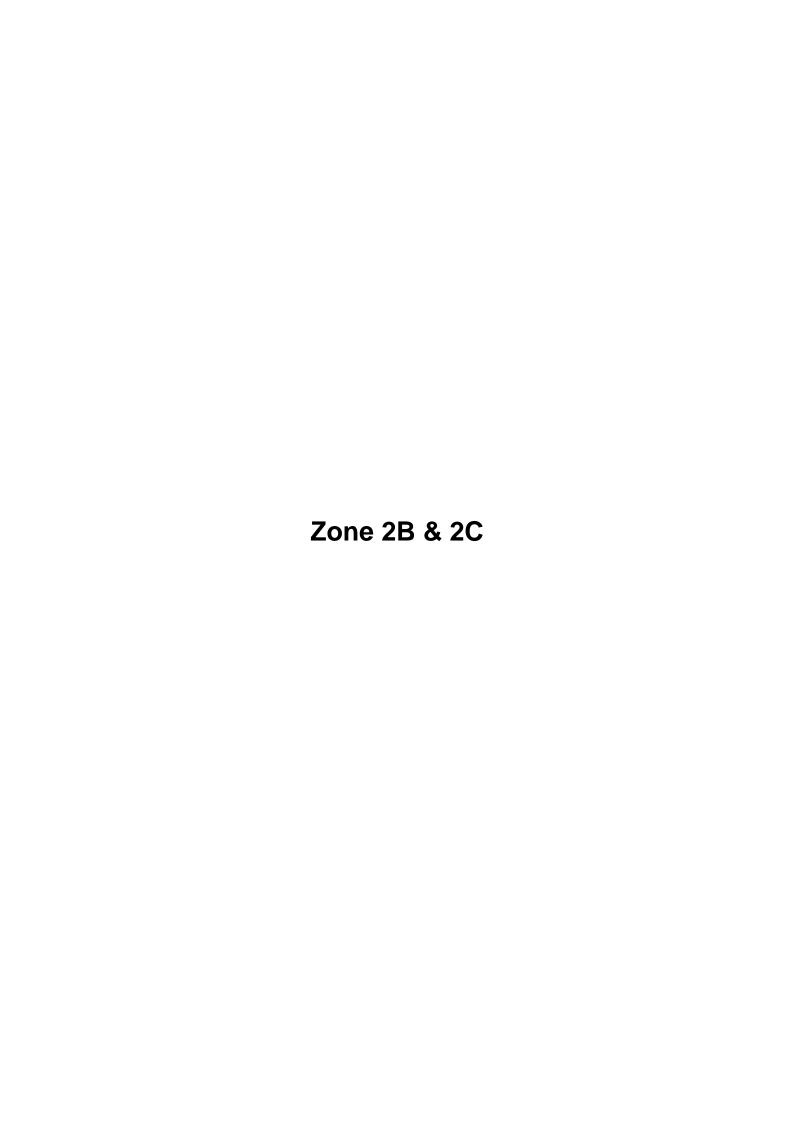
3-Month Rolling Programme

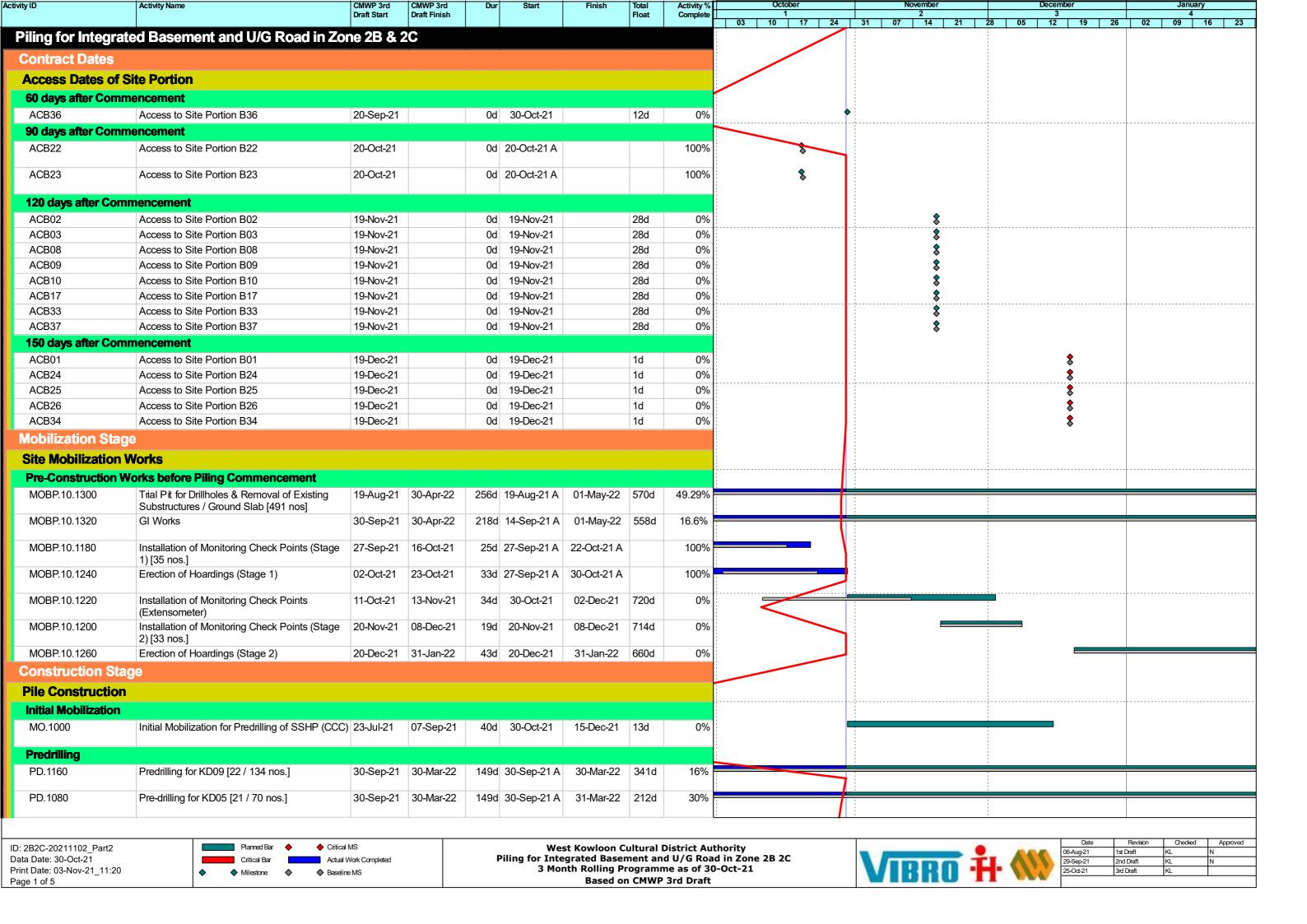
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Activity Description	Duration	Start Date	Finish Date			ctober				Noven				Decen	nber	
Activity Decemption	(Cal. Day)	Otal t Bato	i iiioii Bato	1				29 W77	6		19			10 17 W83 W8		
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)				W/3	W/4	W/5	W/6	W//	WV/0	W/9	VVOU	VVOI	W02	1V63 VV6	4 VVO	5 VVOC
ELS (Stage 1) - Grouting / Pipe Pile Works																
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (11/41 Nos completed)	272	15-May-21	10-Feb-22										4			
Socketed H-Pile Works																
Remaining Socketed H-Pile Works (27/53 Nos completed)	174	16-Jun-21	6-Dec-21													
Bored Pile Works																
Bored Pile Construction (Total 32 Nos. 2~4 Workfront)																
BP31L, BP33L, BP34I1, BP34G, BP31P, BP36F1, BP31R, BP33G, BP31M, BP36E1, BP31Q, BP33J, BP33M, BP32P, BP34F, BP35F1, BP33P, BP34K, BP34P, BP33F, BP35I1, BP34D, BP32D, BP36J1, BP35E1, BP35J1, BP35K1, BP33D, BP32E, BP34E, BP33E, BP35C1 (30 Nos. Cast; 1 Nos. completed RCD; 1 Nos. RCD in progress)	369	9-Nov-20	12-Nov-21													
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)						•		•		•						
Bored Pile Works																
Additional Bored Pile Construction (Total 16 Nos.) BP15Y, BP16TA, BP13U, BP14Y, BP12M, BP12T, BP20XA, BP12Y, BP13Y, BP16WA. BP12K, BP13W, BP12P, BP12JA (14 Nos. Cast; 0 Nos. completed RCD; 0 Nos. RCD in progress)	292	23-Mar-21	18-Jan-22													
ELS (Stage 1) - Grouting / Pipe Pile Works																
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)	207	9-Oct-21	3-May-22													
Stage 1a & 1b grouting (812/1058 Nos Completed)	531	22-Oct-20	5-Apr-22													
Pipe Pile Construction (313/523 Nos Completed)	519	17-Nov-20	19-Apr-22		j			<u> </u>								

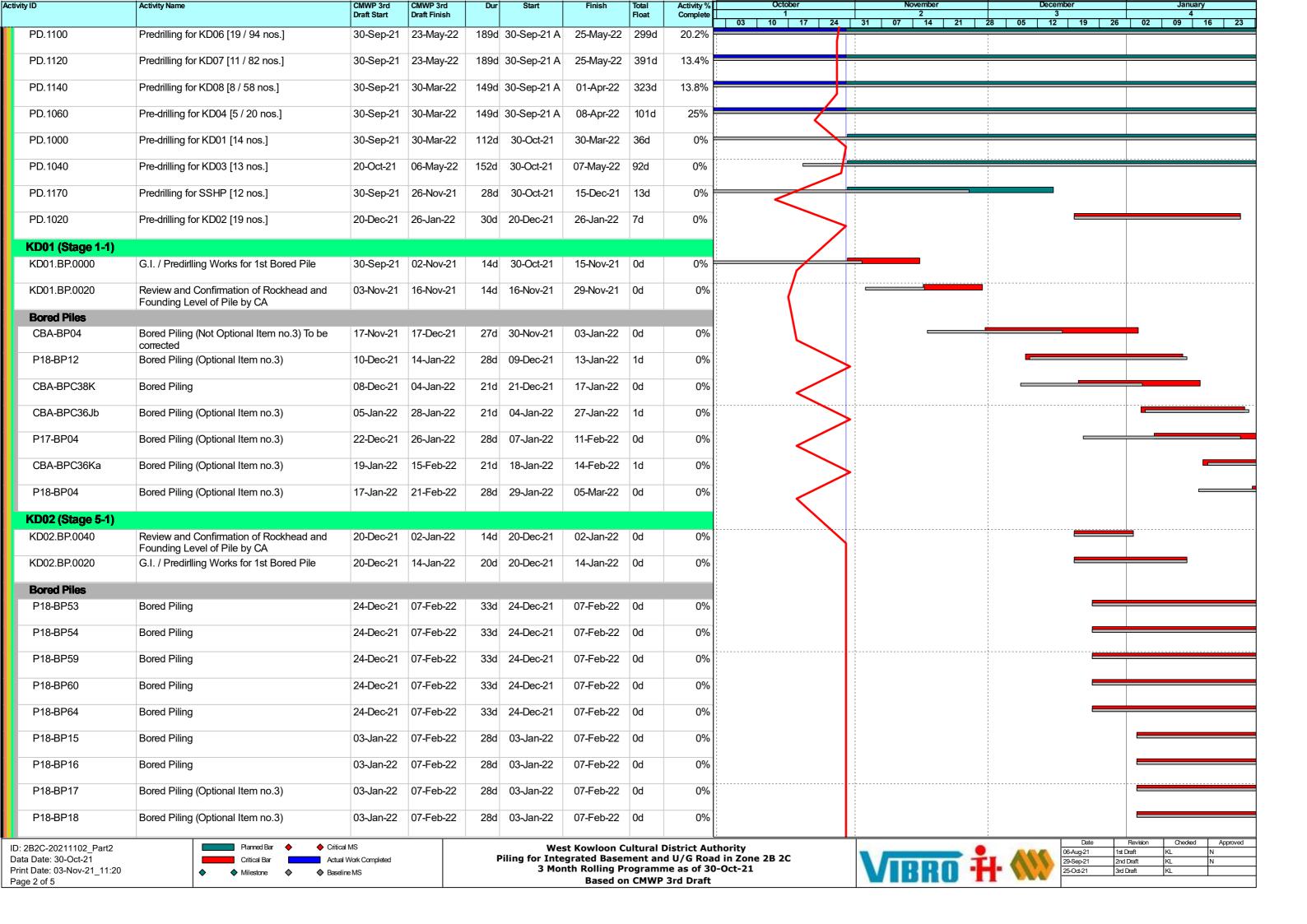
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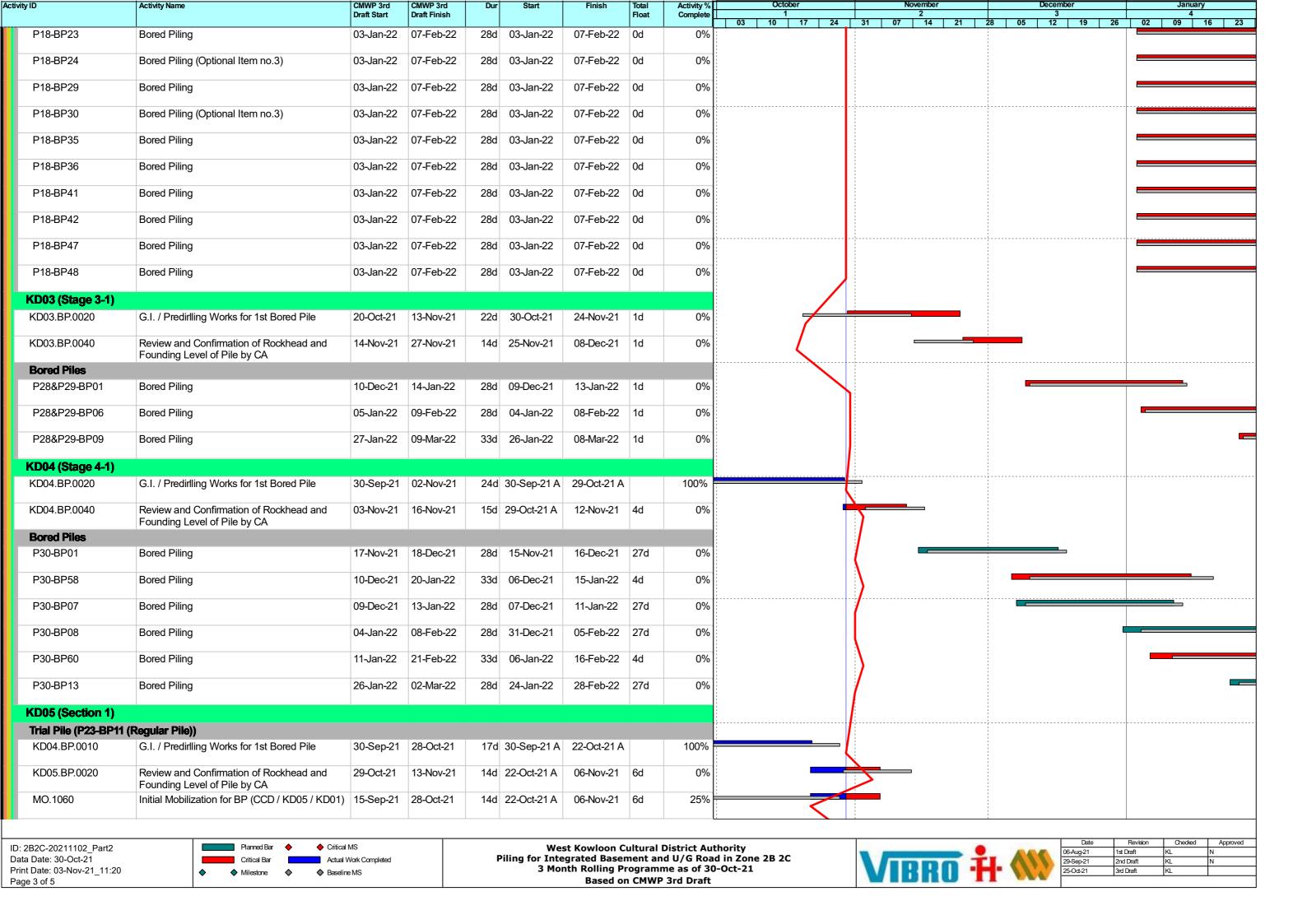
- Remaining Works

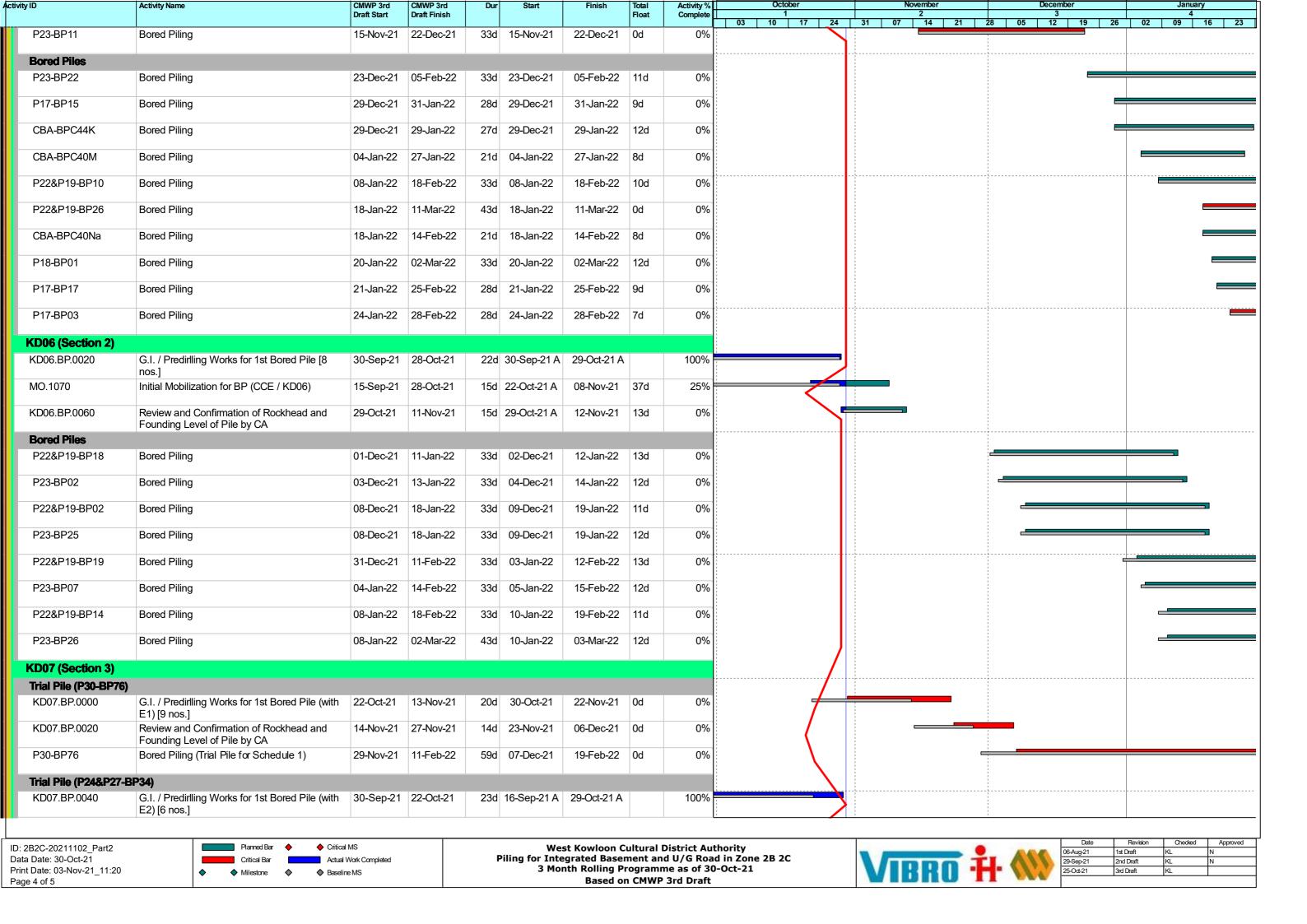
- Critical Remaining Works

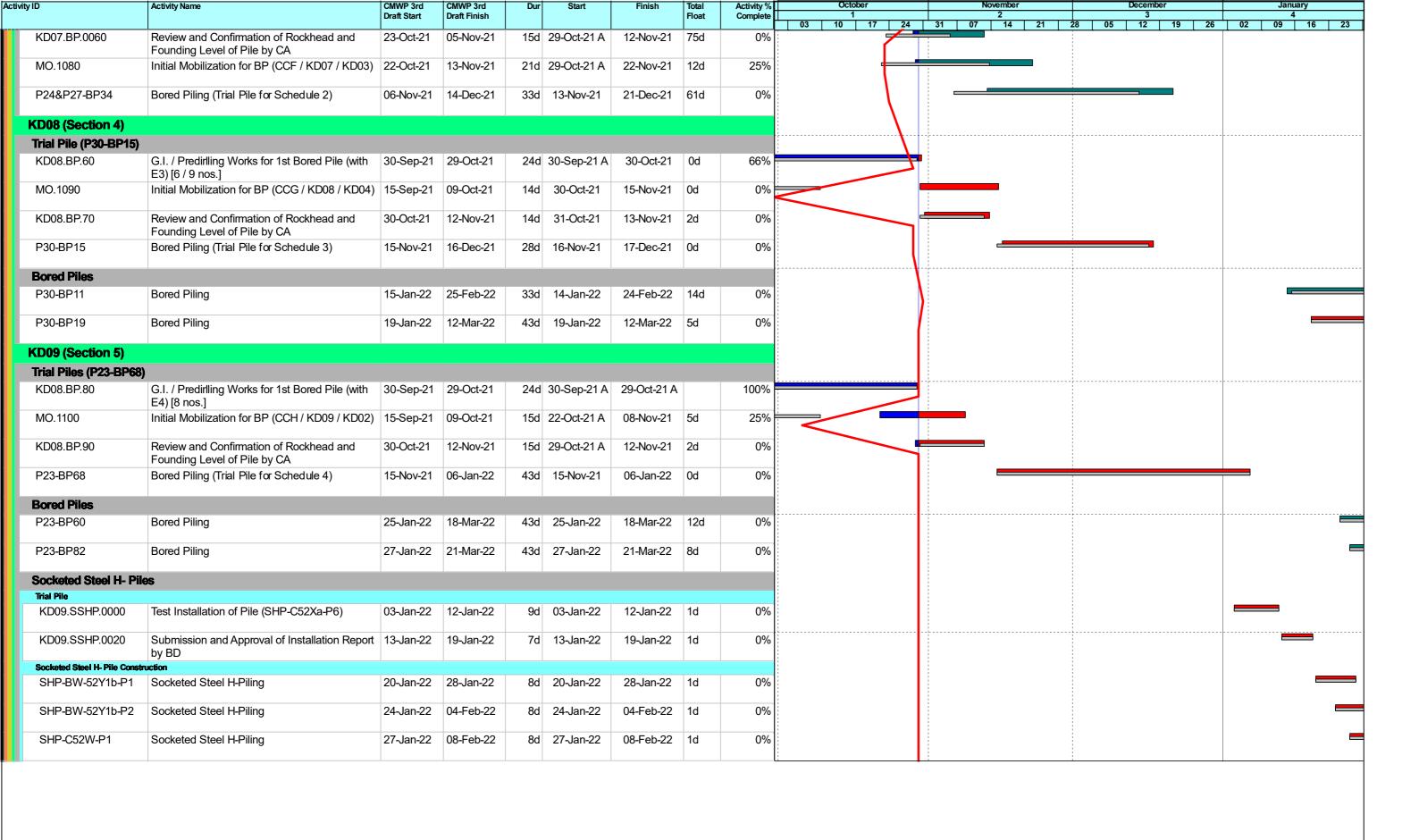






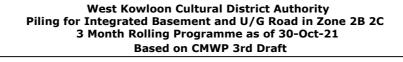






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	Date	Revision	Checked	Approved
ZA.	06-Aug-21	1st Draft	KL	N
	29-Sep-21	2nd Draft	KL	N
37	25-Od-21	3rd Draft	KL	

C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

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			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
Air Qualit	y Impact (Construction)						
2.1	General Dust Control Measures	✓	✓	✓	N/A	✓	✓
	Frequent water spraying for active construction areas (12 times a day or once every						
	one hour), including Heavy construction activities such as construction of buildings						
	or roads, drilling, ground excavation, cut and fill operations (i.e., earth moving)						
2.1	Best Practice For Dust Control						
	The relevant best practices for dust control as stipulated in the Air Pollution Control						
	(construction Dust) Regulation should be adopted to further reduce the						
	construction dust impacts from the Project. These best practices include:						
	Good Site Management	Obs	Obs	Obs	N/A	✓	✓
	 Good site management is important to help reducing potential air quality 						
	impact down to an acceptable level. As a general guide, the Contractor						
	should maintain high standard of housekeeping to prevent emission of						
	fugitive dust. Loading, unloading, handling and storage of raw materials,						
	wastes or by-products should be carried out in a manner so as to minimise						
	the release of visible dust emission. Any piles of materials accumulated on or						
	around the work areas should be cleaned up regularly. Cleaning, repair and						
	maintenance of all plant facilities within the work areas should be carried out						
	in a manner minimising generation of fugitive dust emissions. The material						
	should be handled properly to prevent fugitive dust emission before						
	cleaning.						

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	Disturbed Parts of the Roads	✓	✓	✓	N/A	✓	✓
	 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 						
	 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	✓	Obs	N/A	✓	1
	 Exposed Earth Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	N/A	N/A	N/A	N/A	N/A	N/A
	 Loading, Unloading or Transfer of Dusty Materials All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	✓	N/A	✓	✓
	 Debris Handling Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓	✓	N/A	✓	✓
	 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	N/A	N/A	N/A	N/A	N/A	N/A
	Transport of Dusty Materials	✓	✓	✓	N/A	✓	✓
	 Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 						

Implementation Stage	Imi	olemen	tation	Stage
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			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	Wheel washing	✓	✓	✓	N/A	✓	✓
	 Vehicle wheel washing facilities should be provided at each construction site exit. Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 						
	 Use of vehicles The speed of the trucks within the site should be controlled to about 10km/hour in order to reduce adverse dust impacts and secure the safe movement around the site. 	✓	✓	✓	N/A	✓	✓
	 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	1	✓	N/A	1	✓
	 Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 	✓	✓	✓	N/A	✓	✓
	Site hoarding	✓	✓	✓	N/A	✓	✓
	 Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 						

2.1 Best Practicable Means for Cement Works (Concrete Batching Plant)

The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2(93) should be followed and implemented to further reduce the construction dust impacts of the Project. These best practices include:

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	Exhaust from Dust Arrestment Plant	N/A	N/A	N/A	N/A	N/A	N/A
	 Wherever possible the final discharge point from particulate matter 						
	arrestment plant, where is not necessary to achieve dispersion from residual						
	pollutants, should be at low level to minimise the effect on the local						
	community in the case of abnormal emissions and to facilitate maintenance						
	and inspection						
	Emission Limits	N/A	N/A	N/A	N/A	N/A	N/A
	• All emissions to air, other than steam or water vapour, shall be colourless and						
	free from persistent mist or smoke						
	Engineering Design/Technical Requirements	N/A	N/A	N/A	N/A	N/A	N/A
	 As a general guidance, the loading, unloading, handling and storage of fuel, 						
	raw materials, products, wastes or by-products should be carried out in a						
	manner so as to prevent the release of visible dust and/or other noxious or						
	offensive emissions						
	Non-Road Mobile Machinery (NRMM):	✓	✓	✓	N/A	✓	✓
	All NRMMs operating on-site which are subject to emission control of Air Pollution						
	Control (Non-road Mobile Machinery) (Emission) Regulation are						
	approved/exempted (as the case may be) and affixed with the requisite						
	approval/exemption labels.						
Noise Imp	act (Construction)						
3.1	Good Site Practice						
	 Good site practice and noise management can significantly reduce the 						
	impact of construction site activities on nearby NSRs. The following package						
	of measures should be followed during each phase of construction:						
	 only well-maintained plant to be operated on-site and plant should be 	✓	✓	✓	N/A	✓	✓
	serviced regularly during the construction works;						

			Zone 2A		Zone 2B & 2C					
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct			
Ref.		2021	2021	2021	2021	2021	2021			
	machines and plant that may be in intermittent use to be shut down between work periods or should be throttled down to a minimum	Rem	✓	1	N/A	✓	1			
	 plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; 	✓	✓	✓	N/A	✓	1			
	 mobile plant should be sited as far away from NSRs as possible; and 	✓	✓	✓	N/A	1	✓			
	 material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities. 	✓	✓	✓	N/A	✓	✓			
3.1	Adoption of Quieter PME The recommended quieter PME adopted in the assessment were taken from the EPD's QPME Inventory and "Sound Power Levels of Other Commonly Used PME" are presented in Table 4.26 in the EIA report. It should be noted that the silenced PME selected for assessment can be found in Hong Kong.	✓	1	✓	N/A	✓	✓			
3.1	Use of Movable Noise Barriers Movable noise barriers can be very effective in screening noise from particular items of plant when constructing the Project. Noise barriers located along the active works area close to the noise generating component of a PME could produce at least 10 dB(A) screening for stationary plant and 5 dB(A) for mobile plant provided the direct line of sight between the PME and the NSRs is blocked.	Rem	√	√	N/A	√	√			
3.1	Use of Noise Enclosure/ Acoustic Shed The use of noise enclosure or acoustic shed is to cover stationary PME such as air compressor and concrete pump. With the adoption of the noise enclosure, the PME could be completely screened, and noise reduction of 15 dB(A) can be achieved according to the EIAO Guidance Note No. 9/2010.	✓	✓	✓	N/A	✓	Rem			

Implementation Sta	qe
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			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
3.1	Use of Noise Insulating Fabric	✓	✓	✓	N/A	✓	✓
	Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, pilling						
	machine etc). The fabric should be lapped such that there are no openings or gaps						
	on the joints. According to the approved Tsim Sha Tsui Station Northern Subway						
	EIA report (AEIAR-127/2008), a noise reduction of 10 dB(A) can be achieved for the						
	PME lapped with the noise insulating fabric.						
3.1	Scheduling of Construction Works outside School Examination Periods	✓	✓	✓	N/A	✓	✓
	During construction phase, the contractor should liaise with the educational						
	institutions (including NSRs LCS and CRGPS) to obtain the examination schedule						
	and avoid the noisy construction activities during school examination periods.						
Water Qu	ality Impact (Construction)						
4.1	Construction site runoff and drainage						
	The site practices outlined in ProPECC Note PN 1/94 should be followed as far as						
	practicable in order to minimise surface runoff and the chance of erosion. The						
	following measures are recommended to protect water quality and sensitive uses						
	of the coastal area, and when properly implemented should be sufficient to						
	adequately control site discharges so as to avoid water quality impacts:						
	• At the start of site establishment, perimeter cut-off drains to direct off-site	Obs	✓	✓	N/A	✓	✓
	water around the site should be constructed with internal drainage works						
	and erosion and sedimentation control facilities implemented. Channels,						
	earth bunds or sand bag barriers should be provided on site to direct storm						
	water to silt removal facilities. The design of the temporary on-site drainage						
	system should be undertaken by the WKCDA's Contractor prior to the						
	commencement of construction;						

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	 Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM standards under the WPCO. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the WKCDA's Contractor prior to the commencement of construction. All drainage facilities and erosion and sediment control structures should be 	Obs	√ Rem	Obs	N/A	✓	✓ ✓
	regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.						
	 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities. 	✓	√	✓	N/A	✓	√
	• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exit where practicable. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	✓	✓	Obs	N/A	√	√

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	 Open stockpiles of construction materials or construction wastes onsite should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. 	Obs	Obs	Obs	N/A	1	1
	 Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and stormwater runoff being directed into foul sewers. 	✓	√	1	N/A	1	1
	 Precautions should be taken at any time of the year when rainstorms are likely. Actions should be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC Note PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. 	Obs	Obs	Obs	N/A	1	Rem
	 Bentonite slurries used in piling or slurry walling should be reconditioned and reused wherever practicable. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 	N/A	N/A	N/A	N/A	N/A	N/A
4.1	Barging facilities and activities						
	Recommendations for good site practices during operation of the proposed barging point include:						
	 All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 	N/A	N/A	N/A	N/A	N/A	N/A

		Zone 2A			Zone 2B & 2C			
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct	
Ref.		2021	2021	2021	2021	2021	2021	
	 Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; 	N/A	N/A	N/A	N/A	N/A	N/A	
	 All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 	N/A	N/A	N/A	N/A	N/A	N/A	
	 Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site. 	N/A	N/A	N/A	N/A	N/A	N/A	
4.1	Sewage effluent from construction workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	√	/	√	N/A	√	✓	
4.1	 General construction activities Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used. 	Obs	Obs	Obs	N/A	√	√	
	 Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 	√	Obs	Obs	N/A	1	✓	

		Zone 2A			Zone 2B & 2C			
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct	
Ref.		2021	2021	2021	2021	2021	2021	
6.1	Good Site Practices							
	 Recommendations for good site practices during the construction activities include: 							
	 Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site 	✓	✓	✓	N/A	✓	✓	
	 Training of site personnel in proper waste management and chemical handling procedures 	✓	✓	✓	N/A	✓	✓	
	Provision of sufficient waste disposal points and regular collection of waste	✓	✓	✓	N/A	✓	✓	
	 Appropriate measures to minimise windblown litter and dust/odour during transportation of waste by either covering trucks or by transporting wastes in enclosed containers 	✓	✓	✓	N/A	1	✓	
	 Provision of wheel washing facilities before the trucks leaving the works area so as to minimise dust introduction to public roads 	✓	✓	✓	N/A	✓	✓	
	 Well planned delivery programme for offsite disposal such that adverse environmental impact from transporting the inert or non-inert C&D materials is not anticipated 	✓	✓	✓	N/A	✓	✓	
5.1	Waste Reduction Measures							
	Recommendations to achieve waste reduction include:							
	 Sort inert C&D material to recover any recyclable portions such as metals 	✓	✓	✓	N/A	✓	✓	
	 Segregation and storage of different types of waste in different containers or skips to enhance reuse or recycling of materials and their proper disposal 	✓	✓	✓	N/A	✓	✓	
	 Encourage collection of recyclable waste such as waste paper and aluminium cans by providing separate labelled bins to enable such waste to be segregated from other general refuse generated by the work force 	✓	✓	✓	N/A	✓	✓	

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	 Proper site practices to minimise the potential for damage or contamination of inert C&D materials 	1	✓	✓	N/A	✓	✓
	 Plan the use of construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of wastes 	✓	✓	✓	N/A	✓	✓
6.1	Inert and Non-inert C&D Materials In order to minimise impacts resulting from collection and transportation of inert C&D material for off-site disposal, the excavated materials should be reused on-site as fill material as far as practicable. In addition, inert C&D material generated from excavation works could be reused as fill materials in local projects that require public fill for reclamation.						
	 The surplus inert C&D material will be disposed of at the Government's PFRFs for beneficial use by other projects in Hong Kong. 	✓	✓	✓	N/A	✓	✓
	 Liaison with the CEDD Public Fill Committee (PFC) on the allocation of space for disposal of the inert C&D materials at PFRF is underway. No construction work is allowed to proceed until all issues on management of inert C&D materials have been resolved and all relevant arrangements have been endorsed by the relevant authorities including PFC and EPD. 	✓	/	✓	N/A	1	1
	 The C&D materials generated from general site clearance should be sorted on site to segregate any inert materials for reuse or disposal of at PFRFs whereas the non-inert materials will be disposed of at the designated landfill site. 	✓	1	1	N/A	1	1

Implementation Stage	Imi	olemen	tation	Stage
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			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	In order to monitor the disposal of inert and non-inert C&D materials at	✓	✓	✓	N/A	✓	1
	respectively PFRFs and the designated landfill site, and to control fly-tipping,						
	it is recommended that the Contractor should follow the Technical Circular						
	(Works) No. 6/2010 for Trip Ticket System for Disposal of Construction &						
	Demolition Materials issued by Development Bureau. In addition, it is also						
	recommended that the Contractor should prepare and implement a Waste						
	Management Plan detailing their various waste arising and waste						
	management practices in accordance with the relevant requirements of the						
	Technical Circular (Works) No. 19/2005 Environmental Management on						
	Construction Site.						
5.1	Chemical Waste						
	If chemical wastes are produced at the construction site, the Contractor will	✓	✓	✓	N/A	N/A	✓
	be required to register with the EPD as a chemical waste producer and to						
	follow the guidelines stated in the "Code of Practice on the Packaging						
	Labelling and Storage of Chemical Wastes". Good quality containers						
	compatible with the chemical wastes should be used, and incompatible						
	chemicals should be stored separately. Appropriate labels should be securely						
	attached on each chemical waste container indicating the corresponding						
	chemical characteristics of the chemical waste, such as explosive, flammable,						
	oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor should use a						
	licensed collector to transport and dispose of the chemical wastes at the						
	approved Chemical Waste Treatment Centre or other licensed recycling						
	facilities, in accordance with the Waste Disposal (Chemical Waste) (General)						

Regulation.

			Zone 2A		1	Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
	 Potential environmental impacts arising from the handling activities (including storage, collection, transportation and disposal of chemical waste) are expected to be minimal with the implementation of appropriate 	✓	✓	✓	N/A	N/A	✓
	mitigation measures as recommended.						
6.1	General Refuse General refuse should be stored in enclosed bins or compaction units separated from inert C&D materials. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from inert C&D materials. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	•	V	V	N/A	√	,
Land Cont	tamination (Construction)						
7.1	The potential for land contamination issues at the TST Fire Station due to its future relocation will be confirmed by site investigation after land acquisition. Where necessary, mitigation measures for minimising potential exposure to contaminated materials (if any) or remediation measures will be identified. If contaminated land is identified (e.g., during decommissioning of fuel oil storage tanks) after the commencement of works, mitigation measures are proposed in order to minimise the potentially adverse effects on the health and safety of construction workers and impacts arising from the disposal of potentially contaminated materials. The following measures are proposed for excavation and transportation of contaminated material:						
	 To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 	N/A	N/A	N/A	N/A	N/A	N/A

Implementation Stage

			Zone 2A			Zone 2B & 20	•
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
•	Contact with contaminated materials can be minimised by wearing	N/A	N/A	N/A	N/A	N/A	N/A
	appropriate clothing and personal protective equipment such as gloves and						
	masks (especially when interacting directly with contaminated material),						
	provision of washing facilities and prohibition of smoking and eating on site;						
•	Stockpiling of contaminated excavated materials on site should be avoided as far as possible;	N/A	N/A	N/A	N/A	N/A	N/A
•	 The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; 	N/A	N/A	N/A	N/A	N/A	N/A
•	 Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; 	N/A	N/A	N/A	N/A	N/A	N/A
•	Truck bodies and tailgates should be sealed to stop any discharge;	N/A	N/A	N/A	N/A	N/A	N/A
•	Only licensed waste haulers should be used to collect and transport	N/A	N/A	N/A	N/A	N/A	N/A
	contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping;						
•	 Speed control for trucks carrying contaminated materials should be exercised; 	N/A	N/A	N/A	N/A	N/A	N/A
•	Observe all relevant regulations in relation to waste handling, such as Waste	N/A	N/A	N/A	N/A	N/A	N/A
	Disposal Ordinance (Cap. 354), Waste Disposal (Chemical Waste) (General)						
	Regulation (Cap. 354) and obtain all necessary permits where required; and						
•	 Maintain records of waste generation and disposal quantities and disposal 	N/A	N/A	N/A	N/A	N/A	N/A
	arrangements.						
ological In	npact (Construction)						
ı	No mitigation measure is required.						
ndscape a	nd Visual Impact (Construction)						

			Zone 2A			Zone 2B & 20	
EM&A	Recommendation Measures	Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
able 9.1	Trees should be retained in situ on site as far as possible. Should tree removal be	✓	✓	✓	N/A	✓	✓
CM1)	unavoidable due to construction impacts, trees will be transplanted or felled with						
	reference to the stated criteria in the Tree Removal Applications to be submitted to						
	relevant government departments for approval in accordance to ETWB TCW No.						
	29/2004 and 3/2006.						
able 9.1	Compensatory tree planting shall be incorporated to the proposed project and	N/A	N/A	N/A	N/A	N/A	N/A
CM2)	maximize the new tree, shrubs and other vegetation planting to compensate tree						
	felled and vegetation removed. Also, implementation of compensatory planting						
	should be of a ratio not less than 1:1 in terms of quality and quantity within the						
	site.						
able 9.1	Buffer trees for screening purposes to soften the hard architectural and	N/A	N/A	N/A	N/A	N/A	N/A
CM3)	engineering structures and facilities.						
able 9.1	Softscape treatments such as vertical green wall panel /planting of climbing and/or	N/A	N/A	N/A	N/A	N/A	N/A
CM4)	weeping plants, etc, to maximize the green coverage and soften the hard						
	architectural and engineering structures and facilities.						
able 9.1	Roof greening by means of intensive and extensive green roof to maximize the	N/A	N/A	N/A	N/A	N/A	N/A
CM5)	green coverage and improve aesthetic appeal and visual quality of the						
	building/structure.						
able 9.1	Sensitive streetscape design should be incorporated along all new roads and	N/A	N/A	N/A	N/A	N/A	N/A
CM6)	streets.						
able 9.1	Structure, ornamental planting shall be provided along amenity strips to enhance	N/A	N/A	N/A	N/A	N/A	N/A
CM7)	the landscape quality.						
able 9.1	Landscape design shall be incorporated to architectural and engineering structures	N/A	N/A	N/A	N/A	N/A	N/A
CM8)	in order to provide aesthetically pleasing designs.						
able 9.1	Minimize the structure of marine facilities to be built on the seabed and foreshore	N/A	N/A	N/A	N/A	N/A	N/A
CM9)	in order to minimize the affected extent to the waterbody						

EM&A	Recommendation Measures	Zone 2A			Zone 2B & 2C		
		Aug	Sep	Oct	Aug	Sep	Oct
Ref.		2021	2021	2021	2021	2021	2021
Table 9.2 (MCP1)	Use of decorative screen hoarding/boards	1	✓	✓	N/A	✓	✓
Table 9.2 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A	N/A	N/A	N/A
Table 9.2 (MCP3)	Adoption of light colour for the temporary ventilation shafts for the basement during the transition period.	N/A	N/A	N/A	N/A	N/A	N/A
Table 9.2 (MCP4)	Control of night time lighting	1	✓	✓	N/A	✓	1
Table 9.2 (MCP5)	Use of greenery such as grass cover for the temporary open areas will help achieve the visual balance and soften the hard edges of the structures.	N/A	N/A	N/A	N/A	N/A	N/A

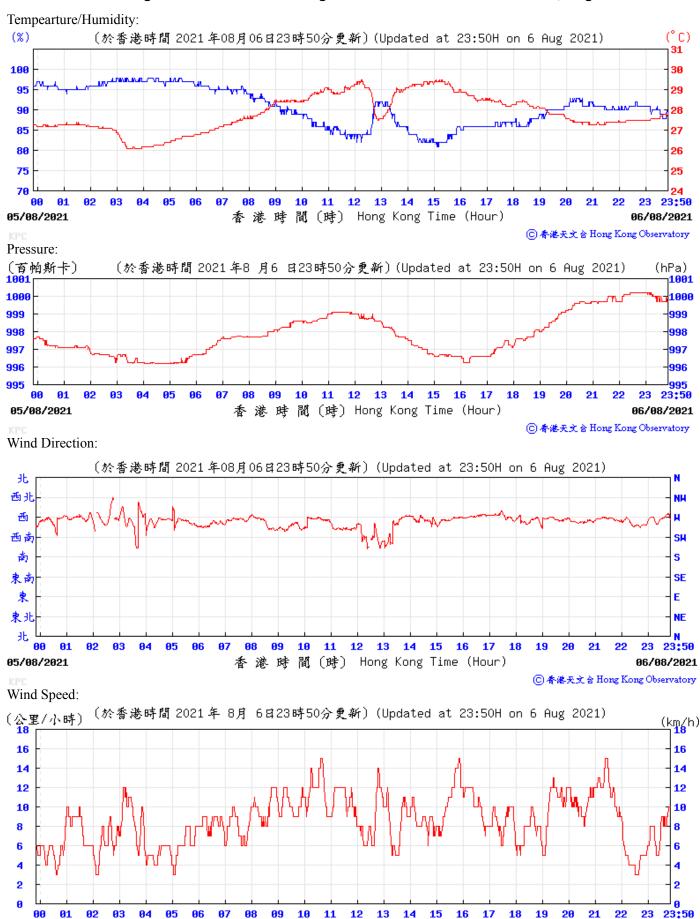
N/A - Not Applicable

✓ - Implemented

Obs - Observed

Rem - Reminder

D. Meteorological Data Extracted from Hong Kong Observatory



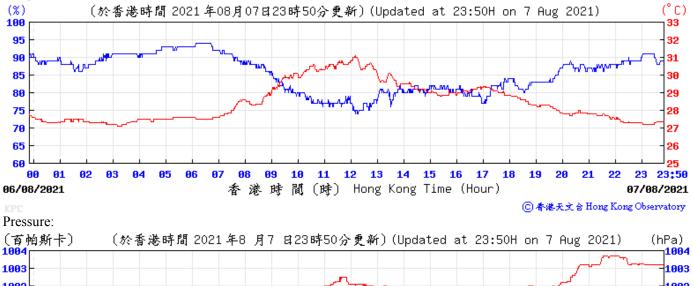
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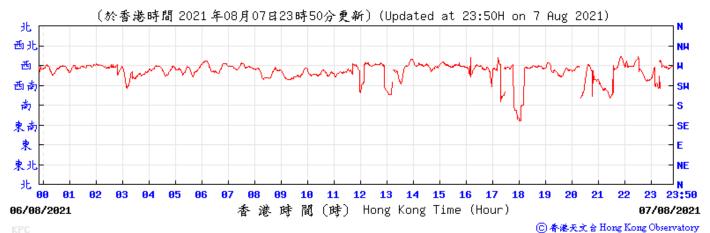


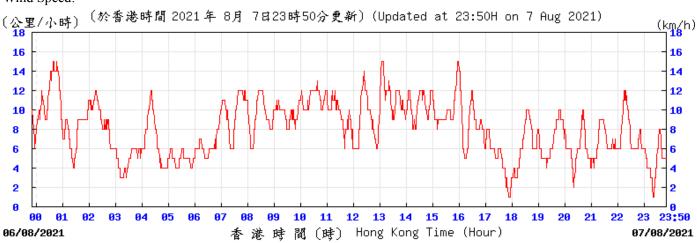
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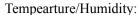
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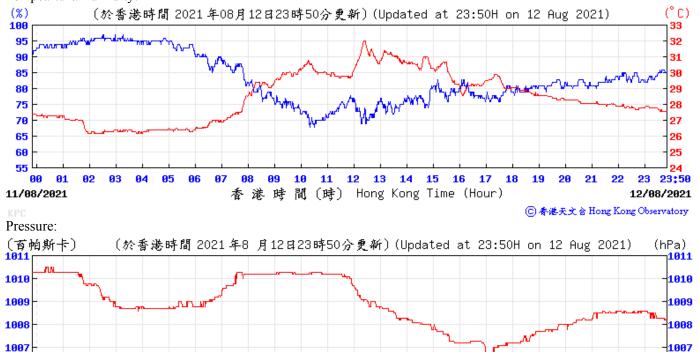
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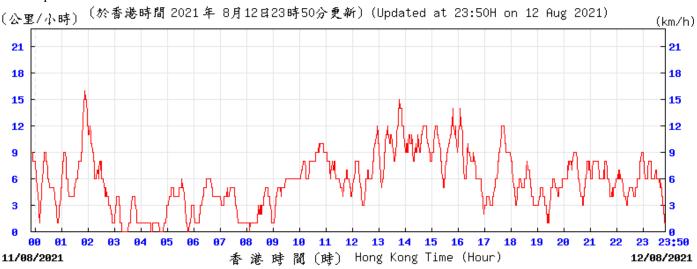
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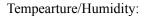


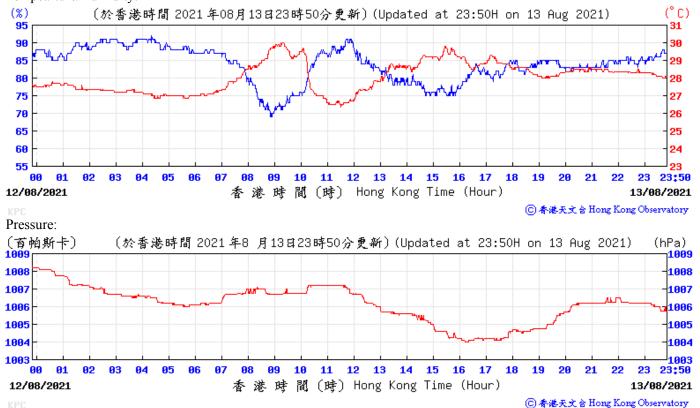
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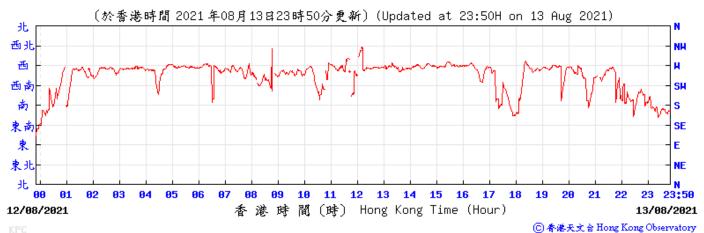
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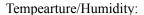
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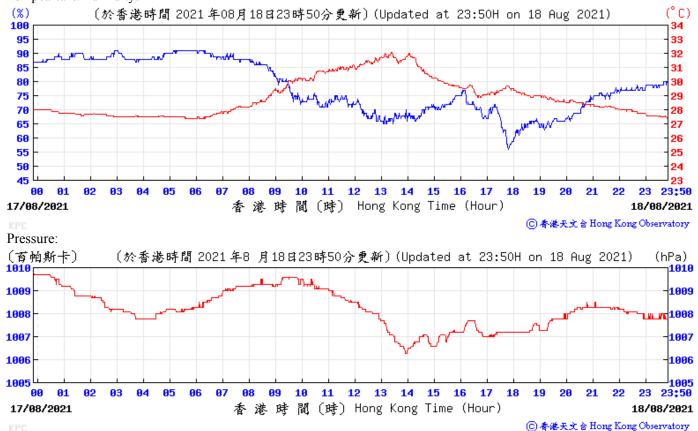


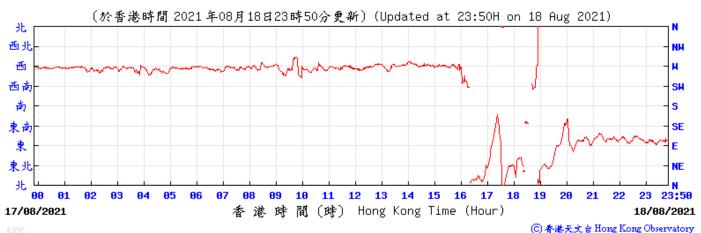


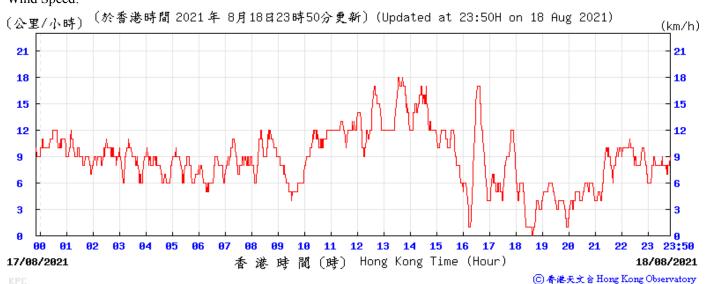


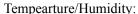






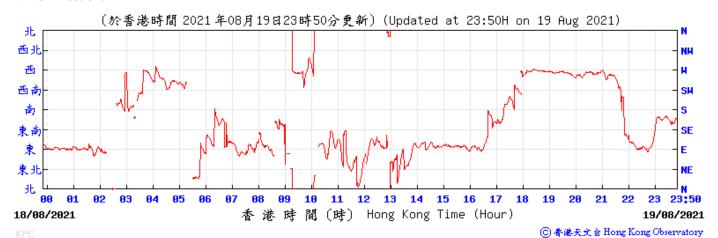


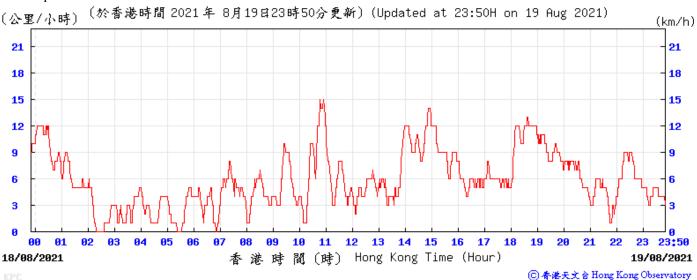


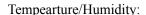


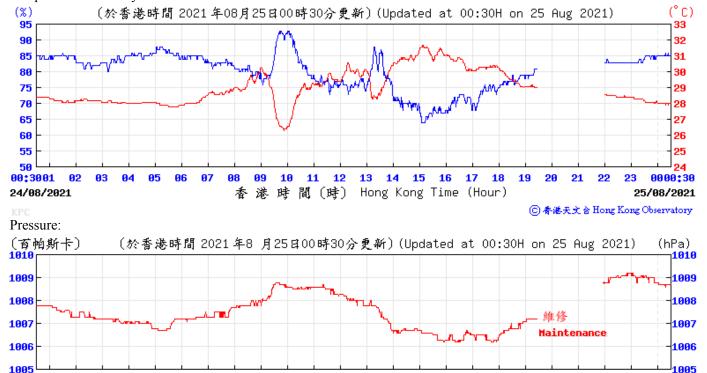












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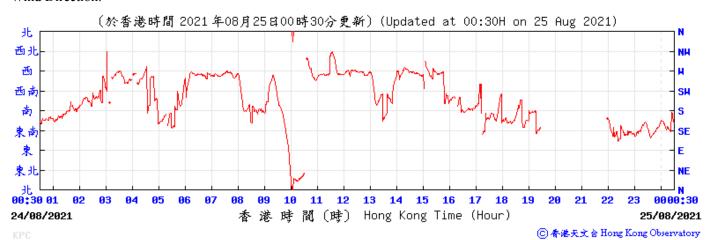
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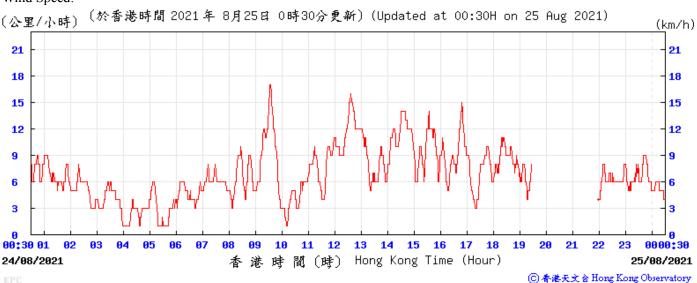
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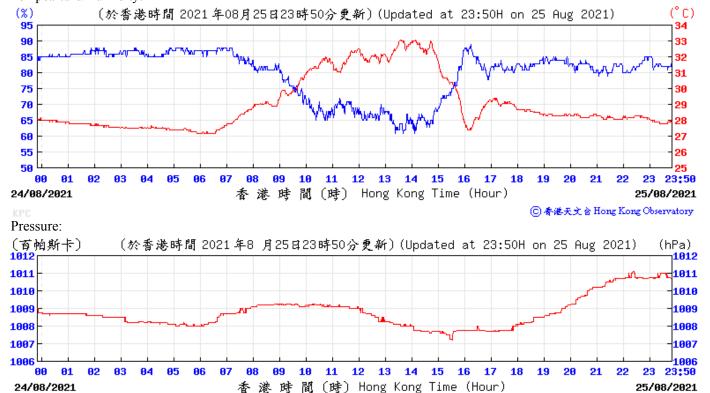
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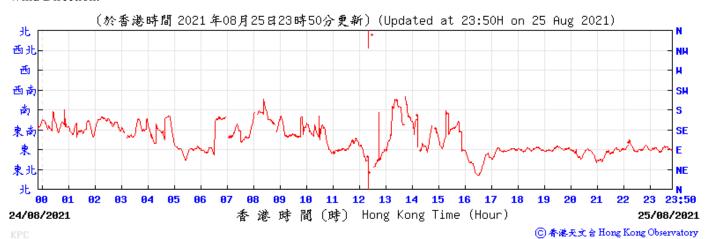
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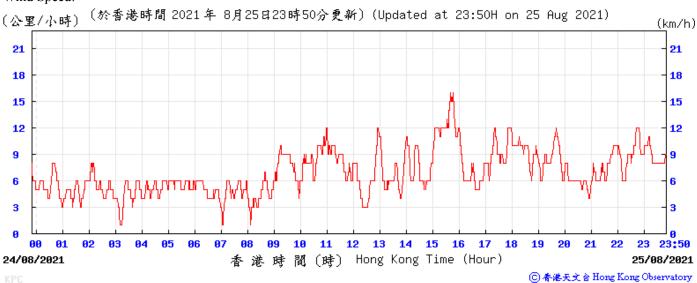


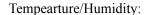


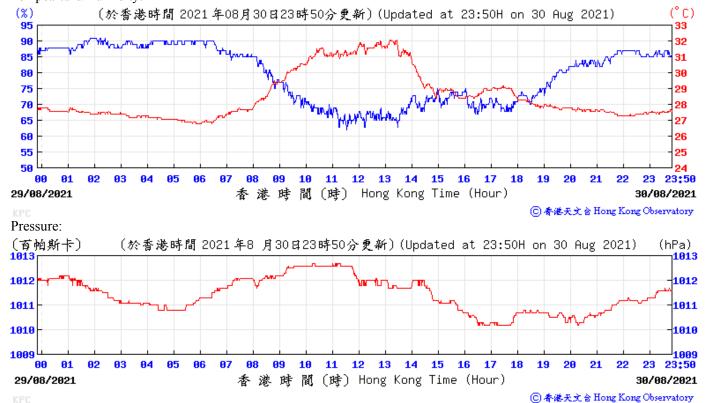


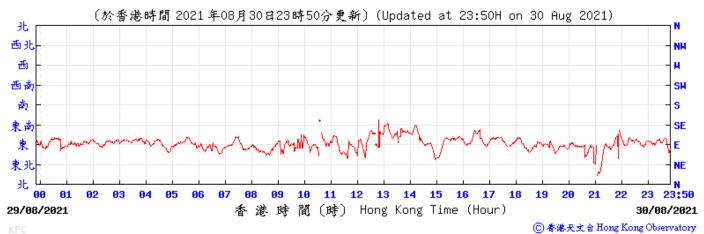


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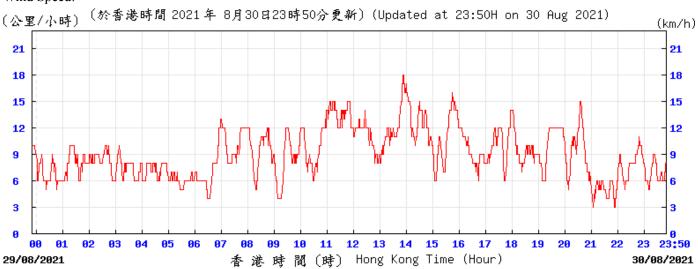




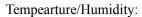


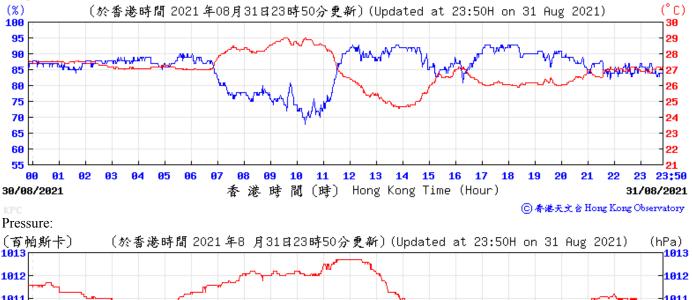


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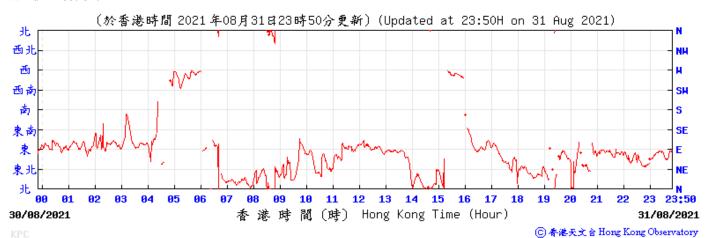
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(百帕斯卡) 1012 1011 1011 1010 1010 1009 1009 1008 1998 **96** 10 11 12 13 14 15 16 17 18 23:50 00 30/08/2021 港時間(時) Hong Kong Time (Hour) 31/08/2021 ⑥ 香港天文 含 Hong Kong Observatory

Wind Direction:





Tempearture/Humidity: (°C) (%) (於香港時間 2021年09月04日23時50分更新)(Updated at 23:50H on 4 Sep 2021) 23:50 3 5 Hong Kong Time (Hour) 03/09/2021 間 (時) 04/09/2021 港 琏 ⑥春港天文含 Hong Kong Observatory Pressure: (百帕斯卡) (於香港時間 2021 年9 月4 日23時50分更新)(Updated at 23:50H on 4 Sep 2021) (hPa) 5 14 15 16 17 23:50 03/09/2021 港時間(時) Hong Kong Time (Hour) 04/09/2021 ⑥ 香港天文 含 Hong Kong Observatory Wind Direction: (於香港時間 2021 年09月04日23時50分更新)(Updated at 23:50H on 4 Sep 2021) 北 西北 NH 西 西南 SH 南 S SE 東 NE 東チ --N 23:50 3 5 9 03/09/2021 香港時間(時) Hong Kong Time (Hour) 04/09/2021 ⑥ 香港天文台 Hong Kong Observatory Wind Speed: 〔於香港時間 2021 年 9月 4日23時50分更新〕(Updated at 23:50H on 4 Sep 2021) (公里/小時) ĸ

香港時間(時)

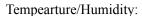
 Hong Kong Time (Hour)

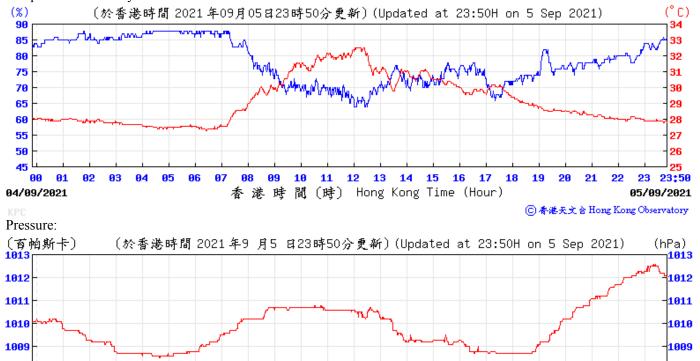
03/09/2021

 23:50

04/09/2021

◎ 香港天文台 Hong Kong Observatory



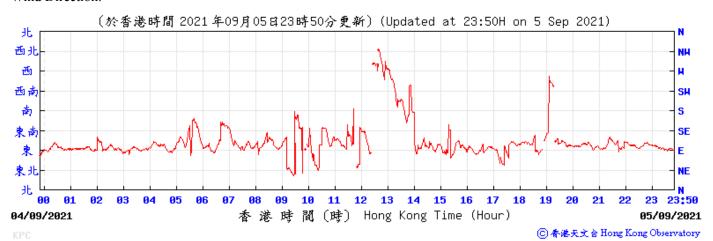


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港時間(時) Hong Kong Time (Hour)

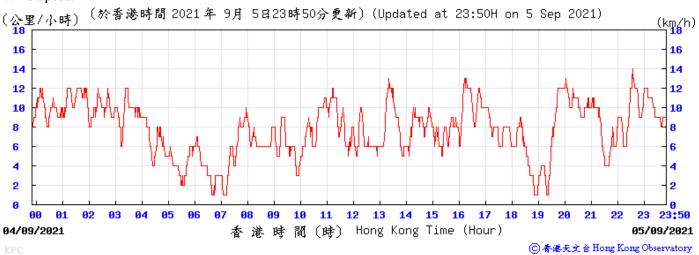
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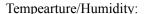
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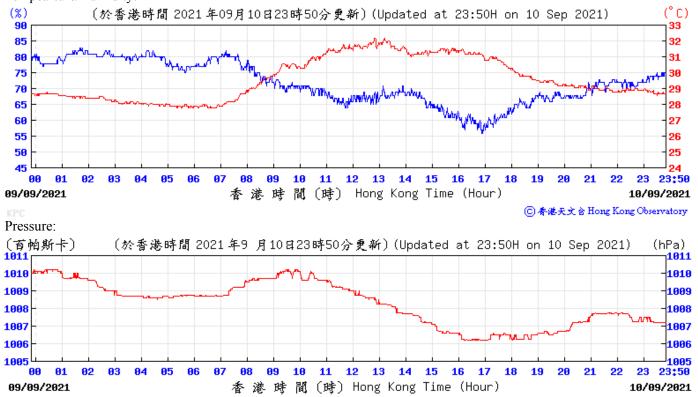
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05/09/2021

⑥ 香港天文 含 Hong Kong Observatory

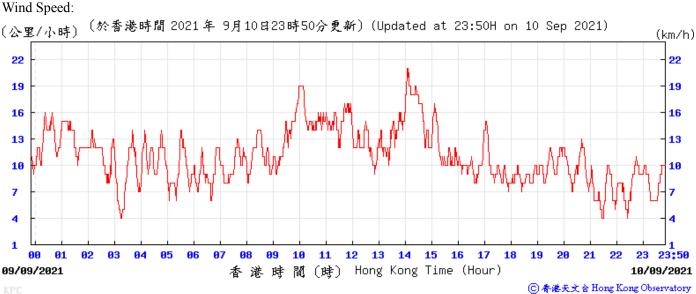


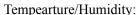


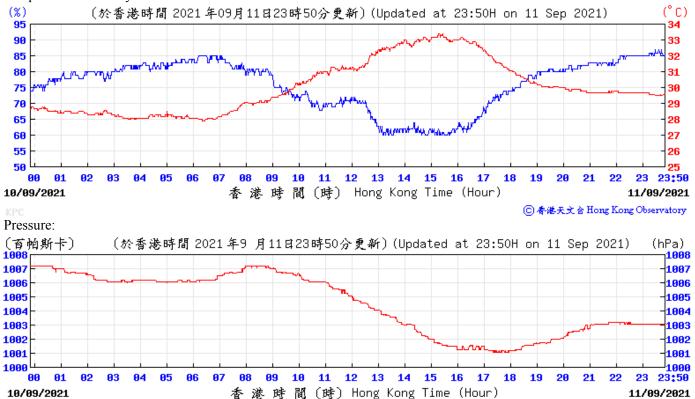


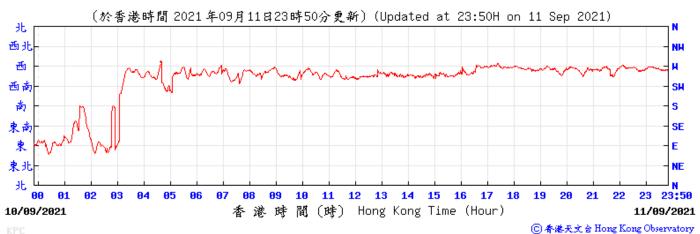


⑥春港天文台 Hong Kong Observatory

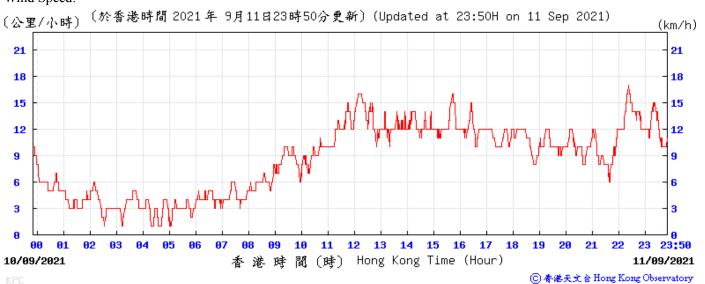




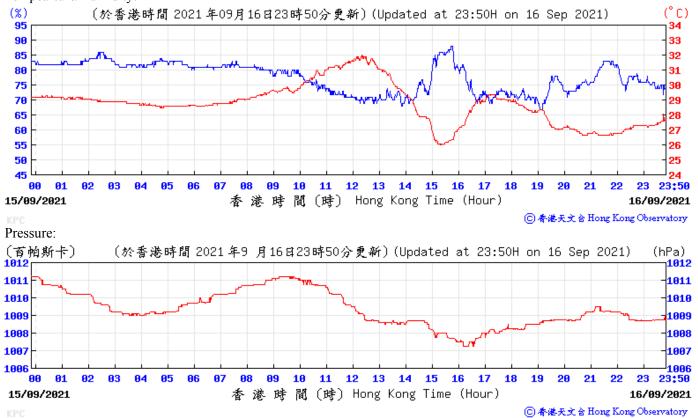


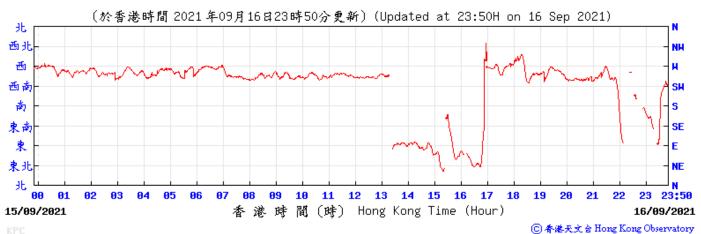


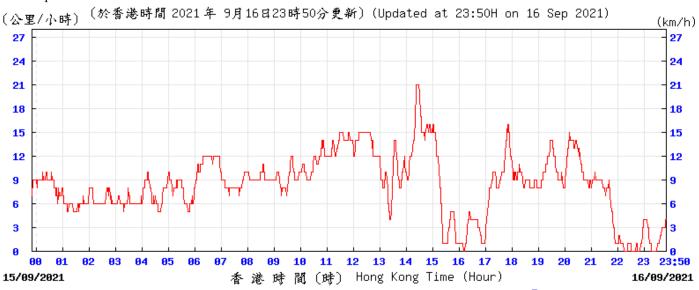
⑥ 香港天文 à Hong Kong Observatory



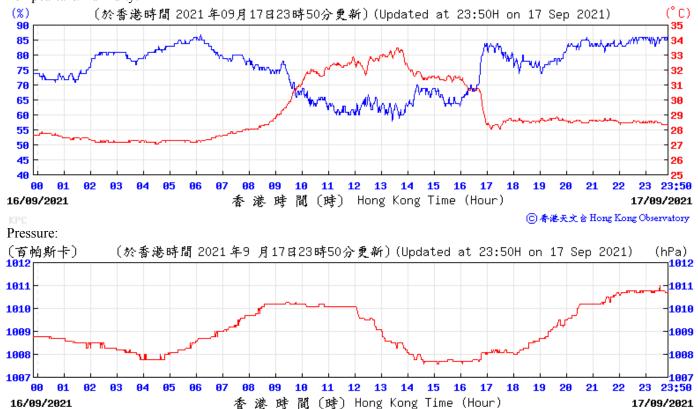


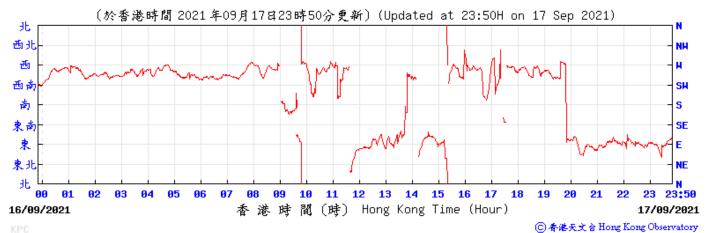




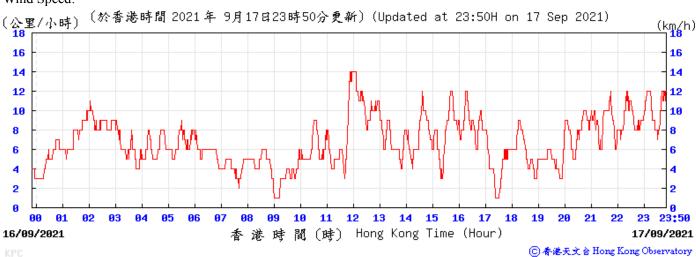


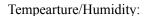


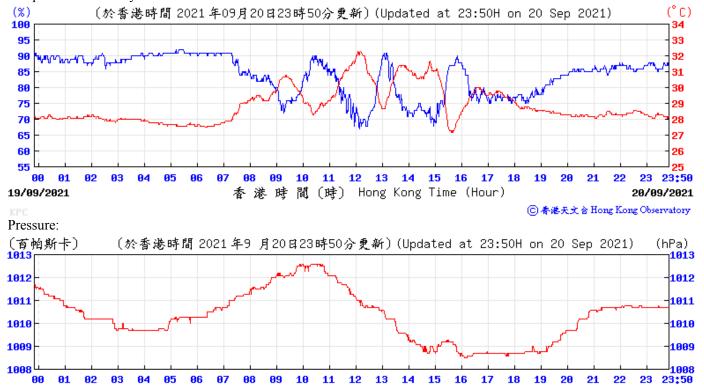




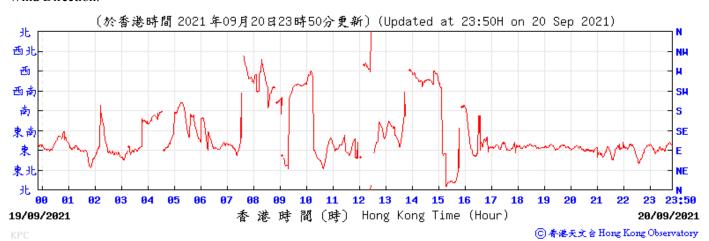
⑥ 香港天文含 Hong Kong Observatory







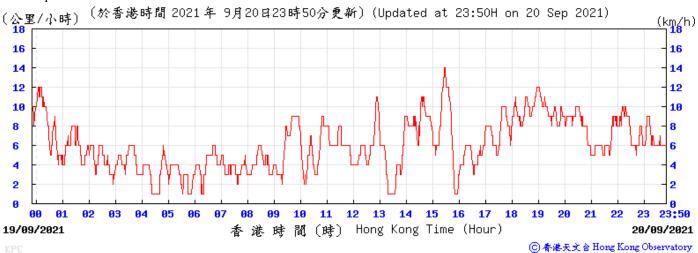
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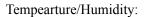


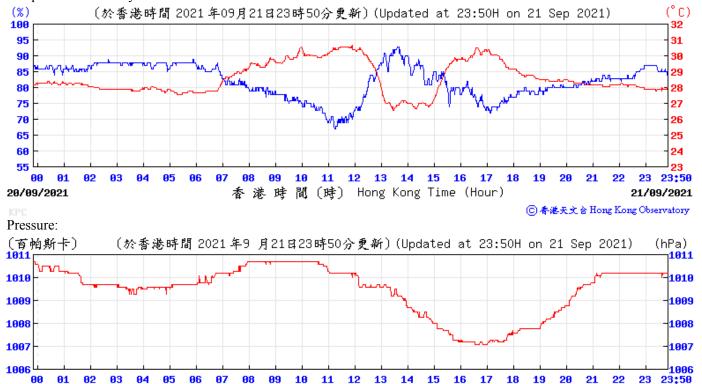
港時間(時) Hong Kong Time (Hour)

20/09/2021

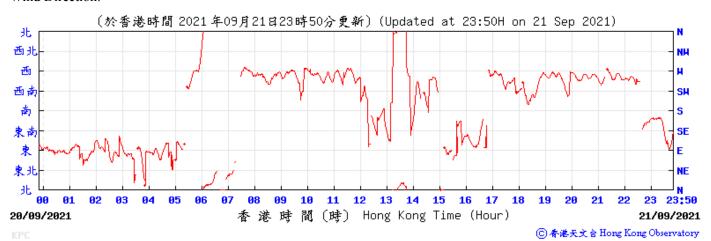
⑥ 香港天文 含 Hong Kong Observatory







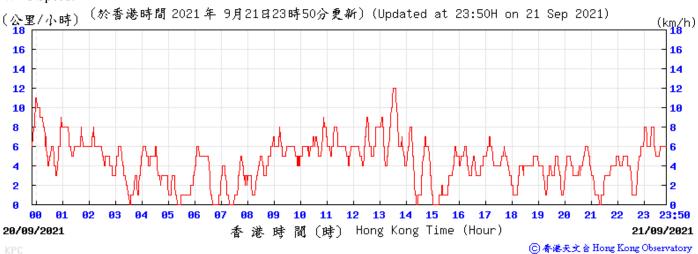
20/09/2021

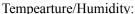


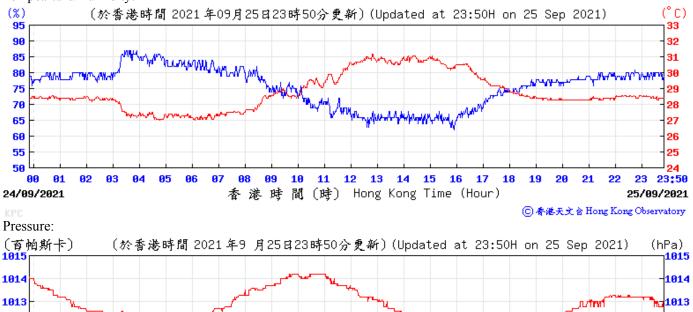
港時間(時) Hong Kong Time (Hour)

21/09/2021

⑥ 香港天文 含 Hong Kong Observatory







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⑥ 香港天文 含 Hong Kong Observatory

Wind Direction:

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24/09/2021



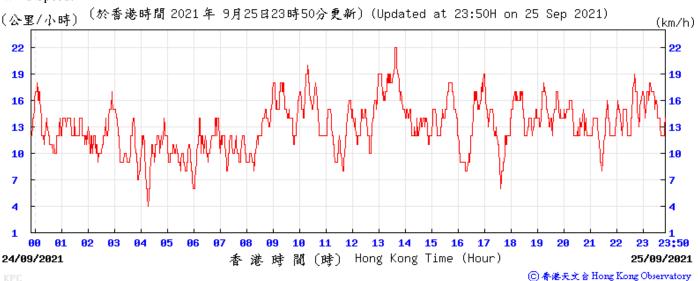
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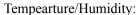
港時間(時) Hong Kong Time (Hour)

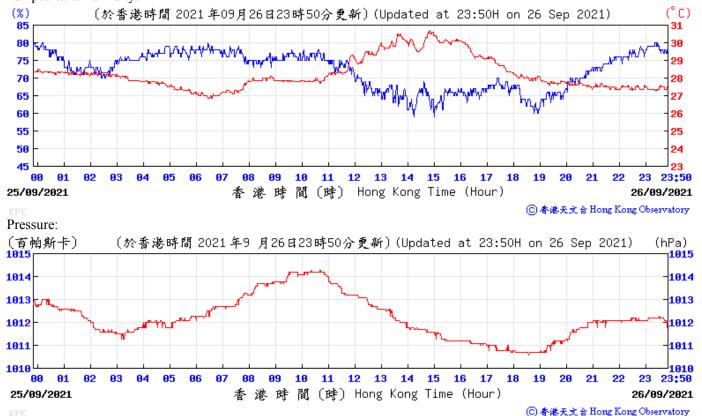
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13 14 15 16 17

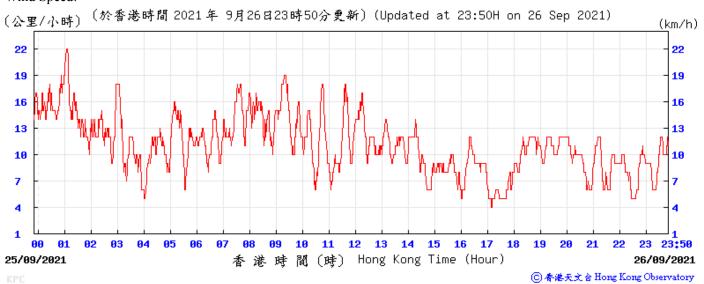
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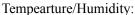


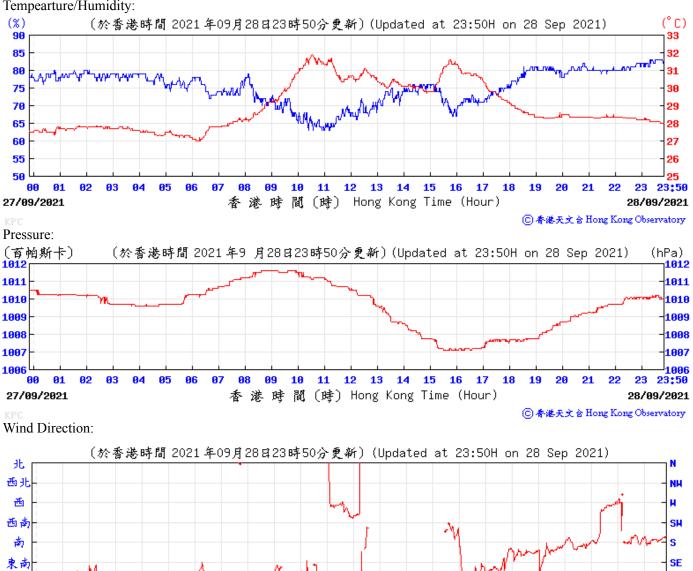












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香港時間(時) Hong Kong Time (Hour)

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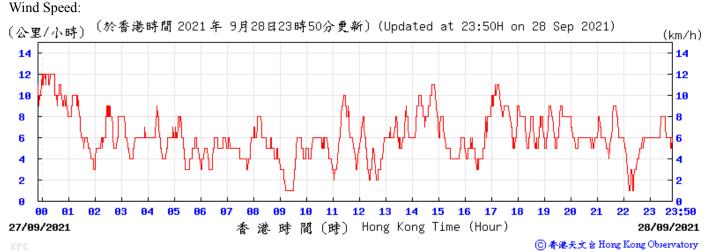
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⑥ 香港天文 含 Hong Kong Observatory

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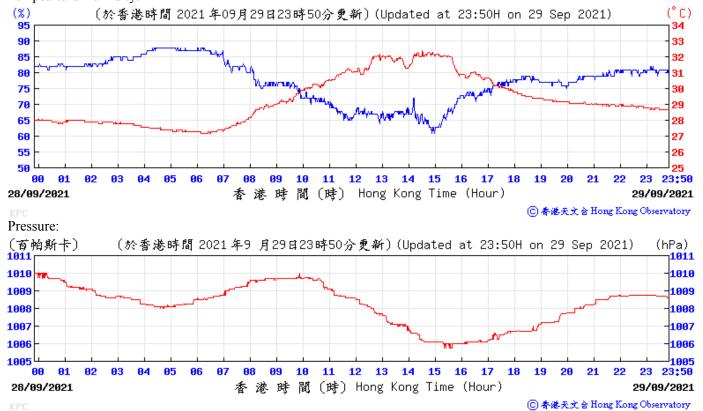
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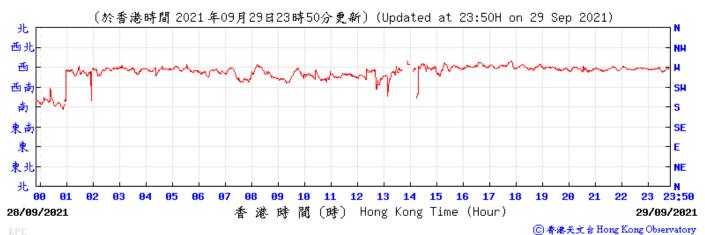
23 23:50

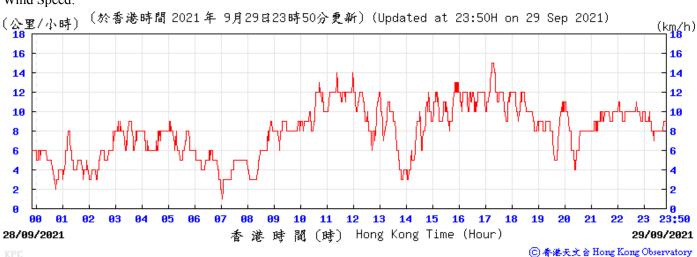
28/09/2021

Tempearture/Humidity:

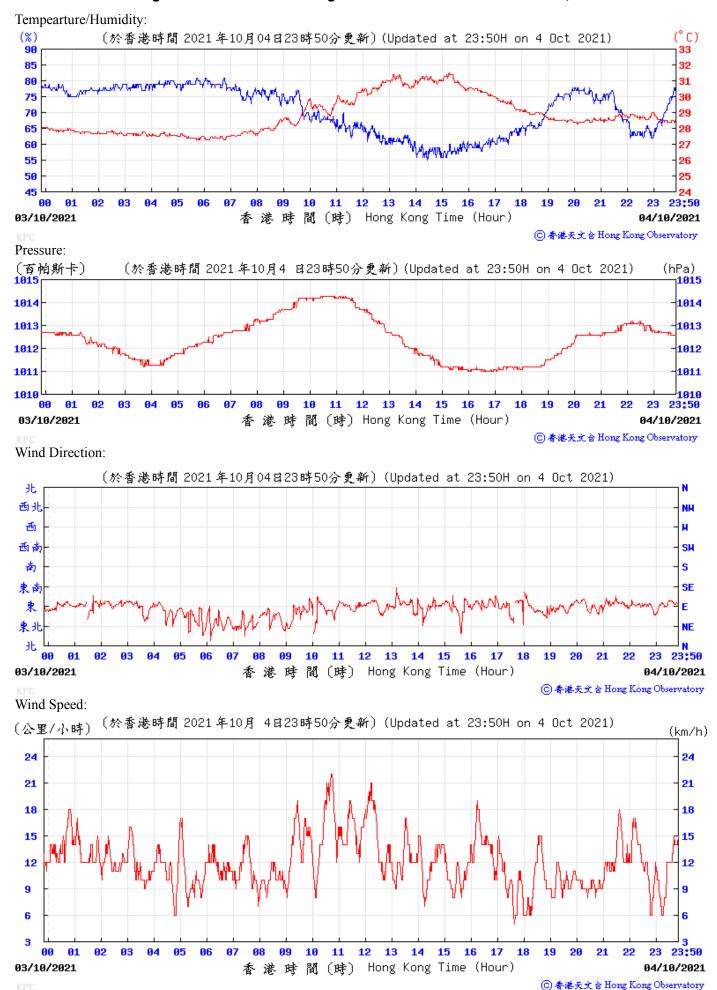


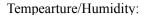
Wind Direction:

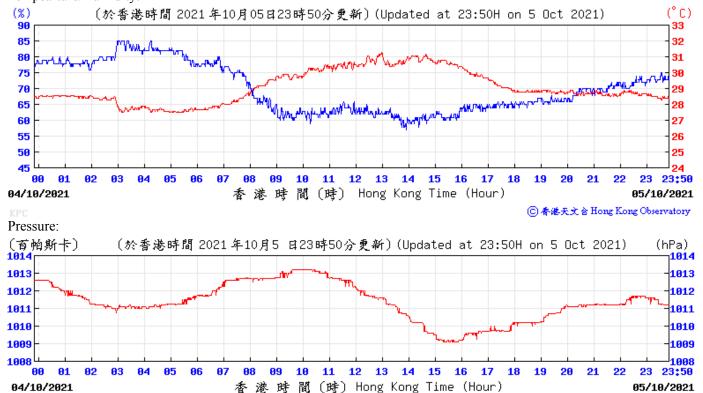


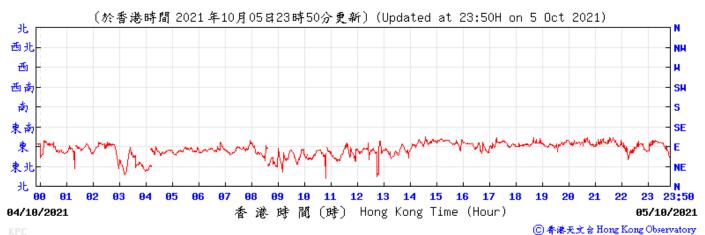


Extract of Meteorological Observations for King's Park Automatic Weather Station, October 2021

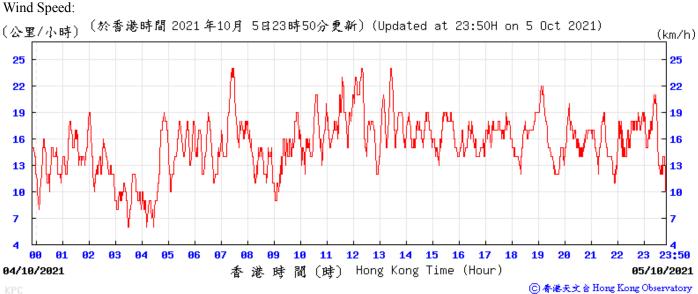


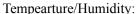


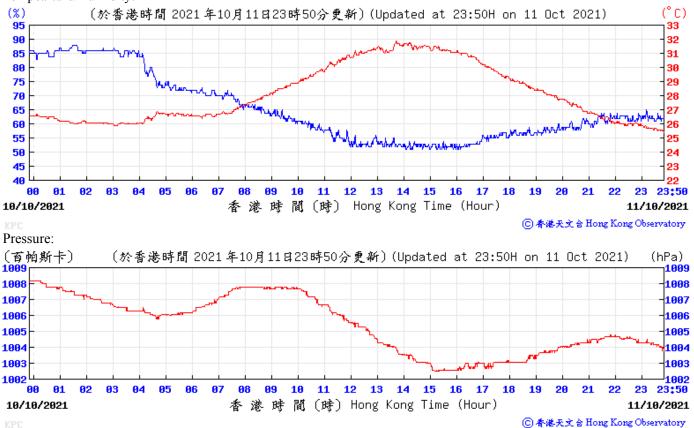


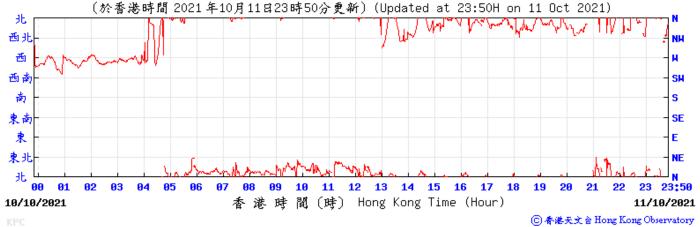


⑥ 香港天文 含 Hong Kong Observatory



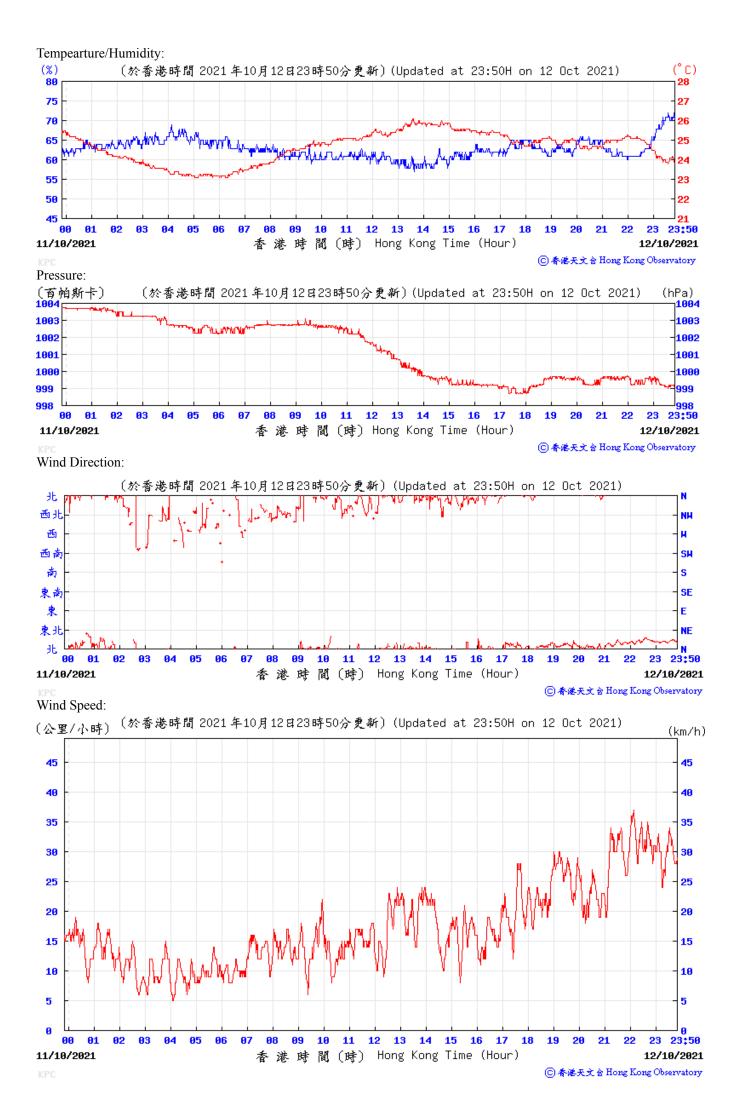


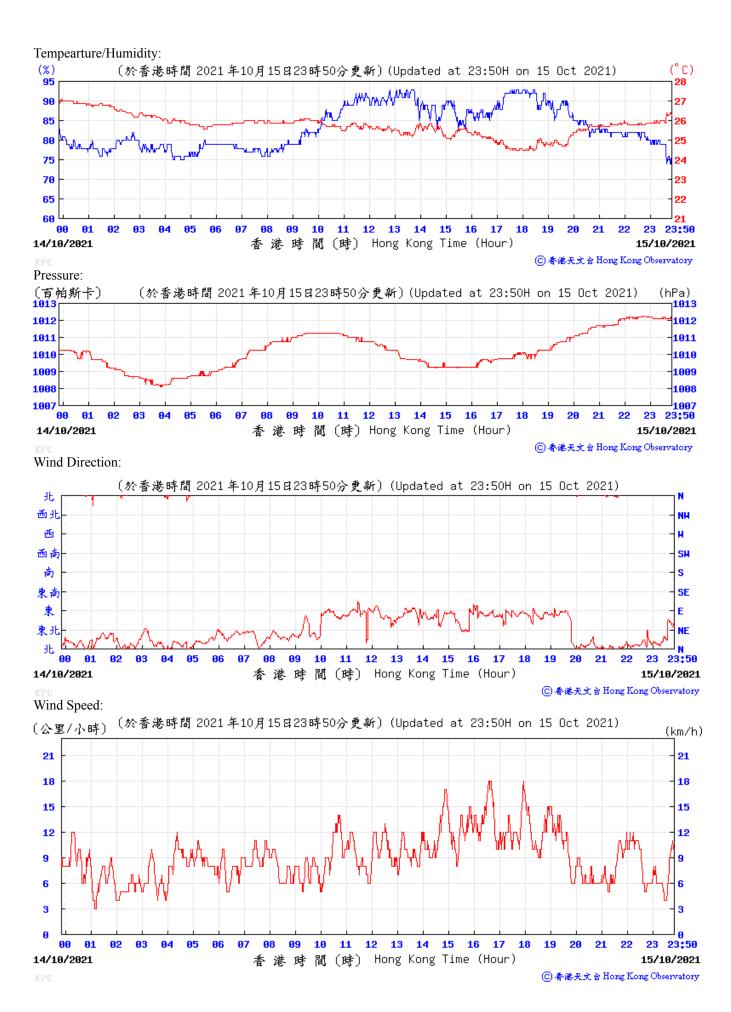


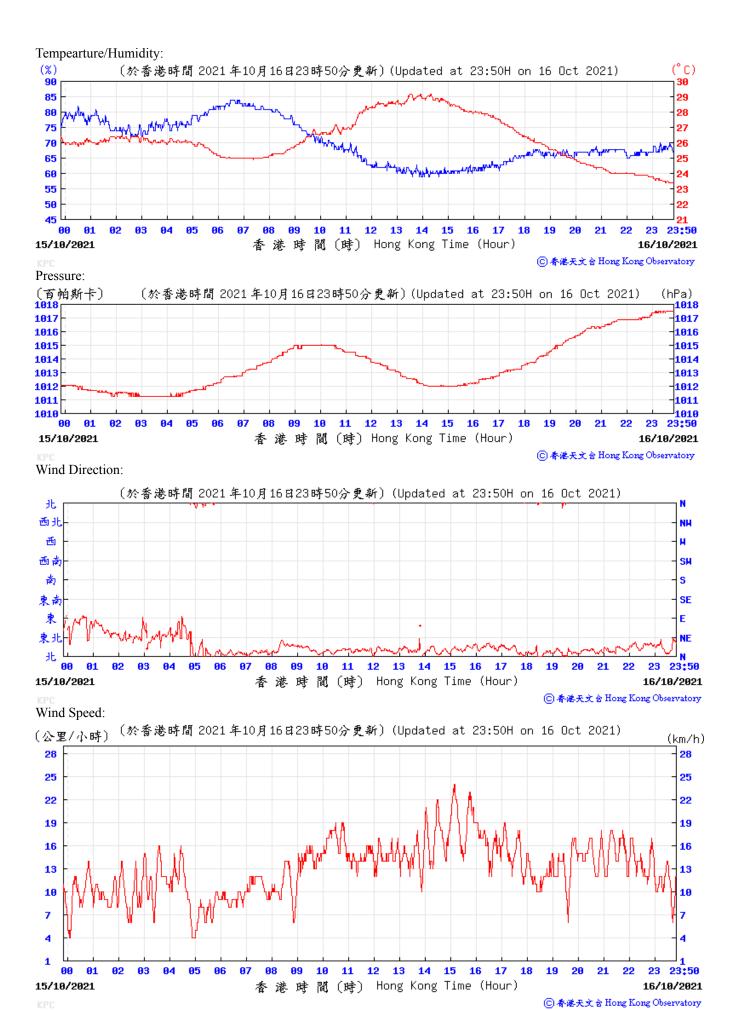


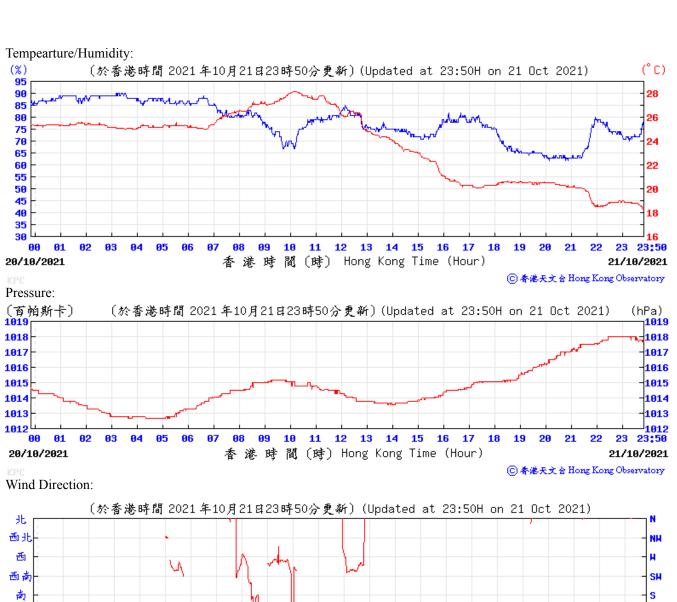
Wind Speed:

(於香港時間 2021 年10月11日23時50分更新) (Updated at 23:50H on 11 Oct 2021) (公里/小時) (km/h) 23 23:50 Α9 閬(鮳) Hong Kong Time (Hour) 10/10/2021 港時 11/10/2021

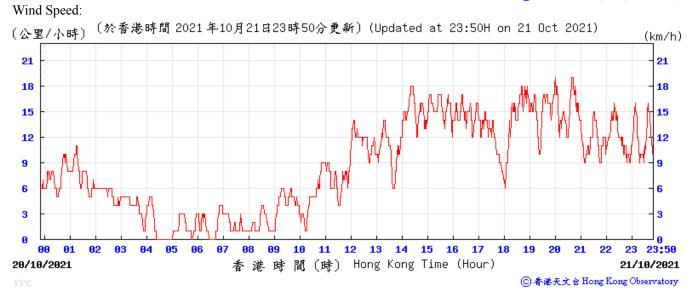


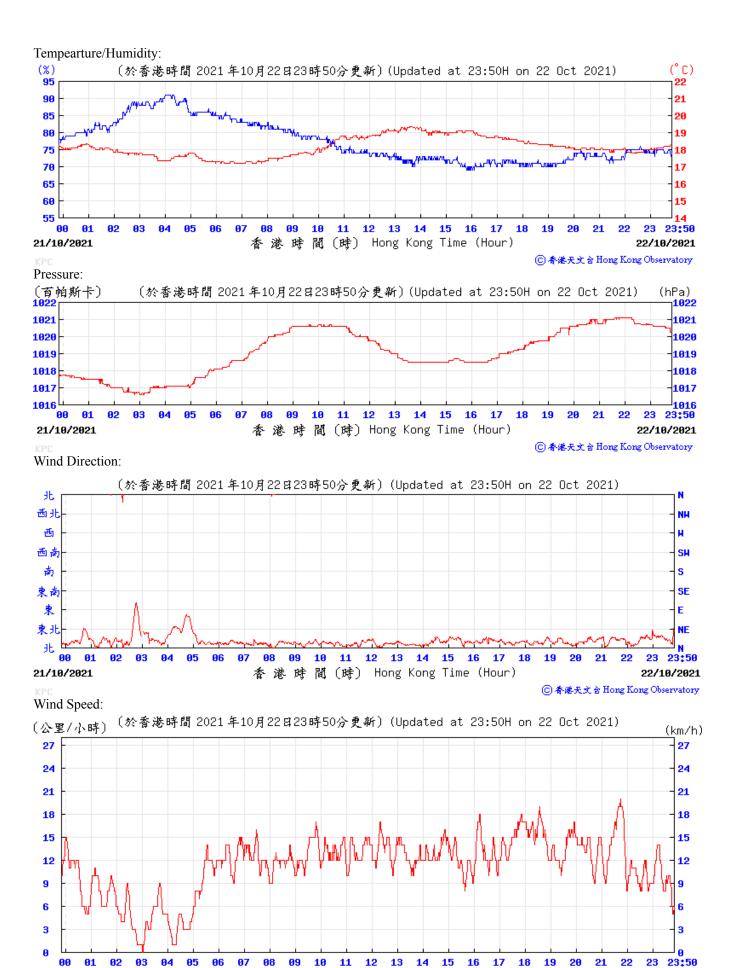










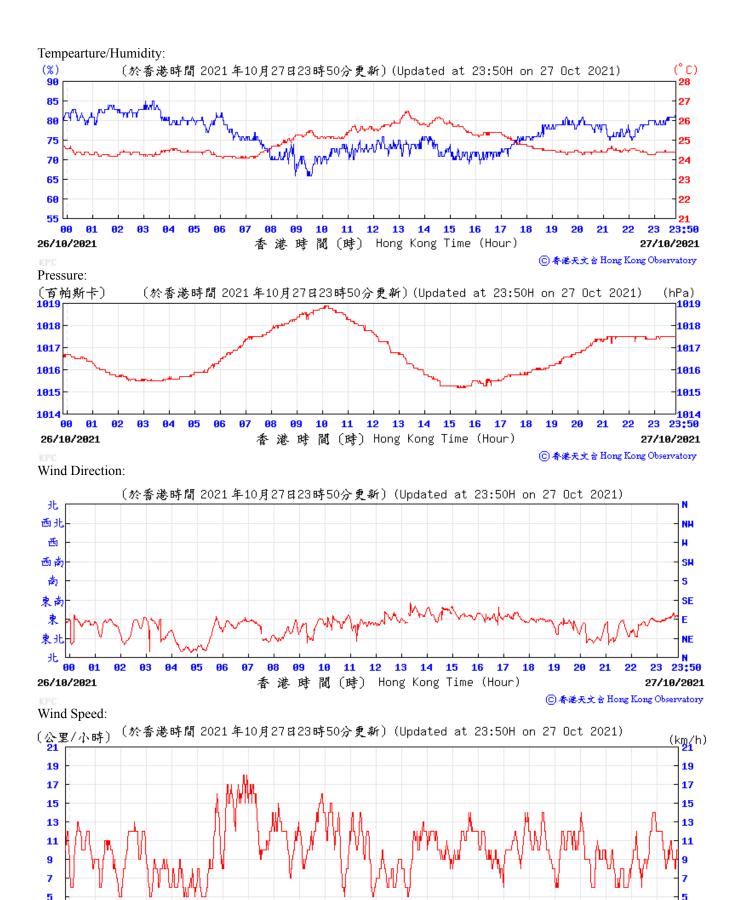


香港時間(時) Hong Kong Time (Hour)

22/10/2021

⑥香港天文含 Hong Kong Observatory

21/10/2021



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香港時間(時) Hong Kong Time (Hour)

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14 15 16

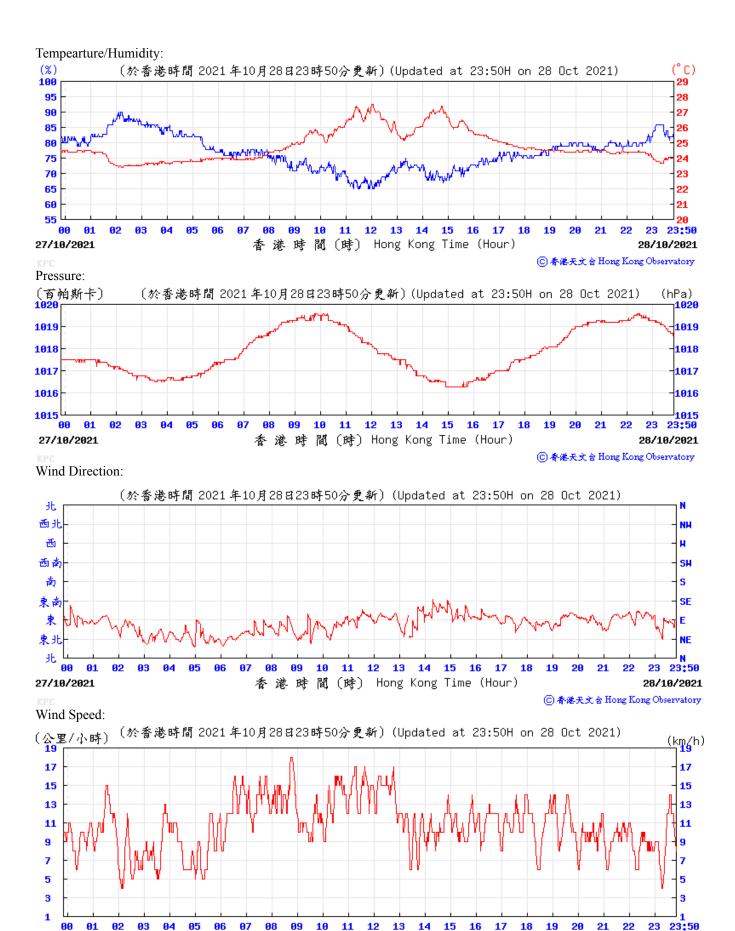
23 23:50

27/10/2021

⑥香港天文含 Hong Kong Observatory

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26/10/2021



香港時間(時) Hong Kong Time (Hour)

28/10/2021

⑥ 香港天文台 Hong Kong Observatory

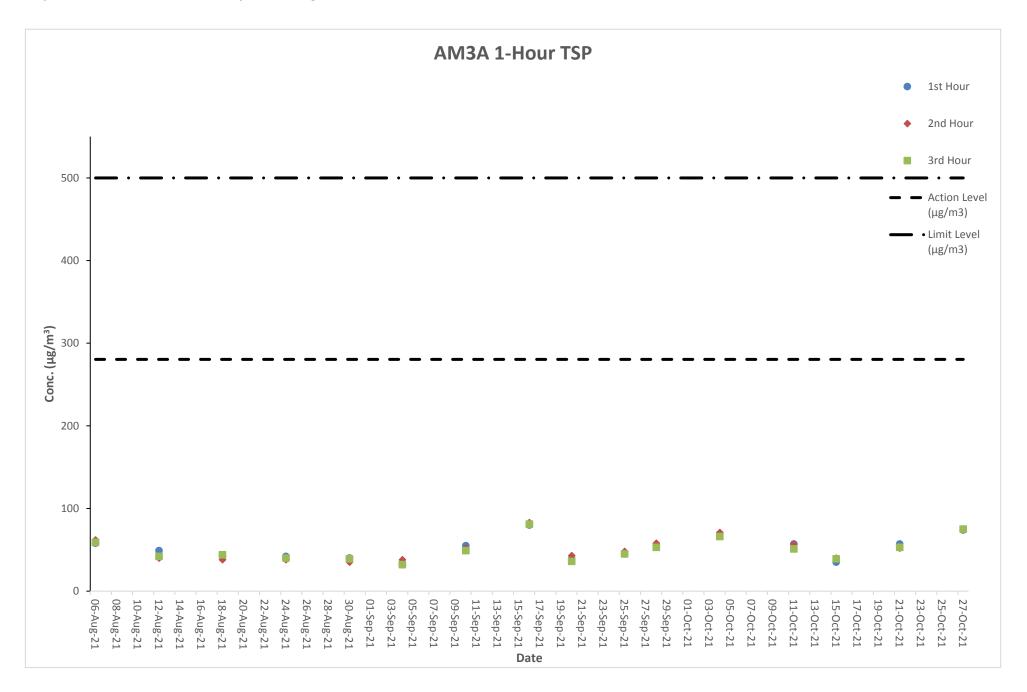
27/10/2021

E. Graphical Plots of the Monitoring Results

Air Quality Monitoring Result at Station AM3A (1-hour TSP)

	Weather		Conc. (µg/m³)			Action Level	Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m³)	(µg/m³)
06-Aug-21	Cloudy	8:07 - 11:07	58	62	59	280.4	500
12-Aug-21	Cloudy	14:11 - 17:11	49	40	42	280.4	500
18-Aug-21	Fine	8:03 - 11:03	42	38	44	280.4	500
24-Aug-21	Cloudy	13:59 - 16:59	42	38	40	280.4	500
30-Aug-21	Fine	8:11 - 11:11	40	35	39	280.4	500
04-Sep-21	Cloudy	8:03 - 11:03	32	38	32	280.4	500
10-Sep-21	Fine	14:05 - 17:05	55	52	49	280.4	500
16-Sep-21	Cloudy	8:07 - 11:07	80	83	81	280.4	500
20-Sep-21	Cloudy	14:01 - 17:01	39	43	36	280.4	500
25-Sep-21	Fine	8:00 - 11:00	45	48	45	280.4	500
28-Sep-21	Cloudy	14:06 - 17:06	56	58	53	280.4	500
04-Oct-21	Fine	8:01 - 11:01	69	71	66	280.4	500
11-Oct-21	Fine	14:02 - 17:02	57	57	51	280.4	500
15-Oct-21	Cloudy	8:03 - 11:03	35	40	39	280.4	500
21-Oct-21	Cloudy	14:05 - 17:05	57	52	53	280.4	500
27-Oct-21	Fine	8:04 - 11:04	74	75	75	280.4	500

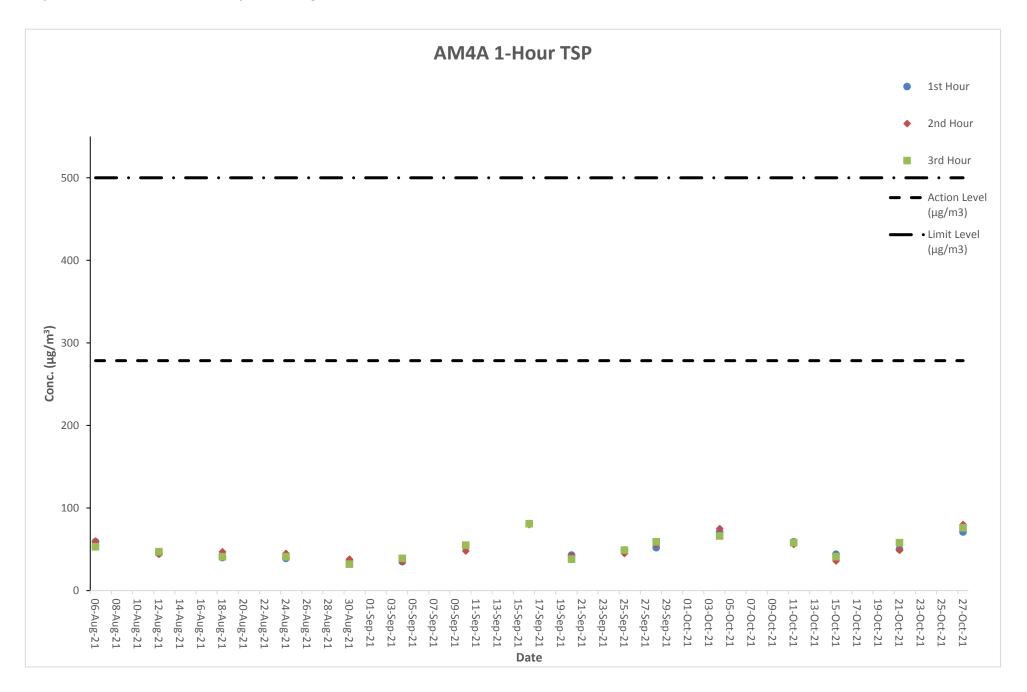
Note: Impact monitoring on 9 Oct has rescheduled to 11 Oct due to Tropical Cyclone Warning Signal No.8



Air Quality Monitoring Result at Station AM4A (1-hour TSP)

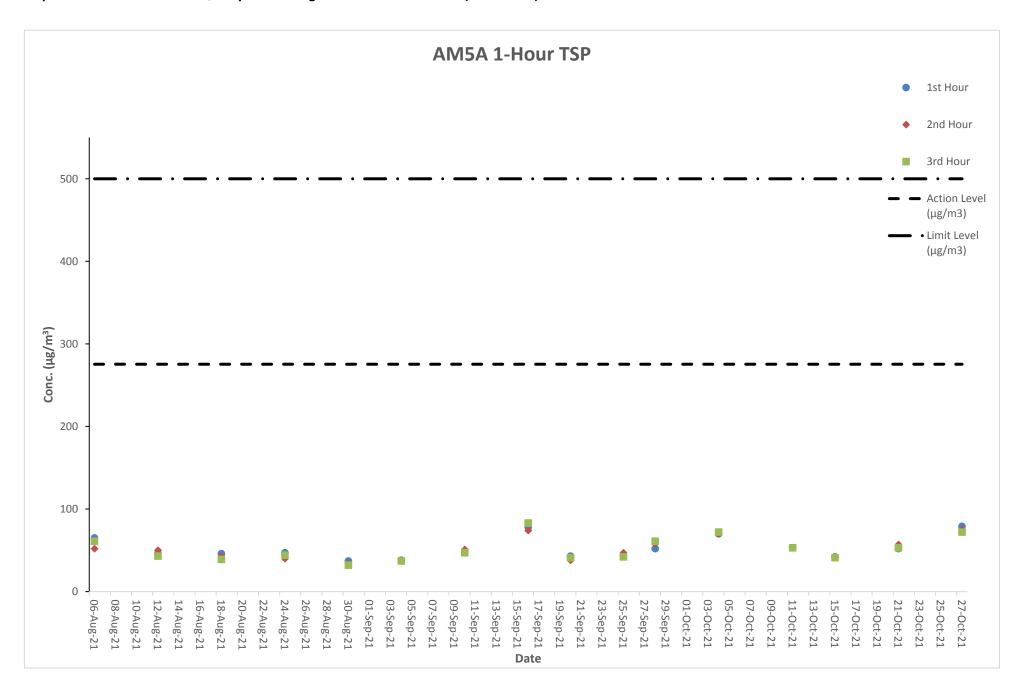
	Weather		Conc. (µg/m³)			Action Level	Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m³)	(µg/m³)
06-Aug-21	Cloudy	8:15 - 11:15	59	60	53	278.5	500
12-Aug-21	Cloudy	14:19 - 17:19	45	44	47	278.5	500
18-Aug-21	Fine	8:11 - 11:11	40	47	41	278.5	500
24-Aug-21	Cloudy	14:07 - 17:07	39	45	41	278.5	500
30-Aug-21	Fine	8:19 - 11:19	36	38	32	278.5	500
04-Sep-21	Cloudy	8:11 - 11:11	35	35	39	278.5	500
10-Sep-21	Fine	14:13 - 17:13	53	48	55	278.5	500
16-Sep-21	Cloudy	8:15 - 11:15	81	80	81	278.5	500
20-Sep-21	Cloudy	14:09 - 17:09	43	42	38	278.5	500
25-Sep-21	Fine	8:08 - 11:08	49	45	49	278.5	500
28-Sep-21	Cloudy	14:14 - 17:14	52	56	59	278.5	500
04-Oct-21	Fine	8:09 - 11:09	71	75	66	278.5	500
11-Oct-21	Fine	14:10 - 17:10	59	56	58	278.5	500
15-Oct-21	Cloudy	8:11 - 11:11	44	36	41	278.5	500
21-Oct-21	Cloudy	14:13 - 17:13	50	49	58	278.5	500
27-Oct-21	Fine	8:12 - 11:12	71	80	76	278.5	500

Note: Impact monitoring on 9 Oct has rescheduled to 11 Oct due to Tropical Cyclone Warning Signal No.8



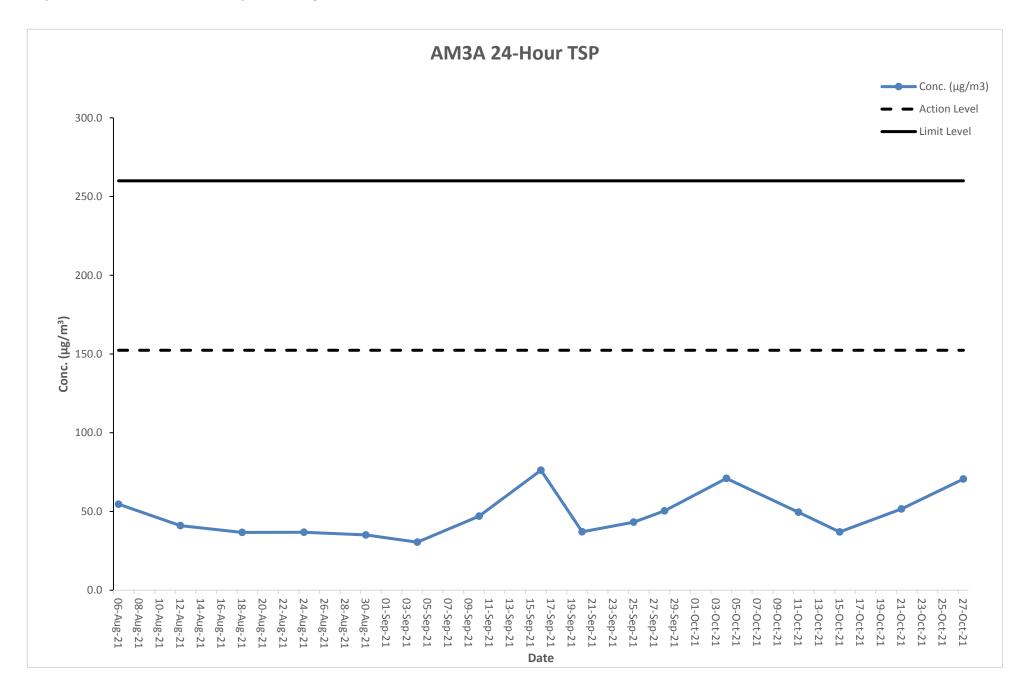
Air Quality Monitoring Result at Station AM5A (1-hour TSP)

	Weather		C	Conc. (µg/m³)			Limit Level
Date	Condition	Time	1 st Hour	2 nd Hour	3 rd Hour	(µg/m³)	(µg/m³)
06-Aug-21	Cloudy	8:30 - 11:30	65	52	61	275.4	500
12-Aug-21	Cloudy	14:36 - 17:36	46	50	43	275.4	500
18-Aug-21	Fine	8:26 - 11:26	46	43	39	275.4	500
24-Aug-21	Cloudy	14:24 - 17:24	47	40	44	275.4	500
30-Aug-21	Fine	8:34 - 11:34	37	34	32	275.4	500
04-Sep-21	Cloudy	8:26 - 11:26	38	37	37	275.4	500
10-Sep-21	Fine	14:30 - 17:30	48	51	47	275.4	500
16-Sep-21	Cloudy	8:30 - 11:30	78	74	83	275.4	500
20-Sep-21	Cloudy	14:26 - 17:26	43	38	41	275.4	500
25-Sep-21	Fine	8:23 - 11:23	44	47	42	275.4	500
28-Sep-21	Cloudy	14:22 - 17:22	52	58	61	275.4	500
04-Oct-21	Fine	8:24 - 11:24	70	70	72	275.4	500
11-Oct-21	Fine	14:27 - 17:27	53	53	53	275.4	500
15-Oct-21	Cloudy	8:26 - 11:26	42	42	41	275.4	500
21-Oct-21	Cloudy	14:30 - 17:30	52	57	53	275.4	500
27-Oct-21	Fine	8:27 - 11:27	79	75	72	275.4	500



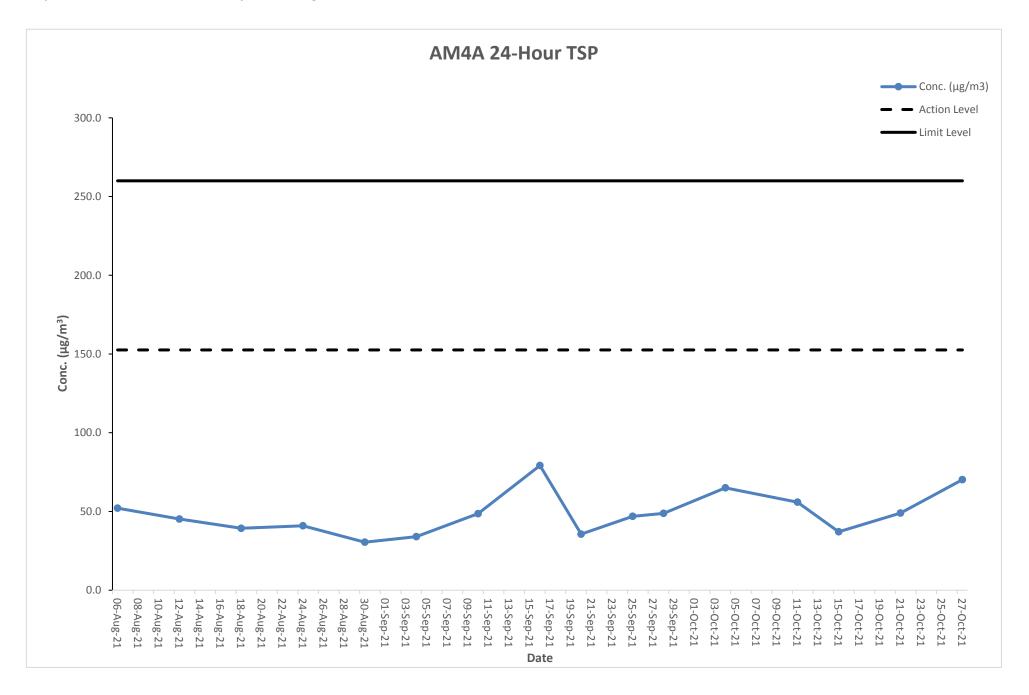
Air Quality Monitoring Result at Station AM3A (24-hour TSP)

Sta	rt	Finis	sh	Filter We	eight (g)	Elapsed Tir	ne Reading	Sampling	Flov	v Rate (m	ո³/min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Aug-21	10:00	07-Aug-21	10:00	2.8036	2.8915	2324.8	2348.8	24	1.12	1.12	1.12	54.6	Rainy	152.4	260
12-Aug-21	10:00	13-Aug-21	10:00	2.8034	2.8693	2348.8	2372.8	24	1.12	1.12	1.12	41.0	Cloudy	152.4	260
18-Aug-21	10:00	19-Aug-21	10:00	2.8052	2.8643	2372.8	2396.8	24	1.12	1.12	1.12	36.7	Fine	152.4	260
24-Aug-21	10:00	25-Aug-21	10:00	2.8089	2.8682	2396.8	2420.8	24	1.12	1.12	1.12	36.8	Rainy	152.4	260
30-Aug-21	10:00	31-Aug-21	10:00	2.8076	2.8641	2420.8	2444.8	24	1.12	1.12	1.12	35.1	Fine	152.4	260
04-Sep-21	10:00	05-Sep-21	10:00	2.8067	2.8558	2445.8	2469.8	24	1.12	1.12	1.12	30.5	Cloudy	152.4	260
10-Sep-21	10:00	11-Sep-21	10:00	2.8062	2.8818	2469.8	2493.8	24	1.12	1.12	1.12	47.0	Sunny	152.4	260
16-Sep-21	10:00	17-Sep-21	10:00	2.8052	2.9278	2493.8	2517.8	24	1.12	1.12	1.12	76.2	Cloudy	152.4	260
20-Sep-21	10:00	21-Sep-21	10:00	2.8088	2.8685	2517.8	2541.8	24	1.12	1.12	1.12	37.1	Rainy	152.4	260
25-Sep-21	10:00	26-Sep-21	10:00	2.8084	2.8779	2541.8	2565.8	24	1.12	1.12	1.12	43.2	Fine	152.4	260
28-Sep-21	10:00	29-Sep-21	10:00	2.8027	2.8838	2565.8	2589.8	24	1.12	1.12	1.12	50.4	Sunny	152.4	260
04-Oct-21	10:00	05-Oct-21	10:00	2.8051	2.9194	2590.8	2614.8	24	1.12	1.12	1.12	71.0	Sunny	152.4	260
11-Oct-21	10:00	12-Oct-21	10:00	2.8046	2.8843	2614.8	2638.8	24	1.12	1.12	1.12	49.5	Sunny	152.4	260
15-Oct-21	10:00	16-Oct-21	10:00	2.8080	2.8675	2638.8	2662.8	24	1.12	1.12	1.12	37.0	Rainy	152.4	260
21-Oct-21	10:00	22-Oct-21	10:00	2.8083	2.8914	2662.8	2686.8	24	1.12	1.12	1.12	51.6	Cloudy	152.4	260
27-Oct-21	10:00	28-Oct-21	10:00	2.8017	2.9152	2686.8	2710.8	24	1.12	1.12	1.12	70.6	Sunny	152.4	260



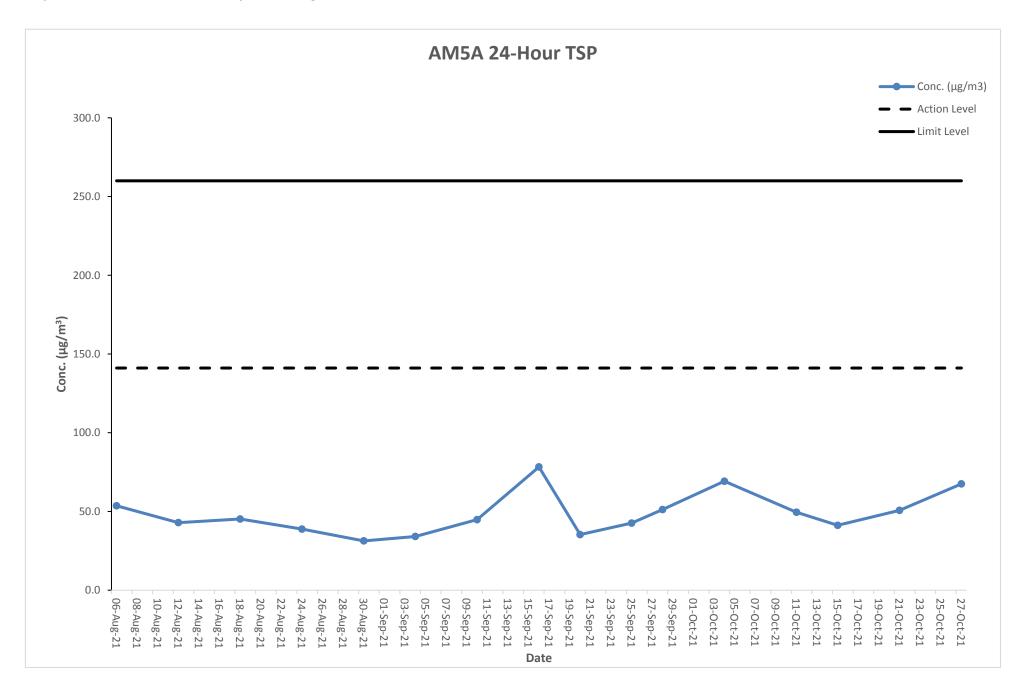
Air Quality Monitoring Result at Station AM4A (24-hour TSP)

Sta	rt	Finis	sh	Filter We	eight (g)	Elapsed Tir	me Reading	Sampling	Flov	v Rate (m	ո³/min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Aug-21	10:00	07-Aug-21	10:00	2.8062	2.8900	2744.4	2768.4	24	1.12	1.12	1.12	52.1	Rainy	152.6	260
12-Aug-21	10:00	13-Aug-21	10:00	2.8056	2.8783	2768.4	2792.4	24	1.12	1.12	1.12	45.2	Cloudy	152.6	260
18-Aug-21	10:00	19-Aug-21	10:00	2.8067	2.8700	2792.4	2816.4	24	1.12	1.12	1.12	39.3	Fine	152.6	260
24-Aug-21	10:00	25-Aug-21	10:00	2.8068	2.8727	2816.4	2840.4	24	1.12	1.12	1.12	40.9	Rainy	152.6	260
30-Aug-21	10:00	31-Aug-21	10:00	2.8028	2.8519	2840.4	2864.4	24	1.12	1.12	1.12	30.5	Fine	152.6	260
04-Sep-21	10:00	05-Sep-21	10:00	2.8024	2.8571	2865.4	2889.4	24	1.12	1.12	1.12	34.0	Cloudy	152.6	260
10-Sep-21	10:00	11-Sep-21	10:00	2.8019	2.8801	2889.4	2913.4	24	1.12	1.12	1.12	48.6	Sunny	152.6	260
16-Sep-21	10:00	17-Sep-21	10:00	2.8011	2.9286	2913.4	2937.4	24	1.12	1.12	1.12	79.2	Cloudy	152.6	260
20-Sep-21	10:00	21-Sep-21	10:00	2.8062	2.8635	2937.4	2961.4	24	1.12	1.12	1.12	35.6	Rainy	152.6	260
25-Sep-21	10:00	26-Sep-21	10:00	2.8061	2.8816	2961.4	2985.4	24	1.12	1.12	1.12	46.9	Fine	152.6	260
28-Sep-21	10:00	29-Sep-21	10:00	2.8053	2.8838	2985.4	3009.4	24	1.12	1.12	1.12	48.8	Sunny	152.6	260
04-Oct-21	10:00	05-Oct-21	10:00	2.8070	2.9116	3010.4	3034.4	24	1.12	1.12	1.12	65.0	Sunny	152.6	260
11-Oct-21	10:00	12-Oct-21	10:00	2.8030	2.8930	3034.4	3058.4	24	1.12	1.12	1.12	55.9	Sunny	152.6	260
15-Oct-21	10:00	16-Oct-21	10:00	2.8022	2.8619	3058.4	3082.4	24	1.12	1.12	1.12	37.1	Rainy	152.6	260
21-Oct-21	10:00	22-Oct-21	10:00	2.8035	2.8824	3082.4	3106.4	24	1.12	1.12	1.12	49.0	Cloudy	152.6	260
27-Oct-21	10:00	28-Oct-21	10:00	2.8072	2.9202	3106.4	3130.4	24	1.12	1.12	1.12	70.2	Sunny	152.6	260



Air Quality Monitoring Result at Station AM5A (24-hour TSP)

Sta	rt	Finis	sh	Filter We	eight (g)	Elapsed Tir	ne Reading	Sampling	Flov	v Rate (m	n³/min)	Conc.	Weather	Action	Limit
Date	Time	Date	Time	Initial	Final	Initial	Final	Time (hrs)	Initial	Final	Average	(µg/m³)	Condition	Level	Level
06-Aug-21	10:00	07-Aug-21	10:00	2.8089	2.8951	2884.6	2908.6	24	1.12	1.12	1.12	53.6	Rainy	141.1	260
12-Aug-21	10:00	13-Aug-21	10:00	2.8042	2.8733	2908.6	2932.6	24	1.12	1.12	1.12	42.9	Cloudy	141.1	260
18-Aug-21	10:00	19-Aug-21	10:00	2.8040	2.8768	2932.6	2956.6	24	1.12	1.12	1.12	45.2	Fine	141.1	260
24-Aug-21	10:00	25-Aug-21	10:00	2.8018	2.8642	2956.6	2980.6	24	1.12	1.12	1.12	38.8	Rainy	141.1	260
30-Aug-21	10:00	31-Aug-21	10:00	2.8072	2.8575	2980.6	3004.6	24	1.12	1.12	1.12	31.3	Fine	141.1	260
04-Sep-21	10:00	05-Sep-21	10:00	2.8076	2.8625	3005.6	3029.6	24	1.12	1.12	1.12	34.1	Cloudy	141.1	260
10-Sep-21	10:00	11-Sep-21	10:00	2.8076	2.8797	3029.6	3053.6	24	1.12	1.12	1.12	44.8	Sunny	141.1	260
16-Sep-21	10:00	17-Sep-21	10:00	2.8088	2.9349	3053.6	3077.6	24	1.12	1.12	1.12	78.3	Cloudy	141.1	260
20-Sep-21	10:00	21-Sep-21	10:00	2.8026	2.8594	3077.6	3101.6	24	1.12	1.12	1.12	35.3	Rainy	141.1	260
25-Sep-21	10:00	26-Sep-21	10:00	2.8061	2.8746	3101.6	3125.6	24	1.12	1.12	1.12	42.6	Fine	141.1	260
28-Sep-21	10:00	29-Sep-21	10:00	2.8037	2.8862	3125.6	3149.6	24	1.12	1.12	1.12	51.2	Sunny	141.1	260
04-Oct-21	10:00	05-Oct-21	10:00	2.8030	2.9144	3150.6	3174.6	24	1.12	1.12	1.12	69.2	Sunny	141.1	260
11-Oct-21	10:00	12-Oct-21	10:00	2.8016	2.8813	3174.6	3198.6	24	1.12	1.12	1.12	49.5	Sunny	141.1	260
15-Oct-21	10:00	16-Oct-21	10:00	2.8068	2.8732	3198.6	3222.6	24	1.12	1.12	1.12	41.2	Rainy	141.1	260
21-Oct-21	10:00	22-Oct-21	10:00	2.8089	2.8905	3222.6	3246.6	24	1.12	1.12	1.12	50.7	Cloudy	141.1	260
27-Oct-21	10:00	28-Oct-21	10:00	2.8012	2.9099	3246.6	3270.6	24	1.12	1.12	1.12	67.5	Sunny	141.1	260



Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Lea (30 min.) dB(A)
06-Aug-21	8:37	64.7	55.8	, , ,
06-Aug-21	8:42	64.6	55.6	
06-Aug-21	8:47	65.2	56.1	50.0
06-Aug-21	8:52	64.5	55.0	58.2
06-Aug-21	8:57	63.9	56.1	
06-Aug-21	9:02	63.1	54.4	
12-Aug-21	14:41	64.7	55.1	
12-Aug-21	14:46	65.1	54.5	
12-Aug-21	14:51	63.6	55.8	
12-Aug-21	14:56	65.7	55.7	58.5
12-Aug-21	15:01	64.2	55.6	
12-Aug-21	15:06	63.0	56.1	
18-Aug-21	8:33	64.9	54.9	
18-Aug-21	8:38	64.8	55.7	
18-Aug-21	8:43	63.2	54.5	
18-Aug-21	8:48	64.8	55.1	58.4
18-Aug-21	8:53	66.2	54.6	
18-Aug-21	8:58	64.6	55.8	
24-Aug-21	14:29	67.8	55.0	
24-Aug-21	14:34	65.5	55.9	
24-Aug-21	14:39	63.0	53.6	
24-Aug-21	14:44	64.8]	55.1	58.1
24-Aug-21	14:49	65.1	55.1	
24-Aug-21	14:54	63.2	55.8	
30-Aug-21	8:41	65.2	54.9	
30-Aug-21	8:46	64.4	55.6	
30-Aug-21	8:51	63.9	56.1	
30-Aug-21	8:56	64.6	55.5	58.2
30-Aug-21	9:01	65.3	54.7	
30-Aug-21	9:06	64.2	55.8	
04-Sep-21	14:06	64.8	56.3	
04-Sep-21	14:11	64.8	56.7	
	14:16	63.3	56.5	
04-Sep-21 04-Sep-21	14:21	63.5	54.8	58.5
04-Sep-21	14:26	65.6	55.4	
04-Sep-21	14:31	63.2	54.5	
10-Sep-21	14:35	64.3	56.8	
10-Sep-21	14:40	63.6	54.7	
10-Sep-21	14:45	63.4	56.4	
	14:50		55.9	57.6
10-Sep-21 10-Sep-21	14:55	65.1 64.3	54.8	
10-Sep-21 16-Sep-21	15:00 8:37	65.3 63.3	56.6 54.8	
16-Sep-21	8:42	65.0	54.8	
	8:47	63.1	54.8	
16-Sep-21	8:52	63.9	56.6	58.0
16-Sep-21 16-Sep-21	8:57	63.8	57.0	
16-Sep-21	9:02	64.9	54.1	
20-Sep-21	14:31	63.6	55.0	
20-Sep-21	14:36	65.2	55.1	
20-Sep-21	14:41	65.7	54.9	
20-Sep-21 20-Sep-21	14:46	63.9	56.6	58.4
20-Sep-21	14:51	64.1	54.6	
20-Sep-21	14:56	65.3	55.3	
25-Sep-21	8:30	65.7	56.0	
25-Sep-21	8:35	65.4	55.8	
		_		
25-Sep-21 25-Sep-21	8:40	64.4 63.5	54.3 55.7	58.3
	8:45 8:50	63.5 63.1	55.7 56.1	
25-Sep-21				
25-Sep-21	8:55	63.4	54.1	

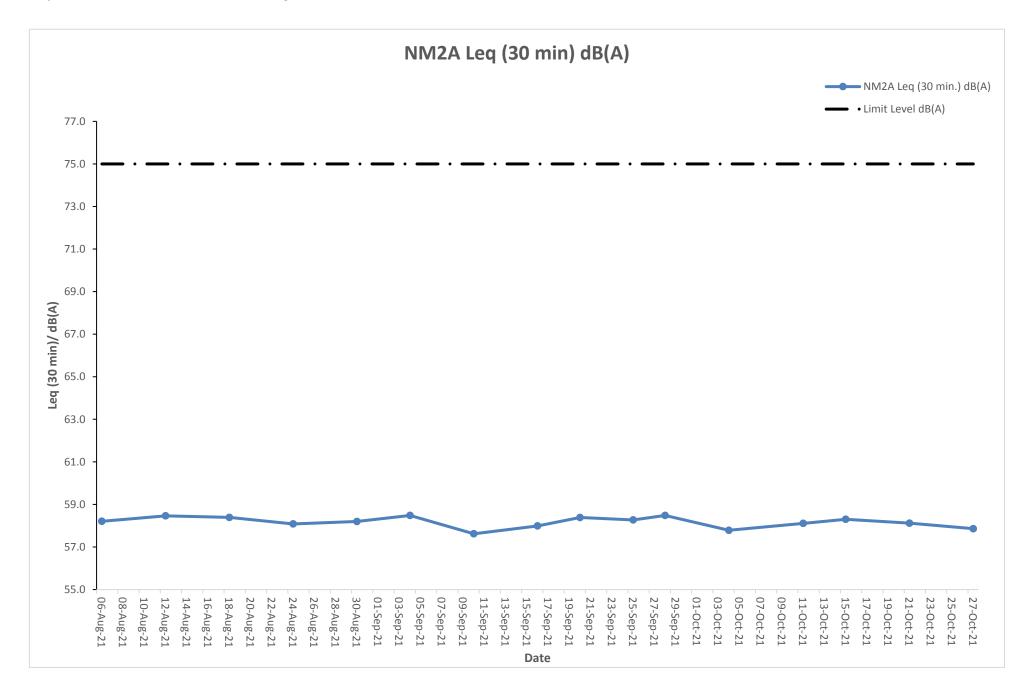
Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
28-Sep-21	14:06	64.8	56.3	
28-Sep-21	14:11	64.8	56.7	
28-Sep-21	14:16	63.3	56.5	58.5
28-Sep-21	14:21	63.5	54.8	30.3
28-Sep-21	14:26	65.6	55.4	
28-Sep-21	14:31	63.2	54.5	
04-Oct-21	8:31	65.9	54.9	
04-Oct-21	8:36	66.0	55.6	
04-Oct-21	8:41	64.1	55.8	57.8
04-Oct-21	8:46	64.3	55.0	37.0
04-Oct-21	8:51	65.7	54.7	
04-Oct-21	8:56	63.9	55.5	
11-Oct-21	14:32	64.0	55.9	
11-Oct-21	14:37	64.9	54.3	
11-Oct-21	14:42	64.9	55.9	58.1
11-Oct-21	14:47	63.1	54.4	30.1
11-Oct-21	14:52	63.2	55.9	
11-Oct-21	14:57	64.2	54.9	
15-Oct-21	8:33	63.5	55.0	
15-Oct-21	8:38	64.5	54.9	
15-Oct-21	8:43	64.8	55.7	58.3
15-Oct-21	8:48	63.7	55.7	30.3
15-Oct-21	8:53	64.4	54.6	
15-Oct-21	8:58	65.9	54.3	
21-Oct-21	14:35	64.3	55.9	
21-Oct-21	14:40	63.3	55.9	
21-Oct-21	14:45	63.3	55.0	58.1
21-Oct-21	14:50	66.0	55.1	30.1
21-Oct-21	14:55	65.4	55.5	
21-Oct-21	15:00	63.9	55.8	
27-Oct-21	8:34	64.5	55.9	
27-Oct-21	8:39	63.5	55.5	
27-Oct-21	8:44	64.4	54.5	57.9
27-Oct-21	8:49	63.8	54.8	57.9
27-Oct-21	8:54	65.5	56.0	
27-Oct-21	8:59	64.8	55.3	





The station set-up of a façade measurement at station NM2A.



Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
06-Aug-21	10:07	74.3	64.5	2.4(2.2 / 2.4 /
06-Aug-21	10:12	74.1	65.8	
06-Aug-21	10:17	72.9	67.4	00.5
06-Aug-21	10:22	74.7	66.3	69.5
06-Aug-21	10:27	73.6	65.3	
06-Aug-21	10:32	74.0	65.2	
12-Aug-21	16:14	74.5	65.4	
12-Aug-21	16:19	74.7	68.2	
12-Aug-21	16:24	73.2	68.0	00.0
12-Aug-21	16:29	73.7	66.8	69.2
12-Aug-21	16:34	74.0	66.9	
12-Aug-21	16:39	73.9	67.9	
18-Aug-21	10:03	74.2	65.4	
18-Aug-21	10:08	72.8	64.8	
18-Aug-21	10:13	73.5	66.9	60.7
18-Aug-21	10:18	73.8	67.2	69.7
18-Aug-21	10:23	73.6	68.2	
18-Aug-21	10:28	74.2	66.7	
24-Aug-21	16:02	75.4	67.7	
24-Aug-21	16:07	73.9	66.8	
24-Aug-21	16:12	74.8	68.1	69.6
24-Aug-21	16:17	72.8	65.1	09.0
24-Aug-21	16:22	73.2	66.4	
24-Aug-21	16:27	73.8	64.8	
30-Aug-21	10:11	74.3	67.2	
30-Aug-21	10:16	73.2	66.1	
30-Aug-21	10:21	74.9	65.9	69.5
30-Aug-21	10:26	74.5	65.1	00.0
30-Aug-21	10:31	73.2	66.5	
30-Aug-21	10:36	73.1	66.8	
04-Sep-21	10:03	73.4	65.4	
04-Sep-21	10:08	74.3	64.2	
04-Sep-21	10:13	72.9	66.6	69.4
04-Sep-21	10:18	73.6	64.7	00.1
04-Sep-21	10:23	74.3	64.9	
04-Sep-21	10:28	73.8	64.5	
10-Sep-21	16:08	73.1	65.6	
10-Sep-21	16:13	73.3	66.9	
10-Sep-21	16:18	74.4	64.3	70.0
10-Sep-21	16:23	74.1	64.5	
10-Sep-21	16:28	73.4	65.5	
10-Sep-21	16:33	74.1	64.3	
16-Sep-21	10:07	73.2	64.1	
16-Sep-21	10:12	73.4	66.6	
16-Sep-21	10:17	72.8	66.7	70.9
16-Sep-21	10:22	73.9	66.3	
16-Sep-21	10:27	73.7	65.1	
16-Sep-21	10:32	73.5	64.8 65.1	
20-Sep-21	16:04	73.2	65.1	
20-Sep-21	16:09	74.5 74.3	64.2 65.7	
20-Sep-21 20-Sep-21	16:14 16:19	74.3	65.7	69.8
			64.4 66.0	
20-Sep-21	16:24	72.9 72.9	66.0 66.2	
20-Sep-21 25-Sep-21	16:29	72.9 73.0	66.2 64.8	
25-Sep-21 25-Sep-21	10:00 10:05	73.0	66.4	
25-Sep-21 25-Sep-21	10:05	_	66.2	
25-Sep-21		73.4 73.7	65.2	69.0
25-Sep-21	10:15 10:20	74.0	65.0	
25-Sep-21	10:25	73.0	65.5	
20-06h-71	10.20	13.0	00.0	

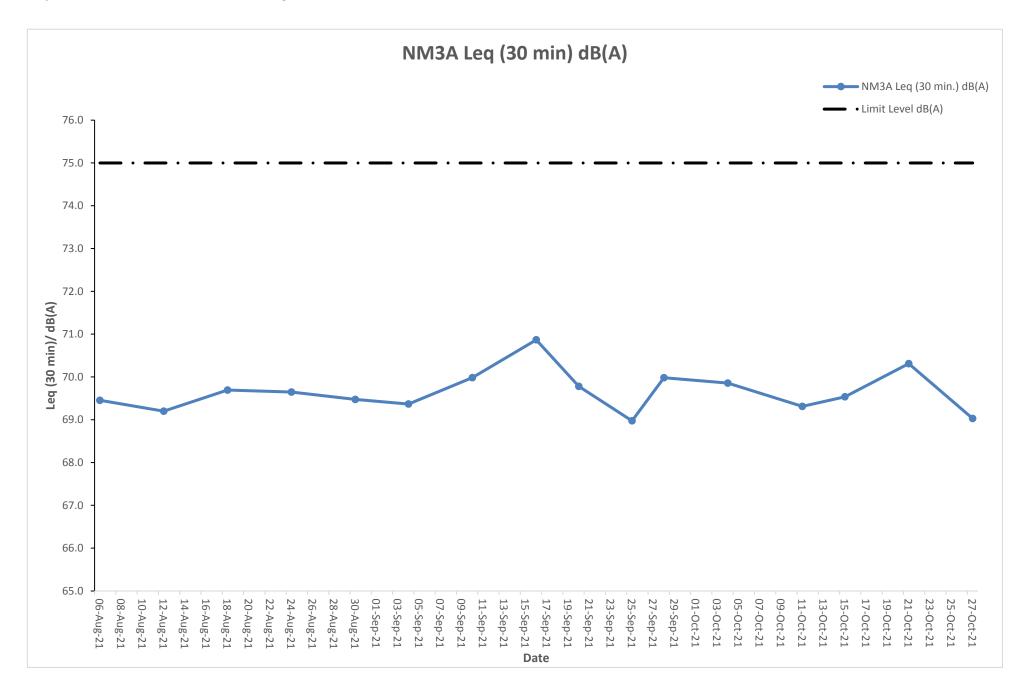
Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
28-Sep-21	15:48	72.7	65.0	
28-Sep-21	15:53	73.4	64.5	
28-Sep-21	15:58	72.9	66.9	70.0
28-Sep-21	16:03	73.3	65.8	70.0
28-Sep-21	16:08	73.9	65.2	
28-Sep-21	16:13	73.0	64.6	
04-Oct-21	10:01	74.0	66.2	
04-Oct-21	10:06	73.5	66.7	
04-Oct-21	10:11	73.9	66.8	69.9
04-Oct-21	10:16	72.8	64.5	09.9
04-Oct-21	10:21	73.7	66.3	
04-Oct-21	10:26	73.3	64.4	
11-Oct-21	16:05	73.2	64.3	
11-Oct-21	16:10	73.5	64.3	
11-Oct-21	16:15	73.0	65.1	69.3
11-Oct-21	16:20	74.5	65.5	69.3
11-Oct-21	16:25	72.8	65.8	
11-Oct-21	16:30	73.7	65.2	
15-Oct-21	10:03	73.1	64.7	
15-Oct-21	10:08	74.5	66.7	
15-Oct-21	10:13	74.2	64.4	69.5
15-Oct-21	10:18	73.3	66.3	69.5
15-Oct-21	10:23	73.4	66.4	
15-Oct-21	10:28	74.1	64.2	
21-Oct-21	16:08	73.5	65.4	
21-Oct-21	16:13	73.7	64.3	
21-Oct-21	16:18	73.9	66.2	70.3
21-Oct-21	16:23	74.4	64.3	70.3
21-Oct-21	16:28	73.8	64.8	
21-Oct-21	16:33	74.5	64.6	
27-Oct-21	10:04	73.6	65.7	
27-Oct-21	10:09	72.8	66.6	
27-Oct-21	10:14	73.6	66.4	60.0
27-Oct-21	10:19	73.2	65.2	69.0
27-Oct-21	10:24	74.2	65.5	
27-Oct-21	10:29	74.3	66.1	





The station set-up of a façade measurement at station NM3A.



Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
06-Aug-21	10:42	70.2	64.3	
06-Aug-21	10:47	71.4	63.2	
06-Aug-21	10:52	70.5	66.8	68.4
06-Aug-21	10:57	69.9	65.2	00.4
06-Aug-21	11:02	70.2	64.8	
06-Aug-21	11:07	70.5	65.2	
12-Aug-21	16:49	71.2	64.6	
12-Aug-21	16:54	71.9	64.8	
12-Aug-21	16:59	70.9	65.2	68.2
12-Aug-21	17:04	69.1	64.8	00.2
12-Aug-21	17:09	69.5	63.4	
12-Aug-21	17:14	69.9	63.5	
18-Aug-21	10:38	70.7	64.5	
18-Aug-21	10:43	70.1	65.2	
18-Aug-21	10:48	71.8	64.8	69.0
18-Aug-21	10:53	72.5	65.1	00.0
18-Aug-21	10:58	71.7	65.8	
18-Aug-21	11:03	70.5	64.6	
24-Aug-21	16:37	70.8	64.1	
24-Aug-21	16:42	69.5	65.2	
24-Aug-21	16:47	70.4	64.6	68.9
24-Aug-21	16:52	70.7	63.8	33.0
24-Aug-21	16:57	71.1	64.2	
24-Aug-21	17:02	71.8	64.8	
30-Aug-21	10:46	71.2	66.4	
30-Aug-21	10:51	70.9	65.2	
30-Aug-21	10:56	70.2	63.8	68.7
30-Aug-21	11:01	69.5	63.1	00.1
30-Aug-21	11:06	71.2	64.2	
30-Aug-21	11:11	71.6	65.2	
04-Sep-21	10:38	69.3	63.3	
04-Sep-21	10:43	70.3	65.8	
04-Sep-21	10:48	72.0	65.2	67.9
04-Sep-21	10:53	69.3	65.5	
04-Sep-21	10:58	71.4	63.9	
04-Sep-21	11:03	70.3	64.7	
10-Sep-21	16:43	70.3	64.8	
10-Sep-21	16:48	69.4	64.0	
10-Sep-21	16:53	70.8	65.0	68.2
10-Sep-21	16:58	69.3	63.6	
10-Sep-21	17:03	70.9	65.4	
10-Sep-21	17:08	69.7 70.0	65.9 64.1	
16-Sep-21	10:42	70.9 70.4	64.1 64.4	
16-Sep-21	10:47 10:52	70.4	64.8	
16-Sep-21 16-Sep-21	10:52	71.7	64.3	68.1
16-Sep-21	11:02	71.6	63.7	
		71.0	63.1	
16-Sep-21 20-Sep-21	11:07 16:39	69.1	63.9	
20-Sep-21	16:44	70.5	63.1	
20-Sep-21	16:49	69.2	65.1	
20-Sep-21	16:54	69.8	64.9	67.8
20-Sep-21	16:59	69.5	64.8	
20-Sep-21	17:04	71.3	65.8	
25-Sep-21	10:35	70.7	65.3	
25-Sep-21	10:33	69.9	63.6	
25-Sep-21	10:45	69.8	64.6	
25-Sep-21	10:43	70.5	64.0	68.0
25-Sep-21	10:55	71.0	65.4	
25-Sep-21	11:00	69.4	63.2	
20 00p-21	11.00	UU. T	00.2	

Noise Monitoring Result at Station NM4A

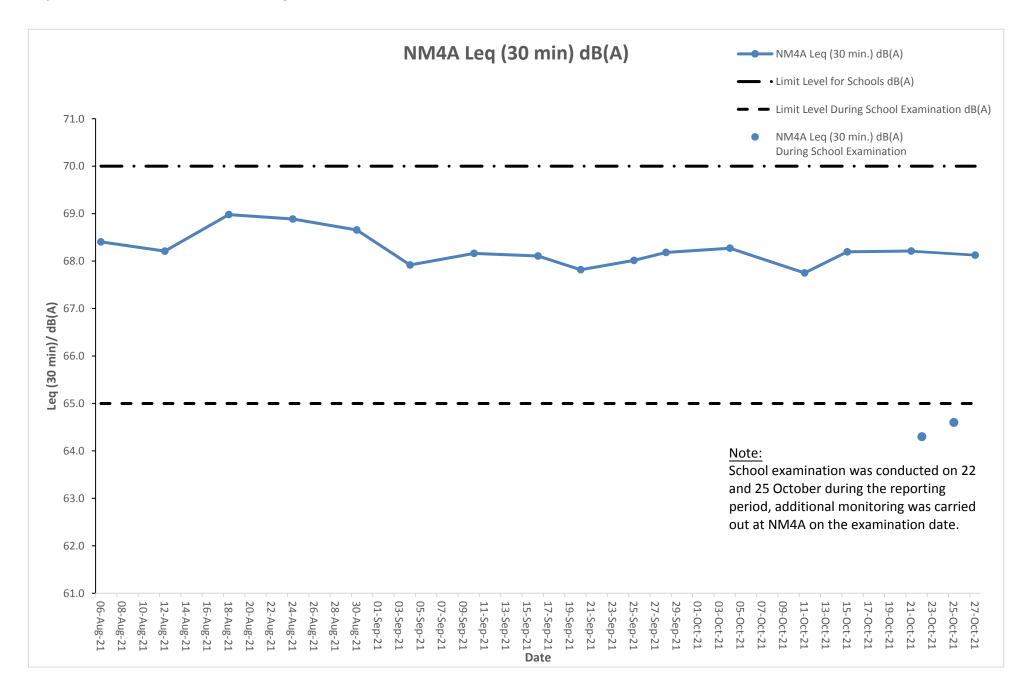
Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
28-Sep-21	16:23	69.4	64.0	
28-Sep-21	16:28	71.7	63.5	
28-Sep-21	16:33	69.4	64.2	68.2
28-Sep-21	16:38	70.9	64.2	00.2
28-Sep-21	16:43	69.6	63.1	
28-Sep-21	16:48	71.0	65.0	
04-Oct-21	10:36	70.2	65.2	
04-Oct-21	10:41	69.7	65.5	
04-Oct-21	10:46	69.8	63.4	68.3
04-Oct-21	10:51	72.0	63.7	06.3
04-Oct-21	10:56	69.7	64.9	
04-Oct-21	11:01	69.7	66.0	
11-Oct-21	16:40	69.2	63.5	
11-Oct-21	16:45	69.2	65.4	
11-Oct-21	16:50	70.6	63.9	67.8
11-Oct-21	16:55	70.6	65.6	67.6
11-Oct-21	17:00	69.4	63.3	
11-Oct-21	17:05	70.5	64.5	
15-Oct-21	10:38	69.5	63.8	
15-Oct-21	10:43	69.3	64.8	
15-Oct-21	10:48	71.0	64.5	68.2
15-Oct-21	10:53	70.9	64.6	00.2
15-Oct-21	10:58	69.2	63.1	
15-Oct-21	11:03	71.1	63.2	
21-Oct-21	16:43	71.2	65.4	
21-Oct-21	16:48	72.0	65.3	
21-Oct-21	16:53	70.4	65.5	68.2
21-Oct-21	16:58	69.3	63.2	00.2
21-Oct-21	17:03	69.4	64.1	
21-Oct-21	17:08	71.4	65.1	
27-Oct-21	10:39	71.6	64.2	
27-Oct-21	10:44	71.9	64.8	
27-Oct-21	10:49	71.2	65.8	60 1
27-Oct-21	10:54	71.1	65.6	68.1
27-Oct-21	10:59	70.8	64.2	
27-Oct-21	11:04	71.6	64.4	

Note: Impact monitoring on 9 Oct has rescheduled to 11 Oct due to Tropical Cyclone Warning Signal No.8





The station set-up of a façade measurement at station NM4A.



Noise Monitoring Result at Station NM5A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	Leq (30 min.) +3 dB(A)
06-Aug-21	9:27	64.5	57.6		
06-Aug-21	9:32	65.9	60.5		
06-Aug-21	9:37	66.1	59.2	62.7	65.7
06-Aug-21	9:42	67.6	58.3	02.7	03.7
06-Aug-21	9:47	66.8	58.1		
06-Aug-21	9:52	65.9	60.3		
12-Aug-21	15:33	67.1	58.3		
12-Aug-21	15:38	67.4	58.4		
12-Aug-21	15:43	66.8	58.1	63.0	66.0
12-Aug-21	15:48	68.2	60.1	00.0	00.0
12-Aug-21	15:53	67.9	58.5		
12-Aug-21	15:58	64.2	60.0		
18-Aug-21	9:23	66.5	60.7		
18-Aug-21	9:28	65.9	57.9		
18-Aug-21	9:33	67.1	58.5	63.2	66.2
18-Aug-21	9:38	66.1	58.1		
18-Aug-21	9:43	66.8	59.7		
18-Aug-21	9:48	65.9	60.8		
24-Aug-21	15:21	69.5	57.9		
24-Aug-21	15:26	68.2	60.3		
24-Aug-21	15:31	66.9	56.4	63.6	66.6
24-Aug-21	15:36	65.2	58.4		
24-Aug-21	15:41	66.5	59.2		
24-Aug-21	15:46	65.9	60.1		
30-Aug-21	9:31	67.9 66.4	60.9 61.2		
30-Aug-21 30-Aug-21	9:36 9:41	69.1	59.3		
30-Aug-21	9:46	68.4	58.5	63.0	66.0
30-Aug-21	9:51	67.2	58.4		
30-Aug-21	9:56	68.5	59.2		
04-Sep-21	9:23	65.9	56.7		
04-Sep-21	9:28	64.5	57.5		
04-Sep-21	9:33	67.0	58.9		
04-Sep-21	9:38	65.5	57.5	63.5	66.5
04-Sep-21	9:43	64.2	57.5		
04-Sep-21	9:48	66.0	58.0		
10-Sep-21	15:27	66.1	56.2		
10-Sep-21	15:32	66.4	56.2		
10-Sep-21	15:37	64.2	56.9	CO C	00.0
10-Sep-21	15:42	66.5	57.6	63.6	66.6
10-Sep-21	15:47	66.5	57.5		
10-Sep-21	15:52	66.0	58.5		
16-Sep-21	9:27	65.9	58.8		
16-Sep-21	9:32	66.9	57.2		
16-Sep-21	9:37	66.7	58.1	63.7	66.7
16-Sep-21	9:42	66.3	56.3	30.7	00.7
16-Sep-21	9:47	64.4	56.9		
16-Sep-21	9:52	64.3	57.1		
20-Sep-21	15:23	65.2	58.5		
20-Sep-21	15:28	65.1	56.5		
20-Sep-21	15:33	66.6	59.0	63.7	66.7
20-Sep-21	15:38	64.4	57.9		
20-Sep-21	15:43	65.7	56.2		
20-Sep-21	15:48	65.6	58.4		
25-Sep-21	9:20	65.3	56.9		
25-Sep-21	9:25	66.0	56.2		
25-Sep-21	9:30	65.9	58.0	62.7	65.7
25-Sep-21	9:35	64.7 65.5	58.1 57.5		
25-Sep-21	9:40	65.5 65.5	57.5 58.9		
25-Sep-21	9:45	65.5	58.9		

Noise Monitoring Result at Station NM5A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)	Leq (30 min.) +3 dB(A)	
28-Sep-21	15:07	66.6	57.4			
28-Sep-21	15:12	65.9	58.5			
28-Sep-21	15:17	66.7	56.2	63.5	66.5	
28-Sep-21	15:22	64.3	58.6	63.5	00.5	
28-Sep-21	15:27	64.5	56.9			
28-Sep-21	15:32	66.0	57.7	1		
04-Oct-21	9:21	64.5	57.1			
04-Oct-21	9:26	66.7	57.6	1		
04-Oct-21	9:31	65.3	57.7	62.3	65.3	
04-Oct-21	9:36	65.5	58.8	02.3	05.3	
04-Oct-21	9:41	65.8	57.0	1		
04-Oct-21	9:46	65.4	56.2	1		
11-Oct-21	15:24	66.1	56.4			
11-Oct-21	15:29	64.9	58.9			
11-Oct-21	15:34	64.3	58.1	63.3	66.3	
11-Oct-21	15:39	66.4	57.2	63.3	00.3	
11-Oct-21	15:44	64.3	58.2	1		
11-Oct-21	15:49	66.5	59.0	1		
15-Oct-21	9:23	64.9	56.6			
15-Oct-21	9:28	66.6	57.0			
15-Oct-21	9:33	67.1	58.4	62.6	65.6	
15-Oct-21	9:38	65.6	57.9	02.0	65.6	
15-Oct-21	9:43	66.8	58.6	1		
15-Oct-21	9:48	66.9	56.4	1		
21-Oct-21	15:27	67.0	58.2			
21-Oct-21	15:32	66.9	56.4			
21-Oct-21	15:37	64.3	57.9	62.7	65.7	
21-Oct-21	15:42	64.2	58.0	02.7	05.7	
21-Oct-21	15:47	66.5	56.2	1		
21-Oct-21	15:52	64.9	57.4	1		
27-Oct-21	9:24	65.9	58.0			
27-Oct-21	9:29	66.5	58.9			
27-Oct-21	9:34	67.1	57.1	62.4	66.4	
27-Oct-21	9:39	66.4	56.3	63.4	66.4	
27-Oct-21	9:44	66.2	58.4	1		
27-Oct-21	9:49	65.7	56.7	1		

Note: Impact monitoring on 9 Oct has rescheduled to 11 Oct due to Tropical Cyclone Warning Signal No.8

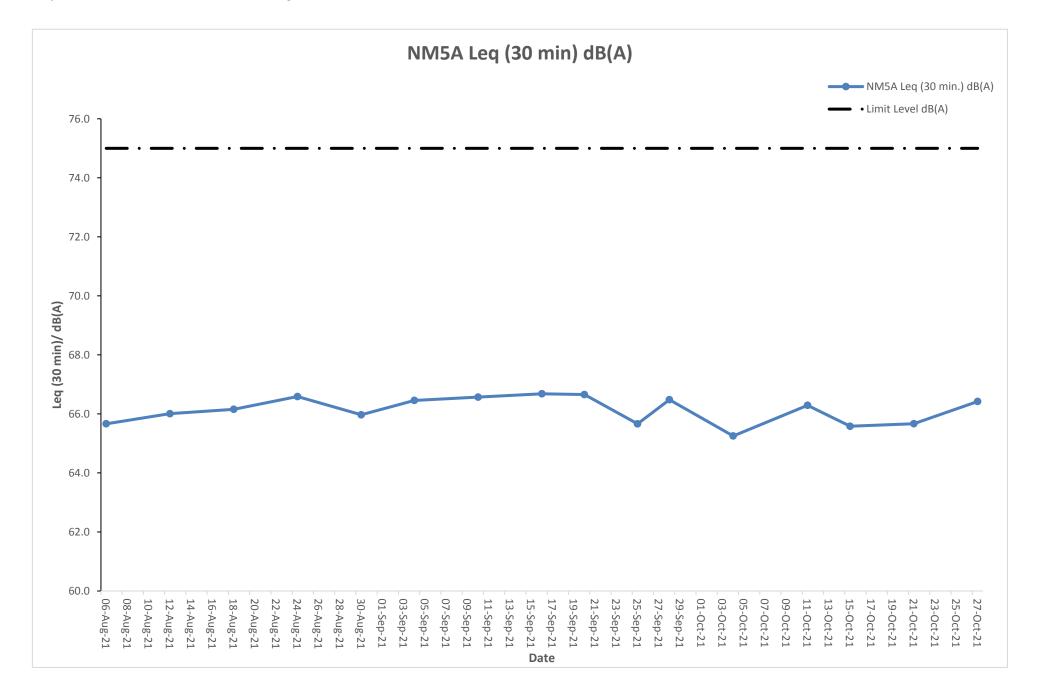
Remarks:

+3dB(A) correction was applied to free-field measurement.





The station set-up of a free-field measurement at station NM5A.



F. Waste Flow table

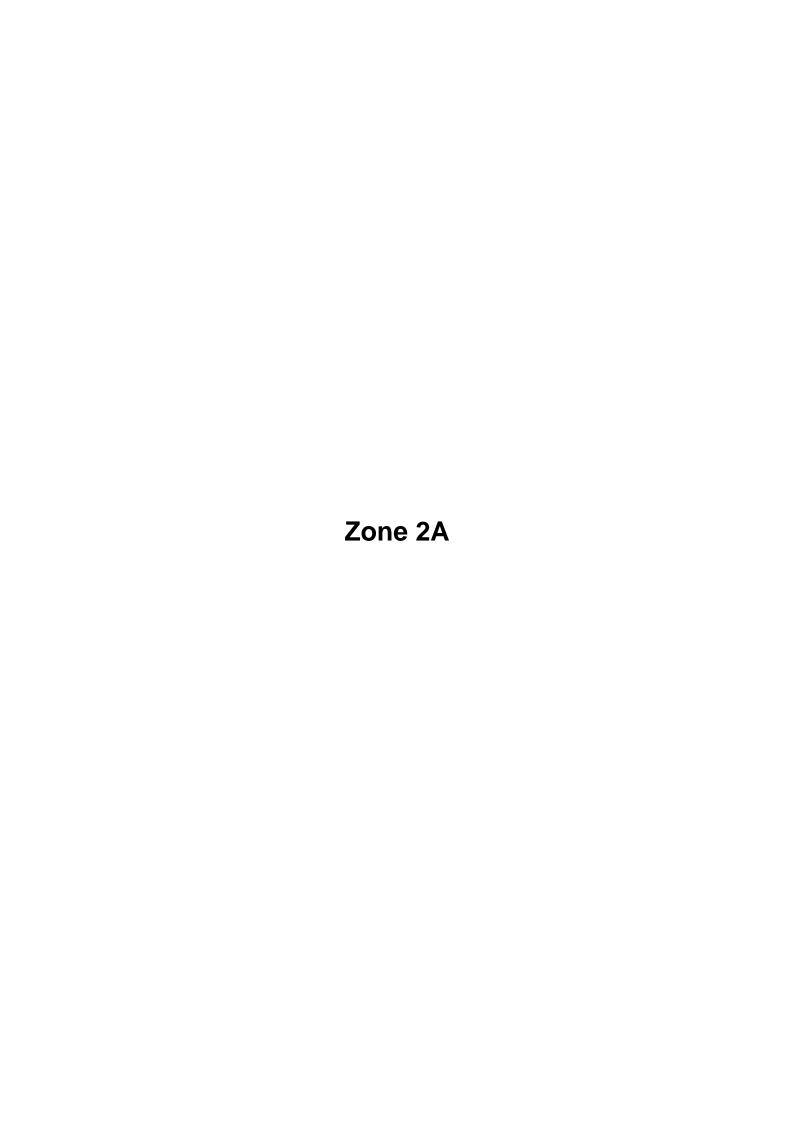


Table F-1: Monthly Waste Flow Table for Zone 2A

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Materials Generated Monthly						
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete		Reused in other Projects	Disposed as Public Fill	Disposed to Sroting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)		(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2020	,	,			,	,	,	,	,	,	,	,	,
Oct	2623.48	0.00	0.00	0.00	2623.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.94
Nov	8838.69	0.00	685.23	1198.56	6954.90	0.00	1194.93	0.00	0.00	0.00	0.00	0.00	17.49
Dec	8890.70	0.00	510.59	1675.21	6704.90	0.00	51.51	0.00	0.00	0.00	0.00	0.00	11.75
Sub-total (2020)	20352.87	0.00	1195.82	2873.77	16283.28	0.00	1246.44	0.00	0.00	0.00	0.00	0.00	51.18
2021													
Jan	6849.66	0.00	52.90	0.00	6796.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.94
Feb	4591.95	0.00	0.00	0.00	4591.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.11
Mar	7318.44	0.00	0.00	339.94	6978.50	0.00	0.00	75.57	0.00	0.00	0.00	0.20	15.79
Apr	7208.22	0.00	0.00	1109.51	6098.71	0.00	0.00	0.00	0.00	0.00	0.00	0.40	19.29
May	7976.23	0.00	0.00	1853.51	6122.72	0.00	0.00	125.49	0.00	0.00	0.00	0.20	18.43
Jun	7741.45	0.00	0.00	1989.41	5752.04	0.00	0.00	4.53	0.00	0.00	0.00	0.00	18.65
Jul	8067.17	0.00	0.00	1289.08	6778.09	0.00	0.00	4.11	0.00	0.00	0.00	0.20	147.95
Aug	6530.27	0.00	0.00	1082.63	5447.64	0.00	0.00	10.70	0.00	0.00	0.00	0.40	18.85
Sep	3645.12	0.00	0.00	192.81	3452.31	0.00	0.00	0.00	0.00	0.00	0.00	0.40	16.81
Oct	2158.48	0.00	0.00	0.32	2158.16	0.00	0.00	0.00	0.00	0.00	0.00	0.20	13.30
Nov	0.00												
Dec	0.00												
Sub-total (2021)	62086.99	0.00	52.90	7857.21	54176.88	0.00	0.00	220.40	0.00	0.00	0.00	2.00	305.12
Total	83686.30	0.00	1248.72	10730.98	70460.16	0.00	1246.44	220.40	0.00	0.00	0.00	2.00	356.30

Note:

- 35.81 tonnes, 1538.68 tonnes, 9483.62 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 Public Fill, and Tuen Mun Area 38 respectively in the reporting quarter.
- For inert C&D materials reused in other projects, the projects refer to (1) EcoPark at Tuen Mun, (2) Green Valley and (3) DD41 at Sha Tau Kok.

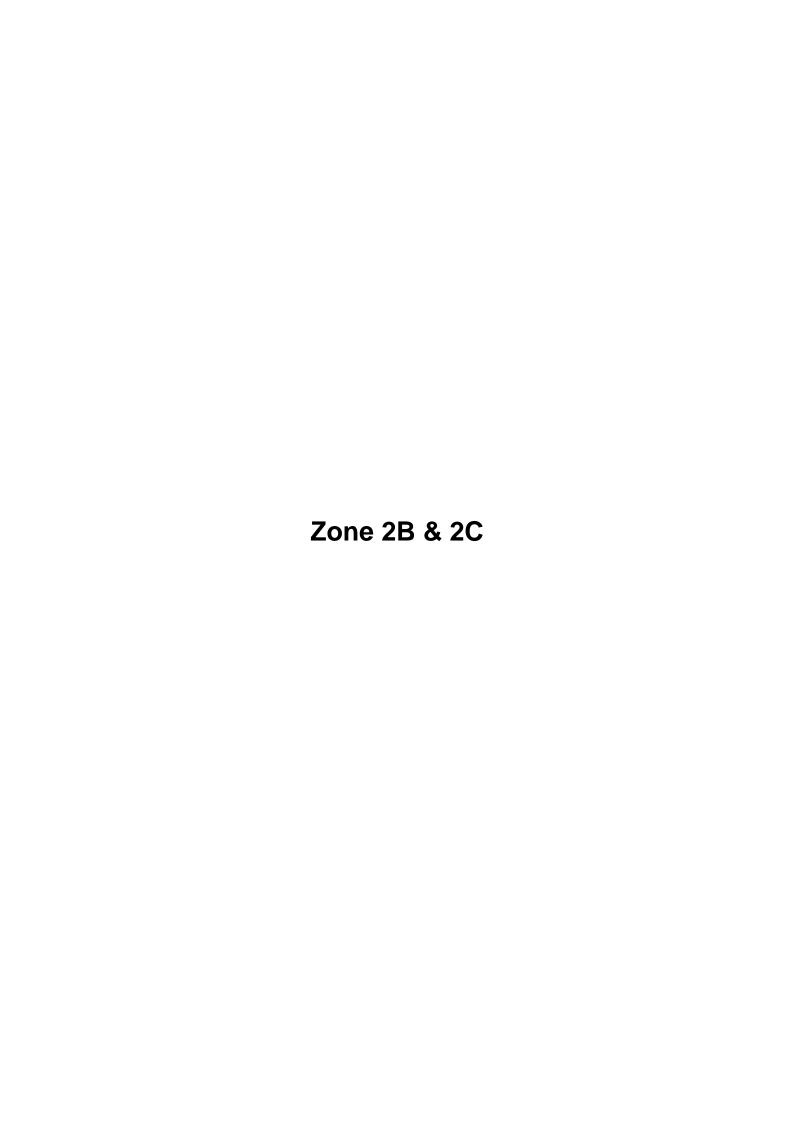


Table I-2: Monthly Waste Flow Table for Zone 2B & 2C

	A	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Materials Generated Monthly				
Month	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sroting Facility	Imported Fill	Metals	Paper/ Cardboard Packaging	Plastics	Wood/ Timber	Chemical Waste	Others, e.g. General Refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
2021													
Sep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	60.33	0.00	37.75	0.00	22.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.19
Nov						·	·						
Dec													
Total	60.33	0.00	37.75	0.00	22.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.19

Note:

- 22.58 tonnes of inert C&D material were disposed of as public fill to Tuen Mun Area 38 in the reporting quater.

G. Cumulative Statistics on Complaints, Notifications of Summons and Successful Prosecutions

Cumulative statistics for complaints, notifications of summons and successful prosecutions for the Project account for period starting from the date of commencement of construction works (i.e. 3 October 2020 for Zone 2A Foundation, Excavation and Lateral Support Works; 30 September 2021 for Zone 2B & 2C Piling Works) to the end of the reporting quarter and are summarized in the Table G-1 and Table G-2 below respectively.

Table G-1: Statistics for complaints, notifications of summons and successful prosecutions for Zone 2A Foundation, Excavation and Lateral Support Works

Reporting Period		Cumulative Statistics	
	Complaints	Notifications of summons	Successful prosecutions

			Carococcian proceedancing	
This reporting quarter	6	0	0	
(Aug 21 – Oct 21)	0	U	0	
From 03 October 2020 to	17	0	0	
end of the reporting quarter	17	U	U	

Table G-2: Statistics for complaints, notifications of summons and successful prosecutions for Zone 2B & 2C Piling Works

Reporting Period	Cumulative Statistics
Reporting Ferrod	Cumulative Statistics

	Complaints	Notifications of summons	Successful prosecutions	
This reporting quarter	2	0	0	
(Aug 21 – Oct 21)	2 0		U	
From 30 September 2021 to	2	0	0	
end of the reporting month	2	U		

END OF THE REPORT