

Development at West Kowloon Cultural District

**Quarterly Environmental Monitoring and Audit (EM&A) Report
(August 2022 – October 2022)**

November 2022

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

Certified by:



CK WU

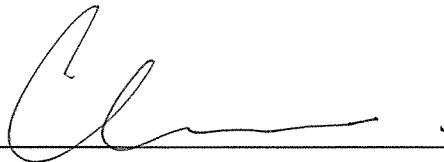
Environmental Team Leader (ETL)

West Kowloon Cultural District Authority

Date

01 December 2022

Verified by:



Claudine LEE

Independent Environmental Checker (IEC)

Meinhardt Infrastructure and Environment Ltd

Date

5 December 2022

This Report Consists of:

Part-1: EM&A at Lyric Theatre Complex

and

**Part-2: EM&A for Foundation and ELS
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 2022 to 31 October 2022. 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 quarter.

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 2022 to 31 October 2022. 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
- ASDA and Lyric Theatre Promenade
 - Structure and BS works
 - Hoarding works
- DSC cofferdam (Cofferdam A)
 - Backfill and const. additional blinding layer & retaining wall
 - Excavation
- Extended basement
 - ABWF & MEP work
 - Cabling works
 - RC water tank
 - Late cast RC works (top slab/ backfill sunken etc.)
 - Carpark area plaster and paint
 - Doors permanent frames
- Underpass and Associated Area
 - RC Structure
 - ABWF & MEP work
- M+ Day 2 Works
 - Remove plenum block wall & make good opening for Louvre
- P32 Interim Development
 - Construct dog houses
 - RC works

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/m ³	260 µg/m ³
	1-Hour TSP	AM1 - International Commerce Centre	At least 3 times every 6 days	273.7 µg/m ³	500 µg/m ³
	24-Hour TSP	AM2 - The Harbourside Tower 1	At least once every 6 days	151.1 µg/m ³	260 µg/m ³
	1-Hour TSP	AM2 - The Harbourside Tower 1	At least 3 times every 6 days	274.2 µg/m ³	500 µg/m ³
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

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	12	70	33
	AM2	21	72	43
24 hour TSP	AM1	7	26	16
	AM2	16	49	24
Construction Noise				
Leq(30min)	NM1A	66	68	67

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 Exceedance		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), 768.2 tonnes, 528.3 tonnes and 0.0 tonne 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 1,111.9 tonnes of general refuse were disposed of at SENT and WENT landfill. 34.9 tonnes of metals, 0.4 tonnes of paper/cardboard packaging, 0.2 tonnes 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. 0.0 tonne 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: two complaints in August, two complaints in September and two complaints in October. No notifications of summons and successful prosecutions were received in the reporting quarter.

On 23 August 2022, the EPD received a complaint regarding polluted water discharge at WKCD construction site, and the complaint was referred by EPD on 24 August 2022. The complainant claimed that the WKCD construction site near to Tsim Sha Tsui was discharging polluted water to the water body on 21 August 2022 (Sunday). Photos were also provided by the complainant showing the situation. As from the photos provided by the complainant, the concerned location was not within the boundary of Lyric Theatre Complex (L2 Contract), and no construction works was undertaken on 21 August 2022 (Sunday). As concluded from the above investigation and findings, it could not directly imply the complaint was attributable to Lyric Theatre Complex (L2 Contract). However, the contractor is reminded to strictly implement and maintain good site practices to avoid water pollution to the water body of Victoria Harbour.

On 26 August 2022, a complaint regarding construction noise, dust and visual impact at the WKCD construction site was received via the dedicated website. On 29 August 2022, the same complaint was received by the EPD and the complaint was referred on the same day. A video was also provided by the complainant illustrating the noise impact from the construction site. The complainant claimed that construction works were commenced from 7:00 a.m. and continued after 6:00 p.m., that the construction noise at early morning and dust impact have disturbed the complainant's living. Also, the complainant claimed that the construction site was not yet closed at around 6:00 to 7:00 p.m., that the strong lighting disturbed nearby residents, with the tall crane seriously affecting the view from the flat.

From the information provided by the contractor, the major construction activities for Lyric Theatre Complex (L2 Contract) were carried out between 8:00 a.m. and 7:00 p.m. which is compliant with the statutory requirement, with the potential noisy works scheduled after 9:00 a.m. to minimise the impact to nearby residents. Preventive and mitigation measures for noise, dust and visual impacts are well-deployed and maintained by the Contractor. The regular environmental monitoring results for air quality and noise were also well below the action/limit levels such that the construction works of Lyric Theatre Complex (L2 Contract) should not be posing significant impacts to the nearby sensitive receivers. As concluded from the above investigation and findings, it could not directly imply the complaint was attributable to Lyric Theatre Complex (L2 Contract). However, the contractor is reminded to strictly implement and maintain good site practices to avoid noise, dust and visual impact to the nearby residents and sensitive receivers.

On 4 September 2022, the EPD received a complaint regarding polluted water discharge at the WKCD construction site on 26 July 2022, and the complaint was referred by the EPD on 5 September 2022. The complainant has provided photos showing the situation. From the information provided by the contractor, no construction activities involving muddy materials or muddy water discharge were undertaken on 26 July 2022. And from the daily self-checking on the effluent quality, the wastewater was properly treated and was within compliance, and various mitigation measures and trainings were properly implemented. From the on-site observation and prompt investigation during the site inspection on 27 July 2022, the brownish layer with bubbles

observed was believed to be due to natural fluctuation or algae bloom in hot weather, and the white splash was believed to be due to the elevated outflow of water from M+ cooling main, which was not related to the construction works of Lyric Theatre Complex (L2 Contract). As concluded from the above investigation and findings, it could not directly imply the complaint was attributable to Lyric Theatre Complex (L2 Contract). However, the contractor is reminded to strictly implement and maintain good site practices to avoid water pollution to the water body of Victoria Harbour.

On 8 September 2022, the EPD has received a complaint from nearby resident regarding noise impact, and the complaint was referred by the EPD on the same day. The complainant claimed that the piling works of WKCD Zone 3B construction site commenced from 7:00 a.m. which was too early. From the information provided by the contractor, the major construction activities for Lyric Theatre Complex (L2 Contract) were carried out between 8:00 a.m. and 7:00 p.m. which is compliant with the statutory requirement. Preventive and mitigation measures are well-deployed and maintained by the Contractor including noise insulating fabric for breaking works. And from the regular noise monitoring results, the results were well below the action/limit levels such that the construction works of Lyric Theatre Complex (L2 Contract) should not be posing significant impacts to the nearby sensitive receivers.

On 7 October 2022, the EPD and Communications and Public Affairs Department of WKCD have received a complaint from nearby resident regarding noise impact, and the complaint was referred by the EPD on the same day. The complainant claimed that large machineries were operating starting from 7:00 a.m., and loud construction noise was still being heard till 8:00 p.m. A video was provided by the complainant to demonstrate the situation. The complainant demanded that no high intrusive construction works should be undertaken before 9:00 a.m. and after 7:00 p.m. as well as on public holidays. From the information provided by the contractor, the major construction activities for Lyric Theatre Complex (L2 Contract) were carried out between 8:00 a.m. and 7:00 p.m. which is compliant with the statutory requirement. The potential noisy works (e.g. breaking) were rescheduled after 9:00 a.m. to minimise the potential impact to the nearby residents. Preventive and mitigation measures are well-deployed and maintained by the Contractor including noise insulating fabric for breaking works, as well as regular briefings and meetings with subcontractors. And from the regular noise monitoring results, the results were well below the action/limit levels such that the construction works of Lyric Theatre Complex (L2 Contract) should not be posing significant impacts to the nearby sensitive receivers.

On 29 October 2022, EPD received a complaint from the office of District Councillor Mr. Derek Hung regarding construction noise at WKCD construction site, and the complaint was referred by EPD on 31 October 2022. The complainant (nearby residents) claimed that construction works were undertaken at the WKCD construction site at 10:00 p.m., such that the construction noise affects residents' living. A video clip was also provided to demonstrate the construction noise. The complainant also demanded the Contractors to reinforce the noise insulation measures and avoid undertaking noisy works before 9:00 a.m. and after 7:00 p.m. It was concluded that the complaint was not related to Lyric Theatre Complex. As confirmed by the Contractor, no construction works were carried out after 7:00 p.m. on 28 October 2022, such that there was no possible noise source that would generate construction noise. Moreover, as from the video provided by the complainant, the concerned area was not within the boundary of Lyric Theatre Complex (L2 Contract), hence it could not directly imply the complaint was attributable to Lyric Theatre Complex.

As concluded from the above investigation and findings, it could not directly imply the noise-related complaints were attributable to Lyric Theatre Complex (L2 Contract). However, the contractor is reminded to strictly implement and maintain good site practices to avoid noise impact to the nearby residents and sensitive receivers.

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

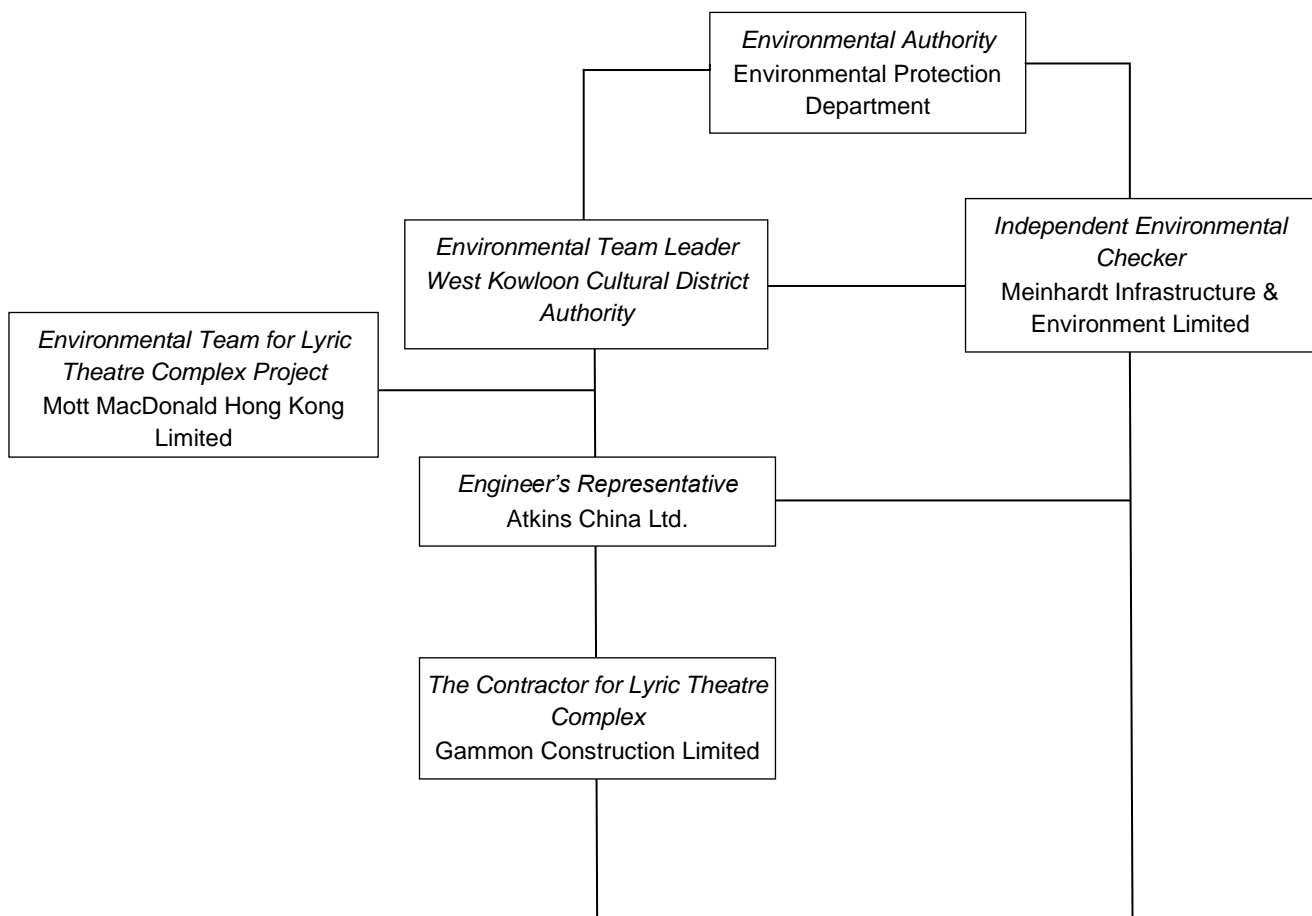


Table A-1: Contact information

Company Name	Role	Name	Telephone	Email
Atkins China Ltd.	Project Manager	Mr. Simha LytheRao	2204 8259	Simha.Lytherao@atkinglobal.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@wkcd.a.hk

B. Construction Programme

ID	Activity	RD	BL_Rev_00 Start	BL_Rev_00 Finish	BL_Rev_02 Start	BL_Rev_02 Finish	Start	Finish	LoE SUMM TF (approx, not for use)	2020		2021		2022		2023		2024		2025	
										D	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
L2 CMWP_R02_05 - IFA on 27Apr22 - ***LIVE*** (22nd UPD; DD = 31Jul2022)																					
GENERAL & PRELIMINARIES																					
Contract Significant Dates																					
Commencement & Completion Dates - CMWP_Rev_01																					
Section Keydates																					
KD05A	Complete Required Pedestrian Access Corridor and Floor Finishes at AURW	0		28-Feb-21		12-Nov-21		12-Nov-21 A													
KD05B	Complete Required Pedestrian Access Corridor & associated top slab at Avenue Level [if instructed]	0		14-Feb-21		12-Nov-21		12-Nov-21 A													
KD05C	PC for HO of Landscape Area at Avenue & Pedestrian level between P31 & P34 [if instructed]	0		28-Feb-21		05-Oct-22		30-Mar-23*	-176												
KD05	PC for HO of the Remaining Works for M+ Promenade South	0		24-Aug-20		13-Jan-23		03-May-23*	-110												
KD08	PC for HO Loc ICT/Risers Rms to APC for ICT Sys Instr Wks	0		10-Feb-23		10-Sep-24		04-Dec-24*	-85												
KD10	PC for HO of ASDA, Lyric Theatre Promenade South to Authority	0		10-Feb-23		10-Sep-24		04-Dec-24*	-85												
KD09	PC for HO of RDE areas for Tenancy Fit-out Wks	0		10-Feb-23		10-Sep-24		04-Dec-24*	-85												
KD11	PC for HO of Extended Basement for HO to Authority & HO of Carriageway to Relevant Govt Authority	0		10-Feb-23		12-Nov-24		10-Feb-25*	-90												
KD07	PRACTICAL COMPLETION for CWay 3A (M+ Day 2 Works)	0		10-Feb-23		09-Dec-24		08-Mar-25*	-57												
KD13	PRACTICAL COMPLETION for Lyric Theatre, EB & CWay 3B (Incl. Provisional PPE License)	0		08-Sep-23		10-Jan-25		08-Apr-25*	-88												
Stage Keydates																					
KD01	Compl Dsgn Coord/Subm and obtn NNO for L1 Contr Bsmt constn wrks	0		20-Jul-19		20-Jul-19		20-Jul-19 A													
KD06	PC for Fountain Related Plantroom(s) (allow access to Project Contractor)	0		01-Apr-21		07-Jun-22		03-Sep-22*	-88												
KD03	OBTAIN OP for Lyric Theatre & Extended Basement	0		12-Dec-21		10-Sep-24		04-Dec-24*	-85												
KD14	Complete U/G road and the associated plantrooms at Zone 3A&3B Integrated Basement	0		04-Aug-22		26-Sep-24		19-Dec-24*	-84												
KD02	Obtain BA14 Acknowledge from BD for M+ Day2 A&A Works	0		12-Dec-22		08-Nov-24		06-Feb-25*	-90												
CMWP - Summary Program - Level 1																					
SUM10	[LoE] CC_B Lyric Theatre - Substructure RC Structural Concrete	0			06-May-20	22-Jan-22	06-May-20 A	22-Jan-22 A													
SUM30	[LoE] CC_H - Vibration Isolation Spring System Remaining as of 30Apr2020 (AS=30Sep19)	0			09-May-20	10-Feb-21	09-May-20 A	10-Feb-21 A													
SUM25	[LoE] CC_E - DCS Cofferdam A Works & Obtain BA14	299			23-Jun-20	23-May-23	23-Jun-20 A	05-Sep-23	-40												
SUM24	[LoE] CC_D - Remaining Works for M+ Promenade South	209			18-Feb-21	13-Jan-23	18-Feb-21 A	03-May-23	-81												
SUM21	[LoE] CC_C - LT EVA1 & EVA2	620			12-Apr-21	09-Sep-24	12-Apr-21 A	12-Nov-24	118												
SUM27	[LoE] CC_G Extended Basement - ABWF Works (Incl. Deferred Areas Under Deck)	488			15-May-21	02-Feb-24	15-May-21 A	27-Mar-24	174												
SUM28	[LoE] CC_G Extended Basement - MEP 1st Fix to Final Fix (Incl. Deferred Areas Under Deck)	470			17-May-21	12-Jan-24	17-May-21 A	06-Mar-24	1												
SUM14	[LoE] CC_B Lyric Theatre - ABWF Work Including Theatres (Excl. Punch List Works)	719			28-May-21	14-Oct-24	28-May-21 A	07-Jan-25	3												
SUM35	[LoE] CC_J - M+ Day 2 Works (excl. connections to M+ and SZ_1 FS Changeover)	609			03-Jun-21	25-Jun-24	03-Jun-21 A	24-Aug-24	-30												
SUM23	[LoE] CC_C - Artist SQ Bridge (ASB_1/2/3; ASB_3; P31_2; P34_2; AS_1/2; ASB-6/P31 EVA)	510			21-Jun-21	22-May-24	21-Jun-21 A	13-Jun-24	228												
SUM15	[LoE] CC_B Lyric Theatre - MEP 1st to Final Fix (Excl. TH SYS done by SVE)	737			22-Jun-21	04-Nov-24	22-Jun-21 A	28-Jan-25	-33												
SUM11	[LoE] CC_B Lyric Theatre - Superstructure RC Structural Concrete	318			02-Jul-21	22-Jul-23	02-Jul-21 A	04-Oct-23	-6												
SUM22	[LoE] CC_C - HoR Development (P32-1, P29-1, P31-EVA)	510			03-Aug-21	17-Apr-24	03-Aug-21 A	13-Jun-24	64												
SUM31	[LoE] CC_I Carriageway 3B - ABWF Works	257			12-Aug-21	01-Apr-23	12-Aug-21 A	15-Jun-23	379												
SUM42	[LoE] CC_E - DCS Outside of Cofferdam A Works (Connect DIA1,600 & Remove Temp O'fall)	359			08-Sep-21	29-Sep-23	08-Sep-21 A	24-Nov-23	-25												
SUM32	[LoE] CC_I Carriageway 3B - MEP Works (1st Fix to Final Fix)	221			22-Mar-22	13-Feb-23	15-Sep-21 A	03-May-23	214												
SUM40	[LoE] CC_N Lifts & Escalators	492			14-Dec-21	02-Feb-24	14-Dec-21 A	05-Apr-24	45												
SUM41	[LoE] CC_B Lyric Theatre - Structural Steel by CSD	378			04-Mar-22	20-Oct-23	11-Mar-22 A	16-Dec-23	-30												
SUM26	[LoE] CC_F - Mods to Existing Pump Cell Civil & MEP Works (Excl. Options 2 Add. Pumps)	146			01-Mar-22	26-Sep-22	02-Sep-22 A	10-Mar-23	87												
SUM17	[LoE] CC_B Lyric Theatre - TH Systems (by SVE) Incl. T&C, Precom. & Commissioning	713			30-Aug-22	25-Nov-24	19-Sep-22 A	22-Feb-25	-33												
SUM12	[LoE] CC_B Lyric Theatre - EWS Weather Tight Type	294			25-Jun-22	09-Sep-23	14-Oct-22 A	09-Nov-23	25												
SUM20	[LoE] CC_C - LT Promenade & Pocket Square Bridge	512			04-Aug-22	31-Jul-24	28-Nov-22 A	22-Oct-24	-28												
SUM29	[LoE] CC_G Extended Basement - T&C	275			03-Jan-23	02-Feb-24	24-Apr-23 A	27-Mar-24	1												
SUM13	[LoE] CC_B Lyric Theatre - EWS Non-Weather Tight Type 4.1 & 4.3	294			23-Mar-23	25-Mar-24	02-May-23 A	30-May-24	46												
SUM33	[LoE] CC_I Underpass 3B & Associated Area - T&C	161			13-Apr-23	25-Oct-23	27-Jun-23 A	08-Jan-24	63												
SUM39	[LoE] CC_K - Water Main at Promenade	143			24-May-23	08-Jan-24	07-Sep-23 A	11-Mar-24	-30												
SUM16	[LoE] CC_B Lyric Theatre - T&C (Excluding Non-FSD ELV & Electrical)	147			12-Dec-23	11-Jun-24	01-Mar-24 A	28-Aug-24	-5												
SUM18	[LoE] CC_B Lyric Theatre, EB, CWay 3B - Stat. Insp. & Approval (from Form 314/501 to BD OP)	98			17-May-24	10-Sep-24	09-Aug-24 A	04-Dec-24	-70												
SUM38	[LoE] CC_J - M+ Day 2 FS Changeover in 3A SZ_1, Connections to M+, Integrated T&C	51			29-Jul-24	26-Sep-24	22-Oct-24 A	19-Dec-24	-70												
SUM34	[LoE] CC_J Carriageway 3A - Stat. Insp. & Approvals (from Form 314A to BA14)	56			02-Sep-24	08-Nov-24	26-Nov-24 A	06-Feb-25	-70												

	Base Line ACT		Current - Struct Works
	Rev_0KD		Current - MEP Works
	Base Line MS		Current - ABWF Works
	Milestone		Current - Facade Works
	Current - Other Works		Critical Works

L2 CMWP_R02_05 - IFA on 27Apr22 - *LIVE*****
(22nd UPD; DD = 31Jul2022)

Date	Revision	Checked	Approved
08-Aug-22	CMWP_Rev_2_05 - 22nd Update DD 31Jul22	NS	IH

C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
Air Quality Impact (Construction)				
2.1 & 10.3.1	<p>General Dust Control Measures</p> <p>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)</p>	Obs	✓	✓
2.1 & 10.3.1	<p>Best Practice For Dust Control</p> <p>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:</p> <p><i>Good Site Management</i></p> <ul style="list-style-type: none"> • 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. <p><i>Disturbed Parts of the Roads</i></p> <ul style="list-style-type: none"> • 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. <p><i>Exposed Earth</i></p> <ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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. <p><i>Loading, Unloading or Transfer of Dusty Materials</i></p>	Rem, Obs	Obs	Obs
	<ul style="list-style-type: none"> • Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	✓	✓	✓
	<ul style="list-style-type: none"> • Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 	✓	✓	✓
	<ul style="list-style-type: none"> • Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	✓	✓	✓
	<i>Debris Handling</i>			
	<ul style="list-style-type: none"> Any debris should be covered entirely by impervious sheeting or stored in a debris collection area sheltered on the top and the three sides. 	✓	✓	✓
	<ul style="list-style-type: none"> Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 	✓	✓	✓
	<i>Transport of Dusty Materials</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Wheel washing</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Use of vehicles</i>			
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<i>Site hoarding</i>			
	<ul style="list-style-type: none"> 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 & 10.3.1	<p>Best Practicable Means for Cement Works (Concrete Batching Plant)</p> <p>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: Exhaust from Dust Arrestment Plant</p>			

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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
	<p>Emission Limits</p> <ul style="list-style-type: none"> 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
	<p>Engineering Design/Technical Requirements</p> <ul style="list-style-type: none"> 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
	<p>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.</p>	✓	✓	✓
Noise Impact (Construction)				
3.1 & 10.4.1	<p>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:</p> <ul style="list-style-type: none"> 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. 	✓	✓	✓
	<p>Adoption of Quieter PME</p>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
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 & 10.4.1	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.	✓	✓	✓
3.1 & 10.4.1	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.	✓	✓	✓
3.1 & 10.4.1	Use of Noise Insulating Fabric Noise insulating fabric can also be adopted for certain PME (e.g. drill rig, piling 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.	Rem	✓	✓
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 Quality Impact (Construction)				
Construction site runoff and drainage				

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
4.1 & 10.5.1	<p>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:</p> <ul style="list-style-type: none"> 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. 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. 	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>Obs</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓
	<ul style="list-style-type: none"> 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
	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p>			
	<ul style="list-style-type: none"> 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.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 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 & 10.5.1	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.	✓	✓	✓
4.1 & 10.5.1	General construction activities <ul style="list-style-type: none"> 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
Waste Management Implications (Construction)				
6.1 & 10.7.1	Good Site Practices Recommendations for good site practices during the construction activities include:			
	<ul style="list-style-type: none"> 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 	✓	✓	✓
		✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> Provision of sufficient waste disposal points and regular collection of waste 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 	✓	Rem, Obs	Rem
6.1 & 10.7.1	<p>Waste Reduction Measures</p> <p>Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> 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 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 	✓	✓	✓
		✓	Obs	Obs
		✓	✓	✓
		✓	✓	✓
		✓	✓	✓
6.1 & 10.7.1	<p>Inert and Non-inert C&D Materials</p> <p>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.</p> <ul style="list-style-type: none"> 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. 	✓	✓	✓
		✓	✓	✓
		✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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 & 10.7.1	<p>Chemical Waste</p> <ul style="list-style-type: none"> 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. 	✓	✓	Obs
6.1 & 10.7.1	<p>General Refuse</p> <p>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.</p>	✓	✓	✓

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
Land Contamination (Construction)				
7.1 & 10.8.1	<p>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.</p> <p>The following measures are proposed for excavation and transportation of contaminated material:</p> <ul style="list-style-type: none"> To minimize the chance for construction workers to come into contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 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; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; 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; Speed control for trucks carrying contaminated materials should be exercised; 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
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A
		N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
	<ul style="list-style-type: none"> Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A
Ecological Impact (Construction)				
No mitigation measure is required.				
Landscape 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

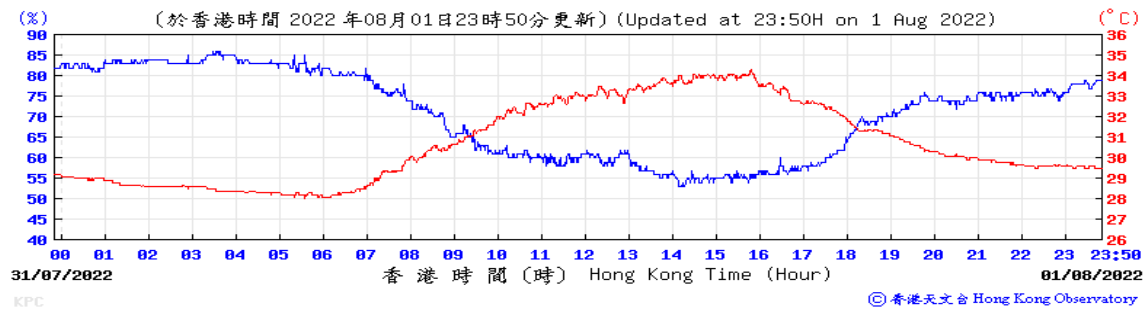
EM&A Ref.	Recommendation Measures	Implementation Stage		
		Aug 2022	L2 Sep 2022	Oct 2022
Table 9.2 & 10.9 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓
Table 9.2 & 10.9 (MCP2)	Early introduction of landscape treatments	N/A	N/A	N/A
Table 9.2 & 10.9 (MCP3)	Adoption of light colour for the temporary 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
✓	-	Implemented
Obs	-	Observed
Rem	-	Reminder

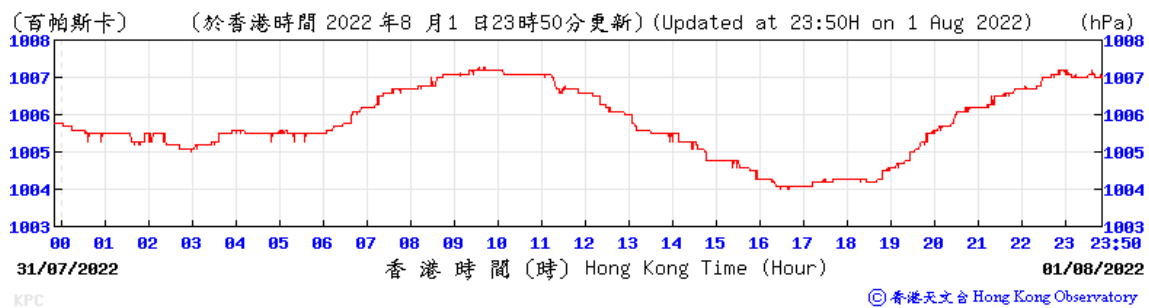
D. Meteorological Data Extracted from Hong Kong Observatory

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

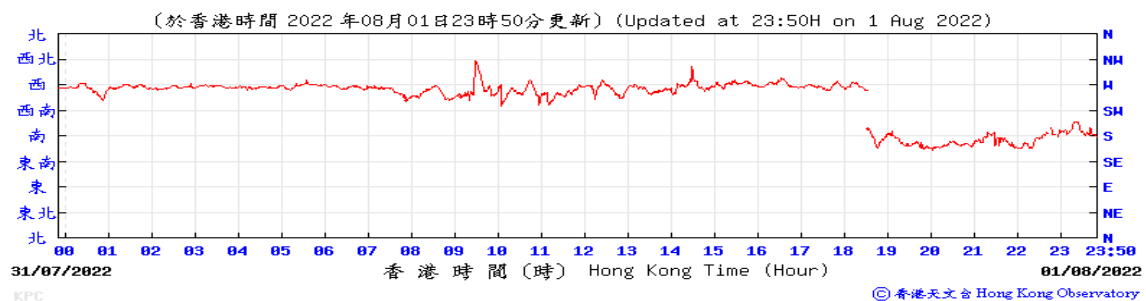
Temperature/Humidity:



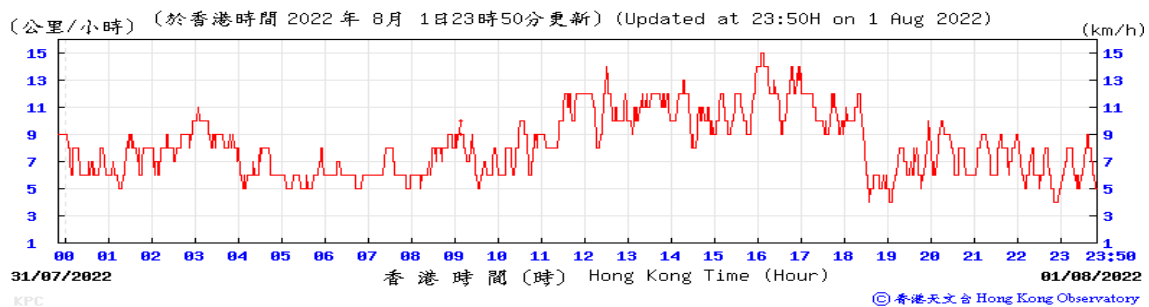
Pressure:



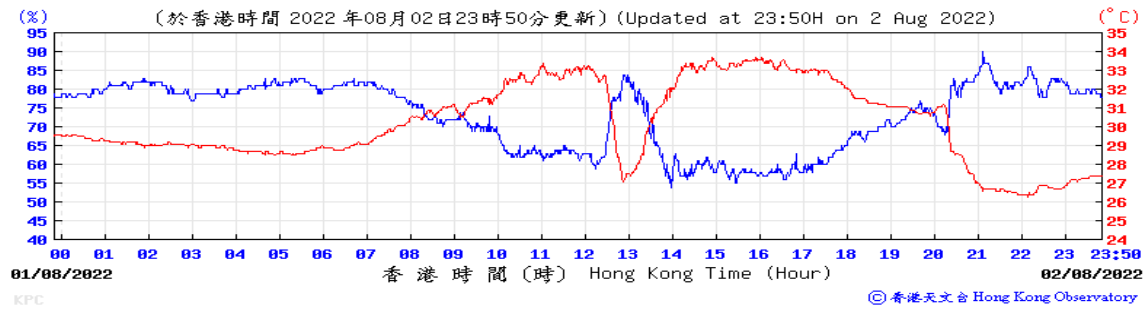
Wind Direction:



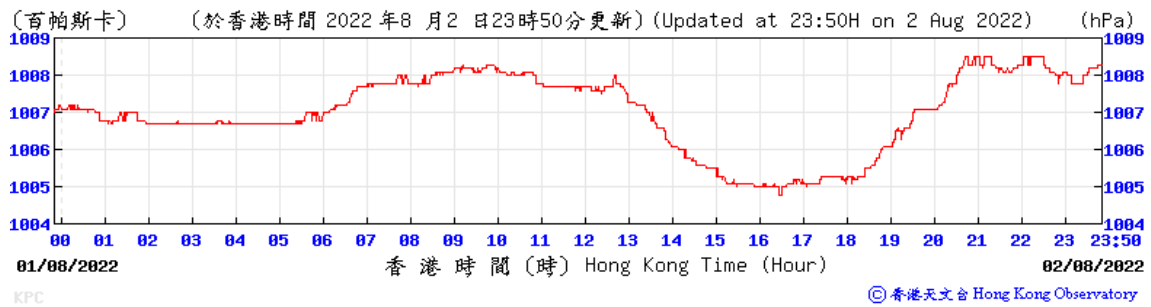
Wind Speed:



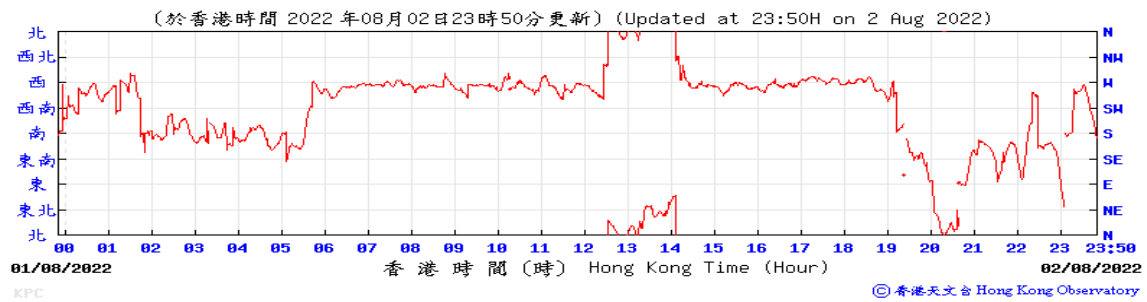
Temperature/Humidity:



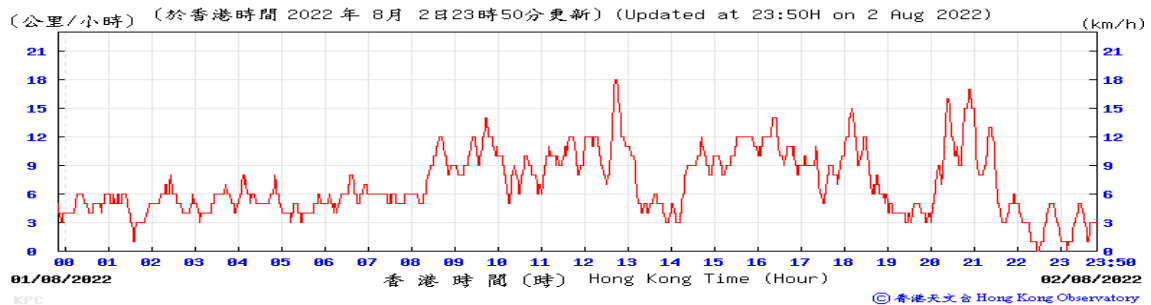
Pressure:



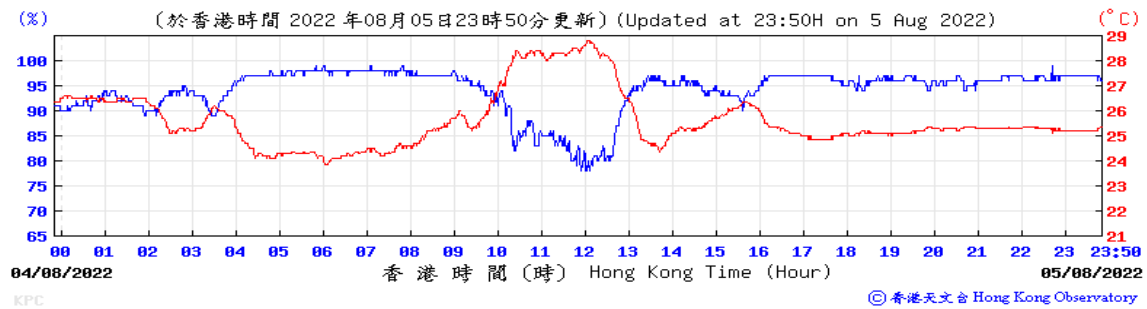
Wind Direction:



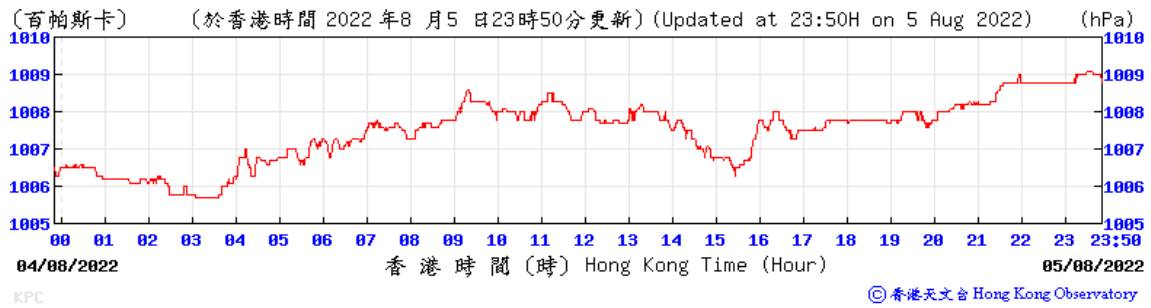
Wind Speed:



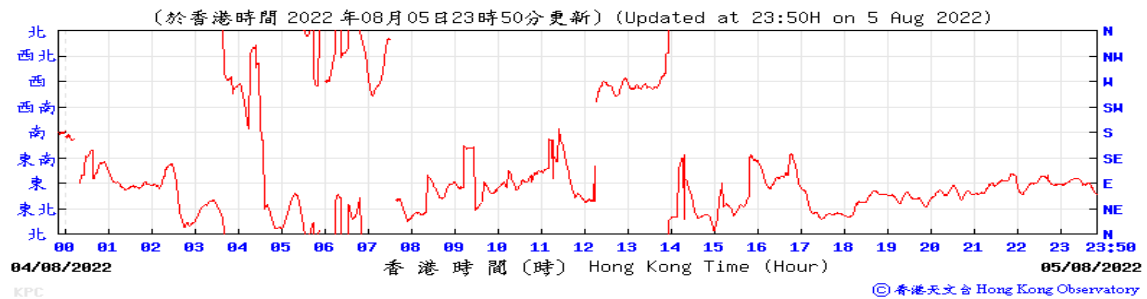
Temperature/Humidity:



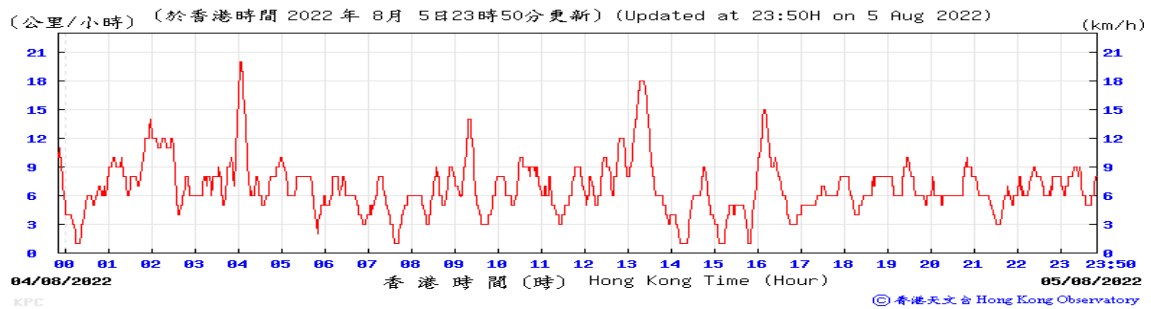
Pressure:



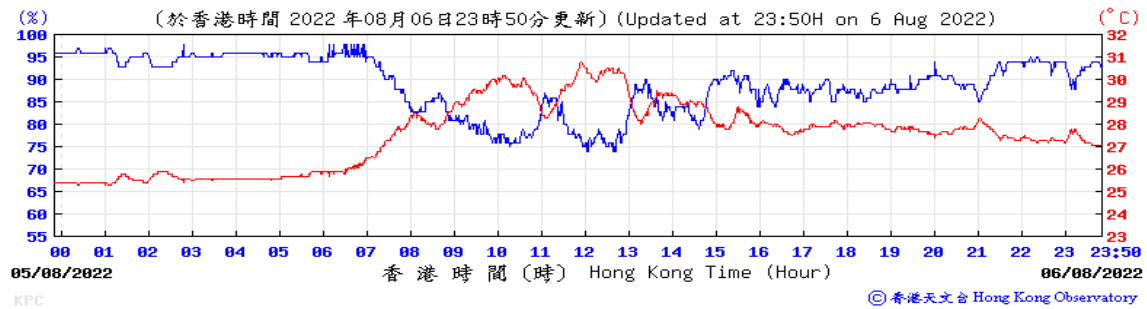
Wind Direction:



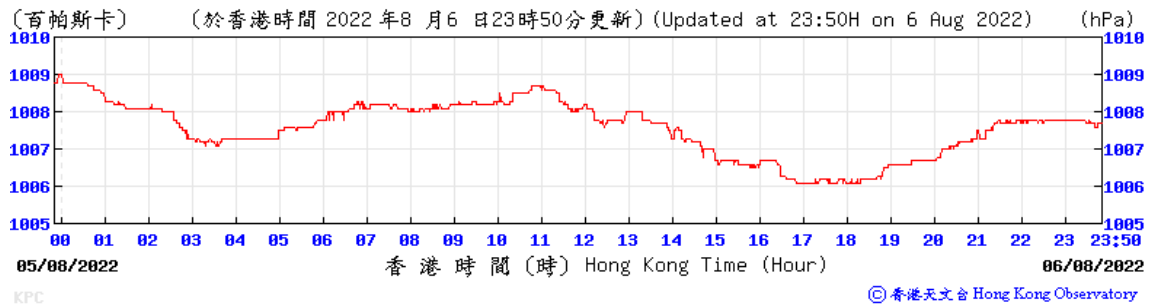
Wind Speed:



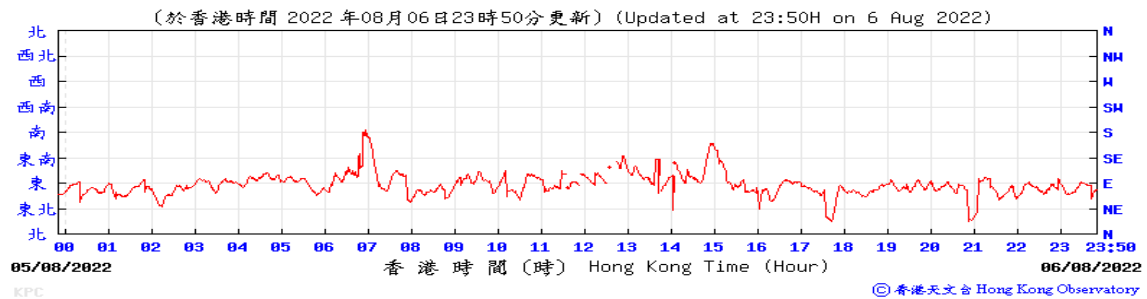
Temperature/Humidity:



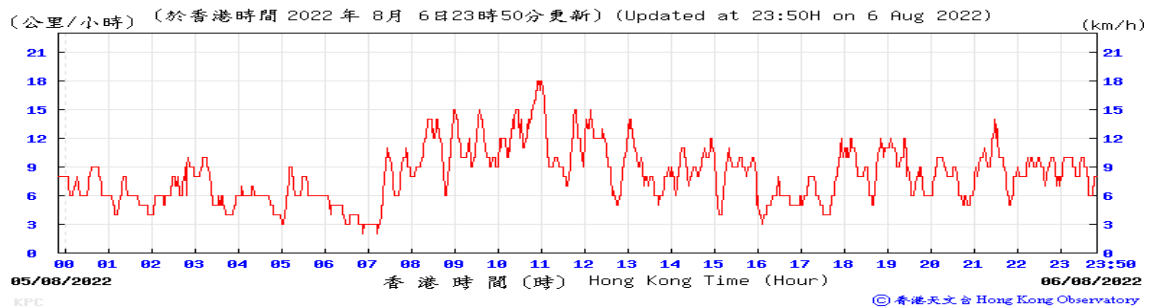
Pressure:



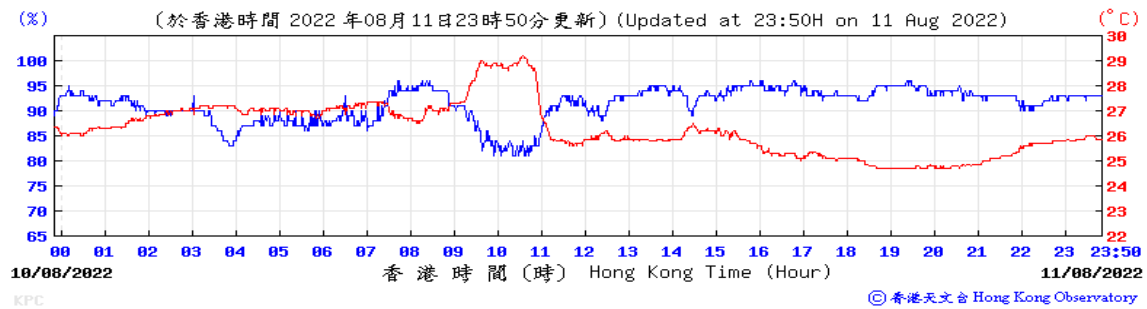
Wind Direction:



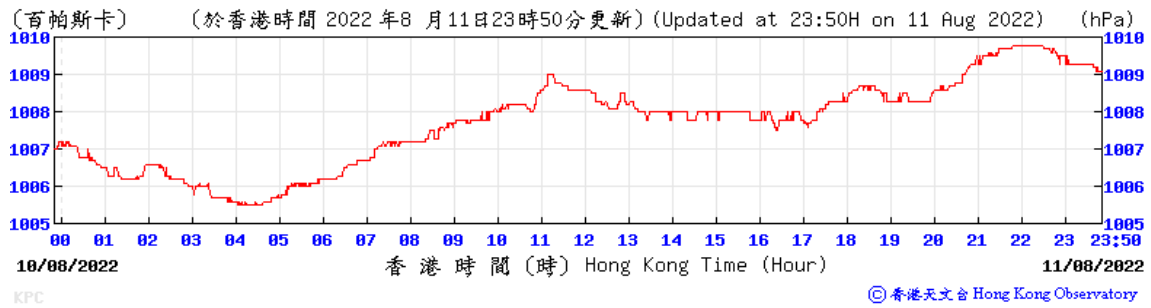
Wind Speed:



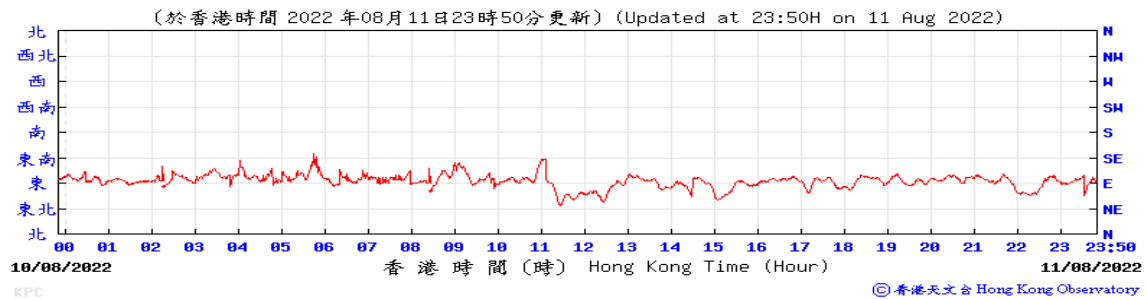
Temperature/Humidity:



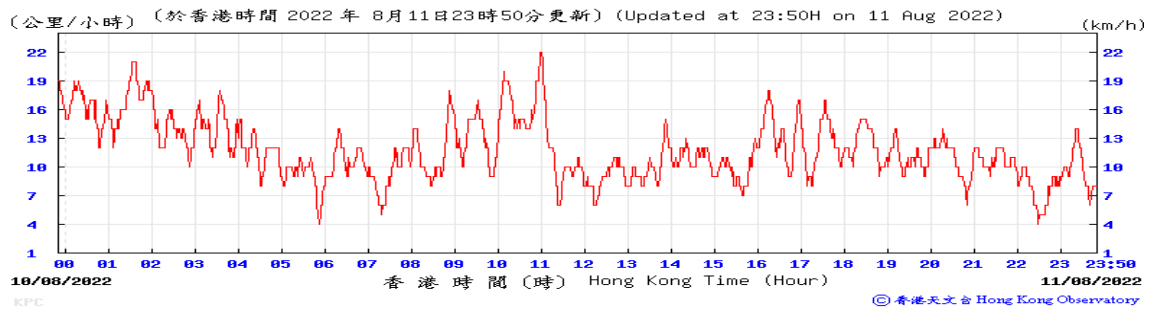
Pressure:



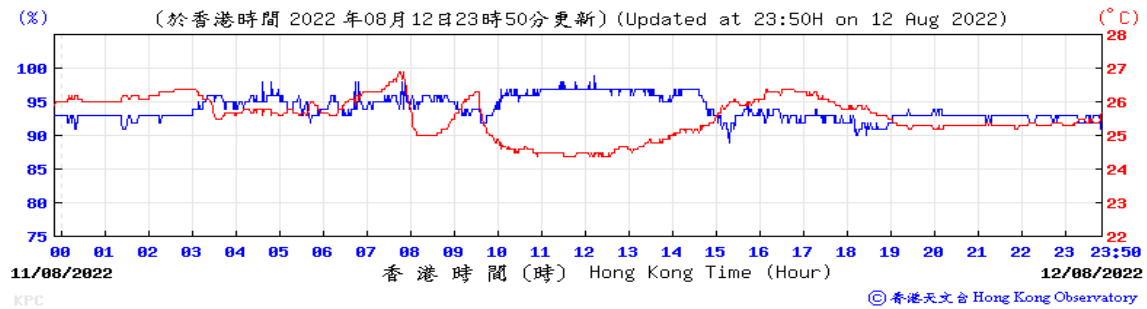
Wind Direction:



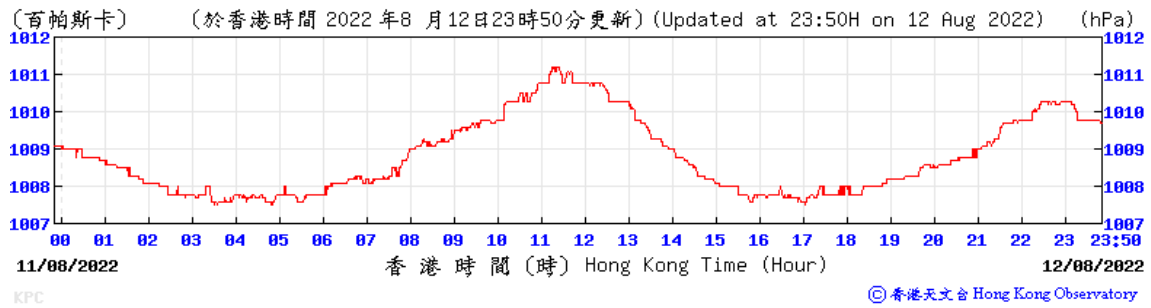
Wind Speed:



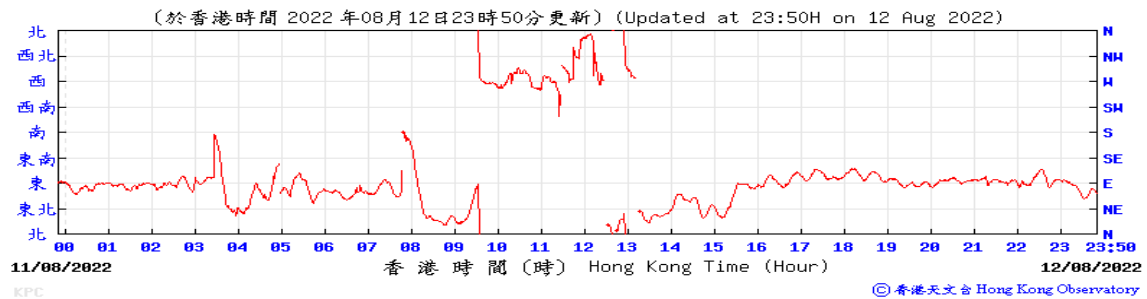
Temperature/Humidity:



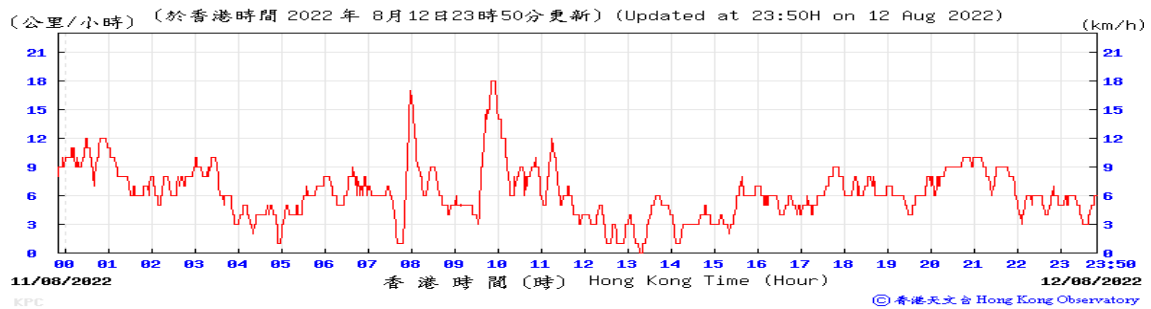
Pressure:



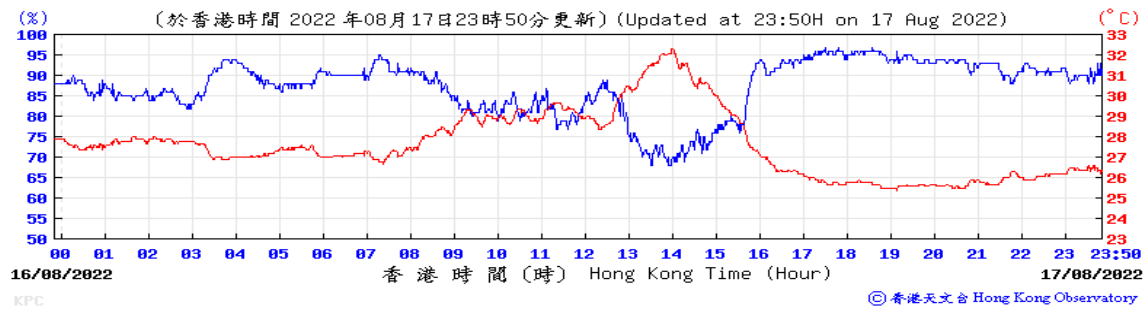
Wind Direction:



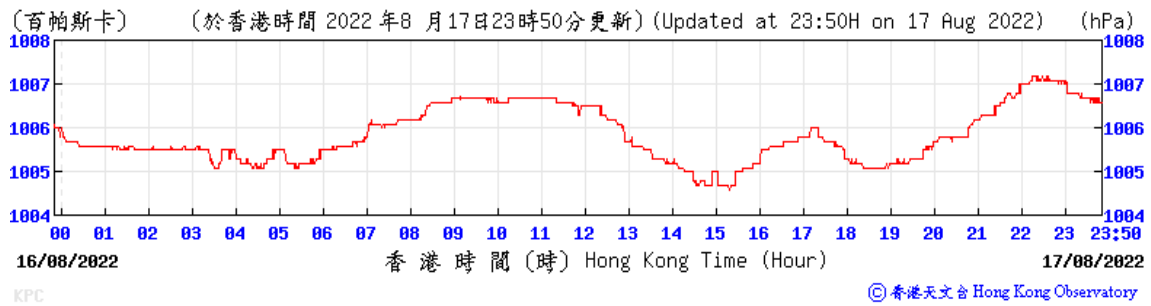
Wind Speed:



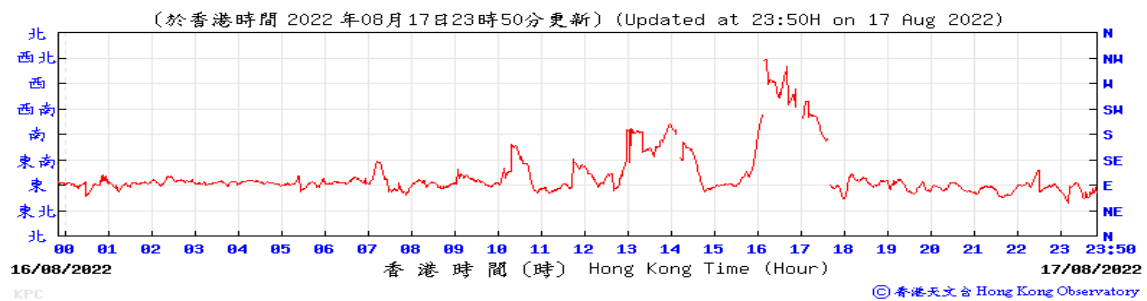
Temperature/Humidity:



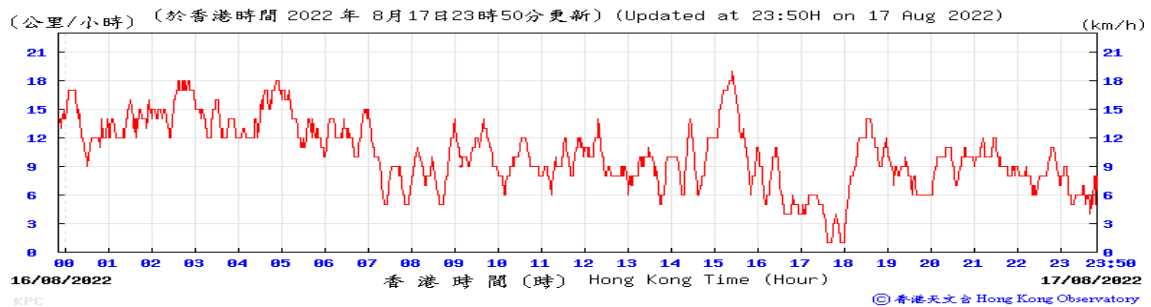
Pressure:



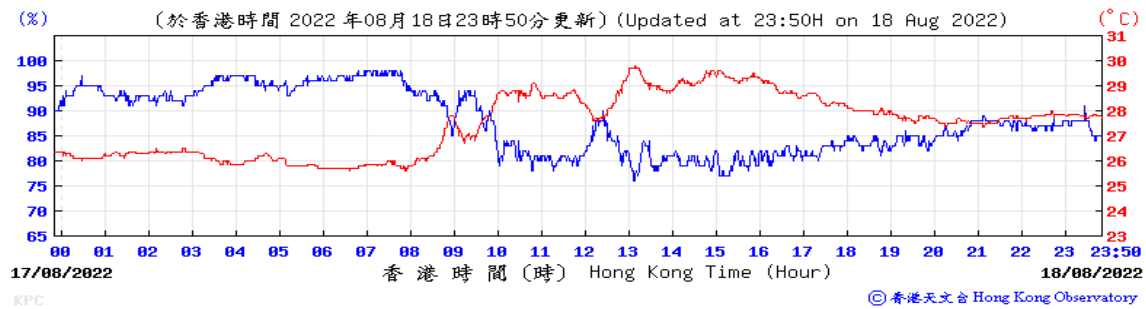
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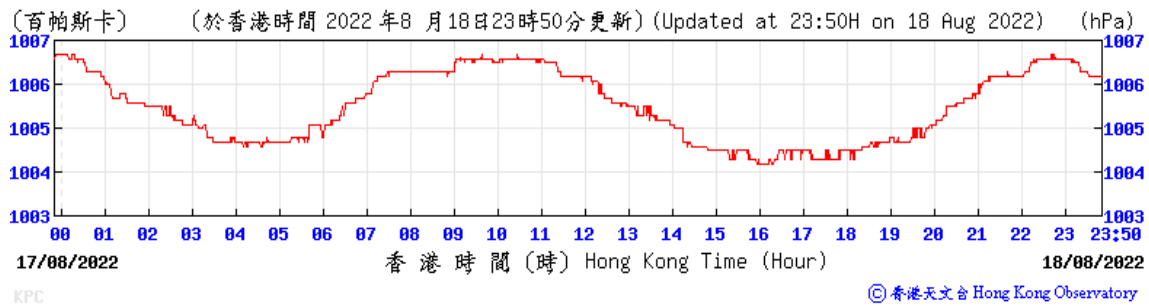
Wind Speed:



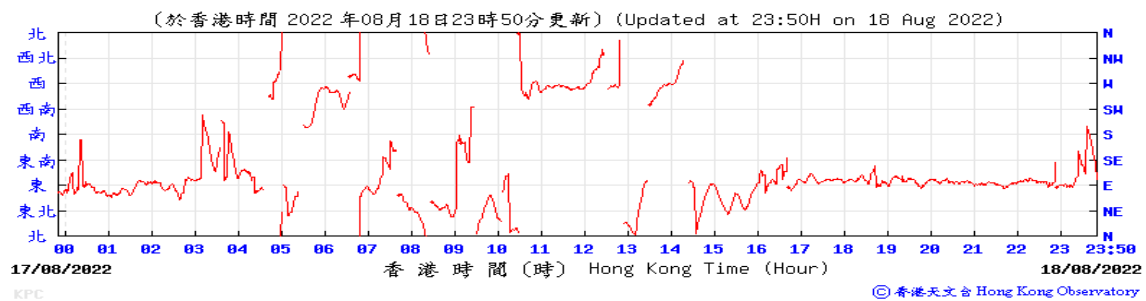
Temperature/Humidity:



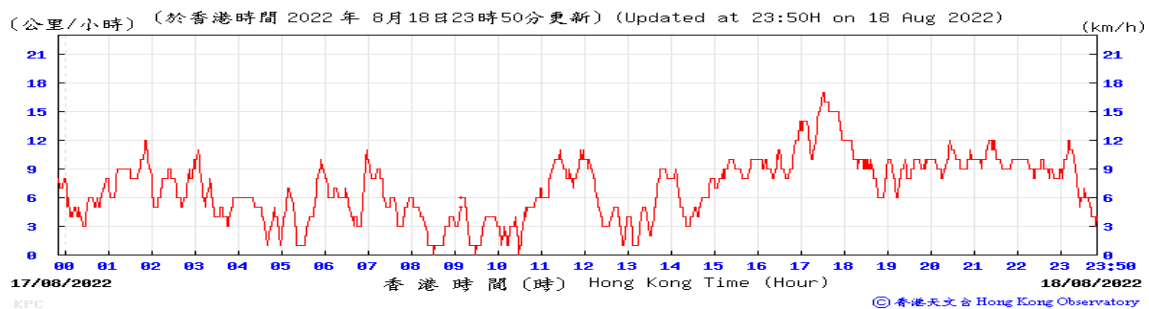
Pressure:



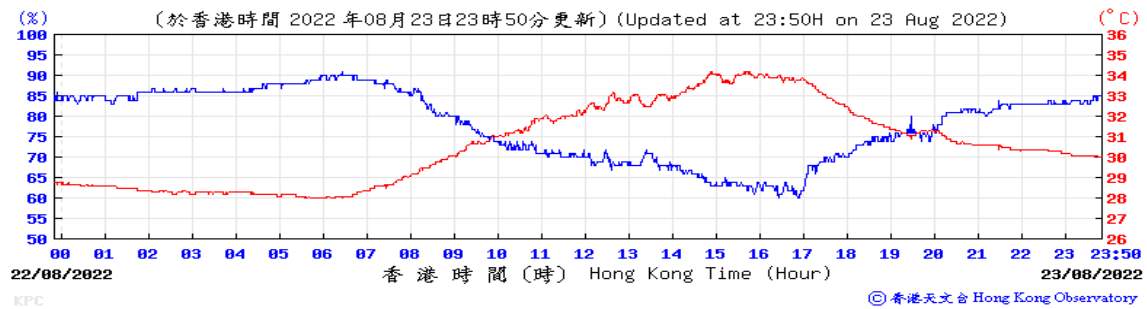
Wind Direction:



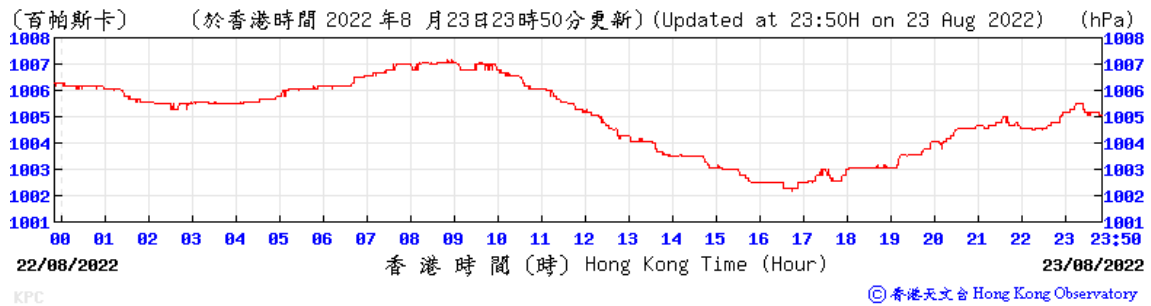
Wind Speed:



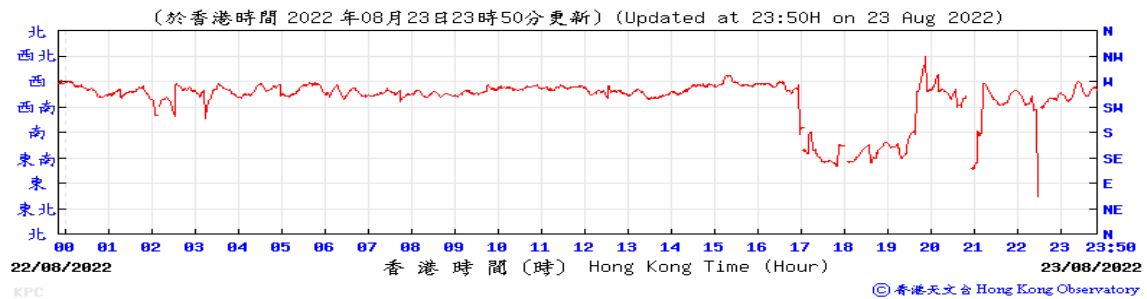
Temperature/Humidity:



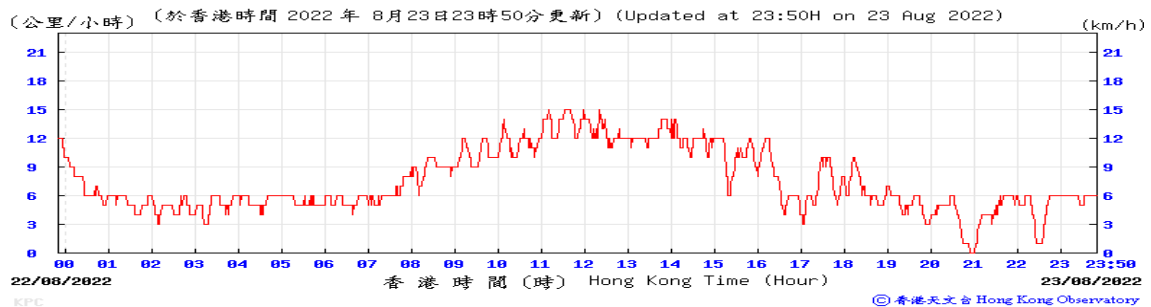
Pressure:



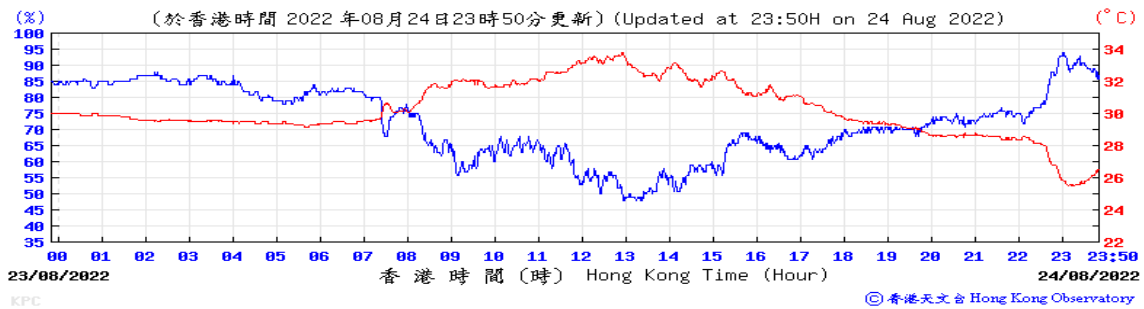
Wind Direction:



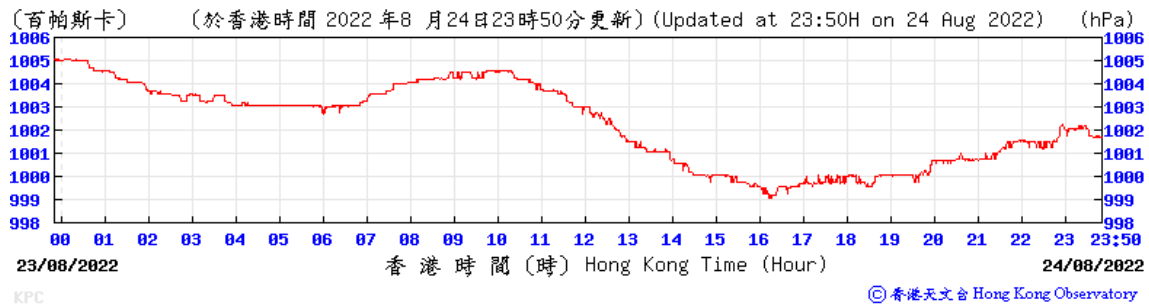
Wind Speed:



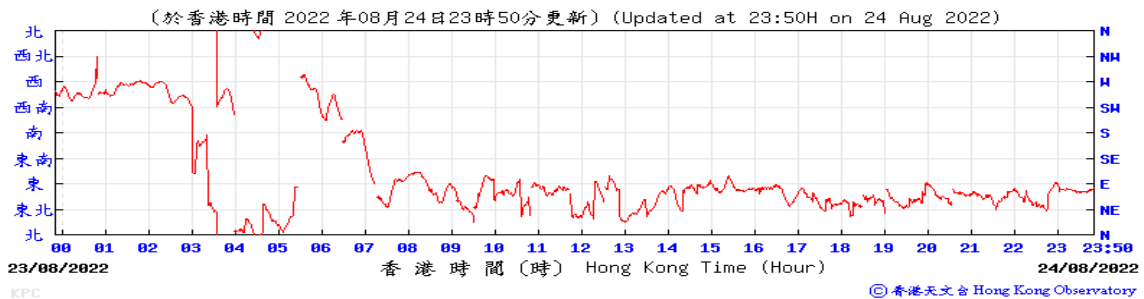
Temperature/Humidity:



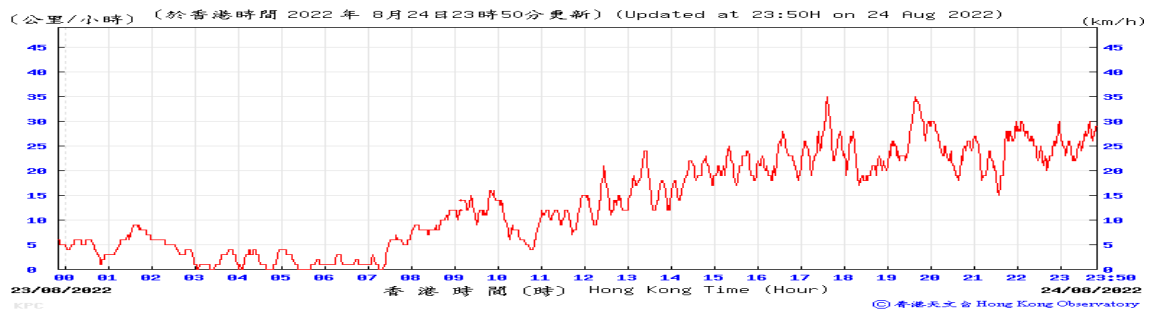
Pressure:



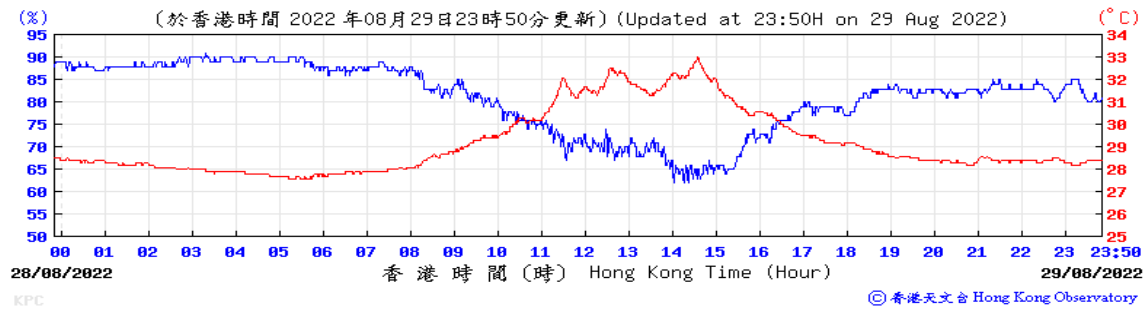
Wind Direction:



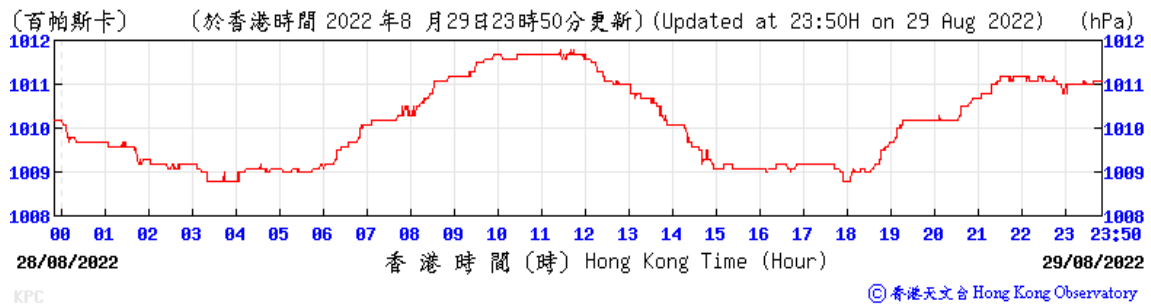
Wind Speed:



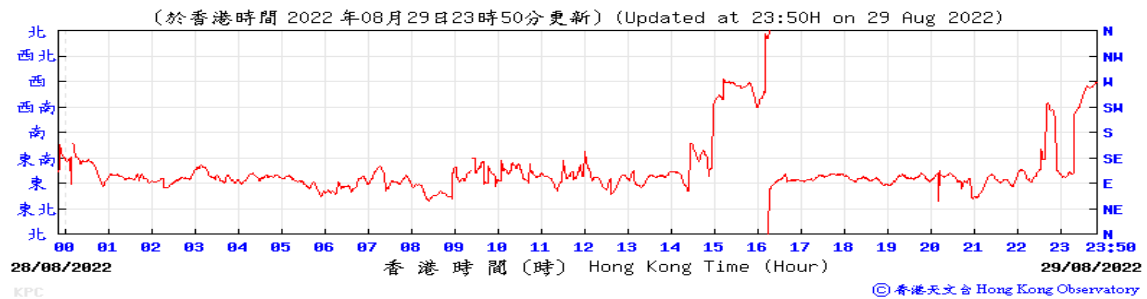
Temperature/Humidity:



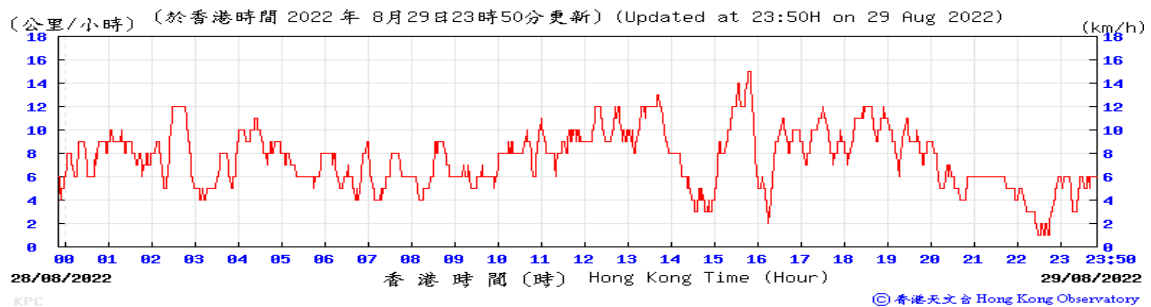
Pressure:



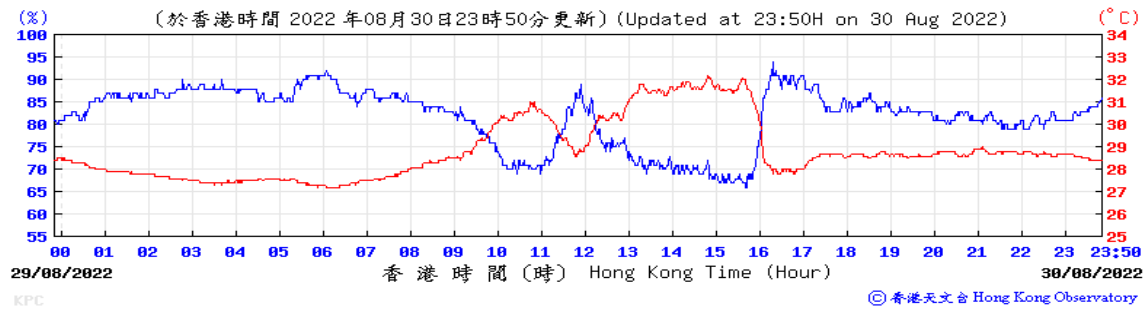
Wind Direction:



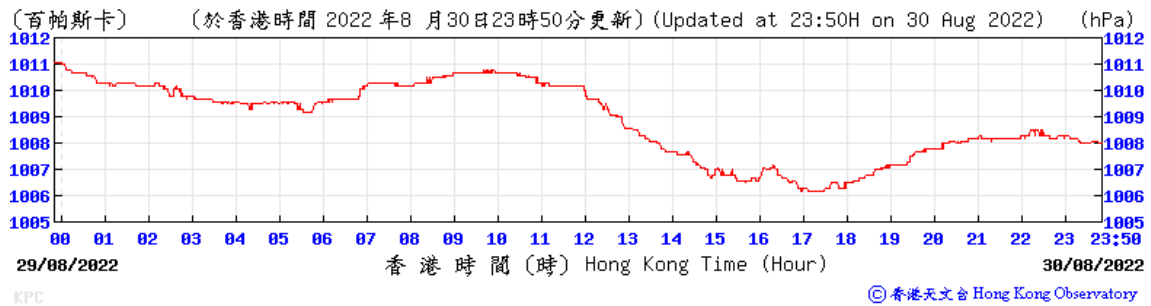
Wind Speed:



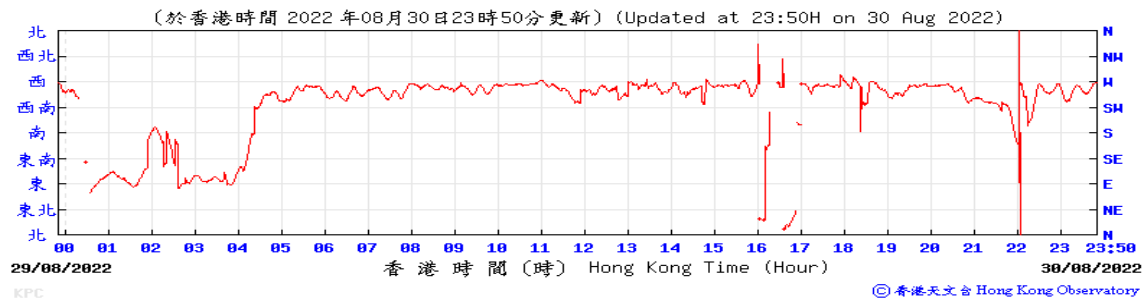
Temperature/Humidity:



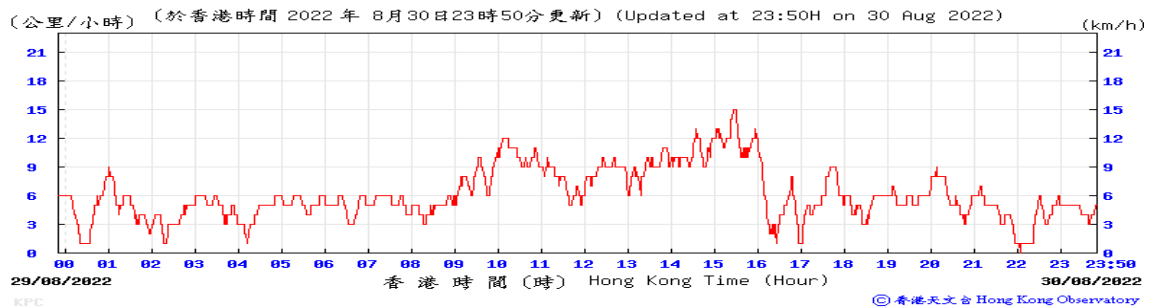
Pressure:



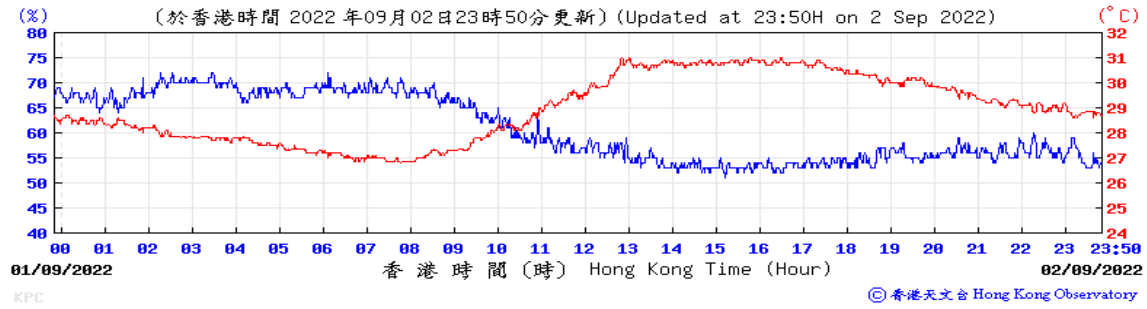
Wind Direction:



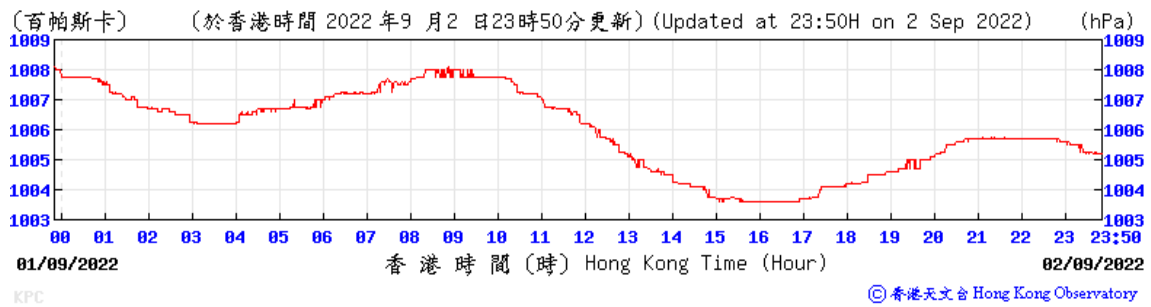
Wind Speed:



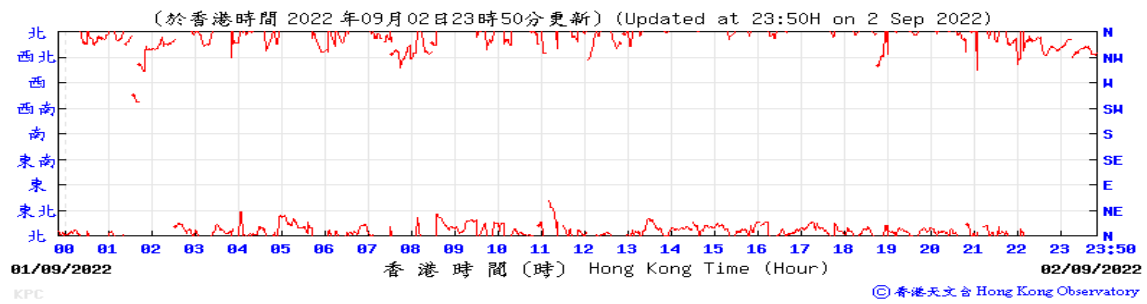
Temperature/Humidity:



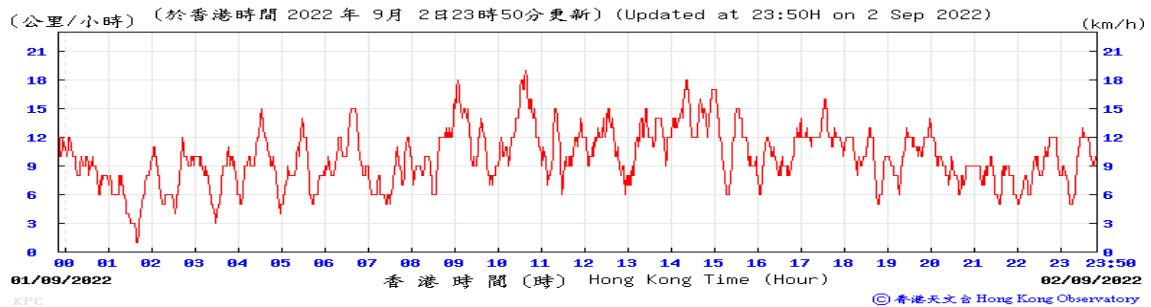
Pressure:



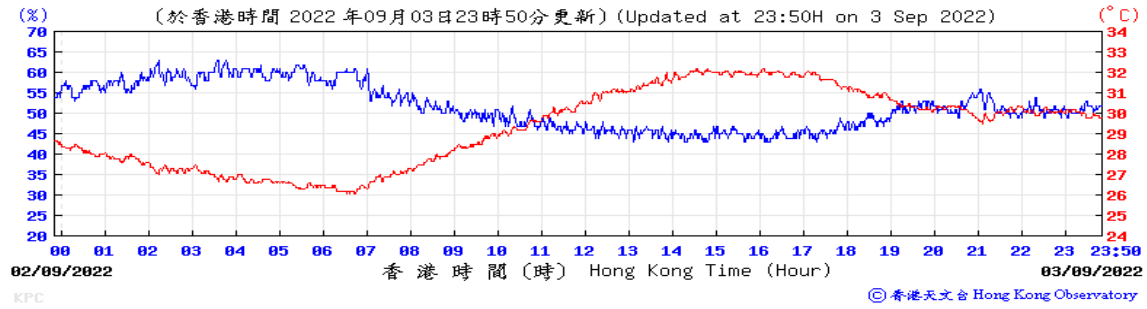
Wind Direction:



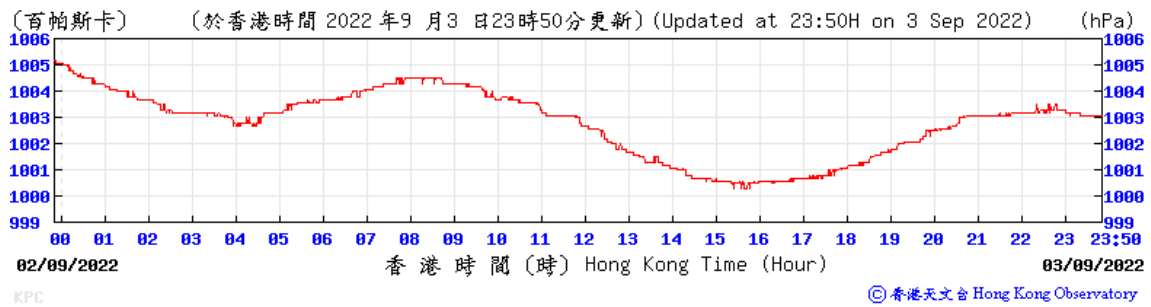
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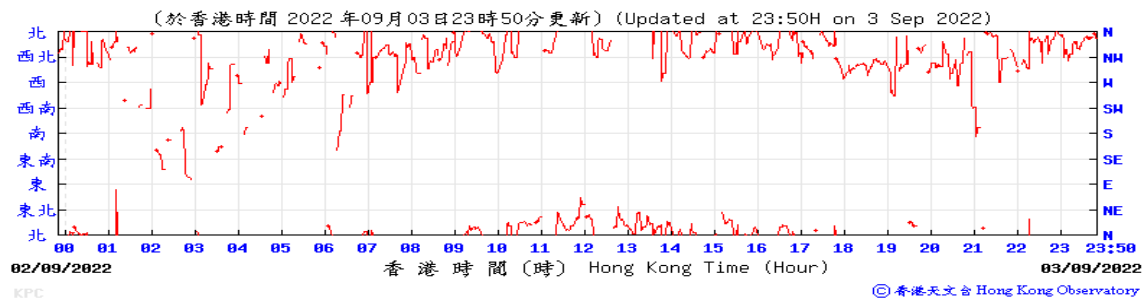
Temperature/Humidity:



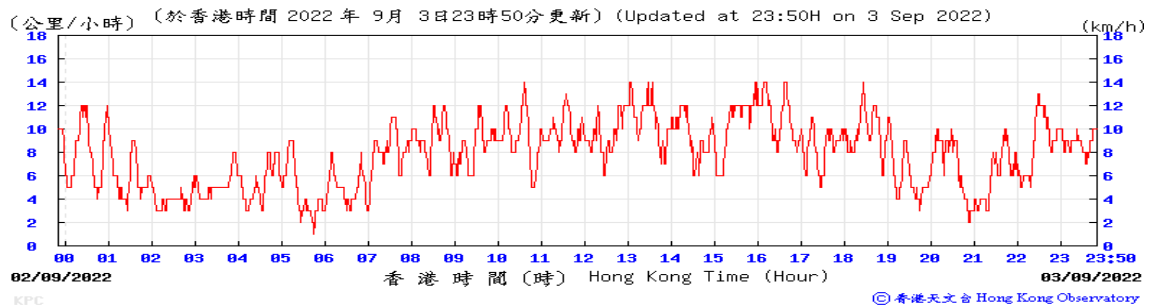
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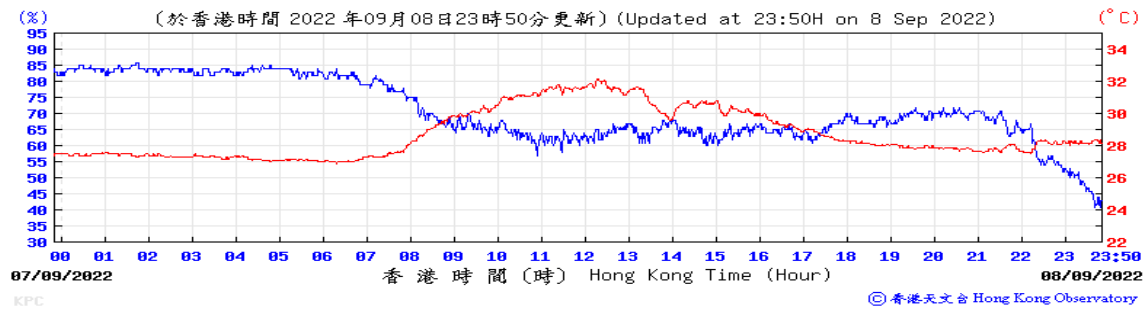
Wind Direction:



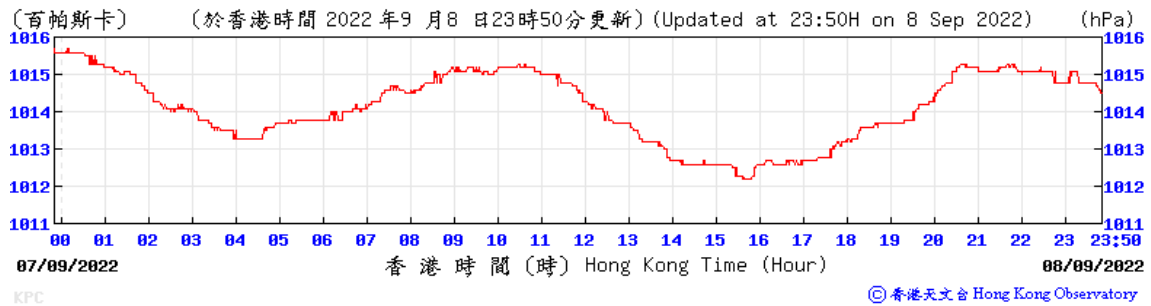
Wind Speed:



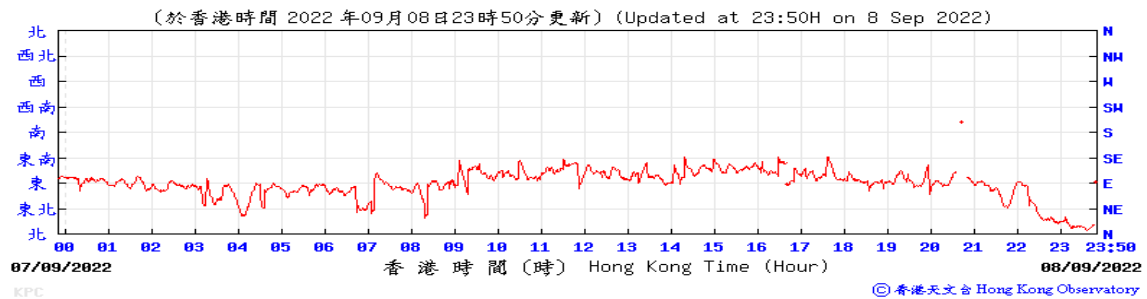
Temperature/Humidity:



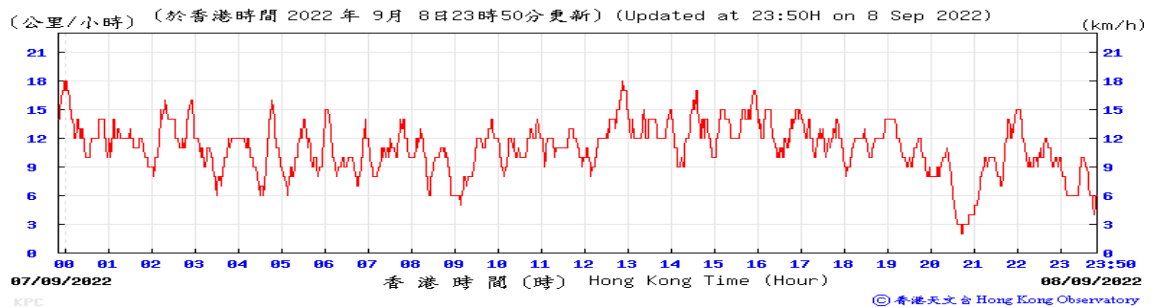
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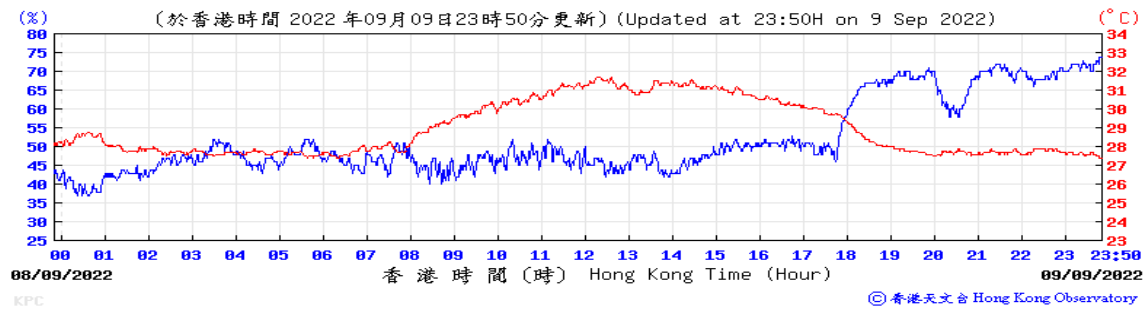
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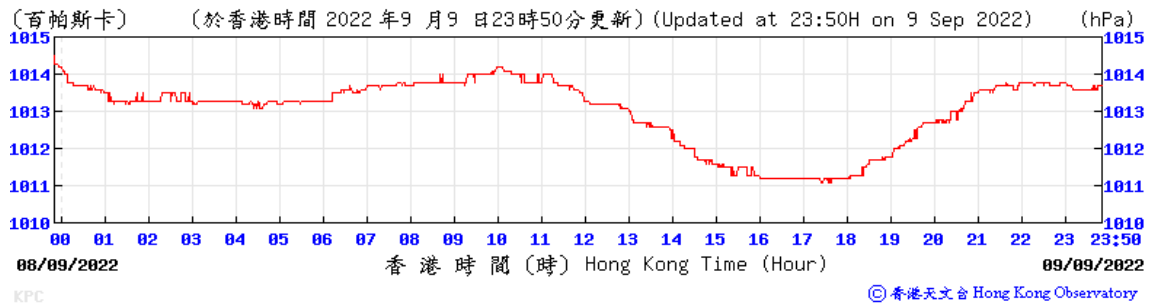
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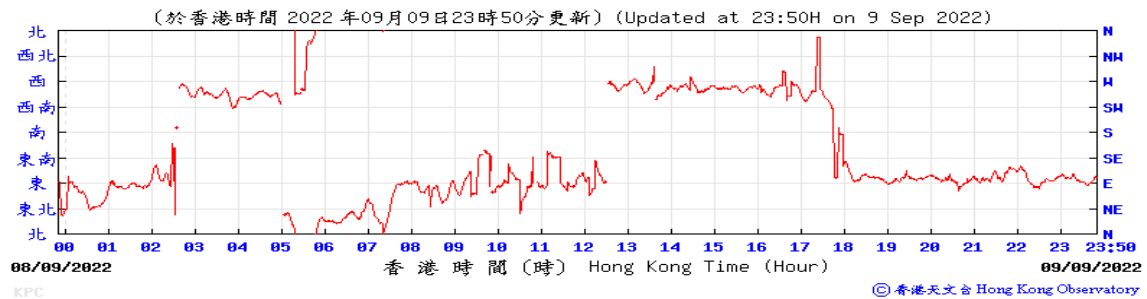
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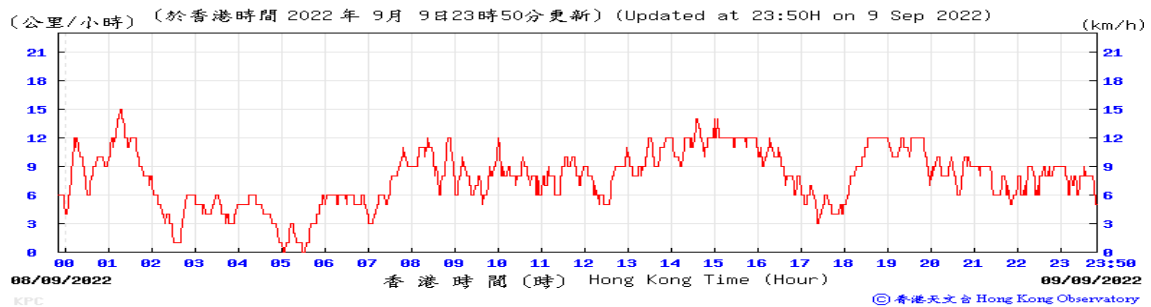
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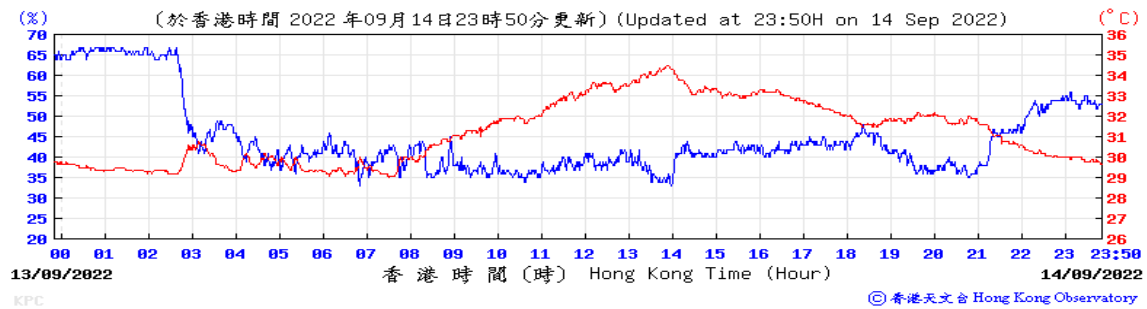
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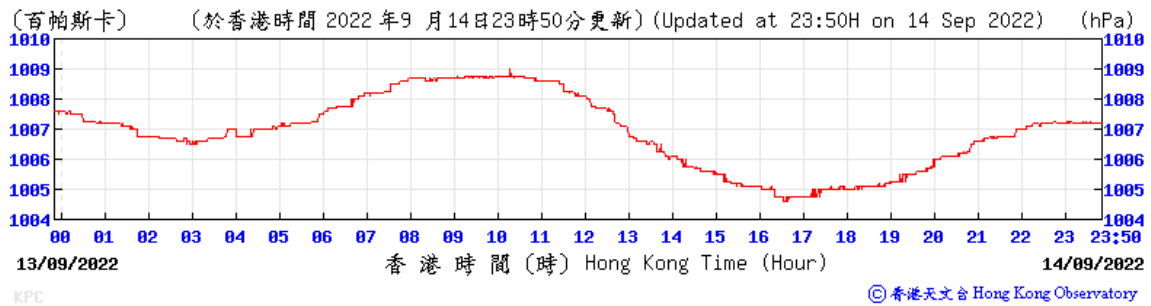
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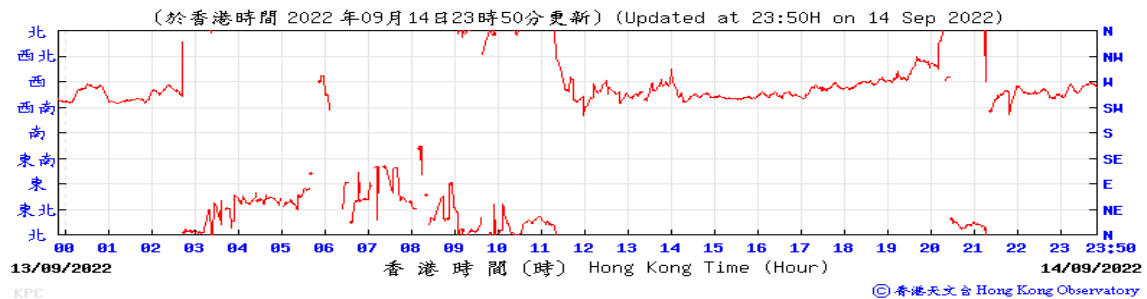
Temperature/Humidity:



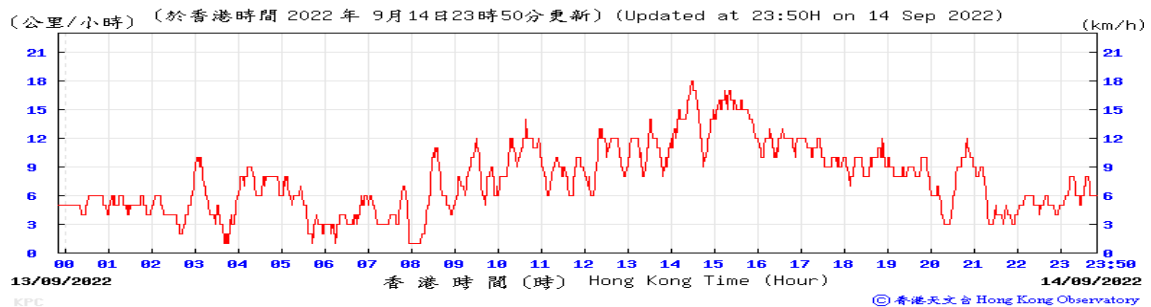
Pressure:



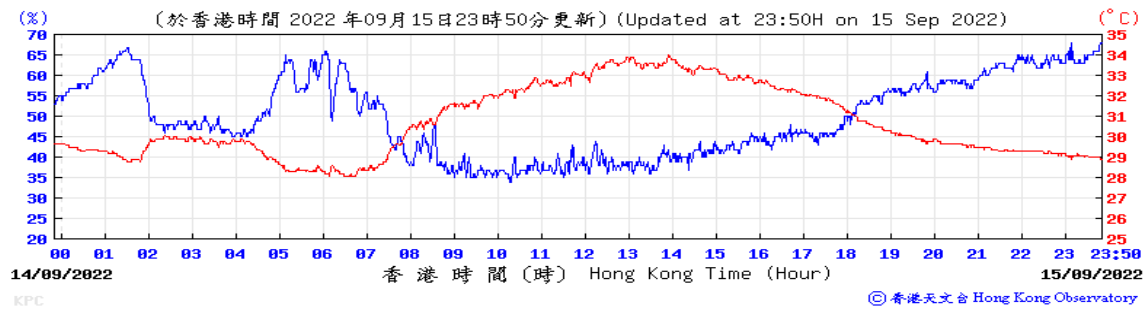
Wind Direction:



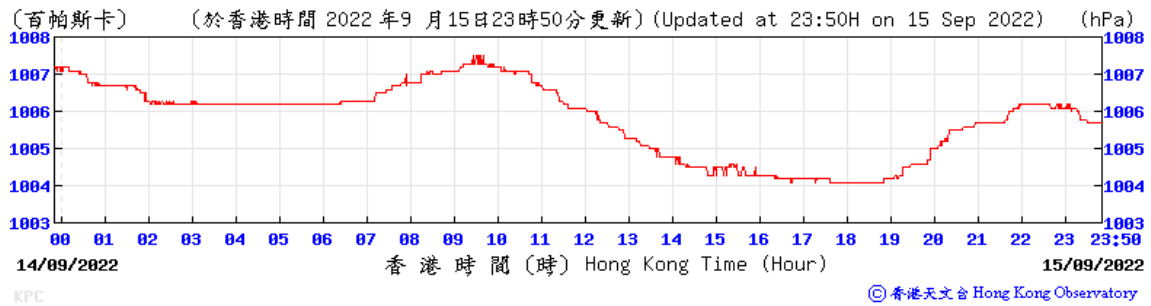
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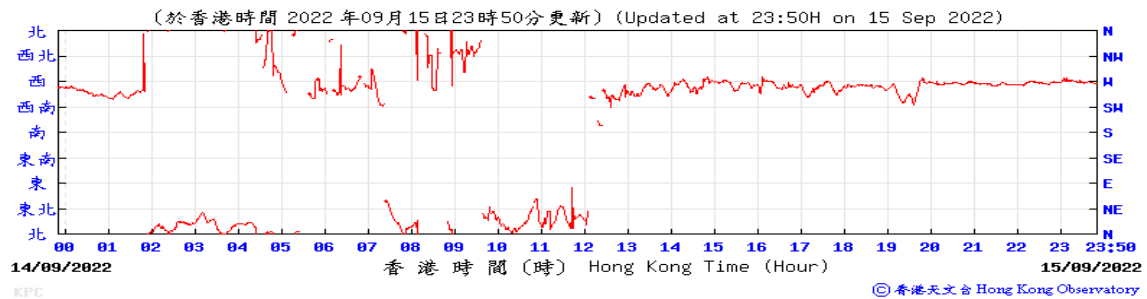
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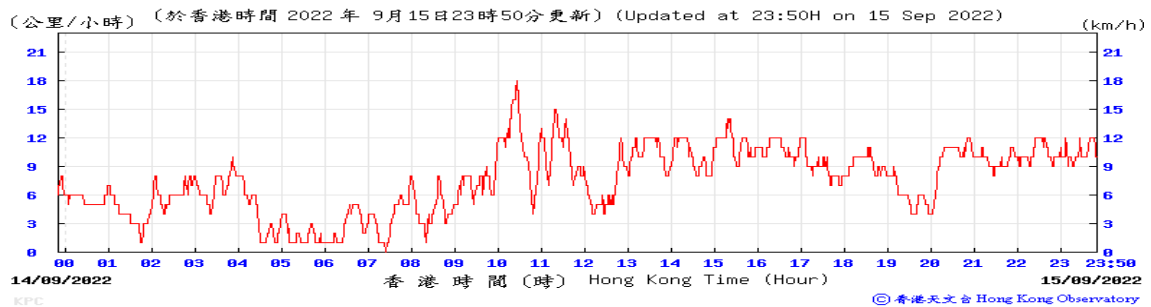
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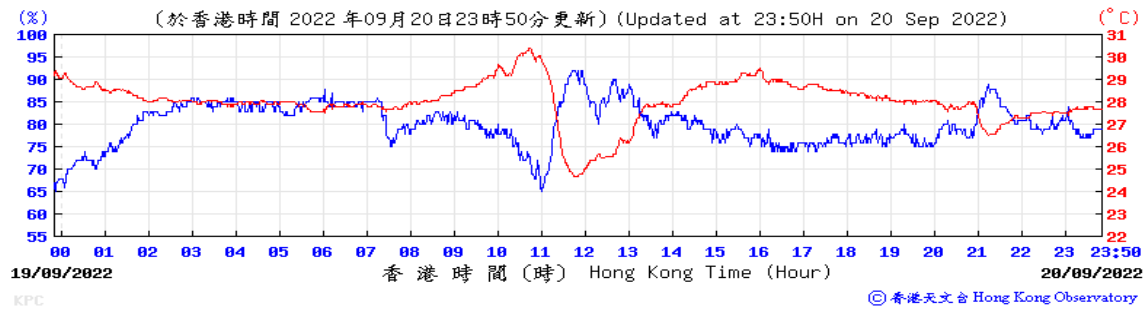
Wind Direction:



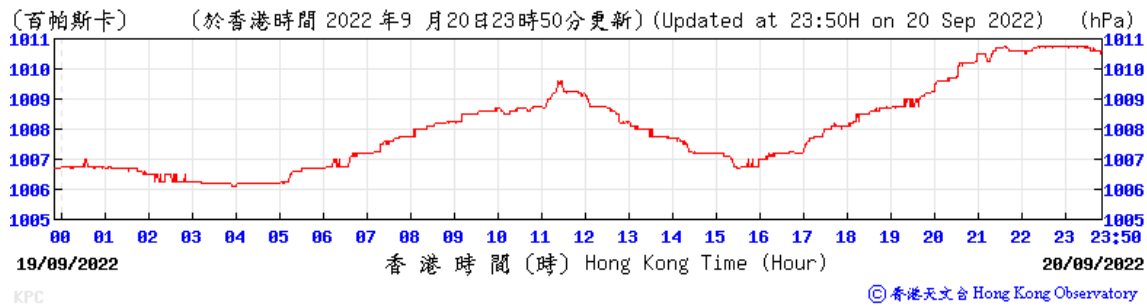
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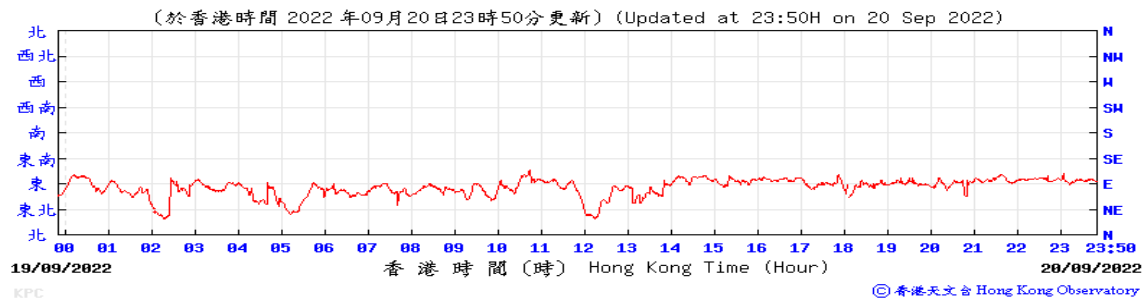
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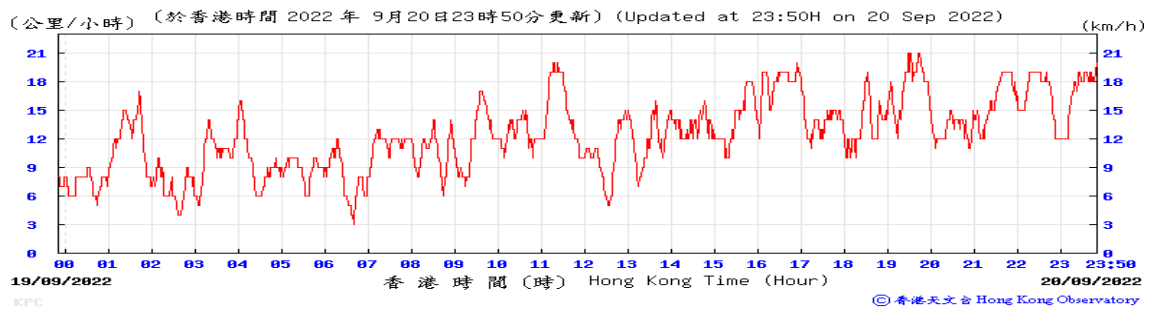
Pressure:



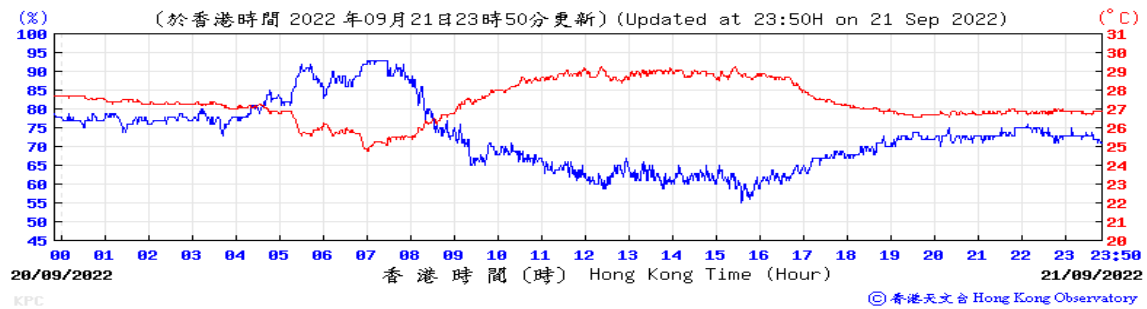
Wind Direction:



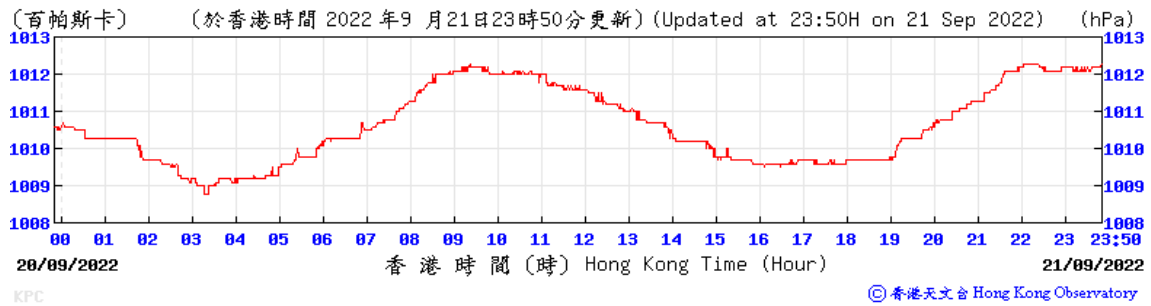
Wind Speed:



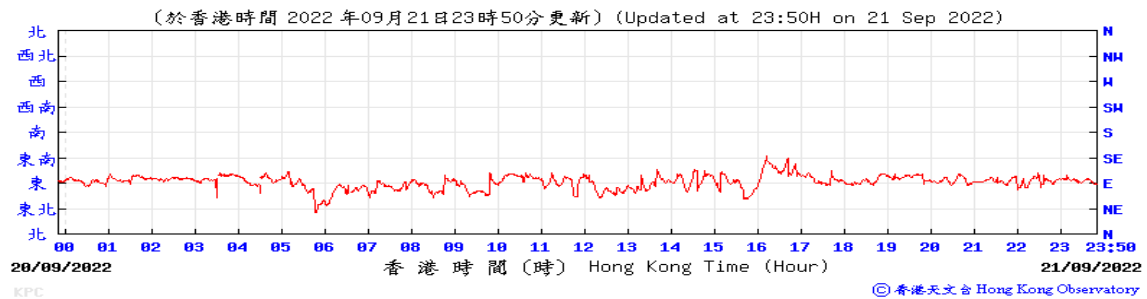
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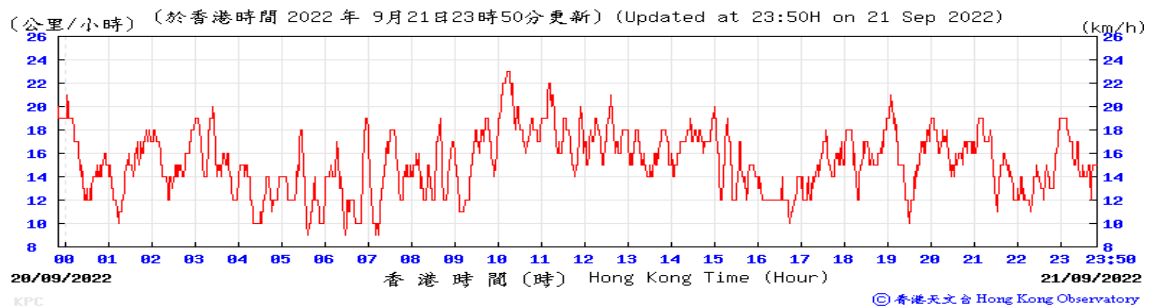
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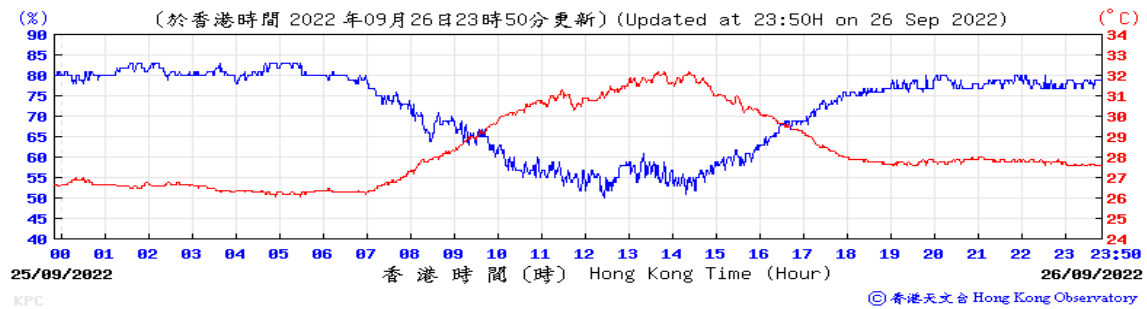
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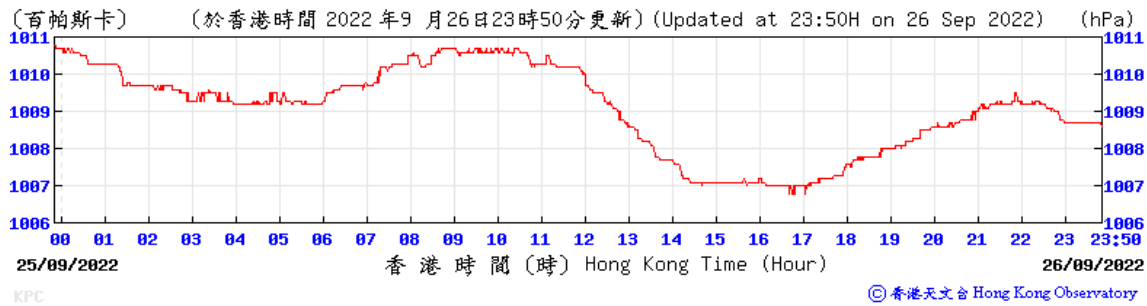
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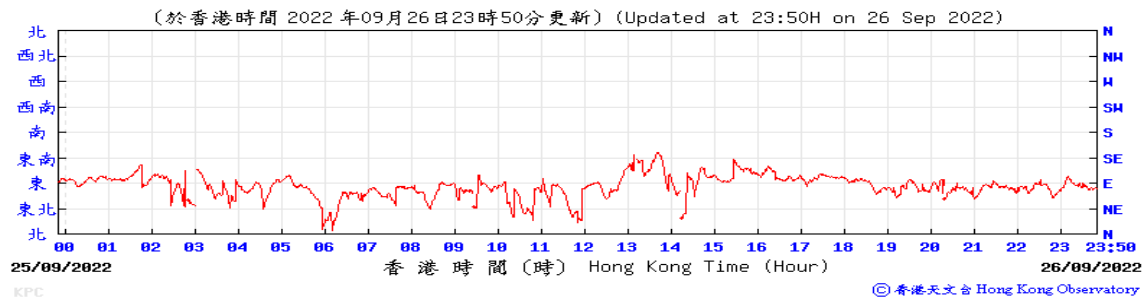
Temperature/Humidity:



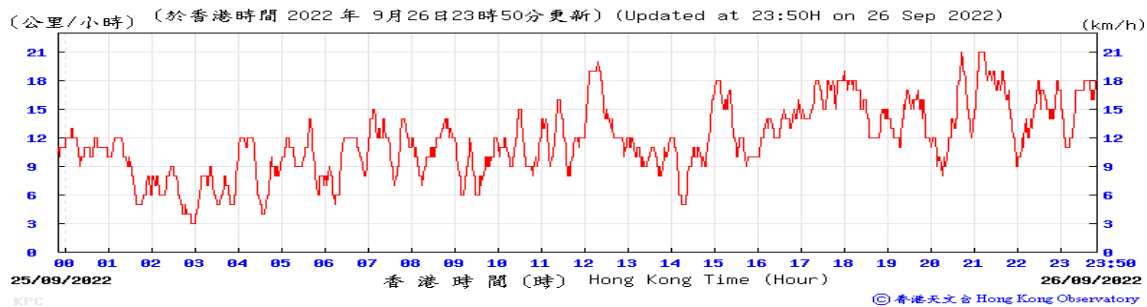
Pressure:



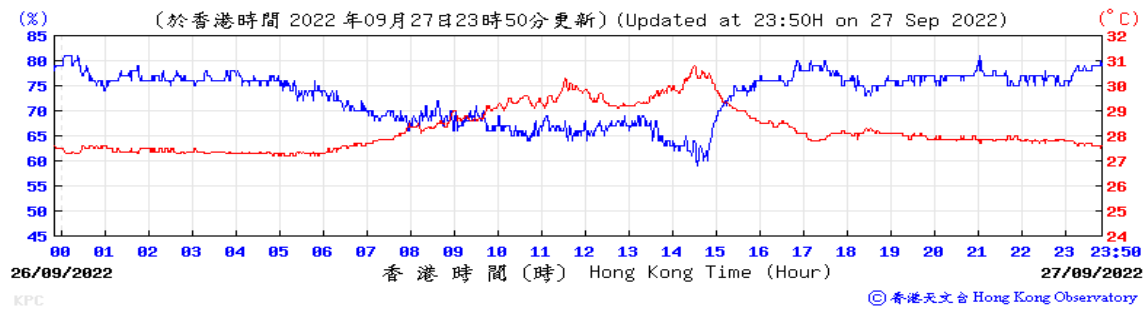
Wind Direction:



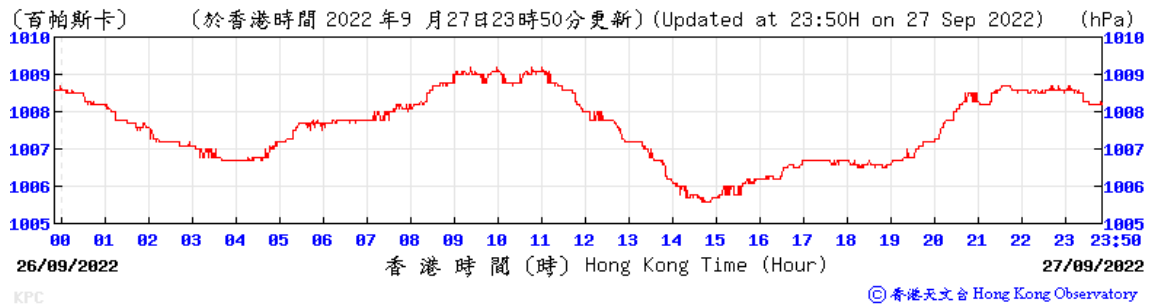
Wind Speed:



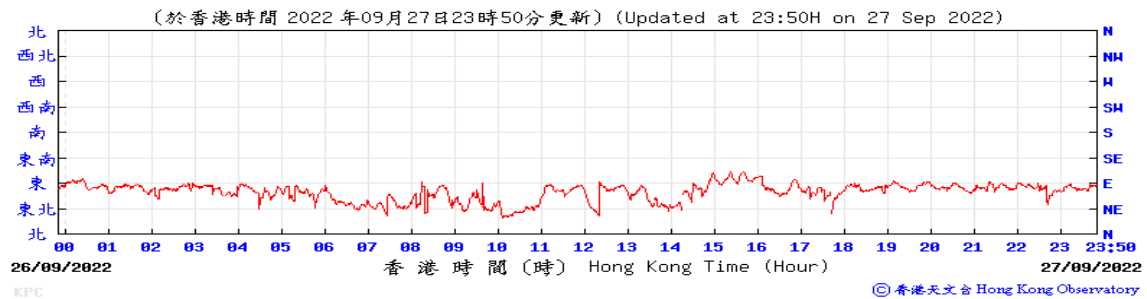
Temperature/Humidity:



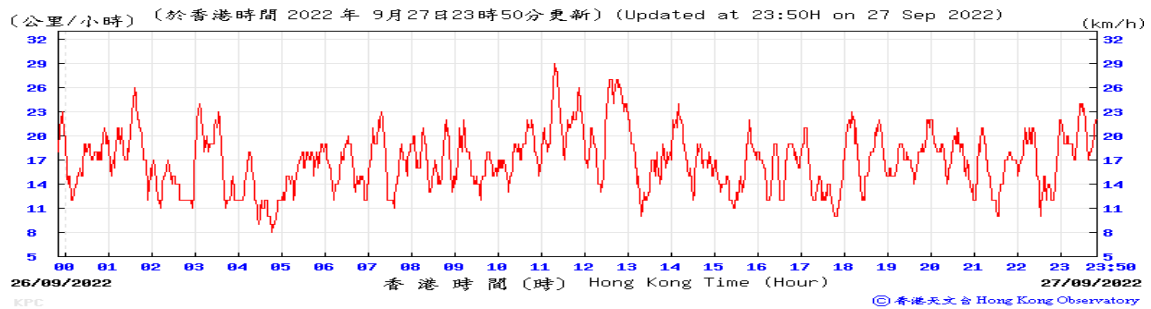
Pressure:



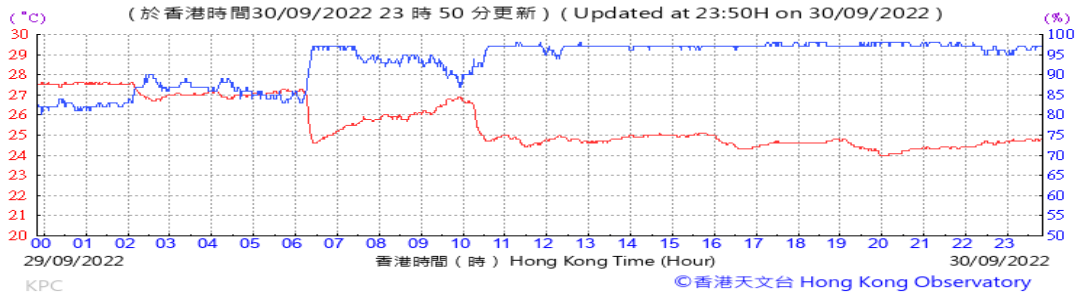
Wind Direction:



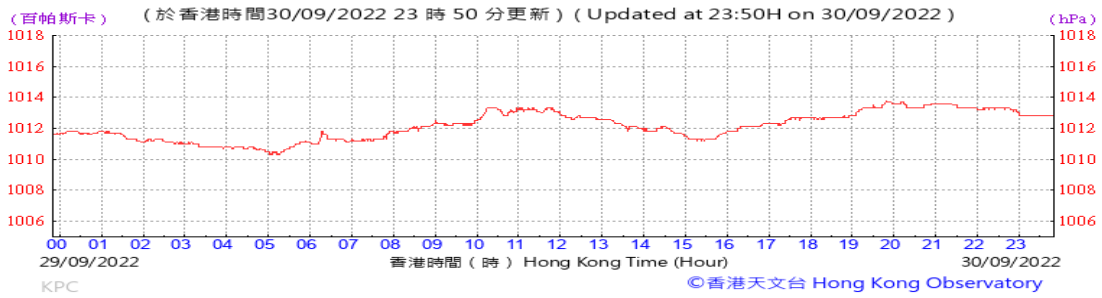
Wind Speed:



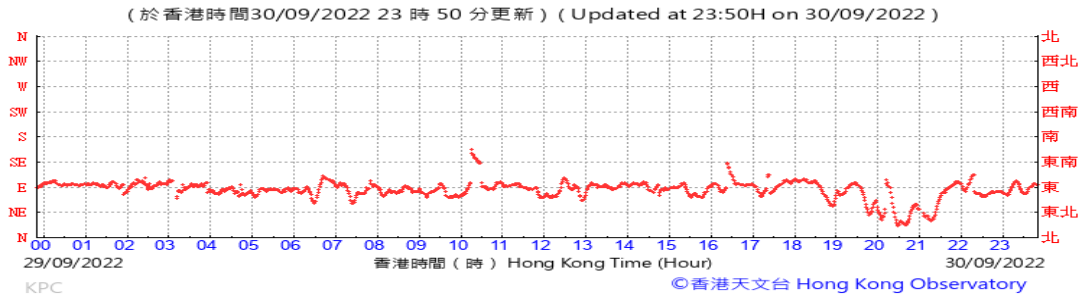
Temperature/Humidity:



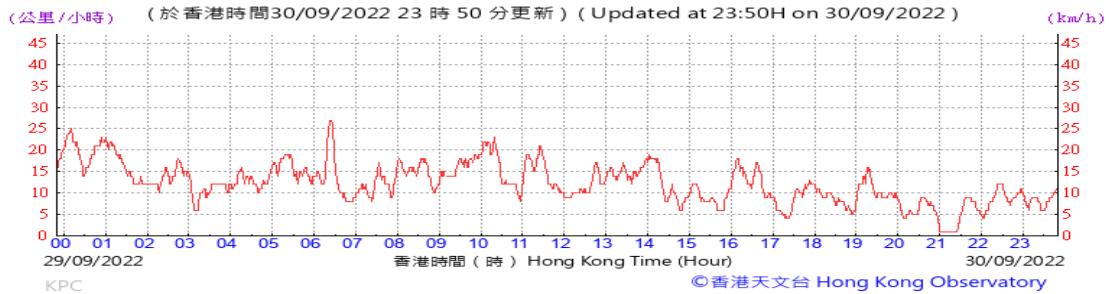
Pressure:



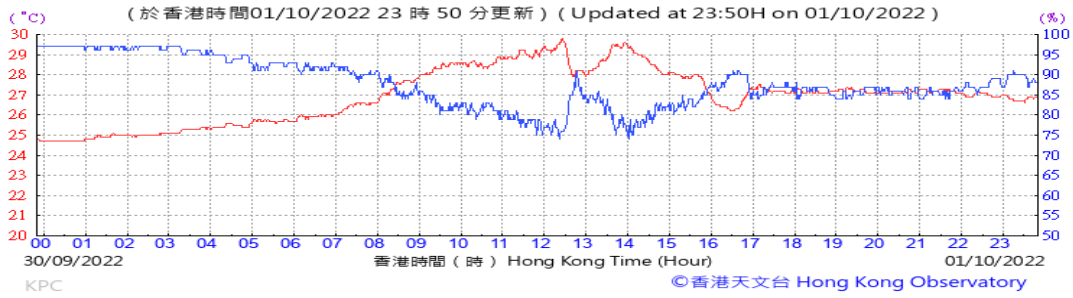
Wind Direction:



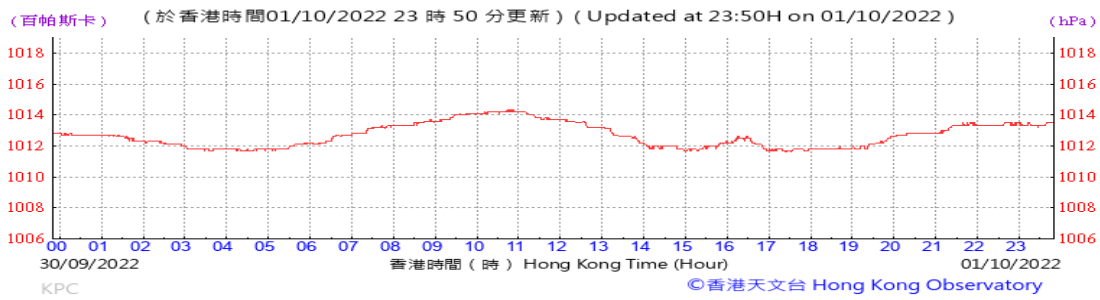
Wind Speed:



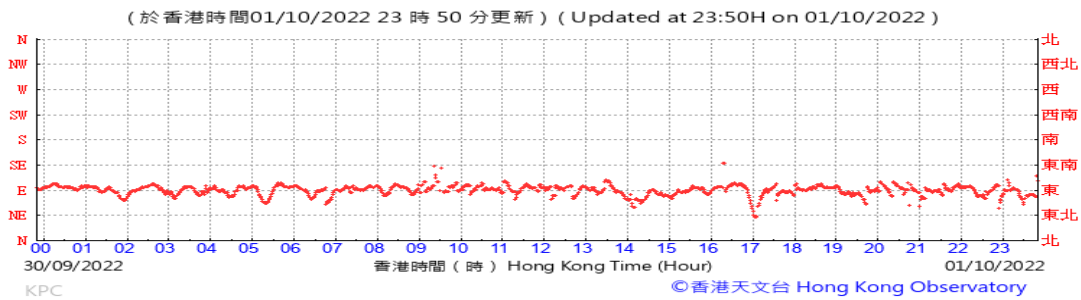
Temperature/Humidity:



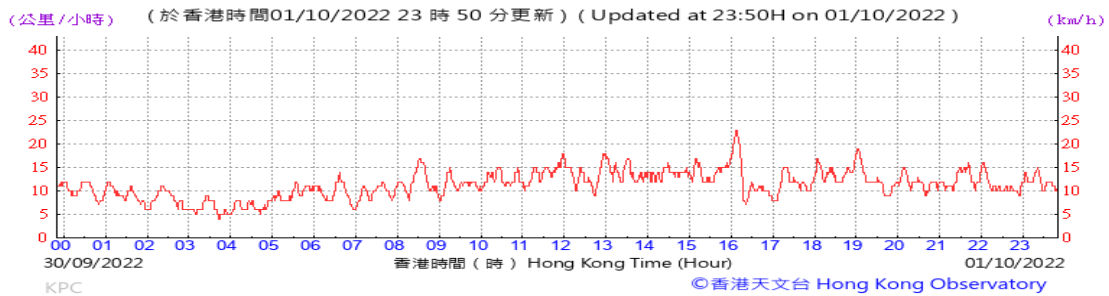
Pressure:



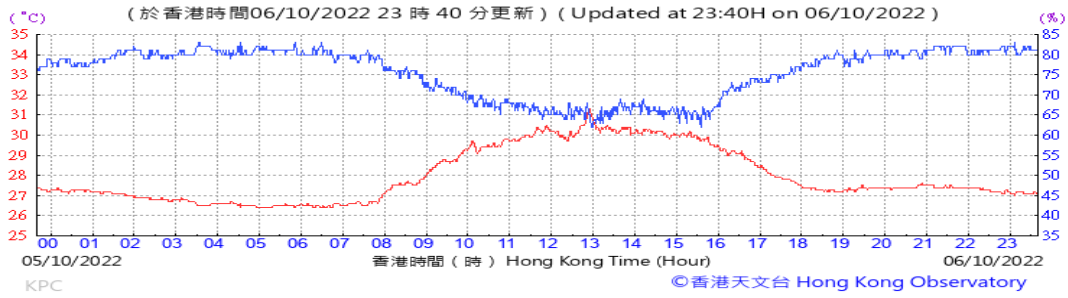
Wind Direction:



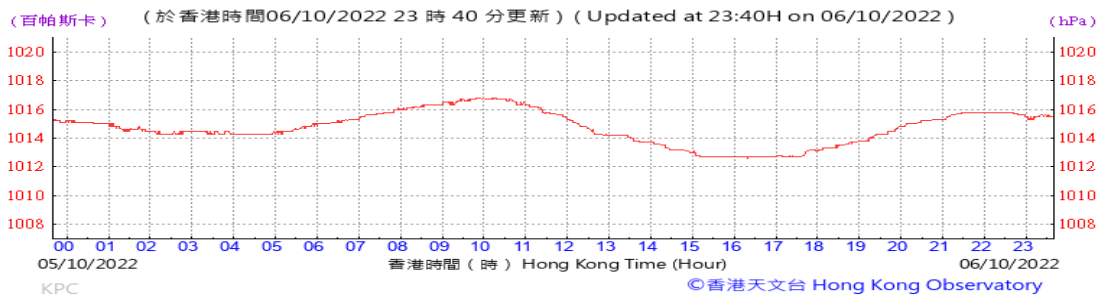
Wind Speed:



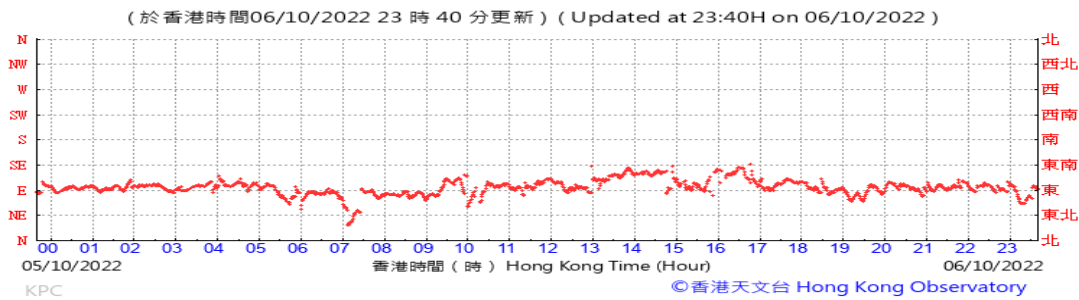
Temperature/Humidity:



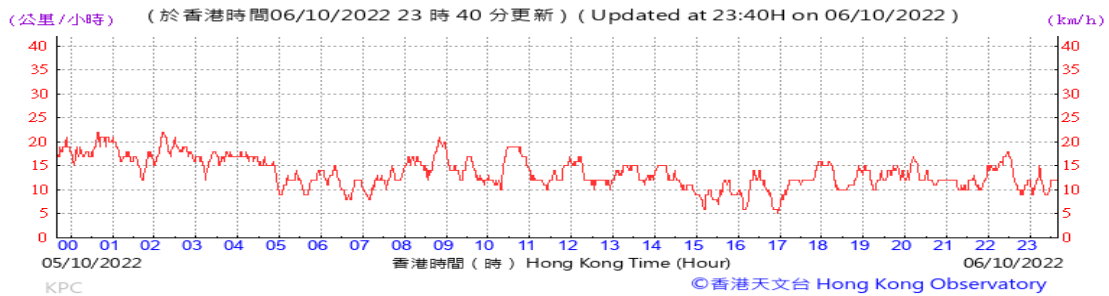
Pressure:



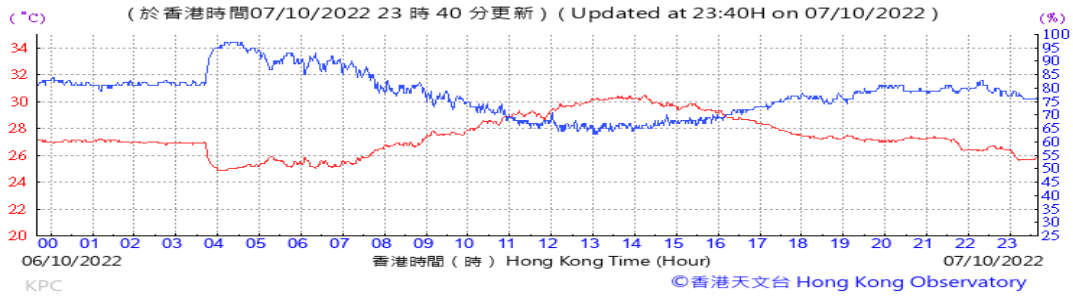
Wind Direction:



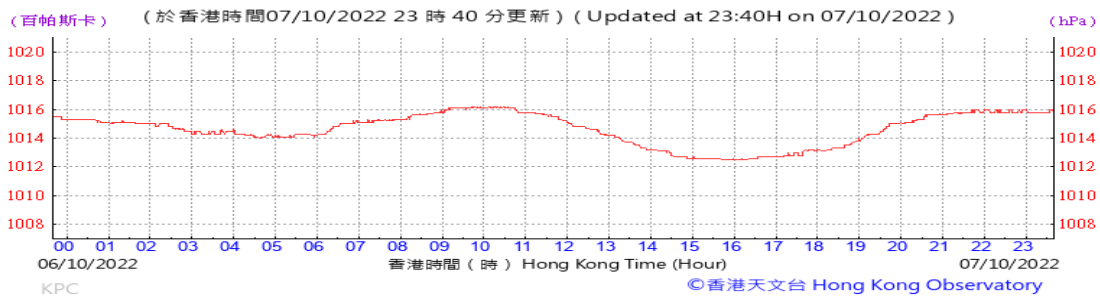
Wind Speed:



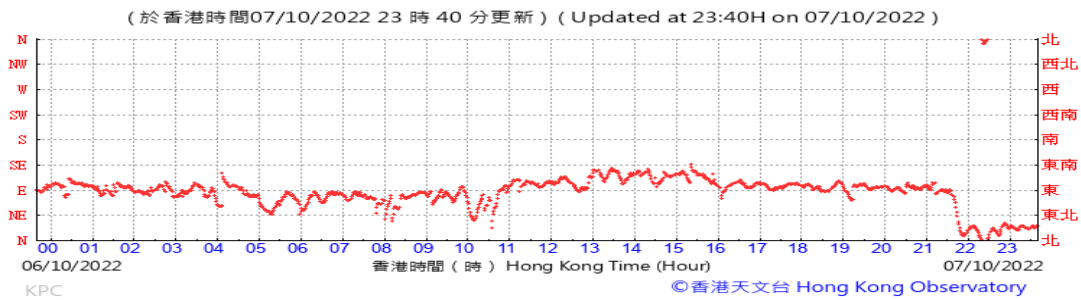
Temperature/Humidity:



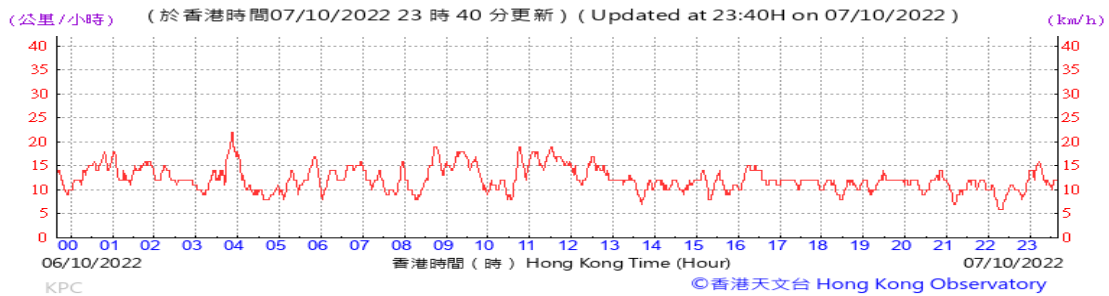
Pressure:



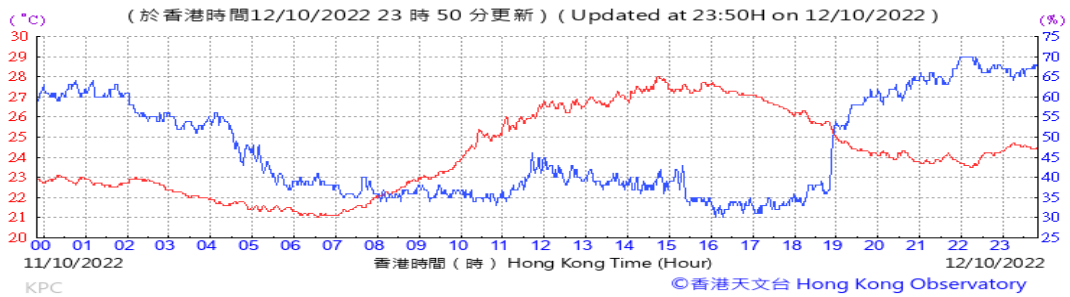
Wind Direction:



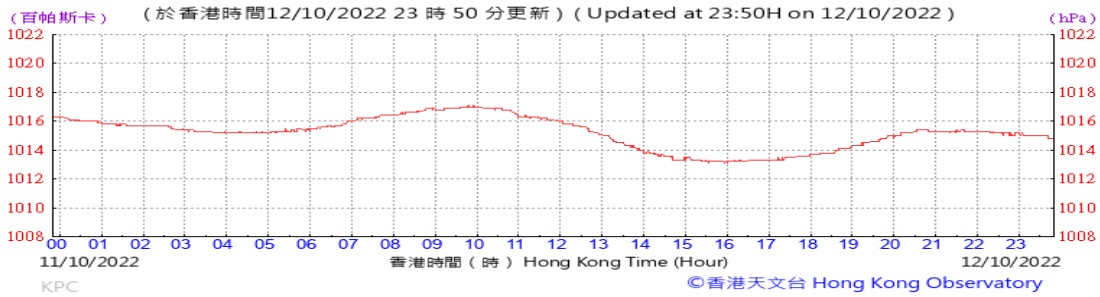
Wind Speed:



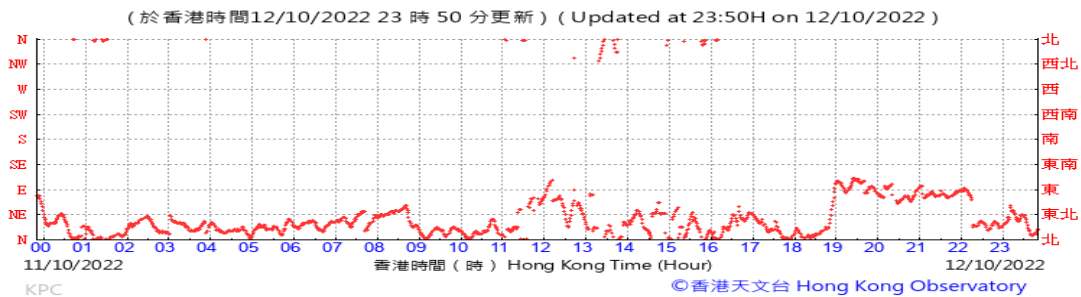
Temperature/Humidity:



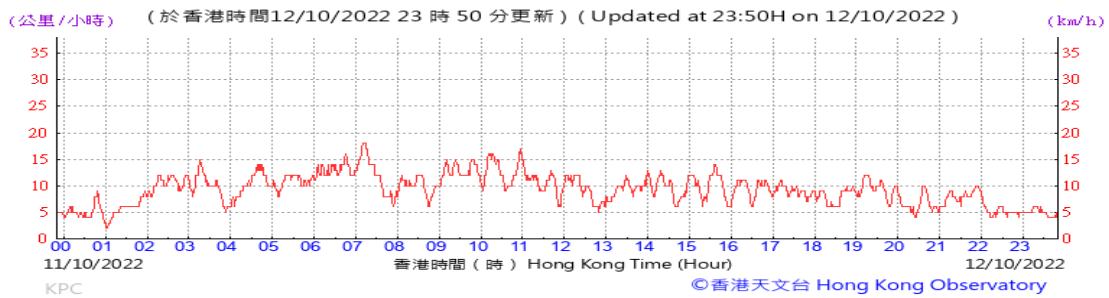
Pressure:



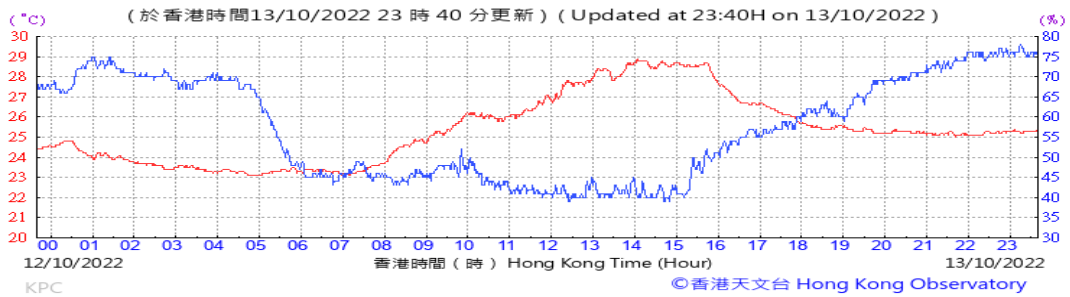
Wind Direction:



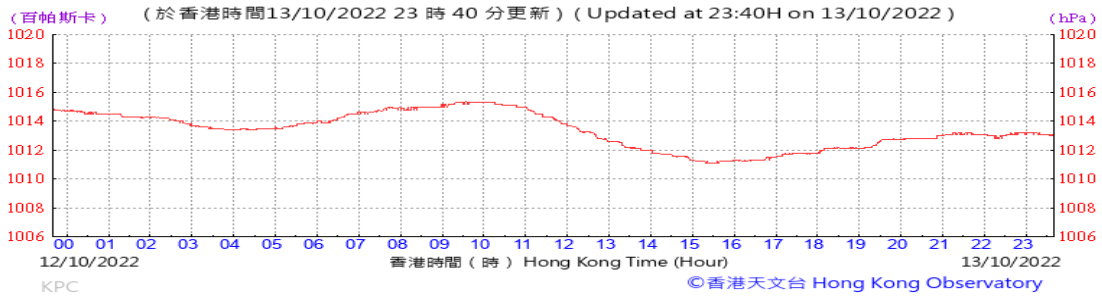
Wind Speed:



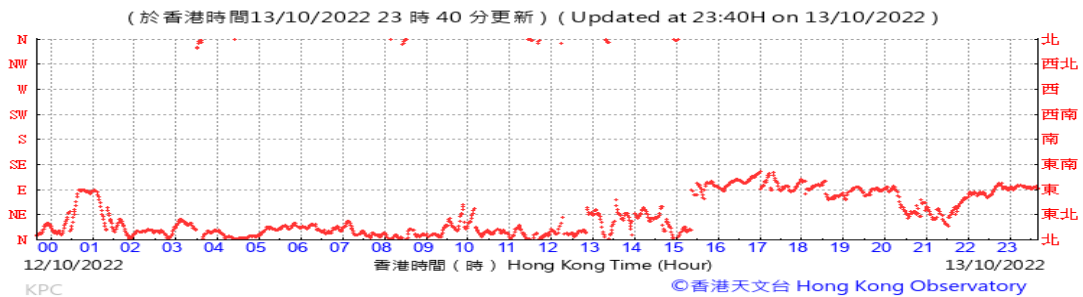
Temperature/Humidity:



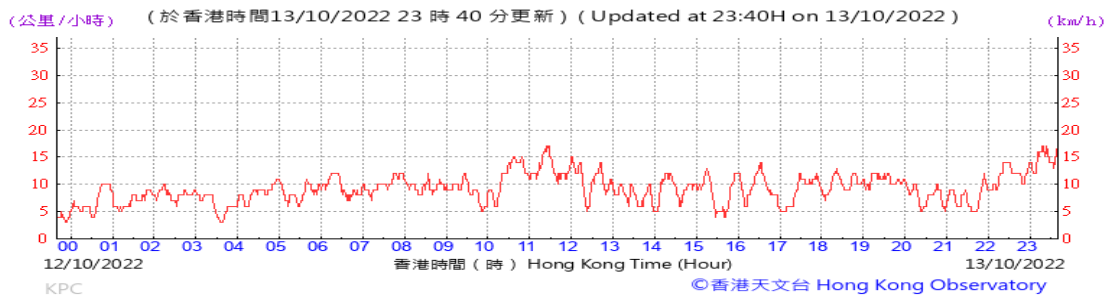
Pressure:



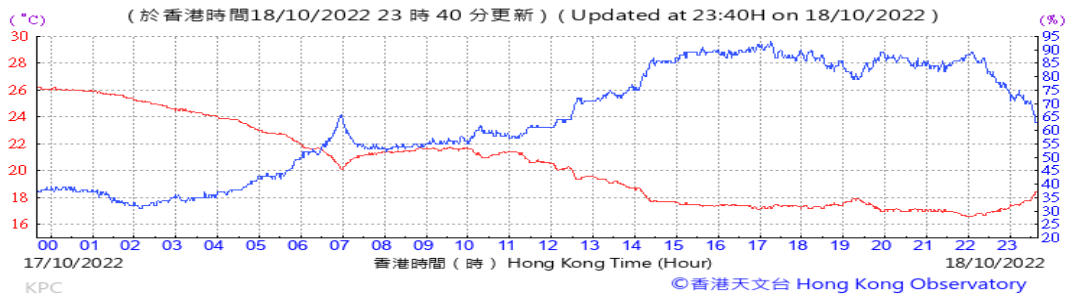
Wind Direction:



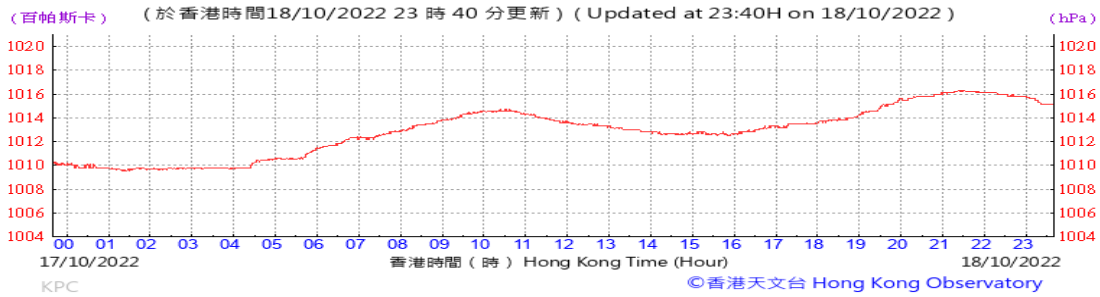
Wind Speed:



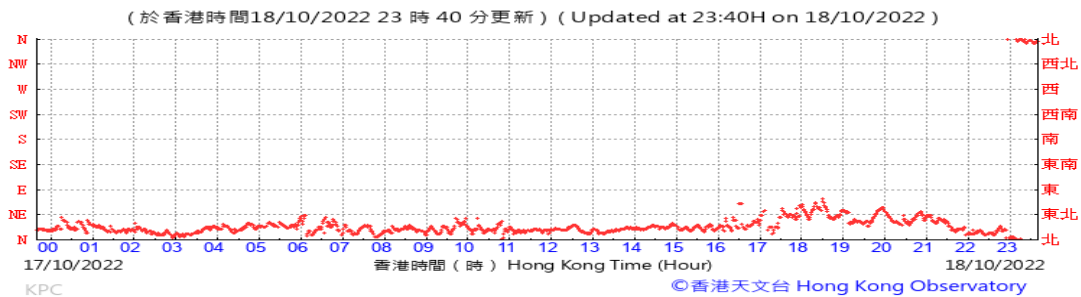
Temperature/Humidity:



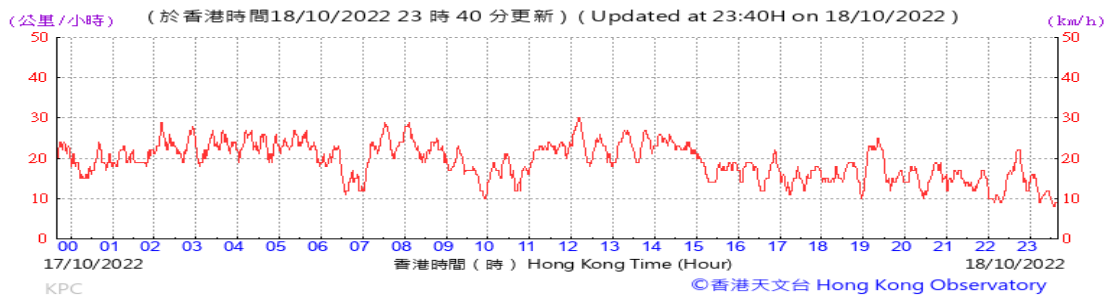
Pressure:



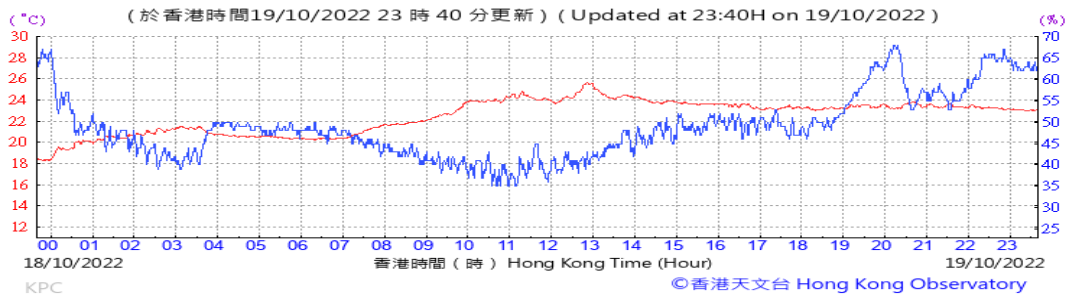
Wind Direction:



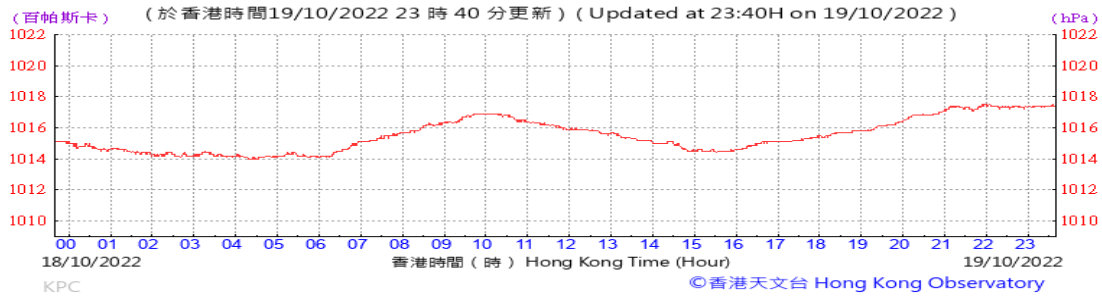
Wind Speed:



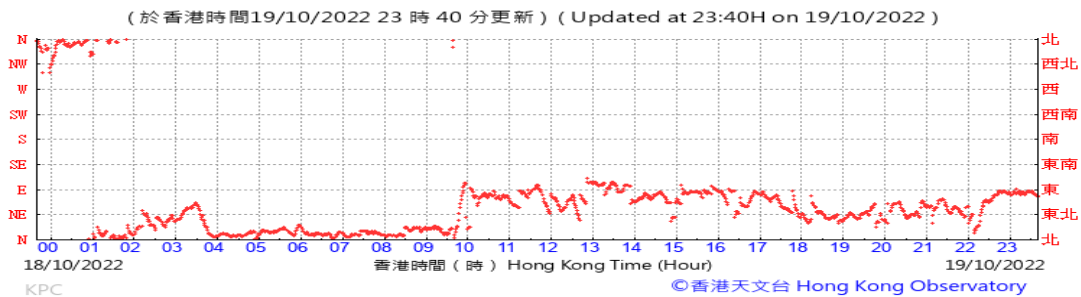
Temperature/Humidity:



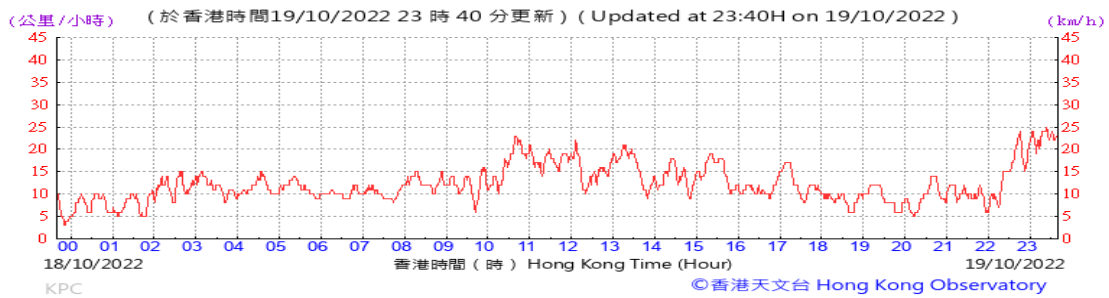
Pressure:



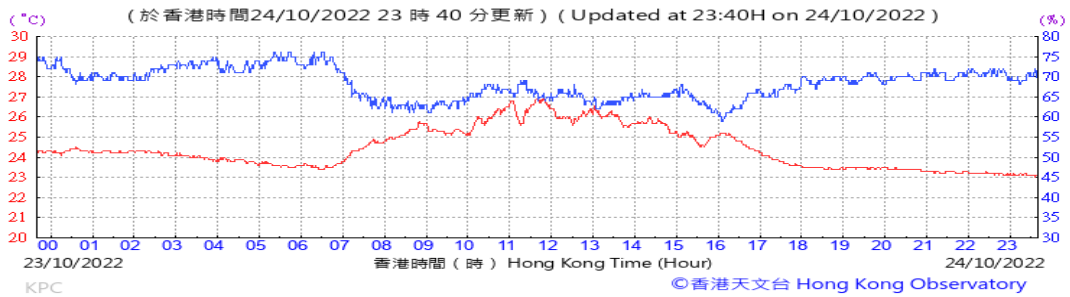
Wind Direction:



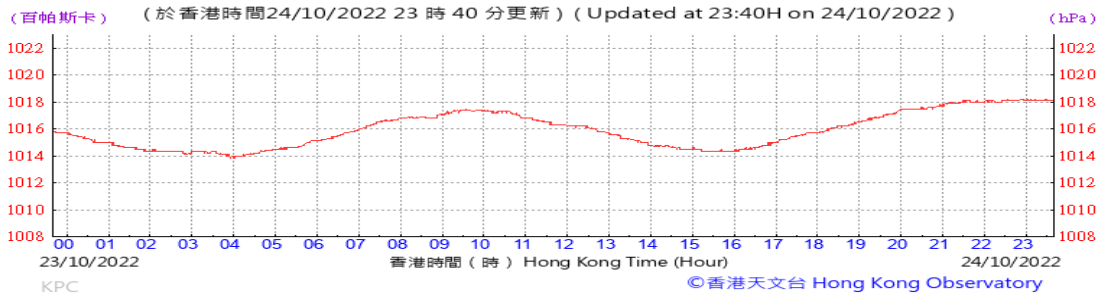
Wind Speed:



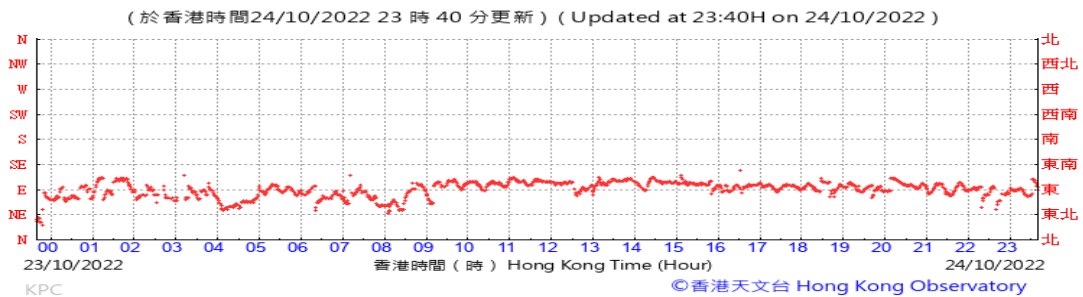
Temperature/Humidity:



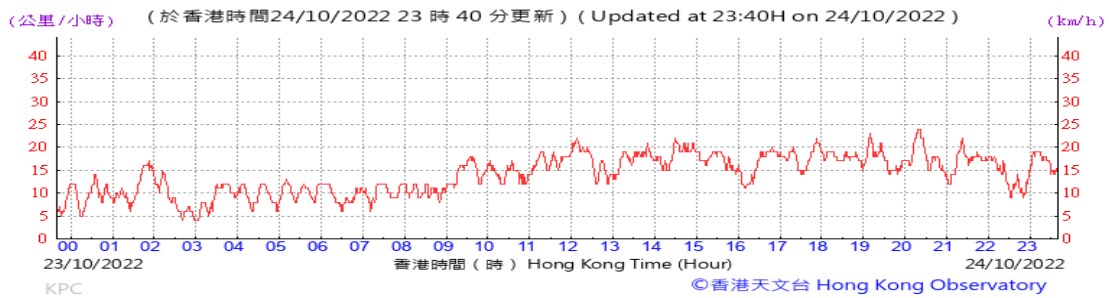
Pressure:



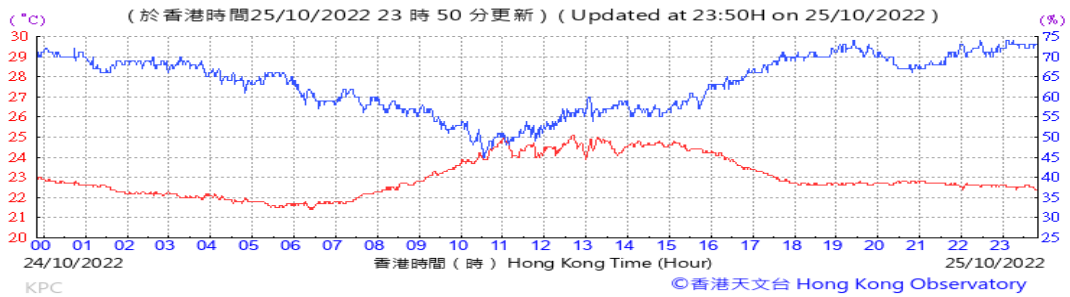
Wind Direction:



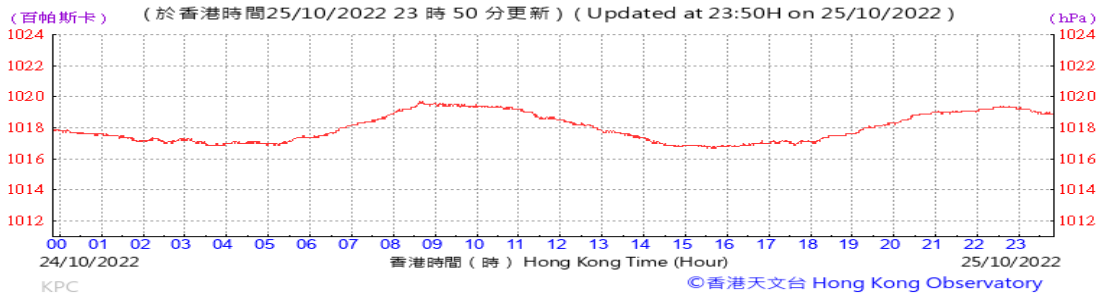
Wind Speed:



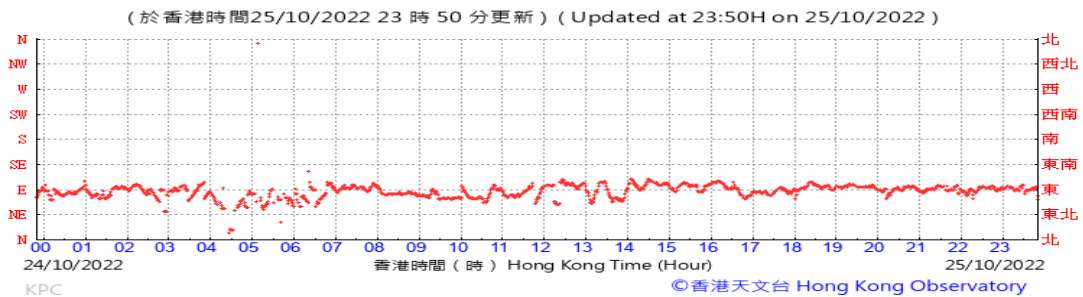
Temperature/Humidity:



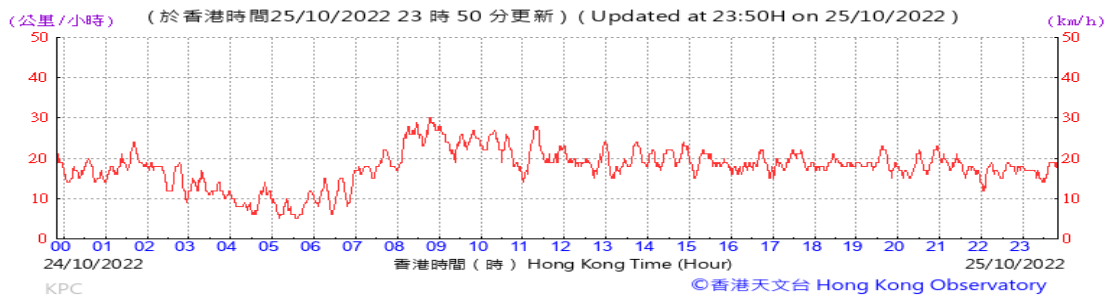
Pressure:



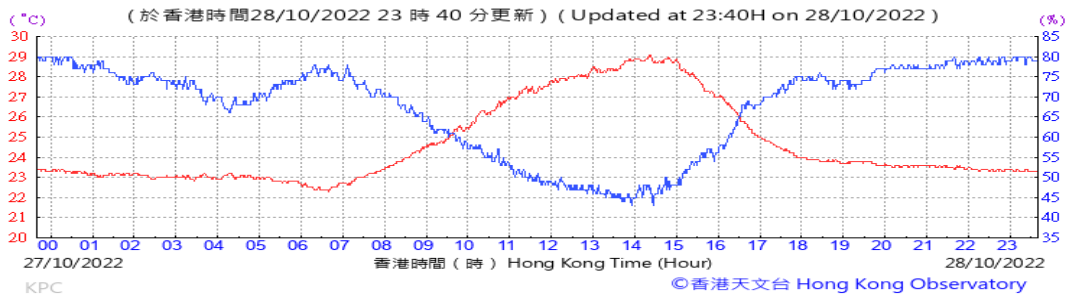
Wind Direction:



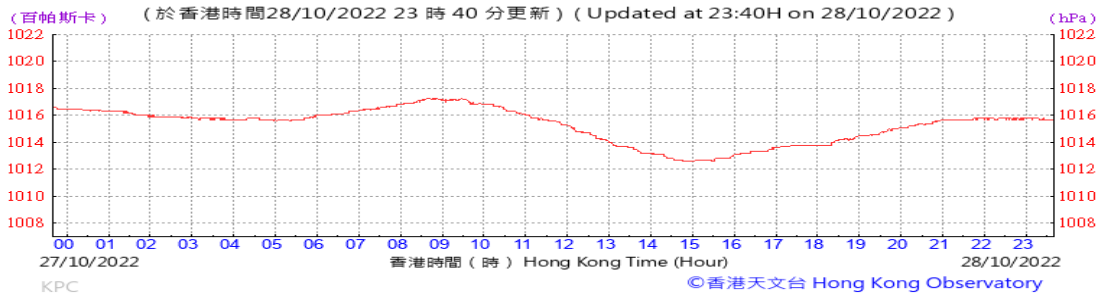
Wind Speed:



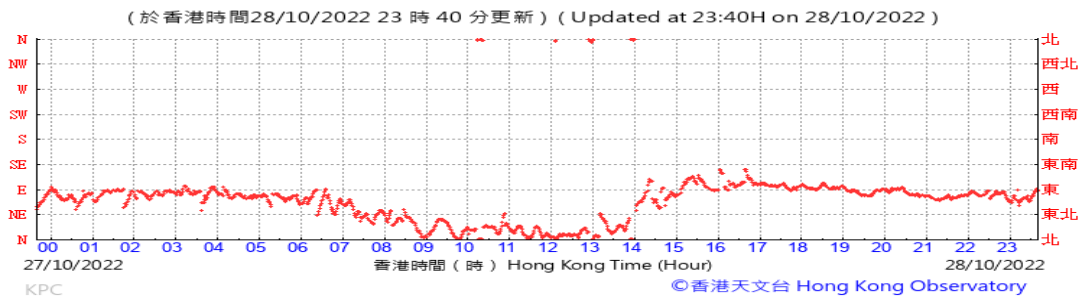
Temperature/Humidity:



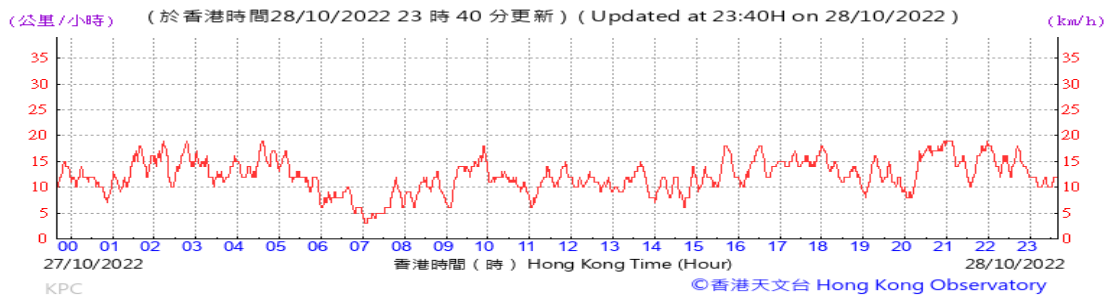
Pressure:



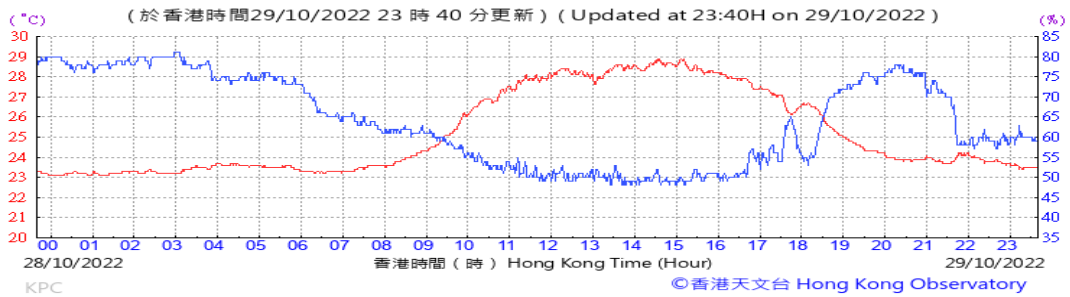
Wind Direction:



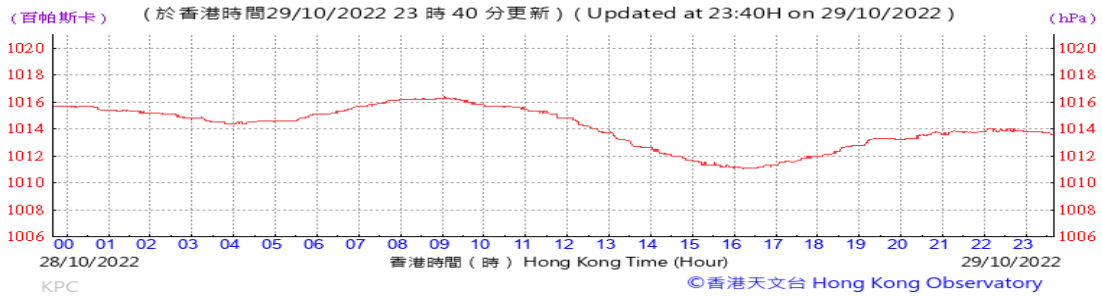
Wind Speed:



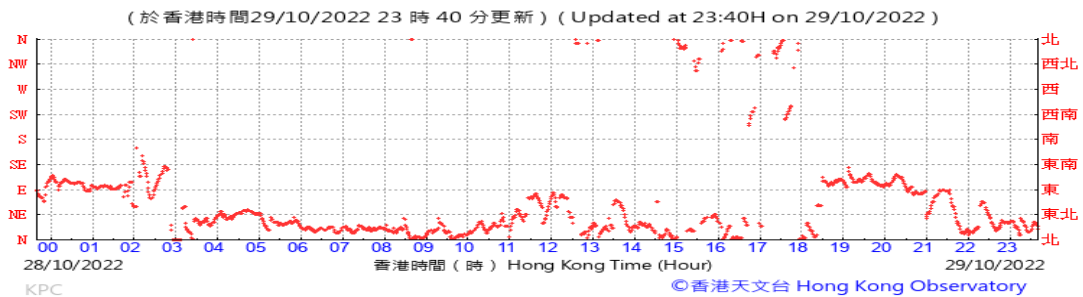
Temperature/Humidity:



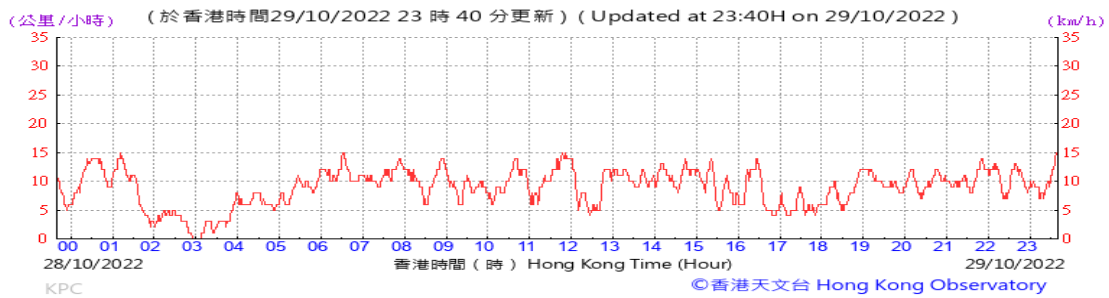
Pressure:



Wind Direction:



Wind Speed:

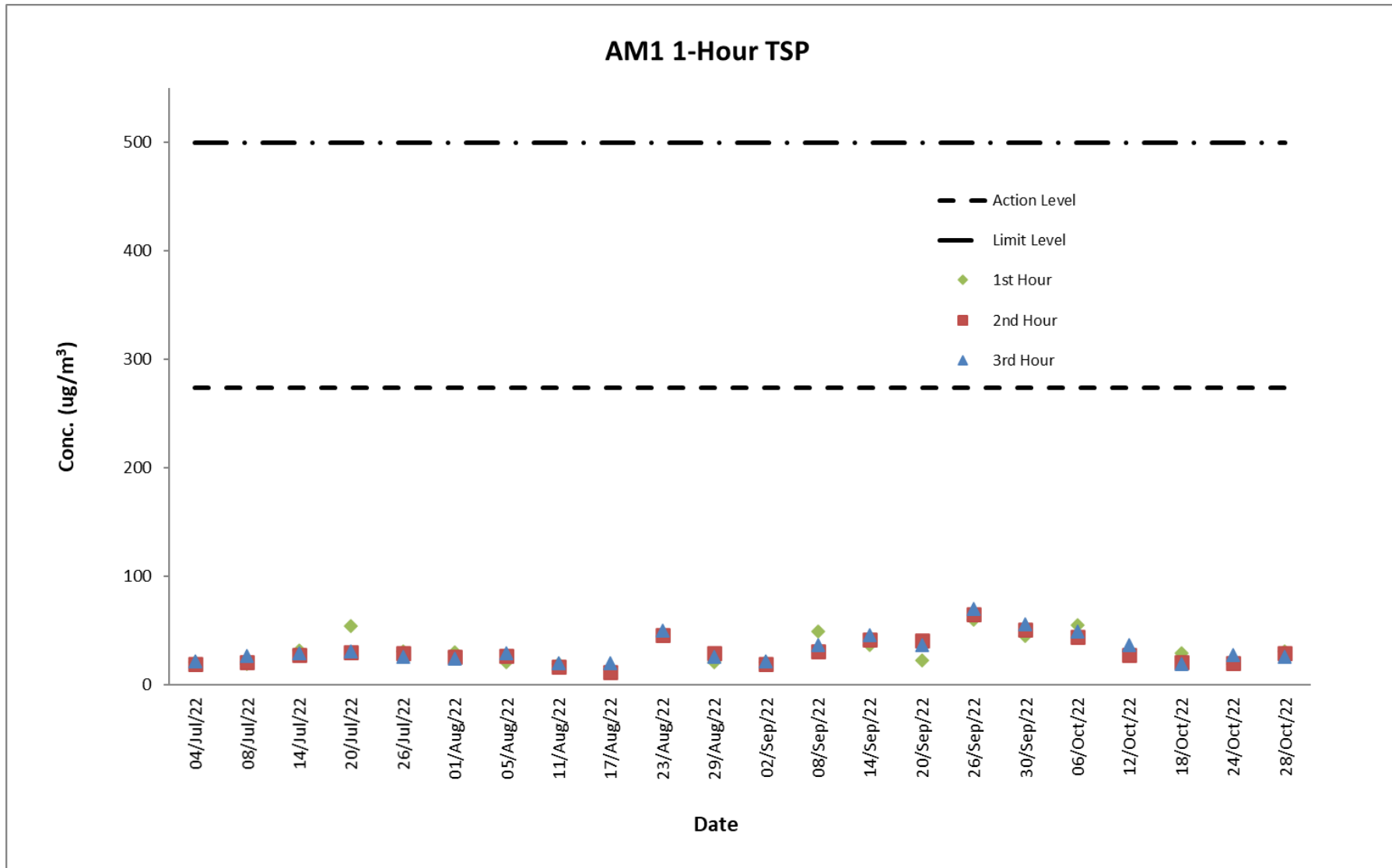


E. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
01-Aug-22	Sunny	8:22 - 11:22	30	26	24	273.7	500
05-Aug-22	Cloudy	8:33 - 11:33	21	27	29	273.7	500
11-Aug-22	Cloudy	8:28 - 11:28	19	17	20	273.7	500
17-Aug-22	Fine	8:20 - 11:20	14	12	20	273.7	500
23-Aug-22	Sunny	8:33 - 11:33	45	46	50	273.7	500
29-Aug-22	Cloudy	8:23 - 11:23	21	29	26	273.7	500
02-Sep-22	Fine	8:27 - 11:27	21	19	22	273.7	500
08-Sep-22	Sunny	8:23 - 11:23	49	31	37	273.7	500
14-Sep-22	Sunny	8:31 - 11:31	37	42	46	273.7	500
20-Sep-22	Cloudy	8:18 - 11:18	23	41	37	273.7	500
26-Sep-22	Sunny	8:27 - 11:27	60	65	70	273.7	500
30-Sep-22	Cloudy	8:22 - 11:22	45	51	56	273.7	500
06-Oct-22	Fine	8:22 - 11:22	55	44	49	273.7	500
12-Oct-22	Sunny	8:22 - 11:22	31	28	37	273.7	500
18-Oct-22	Cloudy	8:33 - 11:33	29	21	19	273.7	500
24-Oct-22	Fine	8:30 - 11:30	19	20	28	273.7	500
28-Oct-22	Sunny	8:28 - 11:28	31	29	26	273.7	500

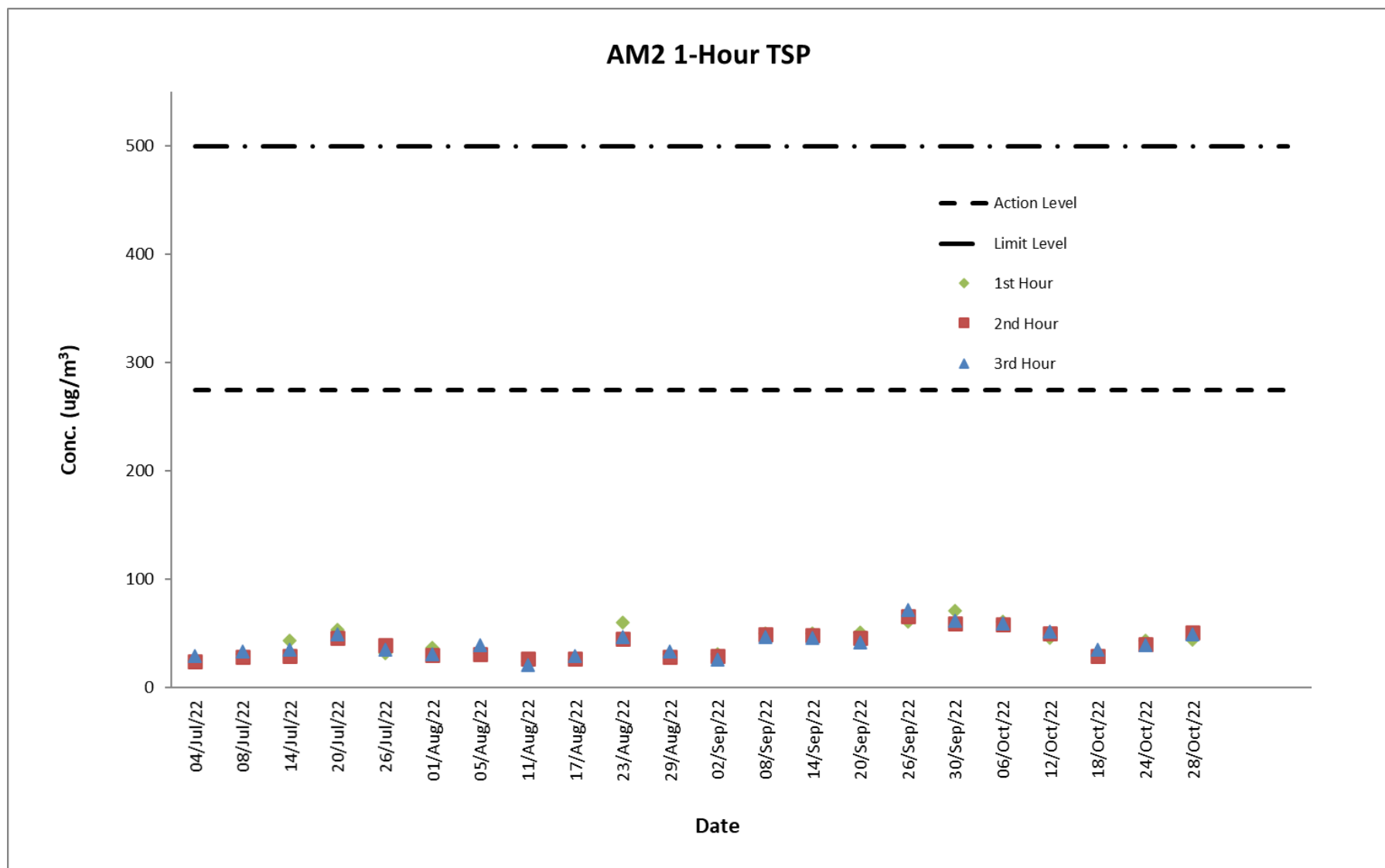
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (1-hour TSP)



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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
01-Aug-22	Sunny	8:37 - 11:37	37	30	31	274.2	500
05-Aug-22	Cloudy	8:48 - 11:48	32	31	39	274.2	500
11-Aug-22	Cloudy	8:42 - 11:42	24	27	21	274.2	500
17-Aug-22	Fine	8:34 - 11:34	26	27	29	274.2	500
23-Aug-22	Sunny	8:47 - 11:47	60	45	47	274.2	500
29-Aug-22	Cloudy	8:37 - 11:37	31	28	33	274.2	500
02-Sep-22	Fine	8:41 - 11:41	31	29	26	274.2	500
08-Sep-22	Sunny	8:37 - 11:37	50	49	47	274.2	500
14-Sep-22	Sunny	8:46 - 11:46	50	48	46	274.2	500
20-Sep-22	Cloudy	8:33 - 11:33	51	46	42	274.2	500
26-Sep-22	Sunny	8:42 - 11:42	61	66	72	274.2	500
30-Sep-22	Cloudy	8:36 - 11:36	71	59	62	274.2	500
06-Oct-22	Fine	8:34 - 11:34	61	58	59	274.2	500
12-Oct-22	Sunny	8:36 - 11:36	46	50	52	274.2	500
18-Oct-22	Cloudy	8:48 - 11:48	31	29	35	274.2	500
24-Oct-22	Fine	8:44 - 11:44	43	40	39	274.2	500
28-Oct-22	Sunny	8:43 - 11:43	44	51	49	274.2	500

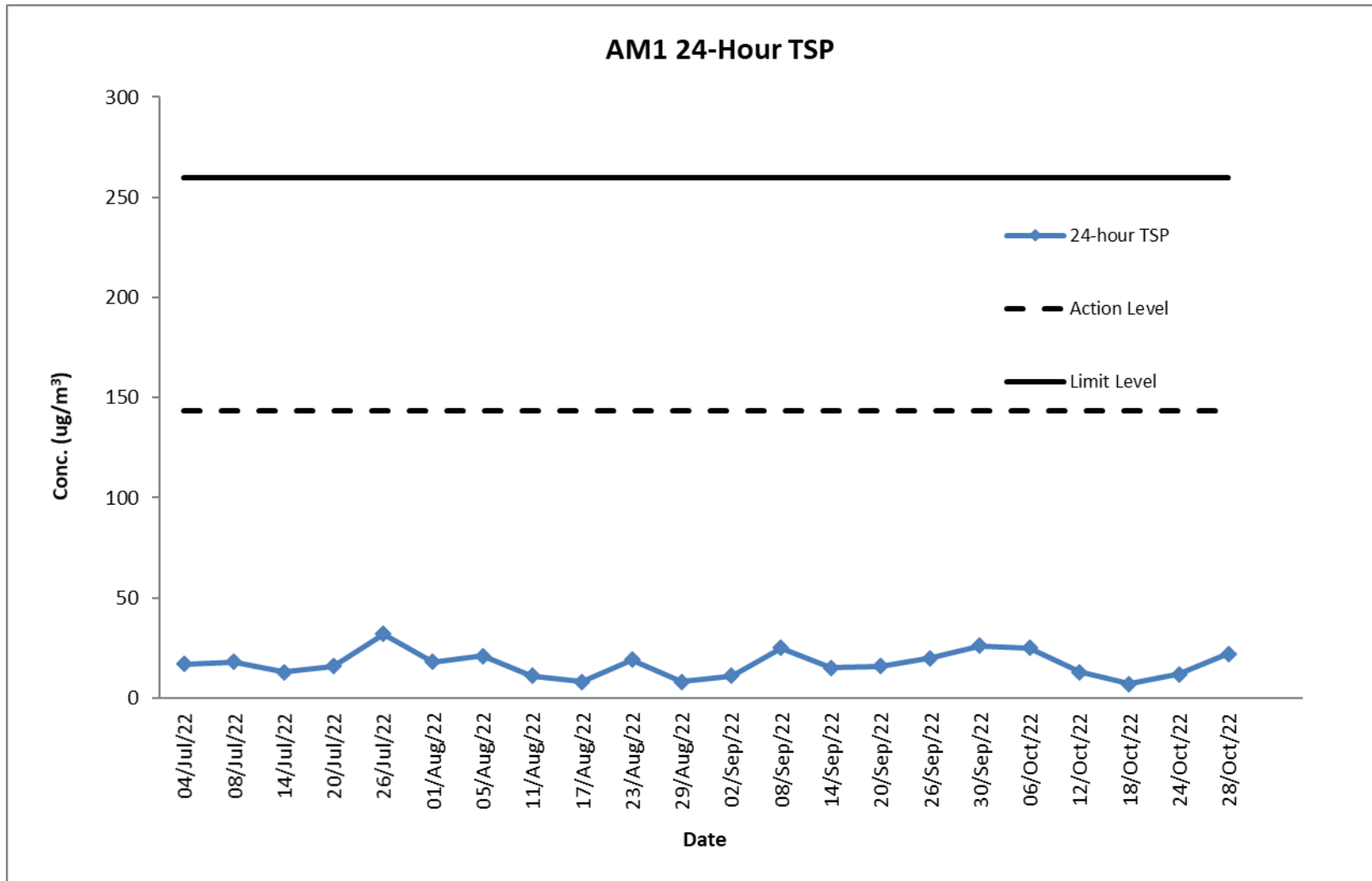
Graphical Presentation of Air Quality Monitoring Result at Station AM2 (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
01-Aug-22	08:20	02-Aug-22	08:20	2.7147	2.747	25280.38	25304.38	24	1.26	1.26	1.26	18	Sunny	143.6	260
05-Aug-22	08:30	06-Aug-22	08:30	2.7224	2.761	25304.38	25328.38	24	1.26	1.26	1.26	21	Cloudy	143.6	260
11-Aug-22	08:25	12-Aug-22	08:25	2.7259	2.745	25328.38	25352.38	24	1.26	1.26	1.26	11	Cloudy	143.6	260
17-Aug-22	08:18	18-Aug-22	08:18	2.7216	2.7361	25352.38	25376.38	24	1.26	1.26	1.26	8	Fine	143.6	260
23-Aug-22	08:30	24-Aug-22	08:30	2.7305	2.765	25376.38	25400.38	24	1.26	1.26	1.26	19	Sunny	143.6	260
29-Aug-22	08:20	30-Aug-22	08:20	2.7211	2.7356	25400.38	25424.38	24	1.26	1.26	1.26	8	Cloudy	143.6	260
02-Sep-22	08:25	03-Sep-22	08:25	2.7298	2.7505	25424.38	25448.38	24	1.26	1.26	1.26	11	Fine	143.6	260
08-Sep-22	08:20	09-Sep-22	08:20	2.7148	2.7597	25448.38	25472.38	24	1.26	1.26	1.26	25	Sunny	143.6	260
14-Sep-22	08:28	15-Sep-22	08:28	2.7326	2.7601	25472.38	25496.38	24	1.26	1.26	1.26	15	Sunny	143.6	260
20-Sep-22	08:15	21-Sep-22	08:15	2.7215	2.7503	25496.38	25520.38	24	1.26	1.26	1.26	16	Cloudy	143.6	260
26-Sep-22	08:25	27-Sep-22	08:25	2.7194	2.7560	25520.38	25544.38	24	1.26	1.26	1.26	20	Sunny	143.6	260
30-Sep-22	08:20	01-Oct-22	08:20	2.7194	2.7663	25544.38	25568.38	24	1.26	1.26	1.26	26	Cloudy	143.6	260
06-Oct-22	08:20	07-Oct-22	08:20	2.7209	2.7655	25568.38	25592.38	24	1.26	1.26	1.26	25	Fine	143.6	260
12-Oct-22	08:20	13-Oct-22	08:20	2.7389	2.7633	25592.38	25616.38	24	1.26	1.26	1.26	13	Sunny	143.6	260
18-Oct-22	08:30	19-Oct-22	08:30	2.7656	2.7792	25616.38	25640.38	24	1.26	1.26	1.26	7	Cloudy	143.6	260
24-Oct-22	08:28	25-Oct-22	08:28	2.7590	2.7811	25640.38	25664.38	24	1.26	1.26	1.26	12	Fine	143.6	260
28-Oct-22	08:25	29-Oct-22	08:25	2.7838	2.8242	25664.38	25688.38	24	1.26	1.26	1.26	22	Sunny	143.6	260

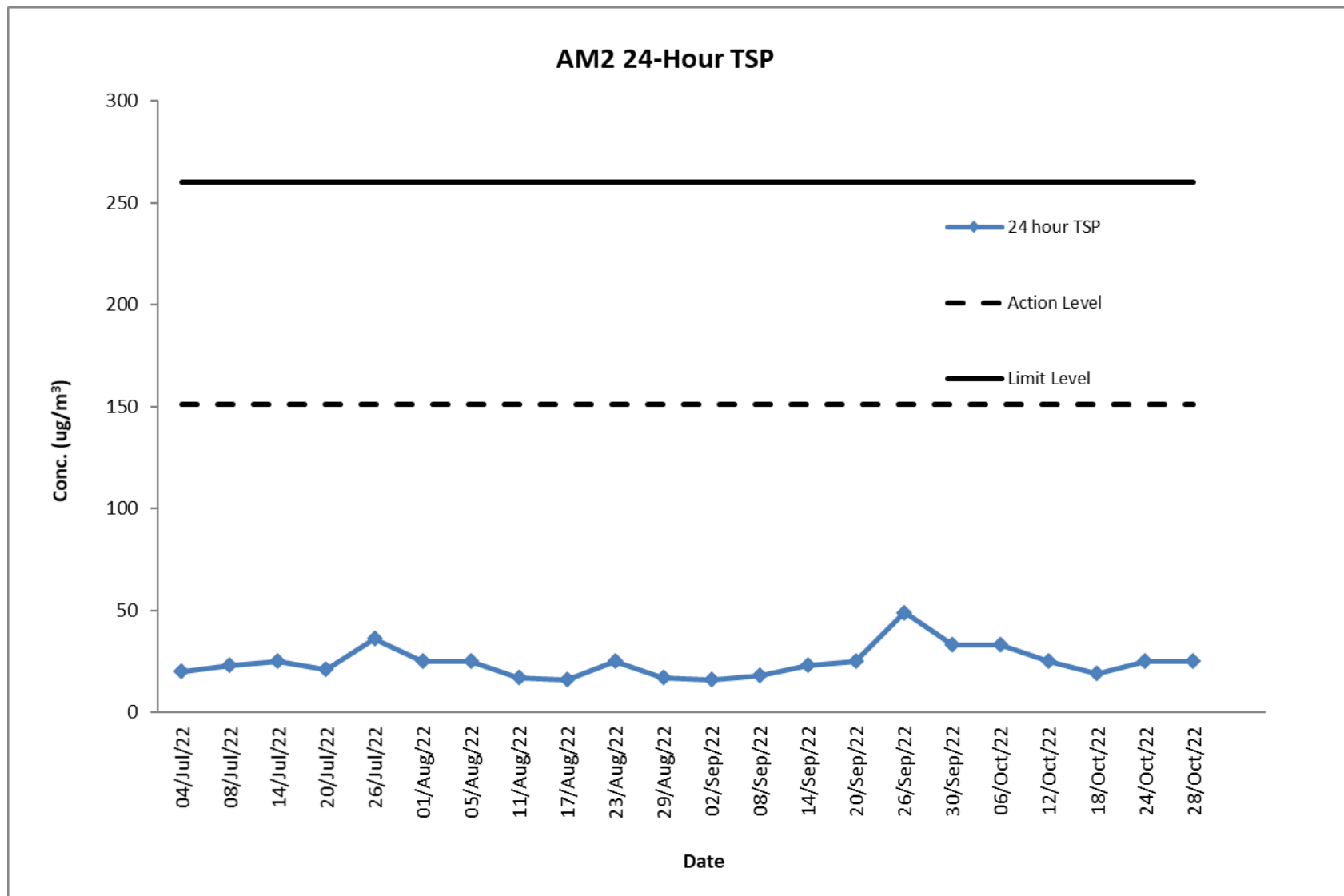
Graphical Presentation of Air Quality Monitoring Result at Station AM1 (24-hour TSP)



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

Start		Finish		Sampling Time (hrs)	Conc. ($\mu\text{g}/\text{m}^3$)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time					
01-Aug-22	08:34	02-Aug-22	08:34	24	25	Sunny	151.1	260
05-Aug-22	08:45	06-Aug-22	08:45	24	25	Cloudy	151.1	260
11-Aug-22	08:40	12-Aug-22	08:40	24	17	Cloudy	151.1	260
17-Aug-22	08:32	18-Aug-22	08:32	24	16	Fine	151.1	260
23-Aug-22	08:45	24-Aug-22	08:45	24	25	Sunny	151.1	260
29-Aug-22	08:35	30-Aug-22	08:35	24	17	Cloudy	151.1	260
02-Sep-22	08:39	03-Sep-22	08:39	24	16	Fine	151.1	260
08-Sep-22	08:35	09-Sep-22	08:35	24	18	Sunny	151.1	260
14-Sep-22	08:43	15-Sep-22	08:43	24	23	Sunny	151.1	260
20-Sep-22	08:30	21-Sep-22	08:30	24	25	Cloudy	151.1	260
26-Sep-22	08:39	27-Sep-22	08:39	24	49	Sunny	151.1	260
30-Sep-22	08:34	01-Oct-22	08:34	24	33	Cloudy	151.1	260
06-Oct-22	08:32	07-Oct-22	08:32	24	33	Fine	151.1	260
12-Oct-22	08:34	13-Oct-22	08:34	24	25	Sunny	151.1	260
18-Oct-22	08:45	19-Oct-22	08:45	24	19	Cloudy	151.1	260
24-Oct-22	08:42	25-Oct-22	08:42	24	25	Fine	151.1	260
28-Oct-22	08:40	29-Oct-22	08:40	24	25	Sunny	151.1	260

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



Noise Monitoring Result at Station NM1A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
01-Aug-22	09:21	65.3	61.4	67
01-Aug-22	09:26	66.2	62.8	
01-Aug-22	09:31	67.9	63.2	
01-Aug-22	09:36	66.0	62.5	
01-Aug-22	09:41	65.7	61.0	
01-Aug-22	09:46	65.4	61.7	
11-Aug-22	09:26	65.3	61.4	67
11-Aug-22	09:31	64.5	60.5	
11-Aug-22	09:36	64.9	60.6	
11-Aug-22	09:41	65.7	61.9	
11-Aug-22	09:46	66.0	62.6	
11-Aug-22	09:51	66.1	62.3	
17-Aug-22	09:18	65.4	61.4	67
17-Aug-22	09:23	64.3	60.5	
17-Aug-22	09:28	66.2	62.6	
17-Aug-22	09:33	65.0	61.9	
17-Aug-22	09:38	65.8	61.7	
17-Aug-22	09:43	66.6	62.1	
23-Aug-22	09:32	65.8	61.3	67
23-Aug-22	09:37	66.1	62.4	
23-Aug-22	09:42	65.0	61.5	
23-Aug-22	09:47	64.5	60.8	
23-Aug-22	09:52	65.7	61.7	
23-Aug-22	09:57	66.6	62.0	
29-Aug-22	09:21	65.7	61.4	67
29-Aug-22	09:26	66.3	62.5	
29-Aug-22	09:31	65.2	61.9	
29-Aug-22	09:36	65.4	61.7	
29-Aug-22	09:41	66.0	62.3	
29-Aug-22	09:46	66.1	62.0	
08-Sep-22	09:23	64.4	60.6	67
08-Sep-22	09:28	65.5	61.7	
08-Sep-22	09:33	65.2	61.2	
08-Sep-22	09:38	66.9	62.0	
08-Sep-22	09:43	67.0	63.4	
08-Sep-22	09:48	66.7	62.9	
14-Sep-22	09:30	65.4	61.6	67
14-Sep-22	09:35	66.5	62.3	
14-Sep-22	09:40	66.7	62.2	
14-Sep-22	09:45	65.1	61.8	
14-Sep-22	09:50	66.8	62.7	
14-Sep-22	09:55	66.0	62.1	
20-Sep-22	09:17	64.4	60.6	66
20-Sep-22	09:22	65.7	61.5	
20-Sep-22	09:27	65.2	61.8	
20-Sep-22	09:32	64.3	60.3	
20-Sep-22	09:37	65.0	61.1	
20-Sep-22	09:42	66.9	62.0	
26-Sep-22	09:25	65.4	61.3	66
26-Sep-22	09:30	66.2	62.6	
26-Sep-22	09:35	64.1	60.6	
26-Sep-22	09:40	64.7	60.2	
26-Sep-22	09:45	65.9	61.9	
26-Sep-22	09:50	66.5	62.0	

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
06-Oct-22	09:18	65.4	61.4	68
06-Oct-22	09:23	66.6	62.3	
06-Oct-22	09:28	67.2	63.7	
06-Oct-22	09:33	66.0	62.9	
06-Oct-22	09:38	66.9	62.1	
06-Oct-22	09:43	67.5	63.0	
12-Oct-22	09:20	64.1	60.5	67
12-Oct-22	09:25	65.3	61.6	
12-Oct-22	09:30	66.2	62.7	
12-Oct-22	09:35	66.8	62.9	
12-Oct-22	09:40	65.0	61.2	
12-Oct-22	09:45	66.7	62.0	
18-Oct-22	09:33	66.3	62.4	68
18-Oct-22	09:38	67.7	63.5	
18-Oct-22	09:43	67.2	63.8	
18-Oct-22	09:48	66.9	62.1	
18-Oct-22	09:53	66.0	62.7	
18-Oct-22	09:58	67.6	63.6	
24-Oct-22	09:28	65.5	61.6	67
24-Oct-22	09:33	65.0	61.6	
24-Oct-22	09:38	66.1	62.1	
24-Oct-22	09:43	66.2	62.8	
24-Oct-22	09:48	65.9	61.4	
24-Oct-22	09:53	66.7	62.3	

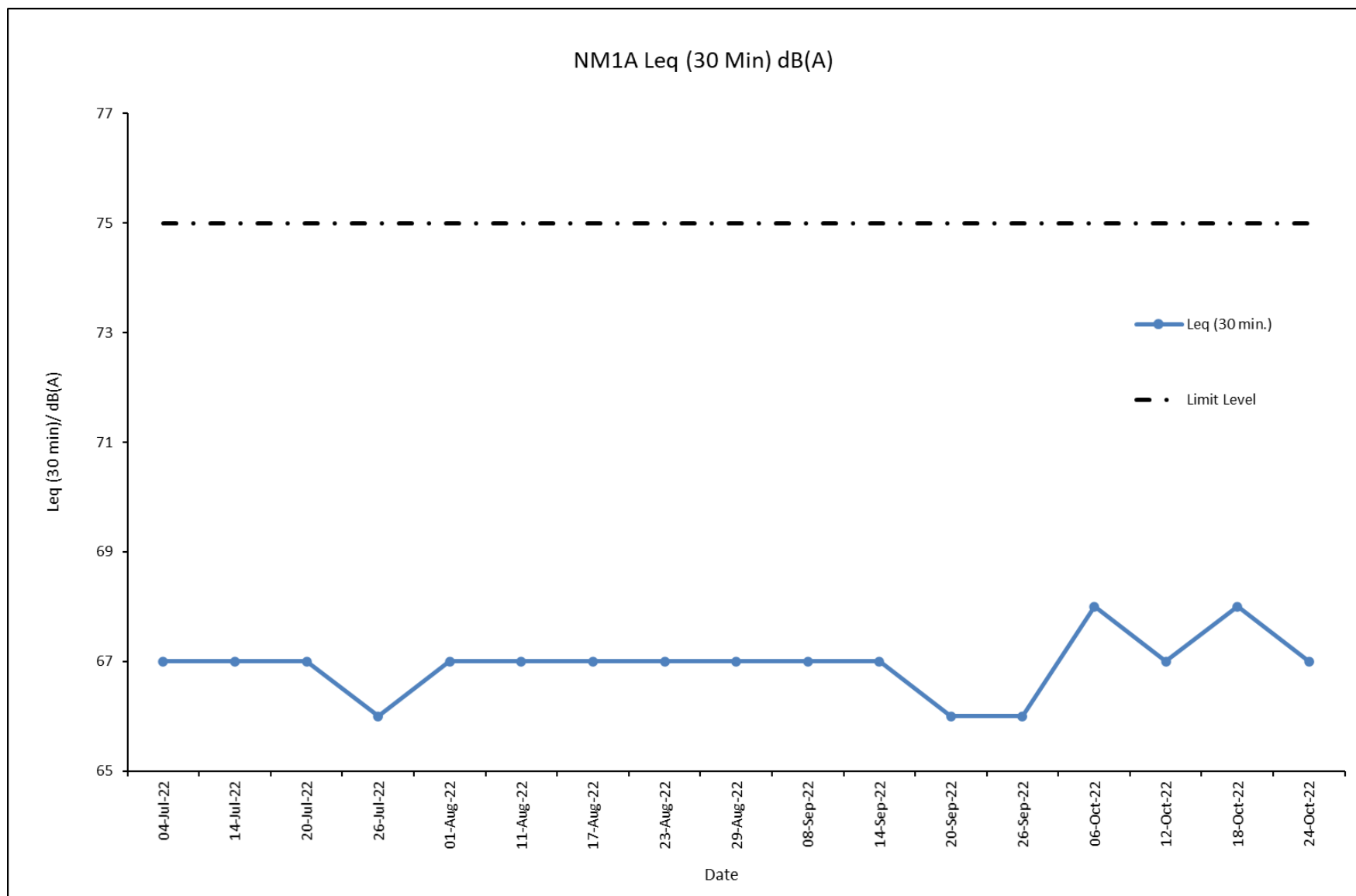
Remarks:

+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

Table F-1: Monthly Waste Flow Table for Lyric Theatre Complex

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	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	8600.8	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	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)
2020													
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	881.7
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	355.2
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	62.9	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	85.9	0.3	0.0	0.0	0.0	485.6
Nov	203.9	0.0	0.0	0.0	203.9	0.0	0.0	65.9	0.0	0.0	0.0	0.0	609.6
Dec	576.6	0.0	0.0	0.0	576.6	0.0	0.0	13.4	0.0	0.0	0.0	0.0	590.6
Sub-total (2021)	7905.3	0.0	0.0	0.0	7346.9	558.5	0.0	2708.2	4.4	0.1	0.0	0.4	6315.9

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Sorting Facility	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)
2022													
Jan	579.3	0.0	0.0	0.0	579.3	0.0	0.0	23.5	0.4	0.0	0.0	0.0	565.5
Feb	58.9	0.0	0.0	0.0	58.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	172.2
Mar	412.8	0.0	0.0	0.0	412.8	0.0	0.0	12.4	0.3	0.0	0.0	0.0	339.8
Apr	390.2	0.0	0.0	0.0	390.2	0.0	0.0	24.8	0.0	0.0	0.0	0.0	390.9
May	350.1	0.0	0.0	0.0	342.9	7.2	0.0	44.3	0.3	0.1	0.0	0.0	401.9
Jun	200.4	0.0	0.0	0.0	200.4	0.0	0.0	21.1	0.0	0.0	0.0	1.1	447.8
Jul	166.8	0.0	0.0	0.0	166.8	0.0	0.0	6.3	0.3	0.0	0.0	0.7	343.9
Aug	150.9	0.0	0.0	0.0	150.9	0.0	0.0	9.6	0.4	0.2	0.0	0.0	410.6
Sep	437.6	0.0	0.0	0.0	437.6	0.0	0.0	11.5	0.3	0.0	0.0	0.0	348.3
Oct	708.0	0.0	0.0	0.0	708.0	0.0	0.0	13.8	0.0	0.0	0.0	0.0	353.0
Sub-total (2022)	3454.9	0.0	0.0	0.0	3447.8	7.2	0.0	167.3	2.0	0.3	0.0	1.8	3773.9
Total	998056.8	0.0	0.0	543635.2	453421.7	999.9	2301.1	10171.1	12.3	10.8	0.0	14.7	15068.1

Note:

(1) 768.18, 528.3 and 0 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.

(2) The values in the table are rounded off to 1 decimal place.

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 22 – Oct 22)	6	0	0
From 1 March 2016 to end of the reporting quarter	54	0	0

END OF PART-1

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

Foundation and ELS 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 and Zone 2B & 2C from 1 August 2022 to 31 October 2022.

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 this reporting quarter.

Four Action Level exceedances (due to four noise related environmental complaints) 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 and Zone 2B & 2C from 1 August 2022 to 31 October 2022. 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

- ELS (Stage 1) – Grouting / Pipe Pile Works
 - Stage 2 Grouting
- Pumping Test
 - Pumping Test

- BA14 Submission
 - Prepare and Submit BA14
 - BD Acknowledgement of BA14
- Hoarding Modification
 - Hoarding Modification

Zone 2A-2

- BA14 Submission
 - Prepare and Submit BA14
 - BD Acknowledgement of BA14

During the reporting period, construction works at Zone 2B & 2C undertaken include:
 KD03 (Stage 3-1), KD06 (Section 2), KD07 (Section 3)

- Bored Pile Works
 - RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation

KD05 (Section 1)

- Predrilling
- Bored Pile Works
 - RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation

KD08 (Section 4)

- Bored Pile Works
 - RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation
- Socketed Steel H Piling

KD09 (Section 5)

- Predrilling
- Bored Pile Works
 - RCD Drilling, Airlifting, Cage Installation & Concreting and Excavation
- Socketed Steel H Piling

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/m ³	260 µg/m ³
	1-Hour TSP	AM3 - The Victoria Towers Tower 1	At least 3 times every 6 days	280.4 µg/m ³	500 µg/m ³
	24-Hour TSP	AM4 - Canton Road Government Primary School	At least once every 6 days	152.6 µg/m ³	260 µg/m ³
	1-Hour TSP	AM4 - Canton Road Government Primary School	At least 3 times every 6 days	278.5 µg/m ³	500 µg/m ³
	24-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least once every 6 days	141.1 µg/m ³	260 µg/m ³
	1-Hour TSP	AM5 - Topside Developments at West Kowloon Terminus Site	At least 3 times every 6 days	275.4 µg/m ³	500 µg/m ³
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 2A. 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	AM3A	35	73	55
1 hour TSP	AM4A	31	77	54
1 hour TSP	AM5A	31	76	55
24 hour TSP	AM3A	31	68	51
24 hour TSP	AM4A	30	68	50
24 hour TSP	AM5A	29	66	50
Construction Noise				
Leq(30min)	NM2A	61	62	62
Leq(30min)	NM3A	62	65	64
Leq(30min)	NM4A	61	65	63
Leq(30min)	NM5A	64	66	65

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 Exceedance		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)	4 exceedances due to noise related environmental complaints	0	Strengthen the implementation of noise mitigation measures
NM3A	Leq(30min)		0	
NM4A	Leq(30min)		0	
NM5A	Leq(30min)		0	

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. Four Action Level exceedances (due to noise related environmental complaints) 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, 56.64 tonnes and 156.53 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 and Tuen Mun Area 38 respectively in the reporting quarter, while 31.70 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 plastic and 0.0 tonne of timber were collected by recycling contractors in the reporting quarter. 104.29 tonnes of inert C&D materials were reused on site. 0.0 tonne of fill materials were imported for use at site and 0.0 tonne of inert C&D materials was reused in other projects. 5.75 tonnes of inert C&D materials were disposed to sorting facility and 0.0 tonne 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, 20.40 tonnes, 26353.06 tonnes and 71638.46 tonnes of inert C&D material were disposed of as public fill to Chai Wan Public Fill Barging Point, Tseung Kwan O Area 137 and Tuen Mun Area 38 respectively in the reporting quarter, while 88.37 tonnes of general refuse were disposed of at SENT landfill. 102.43 tonnes 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. 11276.93 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 8848.07 tonnes 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.

Four Action Level exceedances due to noise related environmental complaints with no Limit Level exceedance of Construction Noise was recorded in the reporting quarter.

Six complaints were received in the reporting quarter. Two complaints in August, two complaints in September and two complaints in October. No notifications of summons and successful prosecutions were received in the reporting quarter.

On 23 August 2022, the EPD has received a complaint from a public regarding polluted water discharge at WKCD construction on Sunday, and referred it to the WKCDA on 24 August 2022. The complainant claimed that "尖沙咀近西九地盤星期日有泥水流出維港" (There was muddy water flowing out to the Victoria Harbour from WKCD construction site, which is near to the Tsim Sha Tsui, on Sunday.) Investigation at Zone 2A site revealed that no construction activity was undertaken on Zone 2A site on Sundays. Thereby, the complaint might not be attributable to the Zone 2A site. Nonetheless, the Contractor is recommended to strictly maintain good site practices to avoid water pollution to the waterbody of Victoria Harbour. Investigation at Zone 2B & 2C site revealed that no construction works involving muddy water discharge were conducted and no water discharge was made on 21 August 2022, protective measures were observed effective in preventing potential overflow from the site. Based on the description and photos provided by the complainant, the concerned water discharge observed might possibly from the existing DN1350 pipeline outlet which is an underground permanent drainage pipeline connected from the public area to the waterbody of Victoria Harbour nearby the seafront site boundary of Zone 2B & 2C site. Thereby, the complaint might not be attributable to the Zone 2B & 2C site. Nonetheless, the Contractor is recommended to strictly maintain good site practices to avoid water pollution to the waterbody of Victoria Harbour.

WKCD Contact Centre has received a complaint from a resident from the Arch, Ms. Chiu, regarding noise nuisance, air pollution, nighttime light nuisance and crane boom affected the residential view on 26 August 2022; the EPD has also received the same complaint referred by the Mr. HUNG, the district councillor, on 29 August 2022; and the complaint was referred to the WKCDA on 26 and 29 August 2022 respectively. The complainant claimed that "本人居於九龍站上蓋凱旋門單位，面向中環及灣仔海景及西九文化區，但係可惜 西九文化區附近的數個地盤工地正正就在本人住宅單位面向的範圍，雖然本人已經住在三十幾樓的高層但卻飽受工地的噪音滋擾、空氣污染、晚上燈光滋擾及吊臂影響住宅景觀! 這工地在晨早七時已經開工，晚上六時還不收工，在早上 極度嘈吵的工地噪音把本人及家人吵醒，而且製造極大的空氣污染及塵埃，並長期積水和衛生問題引來很多蚊蟲飛入本人的單位，試想像怎可能在三十幾樓的單位都會有蚊蟲飛入?! 管理處告知經調查是工地附近的積水所致! 加上晚上六七時，工地還沒有關閉，晚上開著的巨型射燈的燈光非常影響我們住戶的休息! 加上工地的十數支吊臂有礙我們海景的景觀，而且有四支非常高的吊臂高致我們 30 多樓，完全有礙觀瞻及影響我們住戶的風水! 在此，我們鄭重地向 西九文化區作出投訴，對於政府管理工地不善，任由工地的承辦商在早上及晚上運作，並且在沒有 運作的時間也不把吊臂退下來，持續有礙我們的景觀，而且空氣、聲音及光線污染非常嚴重地令我們的生活，我們受到極嚴重困擾! 對此我們強烈地譴責政府的管理不善，並要求相關部門從速改善和監管工地

的承辦商!" The complainant claimed that the construction works at WKCD during morning and nighttime causing air, noise, light pollution and landscape & visual impact which seriously affected the complainant. The complainant has raised concerns as below: 1. Noise was generated in the early morning at 7am and construction works continue after 6pm which cause disturbance to the complainant; 2. Large amount of dust was generated from construction sites causing air pollution; 3. Stagnant water and sanitation problems have attracted many mosquitoes to fly into the complainant's premises; 4. Light from the giant spotlight turned on during nighttime affected the resting time of the residents; 5. Dozen of jibs from the cranes on the construction sites and four particularly high jibs which obstructed the view of the complainant's premises. Investigation at Zone 2A site revealed that the major construction activities on Zone 2A were carried out between 8:30 am and 6:30 pm in August 2022 (from Monday to Saturday). There was no nighttime work on Zone 2A site, and no work was carried on Sundays and Public Holidays. Preventive and mitigation measures for noise, dust, mosquito and visual have been implemented and properly maintained on-site. Thereby, the complaint might not be attributable to the Zone 2A site. Nonetheless, the Contractor is recommended to strictly implement and maintain good site practices to reduce impacts to the nearby neighbors. Investigation at Zone 2B & 2C site revealed that some concerned noise might possibly be related to the construction activities carried out on WKCD Zone 2B & 2C site. However, these construction activities were in compliance with the permitted working hours based on the granted CNP No.GW-RE0718-22. Preventive and mitigation measures for noise, dust, mosquito and visual have been implemented and properly maintained on-site. Thereby, the complaint might not be completely attributable to the Zone 2B & 2C site. Nonetheless, the Contractor is recommended to strictly maintain good site practices to avoid noise, dust, and visual impact to the nearby neighbors.

On 04 September 2022, the EPD has received a complaint from a public regarding polluted water discharge at WKCD construction site on 26 July 2022 and referred the case to the WKCDA on 05 September 2022. Investigation at Zone 2A site revealed that the location of the concerned feculent water was not within the boundary of Zone 2A site. There was no feculent water flowing from Zone 2A site into the waterbody of Victoria Harbor during the self-inspection and neither from the picture provided by the complainant. No abnormalities were found at the Zone 2A site boundary. Thereby, the concerned feculent water on 26 July 2022 was not from WKCD Zone 2A site. Protective measures were properly maintained to avoid water leakage from the site. Thereby, the complaint might not be attributable to the Zone 2A site. Observed feculent brownish debris spread on 26 July 2022 from the pier of Tsim Sha Tsui Fire Station into the waterbody of Victoria Harbor, might possibly be the source of the feculent water showed at the pier of Tsim Sha Tsui Fire Station in one of the pictures provided by the complainant. Nonetheless, the Contractor is recommended to strictly maintain good site practices to avoid water pollution. Investigation at Zone 2B & 2C site revealed that the locations of the concerned discharge were not within the boundary of Zone 2B & 2C site. Thereby, the complaint might not be attributable to the Zone 2B & 2C site. Nonetheless, the Contractor is recommended to strictly maintain good site practices to avoid water pollution to the waterbody of Victoria Harbour.

On 08 September 2022, the EPD has received a complaint from a public regarding noise pollution at WKCD construction site and referred the case to the WKCDA on the same day. The complainant claimed that: “居民投訴西九龍文化區 3B 區打樁噪音, 今早 07:00 開始, 要求環保署跟進回覆. 早上七時太早” (Resident claims that noise generated from piling works from WKCD Zone 3B starting from early morning at 7 a.m.). Investigation at Zone 2A site revealed that no site activity was conducted before 8:00 a.m. and no piling work was carried out on Zone 2A site on 08 September 2022. Thereby, the complaint might not be attributable to the Zone 2A site. Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the

nearby residents. Investigation at Zone 2B & 2C site revealed that some noise might be related to the general construction activities conducted at Zone 2B & 2C site. However, those construction activities were conducted from 7:00 a.m. to 7:00 p.m., which were within statutory working hour; and there was no percussive piling conducted at Zone 2B & 2C site on 08 September 2022. Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby residents.

On 07 October 2022, the EPD and Communications and Public Affairs Department/WKCDA have received a complaint from Mr. Leung, assistant of Mr. HUNG, the district councilor of Yau Tsim Mong District Council (YTMD), regarding noise pollution at WKCD construction site. The complainant claimed that: “本年 3 月至 4 月期間，就本辦事處轉介九龍站住戶投訴有關西九文化區地盤每天早上持續發出高頻率的施工噪音滋擾問題，感謝閣下於本年 5 月份回函並採取了多項措施，有關施工噪音滋擾情況亦見有所改善。然而，近日再次接連收到有居民投訴，上述地盤的噪音滋擾又趨嚴重，每天早上 7 時已經開動大型機器，直至晚上 8 時地盤仍有很大的噪音發出(請見附件由居民拍攝的短片)，實在非常擾民。由於西九文化區地盤頗為鄰近九龍站民居，希望 貴局正視施工噪音嚴重影響附近居民作息和日常生活，敦促承辦商避免在平日早上 9 時前及晚上 7 時後及公眾假期進行高噪音工序，盡量減低對居民的滋擾。” (Residents from The Arch claim that noise generated from WKCD construction site starting from 7:00 am and until 8:00 pm caused disturbance to nearby resident. Mr. Leung has reminded WKCDA and the Contractors avoid noisy works before 9:00 am and after 7:00 pm on normal weekdays and on public holidays to minimise nuisance to the residents.) The complainant has also provided a video clip demonstrating the concerned noise during nighttime on 05 October 2022. Investigation at Zone 2A site revealed that no site activity was conducted before 8:00 am and after 7:00 pm (no nighttime work) on Zone 2A site in October 2022. Thereby, the complaint might not be attributable to the Zone 2A site (based on the described noise source and video clip provided by the complainant). Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby residents. Investigation at Zone 2B & 2C site revealed that some noise might be related to the construction activities conducted at Zone 2B & 2C site. However, those construction activities were conducted within statutory working hours and under the approved construction noise permit (GW-RE0984-22) during restricted hours. Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby residents.

On 29 October 2022, the EPD has received a complaint from Mr. Leung, assistant of Mr. HUNG, the district councilor of Yau Tsim Mong District Council (YTMD), regarding noise pollution at WKCD construction site, and referred to WKCDA on 31 October 2022. The complainant claimed that: “本辦事處持續收到九龍站居民投訴西九文化區地盤施工造成噪音和塵埃滋擾，近日再有投訴，指西九文化區地盤晚上 10 時多仍在施工，噪音影響居民正常作息 (請見附件短片)。現特函促請 環保署派員巡查確保地盤施工符合環保條例規定，敦促承辦商加強地盤的隔音措施，避免在早上 9 時前及晚上 7 時後進行高噪音工序，盡量減低對居民的滋擾。” (The complainant claimed that WKCD construction site is still under construction after 10:00 pm, and the noise caused disturbance to nearby residents. The complainant also reminded the Contractors to strengthen the noise mitigation measures and avoid noisy works before 9:00 am and after 7:00 pm to minimise nuisance to the residents.) The complainant has also provided a video clip showing the concerned noise source during nighttime works. Investigation at Zone 2A site revealed that no site activity was conducted before 8:00 am and after 7:00 pm (no nighttime works) on WKCD Zone 2A site in October 2022. Thereby, the complaint may not be attributable to the Zone 2A site. Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on

site, and strengthen the implementation of noise mitigation measures to reduce impacts to the nearby residents. Investigation at Zone 2B & 2C site revealed that the concerned noise might be related to the construction activities carried out on 28 October 2022 at Zone 2B & 2C site. Therefore, the complaint might be attributable to the Zone 2B & 2C site. However, those construction activities were conducted under the approved construction noise permit (No. GW-RE0984-22) during the restricted hours. Nonetheless, the Contractor is recommended to maintain close monitoring of noise control on site, and strengthen the implementation of noise mitigation measures to reduce impacts to the 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 and landscape inspections, and construction dust and noise monitoring results, no non-compliances and exceedances of air quality and construction 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 since the construction works of Zone 2A and Zone 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 and 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 this reporting quarter. Four Action Level exceedances (due to noise related environmental complaints) 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

B.O REF:

F.S.D REF:

REF PLAN:



- NOTES:
- WKCD BOUNDARY
 - M+ MUSEUM BOUNDARY
 - LYRIC THEATRE BOUNDARY
 - BOUNDARY OF UNDERPASS ROAD SERVING THE PLANNED WKCD
 - X CONSTRUCTION AIR/NOISE MONITORING STATION

REMARKS:
THE AIR MONITORING STATION AM2A HAS BEEN RELOCATED TO THE ALTERNATIVE MONITORING STATION AM2B AT 1ST FLOOR OF GAMMON'S SITE OFFICE ON 26 FEBRUARY 2019.

- Zone 2A Boundary
- Zone 2B & 2C Boundary

REV.	DATE	DESCRIPTION	INITIAL

REV.	DATE	DESCRIPTION	INITIAL

JOB TITLE: DEVELOPMENT AT WEST KOWLOON CULTURAL DISTRICT

DRAWING TITLE: SITE LAYOUT PLAN AND MONITORING STATIONS

SCALE: 1:50 PRINTED: A1

CHECKED: DATE

APPROVED: DATE

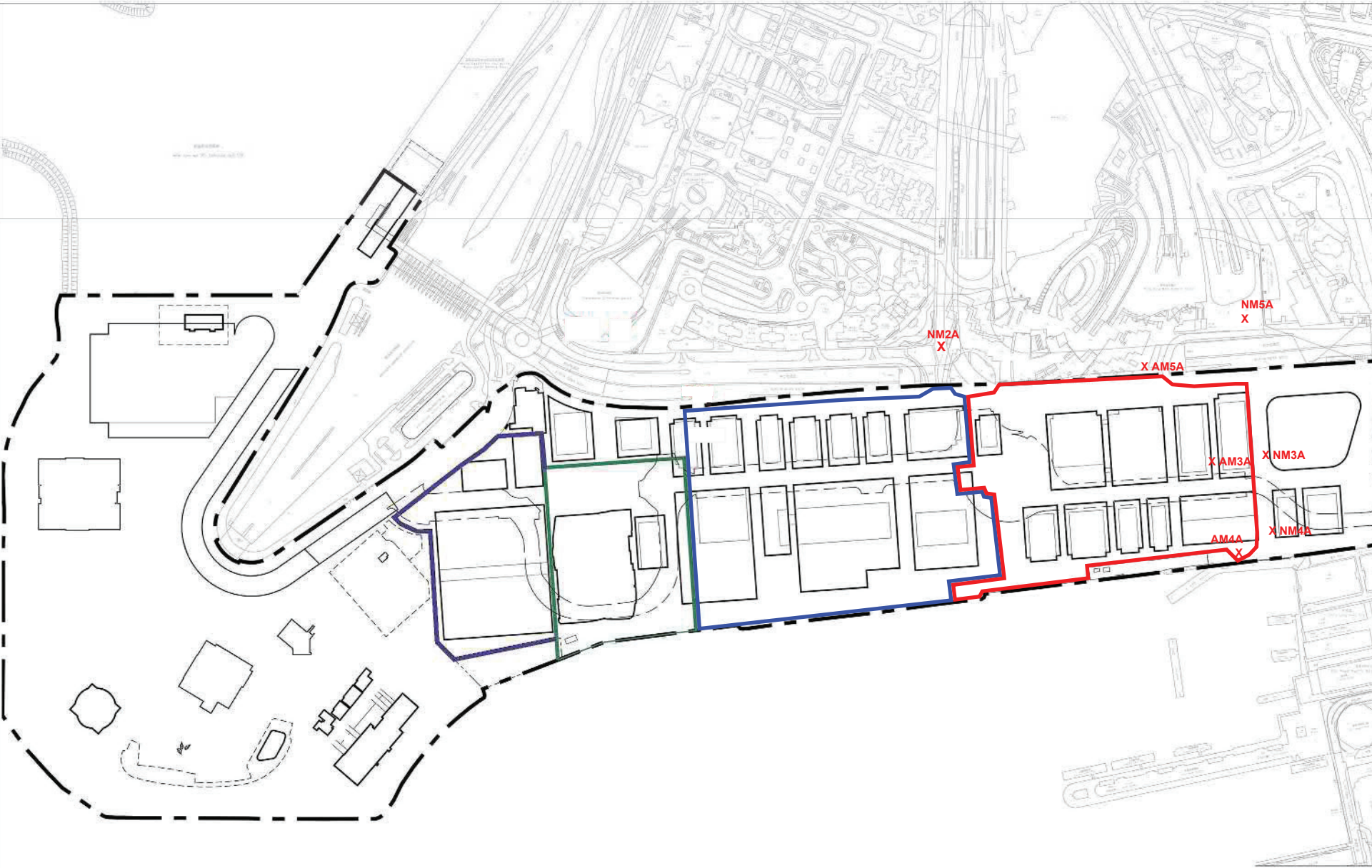
DRAWN: TY DATE: 15-10-2015

CONTRACT NO:

DRAWING NO: FIGURE 1 REV: XX

SAD REF NAME: XXXXX\A1\FIG DWS PROJ\001\000\000.dwg

AUTHORITY: westKowloon 西九文化區



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

Project Organization

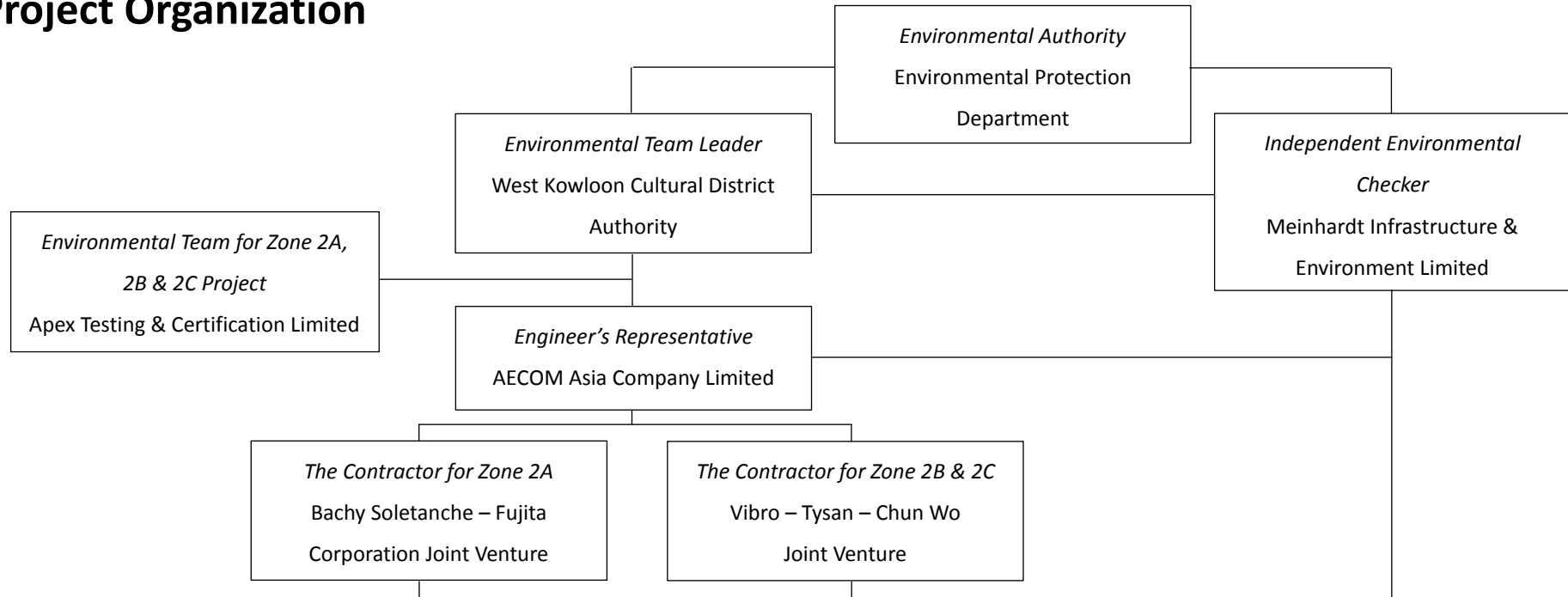


Table A-1: Contract Information

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 (Zone 2A)	Mr. Alex GBAGUIDI	3619 6287	alex.gbaguidi@aecom.com
AECOM Asia Company Limited	Resident Engineer (Zone 2B & 2C)	Ms. Carmen CHAN	6892 9271	carmen.chan@aecom.com
Bachy Soletanche – Fujita Corporation Joint Venture	Interface & Environmental Manager	Mr. Philip CHAN	9668 8403	philip.chan@soletanche-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 Leader	Mr. Calvin LUI	9629 9718	calvinlui@apextestcert.com




B. Construction Programme

Zone 2A

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

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2022															
				August				September				October				November			
				5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18
W117	W118	W119	W120	W121	W122	W123	W124	W125	W126	W127	W128	W129	W130	W131	W132	W133			
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)																			
ELS (Stage 1) - Grouting / Pipe Pile Works																			
King Post (8/64 Nos Completed) & Erection of Steel Column for Working Platform (11/41 Nos completed)(Temporary suspended as per CA)	NA	15-May-21	NA																
Stage 2 grouting (323/323 Nos Completed)	331	28-Sep-21	24-Aug-22																
Pumping Test																			
Installation of Pump Wells (24/24 Nos completed)	15	4-Jun-22	18-Jun-22																
Pumping Test	14	27-Aug-22	9-Sep-22																
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)																			
ELS (Stage 1) - Grouting / Pipe Pile Works																			
King Post (0/86 Nos Completed) & Erection of Steel Column for Working Platform (0/65 Nos Completed)(Temporary suspended as per CA)	NA	NA	NA																
Pipe Pile Construction (461/461 Nos Completed)	533	17-Nov-20	3-May-22																
Stage 2 grouting (472/472 Nos Completed)	250	2-Oct-21	8-Jun-22																
Pumping Test																			
Installation of Pump Wells (90/90 Nos completed)	62	11-Apr-22	11-Jun-22																
Baseline Monitoring	1	4-Jul-22	4-Jul-22																
Pumping Test	14	5-Jul-22	18-Jul-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

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2022																
				September					October				November				December			
				2	9	16	23	30	7	14	21	28	4	11	18	25	2	9	16	23
				W121	W122	W123	W124	W125	W126	W127	W128	W129	W130	W131	W132	W133	W134	W135	W136	W137
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)																				
Hoarding Modification																				
Hoarding Modification	41	20-Sep-22	30-Oct-22																	
BA14 Submission																				
Prepare and Submit BA14	1	6-Sep-22	6-Sep-22																	
BD Acknowledgement of BA14	29	20-Sep-22	18-Oct-22																	
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)																				
BA14 Submission																				
BD Acknowledgement of BA14	29	27-Sep-22	25-Oct-22																	

- Actual
- Remaining Works
- Critical Remaining Works

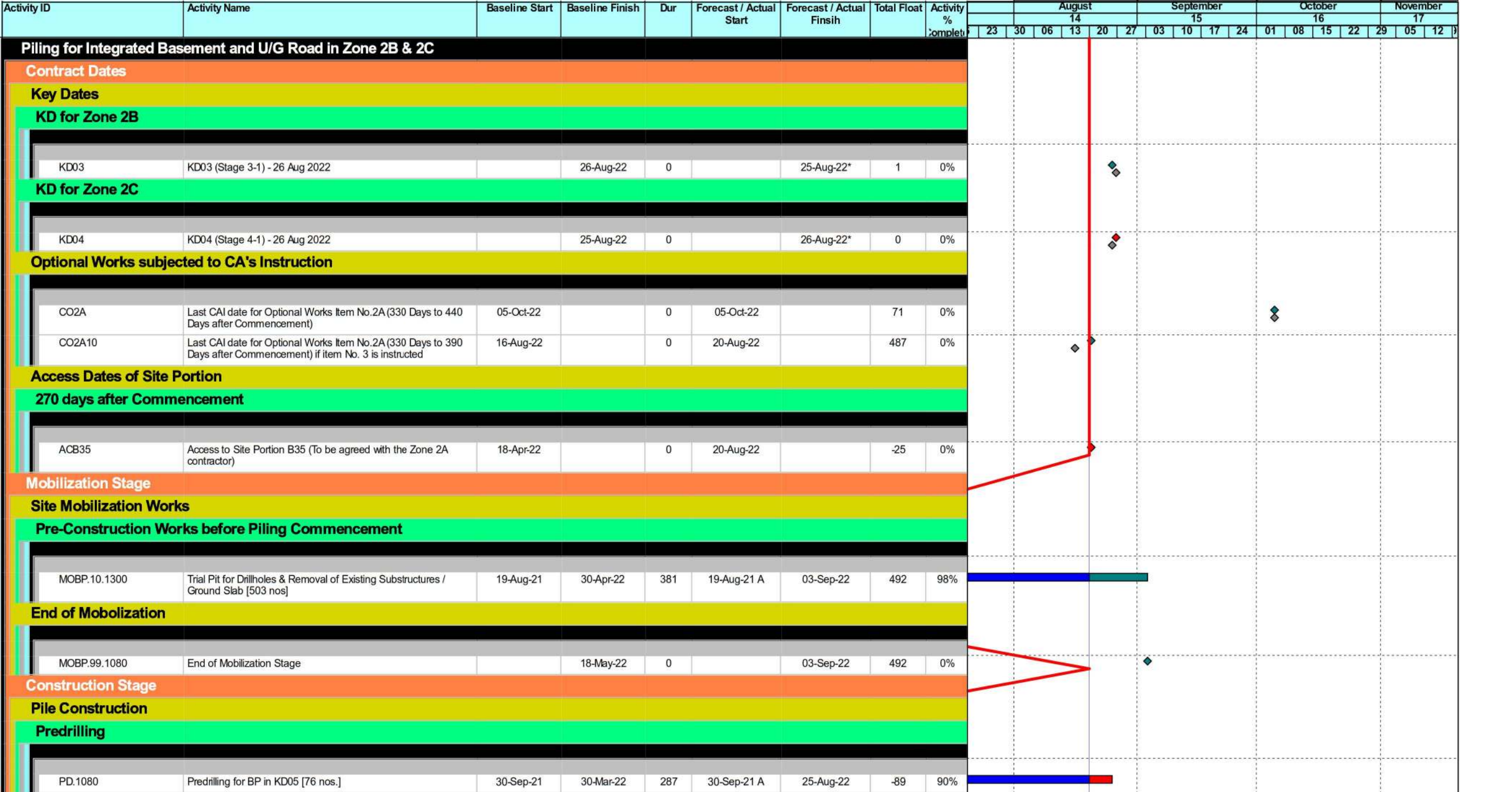
Project Name: Foundation and ELS Works for Integrated Basement and Underground Road in Zone 2A of the West Kowloon Cultural District

3-Month Rolling Programme

Activity Description	Duration (Cal. Day)	Start Date	Finish Date	2022												2023				
				October				November				December				January				
				7	14	21	28	4	11	18	25	2	9	16	23	30	6	13	20	27
				W126	W127	W128	W129	W130	W131	W132	W133	W134	W135	W136	W137	W138	W139	W140	W141	W142
Zone 2A-1 Foundation, ELS Works and Blinding to Formation (KD01)																				
BA14 Submission																				
BD Acknowledgement of BA14	29	20-Sep-22	18-Oct-22	█																
Hoarding Modification																				
Hoarding Modification	41	20-Sep-22	30-Oct-22	█	█															
Site Works before Handover																				
Site Clearance	23	1-Nov-22	23-Nov-22					█	█											
Zone 2A-2 Foundation, ELS Works and Blinding to Formation (KD02)																				
BA14 Submission																				
BD Acknowledgement of BA14	29	27-Sep-22	25-Oct-22	█	█															
Site Works before Handover																				
Site Clearance	23	1-Nov-22	23-Nov-22					█	█											

- █ - Actual
- █ - Remaining Works
- █ - Critical Remaining Works

Zone 2B & 2C

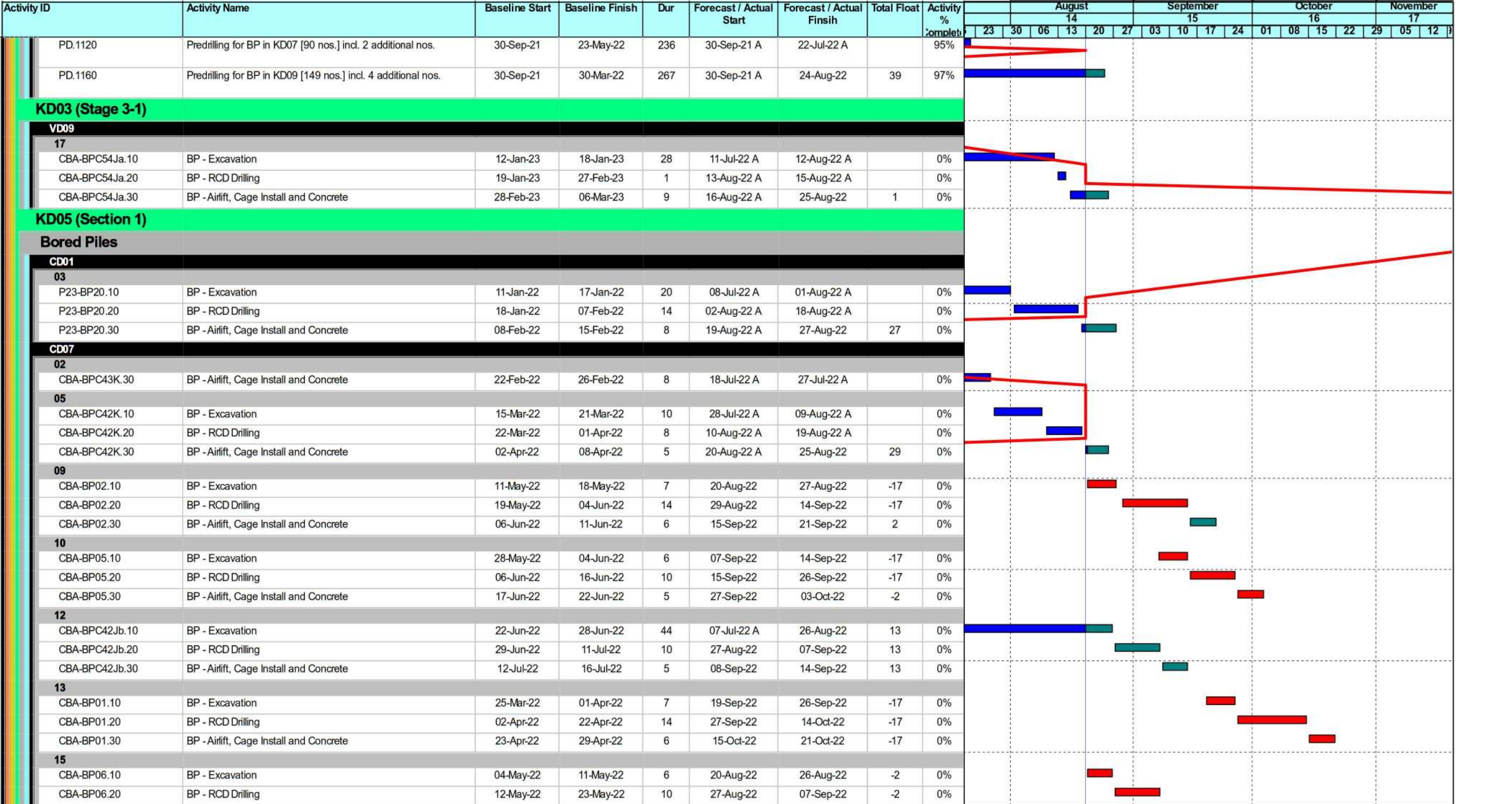


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

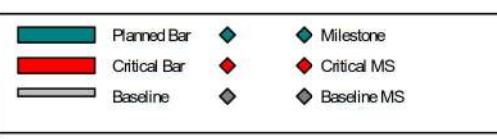
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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	August				September				October				November				
									14				15				16				17				
									23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12
CBA-BP06.30	BP - Airlift, Cage Install and Concrete	24-May-22	28-May-22	5	08-Sep-22	14-Sep-22	7	0%																	
16																									
CBA-BP03.10	BP - Excavation	16-May-22	23-May-22	7	31-Aug-22	07-Sep-22	-2	0%																	
CBA-BP03.20	BP - RCD Drilling	24-May-22	09-Jun-22	14	08-Sep-22	24-Sep-22	-2	0%																	
CBA-BP03.30	BP - Airlift, Cage Install and Concrete	10-Jun-22	16-Jun-22	6	26-Sep-22	03-Oct-22	-2	0%																	
CD05																									
03																									
P17-BP05.10	BP - Excavation	06-Jan-22	12-Jan-22	6	20-Aug-22	26-Aug-22	-105	0%																	
P17-BP05.20	BP - RCD Drilling	13-Jan-22	29-Jan-22	15	27-Aug-22	14-Sep-22	-105	0%																	
P17-BP05.30	BP - Airlift, Cage Install and Concrete	31-Jan-22	10-Feb-22	7	15-Sep-22	22-Sep-22	6	0%																	
06																									
P22&P19-BP15.10	BP - Excavation	12-Mar-22	18-Mar-22	26	15-Aug-22 A	14-Sep-22	-105	0%																	
P22&P19-BP15.20	BP - RCD Drilling	19-Mar-22	11-Apr-22	19	15-Sep-22	08-Oct-22	-105	0%																	
P22&P19-BP15.30	BP - Airlift, Cage Install and Concrete	12-Apr-22	23-Apr-22	8	10-Oct-22	18-Oct-22	-14	0%																	
08																									
P17-BP01.10	BP - Excavation	30-Apr-22	07-May-22	6	30-Sep-22	08-Oct-22	-105	0%																	
P17-BP01.20	BP - RCD Drilling	10-May-22	26-May-22	15	10-Oct-22	26-Oct-22	-105	0%																	
P17-BP01.30	BP - Airlift, Cage Install and Concrete	27-May-22	04-Jun-22	7	27-Oct-22	03-Nov-22	-44	0%																	
09																									
P17-BP09.10	BP - Excavation	20-May-22	26-May-22	6	20-Oct-22	26-Oct-22	-105	0%																	
P17-BP09.20	BP - RCD Drilling	27-May-22	18-Jun-22	19	27-Oct-22	17-Nov-22	-105	0%																	
P17-BP09.30	BP - Airlift, Cage Install and Concrete	20-Jun-22	28-Jun-22	8	18-Nov-22	26-Nov-22	-56	0%																	
10																									
P22&P19-BP16.10	BP - Excavation	13-Jun-22	18-Jun-22	6	11-Nov-22	17-Nov-22	-105	0%																	
P22&P19-BP16.20	BP - RCD Drilling	20-Jun-22	12-Jul-22	19	18-Nov-22	09-Dec-22	-105	0%																	
11																									
P22&P19-BP26.20	BP - RCD Drilling	13-Jan-22	18-Feb-22	59	16-Jul-22 A	23-Sep-22	-3	0%																	
P22&P19-BP26.30	BP - Airlift, Cage Install and Concrete	19-Feb-22	28-Feb-22	8	24-Sep-22	05-Oct-22	-3	0%																	
15																									
P22&P19-BP17.10	BP - Excavation	25-Apr-22	30-Apr-22	6	20-Aug-22	26-Aug-22	1	0%																	
P22&P19-BP17.20	BP - RCD Drilling	03-May-22	25-May-22	19	27-Aug-22	19-Sep-22	1	0%																	
P22&P19-BP17.30	BP - Airlift, Cage Install and Concrete	26-May-22	04-Jun-22	8	20-Sep-22	28-Sep-22	1	0%																	
CD04																									
01																									
P17-BP03.10	BP - Excavation	24-Nov-21	30-Nov-21	6	20-Aug-22	26-Aug-22	-114	0%																	
P17-BP03.20	BP - RCD Drilling	01-Dec-21	17-Dec-21	15	27-Aug-22	14-Sep-22	-114	0%																	
P17-BP03.30	BP - Airlift, Cage Install and Concrete	18-Dec-21	28-Dec-21	7	15-Sep-22	22-Sep-22	-1	0%																	
02																									
P17-BP12.10	BP - Excavation	20-Dec-21	28-Dec-21	6	07-Sep-22	14-Sep-22	-114	0%																	
P17-BP12.20	BP - RCD Drilling	29-Dec-21	15-Jan-22	15	15-Sep-22	03-Oct-22	-114	0%																	
P17-BP12.30	BP - Airlift, Cage Install and Concrete	17-Jan-22	24-Jan-22	7	05-Oct-22	12-Oct-22	-9	0%																	
05																									
P17-BP16.10	BP - Excavation	22-Feb-22	28-Feb-22	6	26-Sep-22	03-Oct-22	-114	0%																	

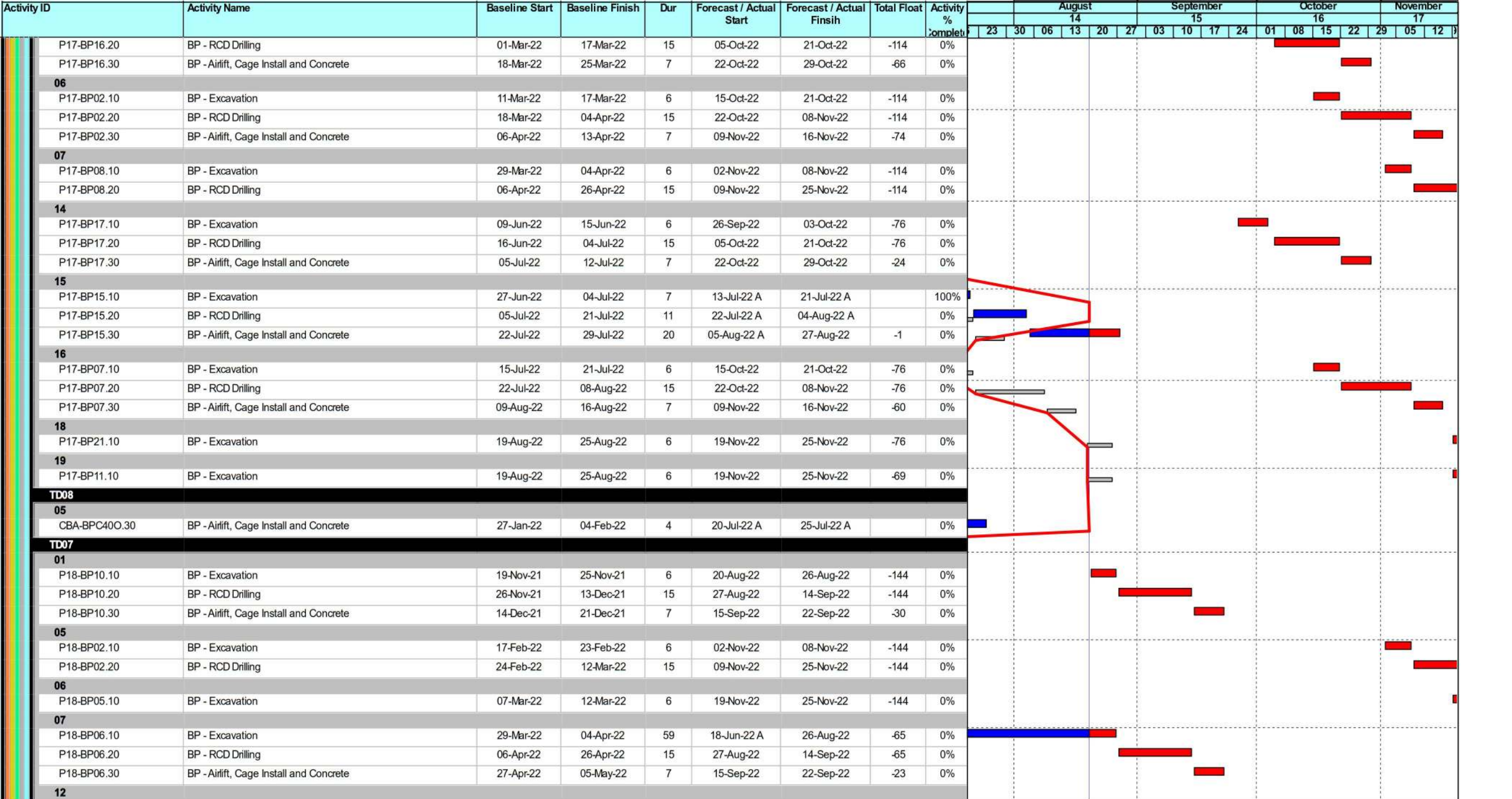
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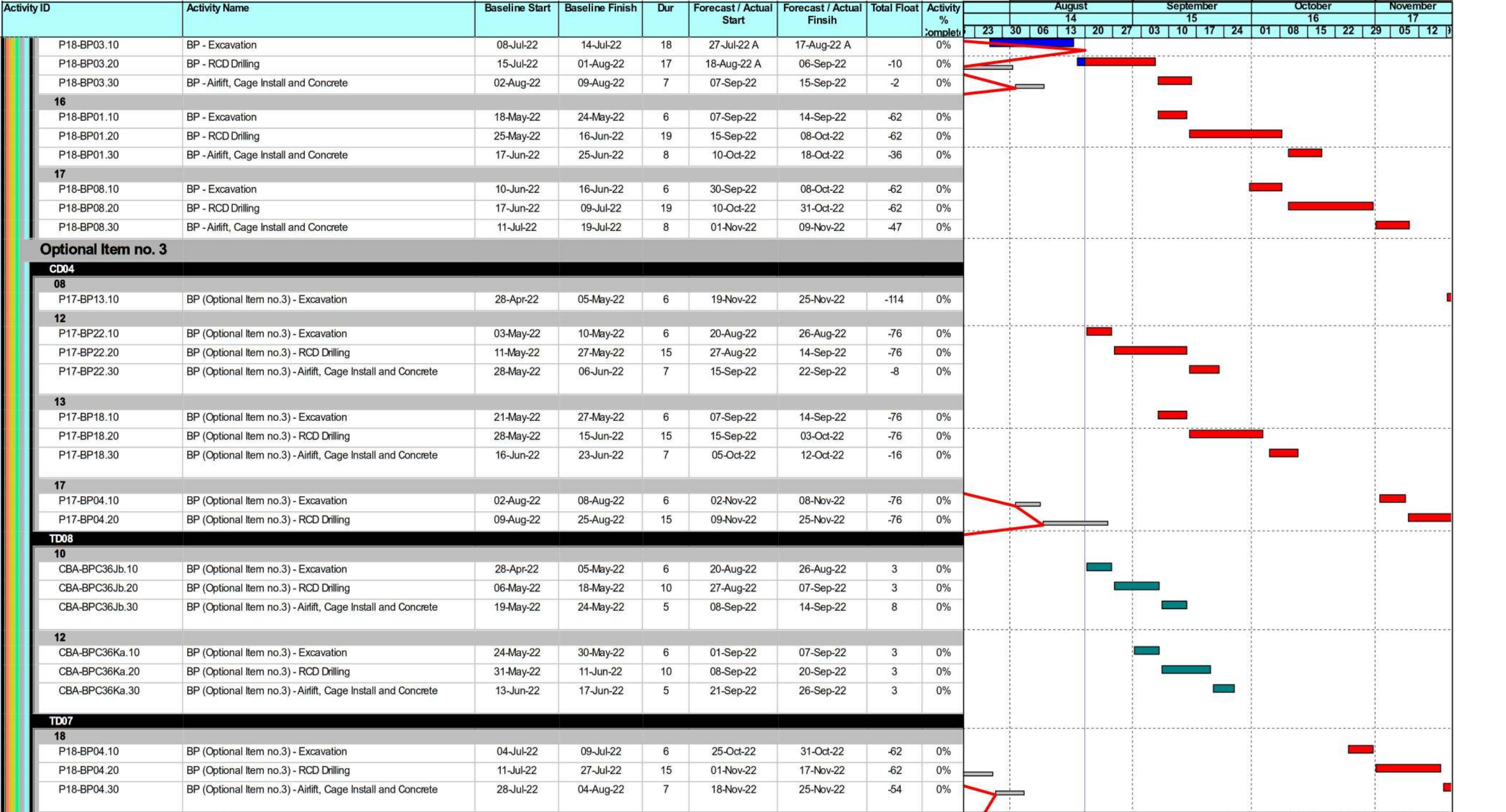
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 Planned Bar	 Milestone
 Critical Bar	 Critical MS
 Baseline	 Baseline MS

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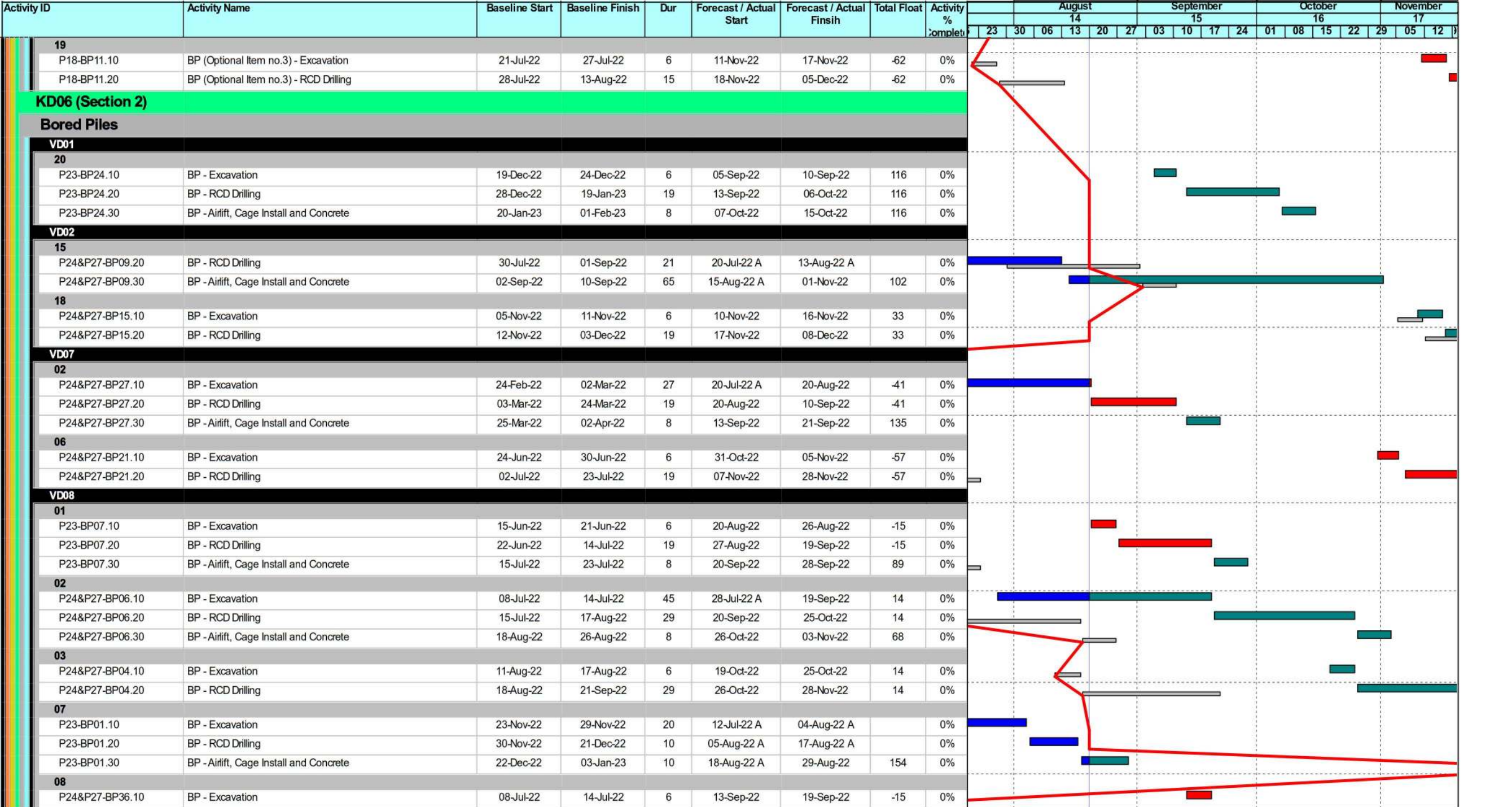


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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									14				15				16				17		
									23	30	06	13	20	27	03	10	17	24	01	08	15	22	29
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P24&P27-BP36.30	BP - Airlift, Cage Install and Concrete	06-Aug-22	15-Aug-22	8	14-Oct-22	22-Oct-22	70	0%															
09																							
P24&P27-BP29.10	BP - Excavation	30-Jul-22	05-Aug-22	6	07-Oct-22	13-Oct-22	-15	0%															
P24&P27-BP29.20	BP - RCD Drilling	06-Aug-22	27-Aug-22	19	14-Oct-22	04-Nov-22	-15	0%															
P24&P27-BP29.30	BP - Airlift, Cage Install and Concrete	29-Aug-22	06-Sep-22	8	05-Nov-22	14-Nov-22	59	0%															
10																							
P24&P27-BP05.10	BP - Excavation	22-Aug-22	27-Aug-22	6	29-Oct-22	04-Nov-22	-15	0%															
P24&P27-BP05.20	BP - RCD Drilling	29-Aug-22	03-Oct-22	29	05-Nov-22	08-Dec-22	-15	0%															
14																							
P24&P27-BP17.10	BP - Excavation	29-Dec-22	05-Jan-23	45	06-Jul-22 A	26-Aug-22	129	0%															
P24&P27-BP17.20	BP - RCD Drilling	06-Jan-23	31-Jan-23	19	27-Aug-22	19-Sep-22	129	0%															
P24&P27-BP17.30	BP - Airlift, Cage Install and Concrete	01-Feb-23	09-Feb-23	8	20-Sep-22	28-Sep-22	129	0%															
VD10																							
01																							
CBA-BPC47K.10	BP - Excavation	02-Jun-22	10-Jun-22	42	11-Jul-22 A	27-Aug-22	0	0%															
CBA-BPC47K.20	BP - RCD Drilling	11-Jun-22	27-Jun-22	14	29-Aug-22	14-Sep-22	0	0%															
CBA-BPC47K.30	BP - Airlift, Cage Install and Concrete	28-Jun-22	05-Jul-22	6	15-Sep-22	21-Sep-22	123	0%															
02																							
CBA-BPC49K.10	BP - Excavation	20-Jun-22	27-Jun-22	7	06-Sep-22	14-Sep-22	0	0%															
CBA-BPC49K.20	BP - RCD Drilling	28-Jun-22	14-Jul-22	14	15-Sep-22	30-Sep-22	0	0%															
CBA-BPC49K.30	BP - Airlift, Cage Install and Concrete	15-Jul-22	21-Jul-22	6	03-Oct-22	10-Oct-22	115	0%															
03																							
CBA-BPC50Ka.10	BP - Excavation	08-Jul-22	14-Jul-22	6	24-Sep-22	30-Sep-22	0	0%															
CBA-BPC50Ka.20	BP - RCD Drilling	15-Jul-22	19-Aug-22	31	03-Oct-22	08-Nov-22	0	0%															
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04																							
CBA-BPC52Jb.10	BP - Excavation	13-Aug-22	19-Aug-22	11	30-Jul-22 A	12-Aug-22 A		0%															
CBA-BPC52Jb.20	BP - RCD Drilling	20-Aug-22	26-Sep-22	37	13-Aug-22 A	26-Sep-22	35	0%															
CBA-BPC52Jb.30	BP - Airlift, Cage Install and Concrete	27-Sep-22	05-Oct-22	6	27-Sep-22	05-Oct-22	101	0%															
05																							
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06																							
CBA-BPC50K.10	BP - Excavation	08-Oct-22	14-Oct-22	6	18-Nov-22	24-Nov-22	0	0%															
09																							
CBA-BPC49J.10	BP - Excavation	19-Apr-22	25-Apr-22	22	05-Jul-22 A	30-Jul-22 A		0%															
CBA-BPC49J.20	BP - RCD Drilling	26-Apr-22	02-Jun-22	3	01-Aug-22 A	04-Aug-22 A		0%															
CBA-BPC49J.30	BP - Airlift, Cage Install and Concrete	04-Jun-22	10-Jun-22	7	05-Aug-22 A	13-Aug-22 A		0%															
10																							
CBA-BPC50Ja.10	BP - Excavation	27-May-22	02-Jun-22	10	16-Aug-22 A	26-Aug-22	43	0%															
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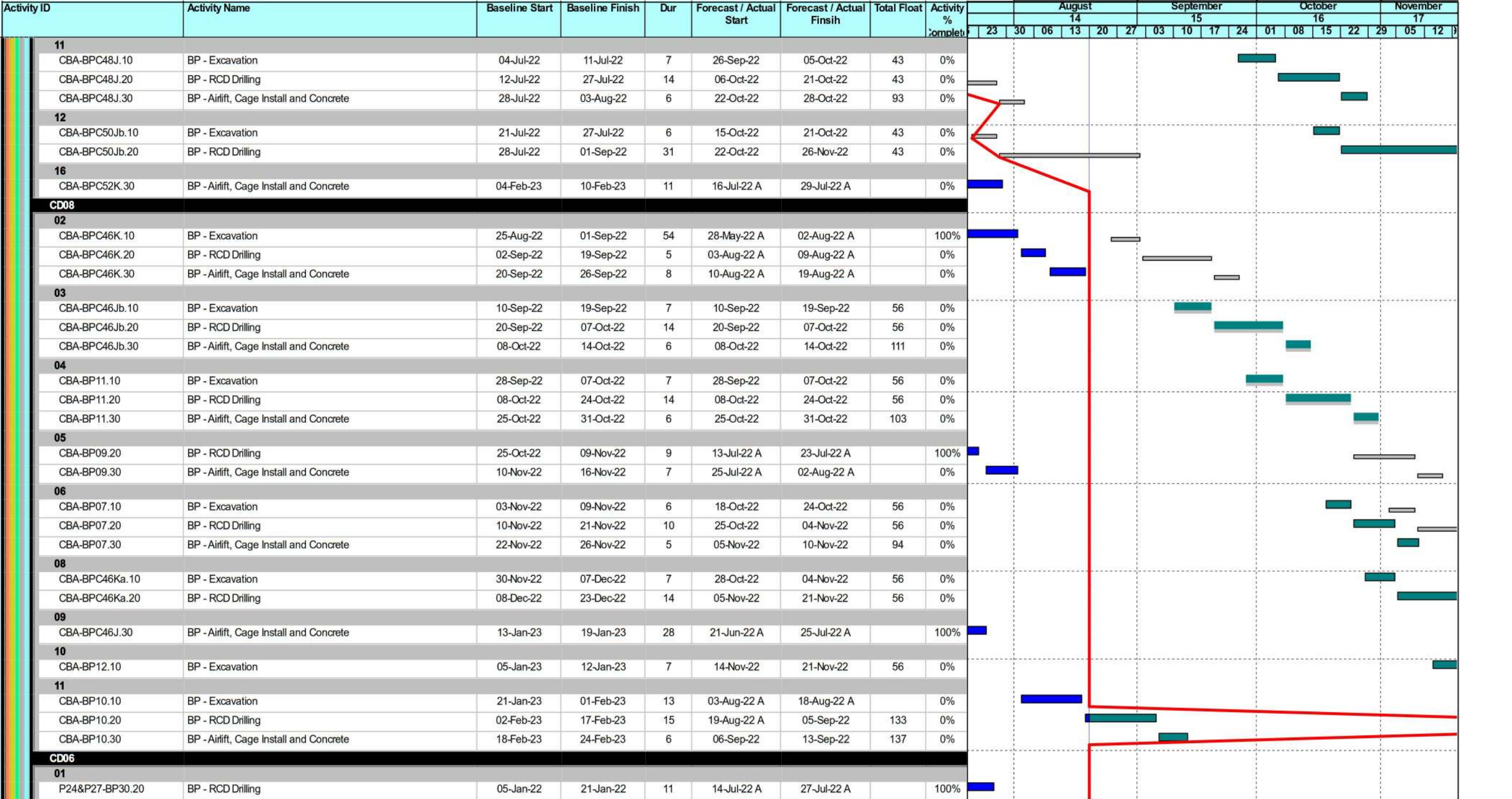
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- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

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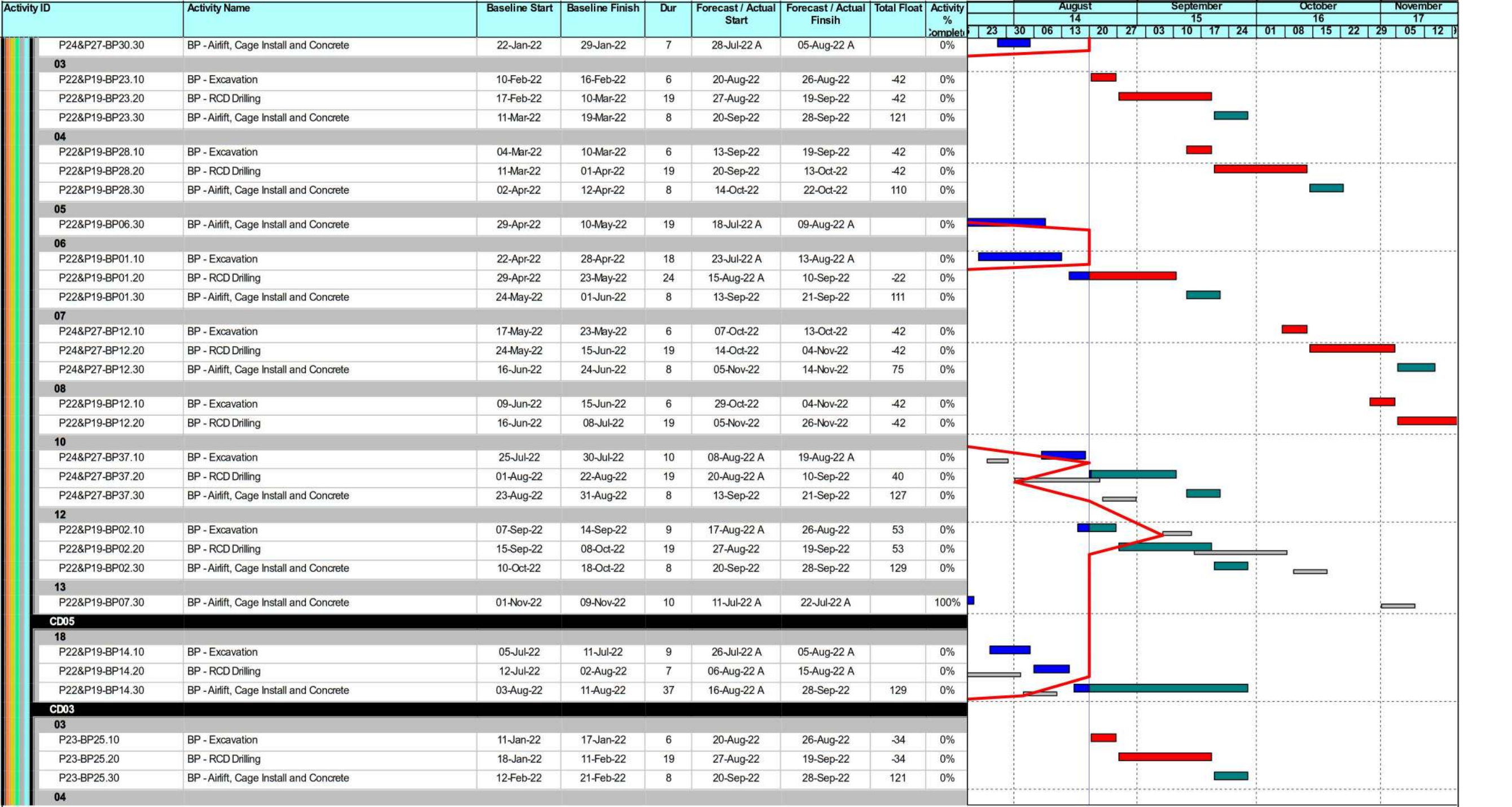
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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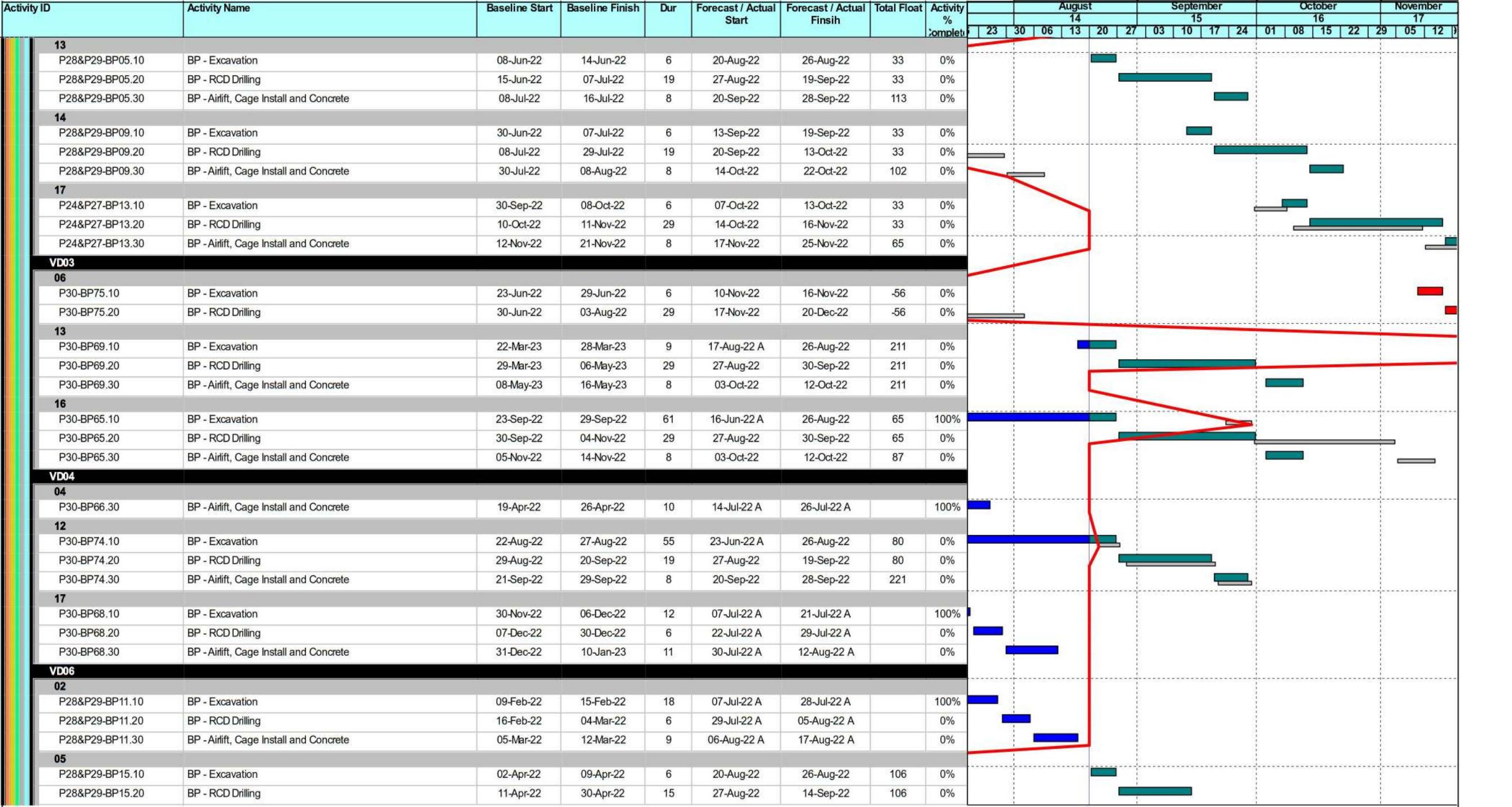
Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	August			September			October			November	
									14	20	27	03	10	17	24	01	08	15	22
P23-BP15.10	BP - Excavation	05-Feb-22	11-Feb-22	6	13-Sep-22	19-Sep-22	-34	0%											
P23-BP15.20	BP - RCD Drilling	12-Feb-22	17-Mar-22	29	20-Sep-22	25-Oct-22	-34	0%											
P23-BP15.30	BP - Airlift, Cage Install and Concrete	18-Mar-22	26-Mar-22	8	26-Oct-22	03-Nov-22	100	0%											
09																			
P23-BP14.10	BP - Excavation	16-Jun-22	22-Jun-22	6	19-Oct-22	25-Oct-22	-34	0%											
P23-BP14.20	BP - RCD Drilling	23-Jun-22	15-Jul-22	19	26-Oct-22	16-Nov-22	-34	0%											
P23-BP14.30	BP - Airlift, Cage Install and Concrete	16-Jul-22	25-Jul-22	8	17-Nov-22	25-Nov-22	57	0%											
10																			
P23-BP26.10	BP - Excavation	09-Jul-22	15-Jul-22	6	10-Nov-22	16-Nov-22	-34	0%											
P23-BP26.20	BP - RCD Drilling	16-Jul-22	18-Aug-22	29	17-Nov-22	20-Dec-22	-34	0%											
CD02																			
06																			
P23-BP27.10	BP - Excavation	23-Apr-22	29-Apr-22	6	31-Oct-22	05-Nov-22	-44	0%											
P23-BP27.20	BP - RCD Drilling	30-Apr-22	24-May-22	19	07-Nov-22	28-Nov-22	-44	0%											
KD07 (Section 3)																			
Bored Piles																			
VD01																			
05																			
P26-BP11.10	BP - Excavation	19-May-22	25-May-22	6	24-Sep-22	30-Sep-22	-22	0%											
P26-BP11.20	BP - RCD Drilling	26-May-22	17-Jun-22	19	03-Oct-22	25-Oct-22	-22	0%											
P26-BP11.30	BP - Airlift, Cage Install and Concrete	18-Jun-22	27-Jun-22	8	26-Oct-22	03-Nov-22	192	0%											
08																			
P26-BP06.10	BP - Excavation	22-Jul-22	28-Jul-22	6	19-Oct-22	25-Oct-22	-22	0%											
P26-BP06.20	BP - RCD Drilling	29-Jul-22	31-Aug-22	29	26-Oct-22	28-Nov-22	-22	0%											
10																			
P26-BP10.20	BP - RCD Drilling	08-Oct-22	29-Oct-22	60	17-May-22 A	28-Jul-22 A		100%											
P26-BP10.30	BP - Airlift, Cage Install and Concrete	31-Oct-22	08-Nov-22	15	29-Jul-22 A	16-Aug-22 A		0%											
VD02																			
02																			
P24&P27-BP08.10	BP - Excavation	12-Feb-22	18-Feb-22	6	20-Aug-22	26-Aug-22	46	0%											
P24&P27-BP08.20	BP - RCD Drilling	19-Feb-22	24-Mar-22	29	27-Aug-22	30-Sep-22	46	0%											
P24&P27-BP08.30	BP - Airlift, Cage Install and Concrete	25-Mar-22	02-Apr-22	8	03-Oct-22	12-Oct-22	211	0%											
04																			
P26-BP03.10	BP - Excavation	06-Apr-22	12-Apr-22	6	24-Sep-22	30-Sep-22	46	0%											
P26-BP03.20	BP - RCD Drilling	13-Apr-22	21-May-22	29	03-Oct-22	05-Nov-22	46	0%											
P26-BP03.30	BP - Airlift, Cage Install and Concrete	23-May-22	31-May-22	8	07-Nov-22	15-Nov-22	157	0%											
05																			
P26-BP01.10	BP - Excavation	16-May-22	21-May-22	6	31-Oct-22	05-Nov-22	46	0%											
P26-BP01.20	BP - RCD Drilling	23-May-22	14-Jul-22	44	07-Nov-22	29-Dec-22	46	0%											
09																			
P28&P29-BP04.10	BP - Excavation	10-Oct-22	15-Oct-22	25	29-Jul-22 A	26-Aug-22	181	0%											
P28&P29-BP04.20	BP - RCD Drilling	17-Oct-22	02-Nov-22	15	27-Aug-22	14-Sep-22	181	0%											
P28&P29-BP04.30	BP - Airlift, Cage Install and Concrete	03-Nov-22	10-Nov-22	7	15-Sep-22	22-Sep-22	211	0%											

 Planned Bar
 Critical Bar
 Baseline
 Milestone
 Critical MS
 Baseline MS

West Kowloon Cultural District Authority
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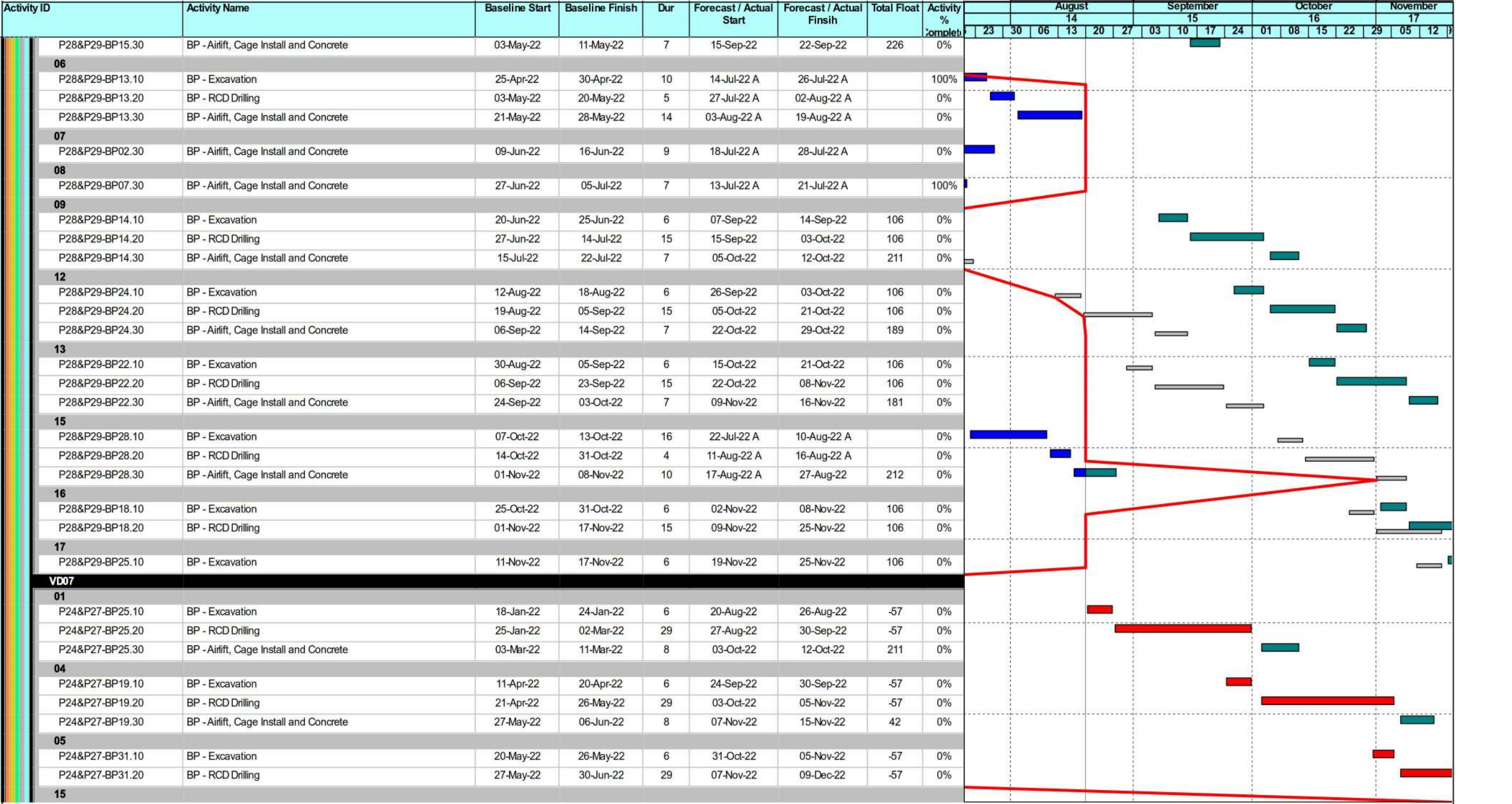


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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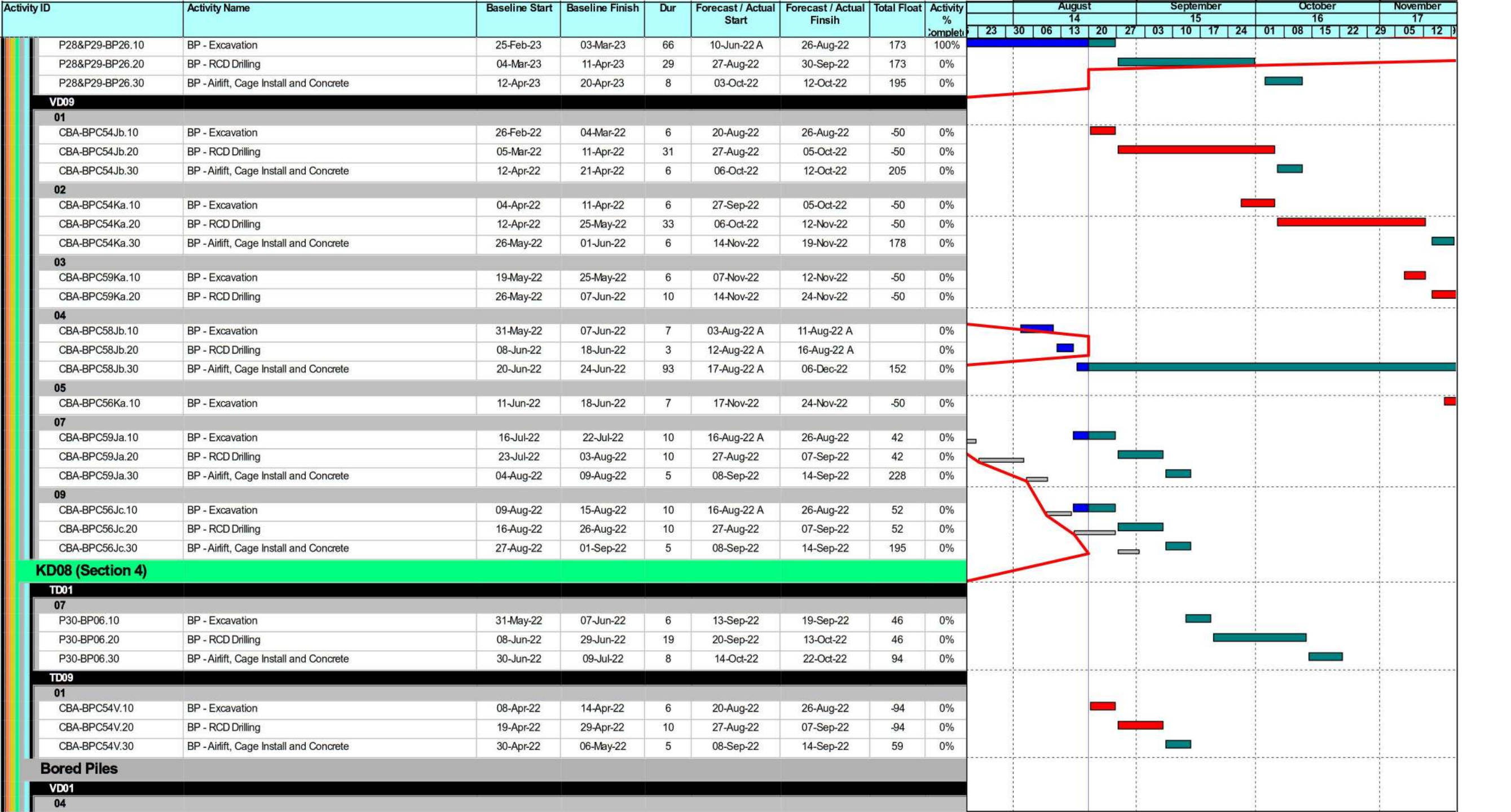


■ Planned Bar ■ Critical Bar Baseline
◆ Milestone ◆ Critical MS ◆ Baseline MS

West Kowloon Cultural District Authority
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	August					September				October				November				
									14		20			15		15		16		17						
									23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	
P26-BP12.10	BP - Excavation	09-Apr-22	19-Apr-22	6	20-Aug-22	26-Aug-22	-22	0%																		
P26-BP12.20	BP - RCD Drilling	20-Apr-22	25-May-22	29	27-Aug-22	30-Sep-22	-22	0%																		
P26-BP12.30	BP - Airlift, Cage Install and Concrete	26-May-22	04-Jun-22	8	03-Oct-22	12-Oct-22	103	0%																		
VD03																										
03																										
P30-BP44.10	BP - Excavation	29-Mar-22	04-Apr-22	6	20-Aug-22	26-Aug-22	-56	0%																		
P30-BP44.20	BP - RCD Drilling	06-Apr-22	14-May-22	29	27-Aug-22	30-Sep-22	-56	0%																		
P30-BP44.30	BP - Airlift, Cage Install and Concrete	16-May-22	24-May-22	8	03-Oct-22	12-Oct-22	87	0%																		
04																										
P30-BP50.10	BP - Excavation	07-May-22	14-May-22	6	24-Sep-22	30-Sep-22	-56	0%																		
P30-BP50.20	BP - RCD Drilling	16-May-22	07-Jun-22	19	03-Oct-22	25-Oct-22	-56	0%																		
P30-BP50.30	BP - Airlift, Cage Install and Concrete	08-Jun-22	16-Jun-22	8	26-Oct-22	03-Nov-22	76	0%																		
05																										
P30-BP55.10	BP - Excavation	31-May-22	07-Jun-22	6	19-Oct-22	25-Oct-22	-56	0%																		
P30-BP55.20	BP - RCD Drilling	08-Jun-22	29-Jun-22	19	26-Oct-22	16-Nov-22	-56	0%																		
P30-BP55.30	BP - Airlift, Cage Install and Concrete	30-Jun-22	09-Jul-22	8	17-Nov-22	25-Nov-22	65	0%																		
10																										
P30-BP45.20	BP - RCD Drilling	05-Dec-22	10-Jan-23	37	25-Jun-22 A	09-Aug-22 A		0%																		
P30-BP45.30	BP - Airlift, Cage Install and Concrete	11-Jan-23	19-Jan-23	17	10-Aug-22 A	29-Aug-22	130	0%																		
14																										
P30-BP56.10	BP - Excavation	28-Jul-22	03-Aug-22	6	10-Nov-22	16-Nov-22	-21	0%																		
P30-BP56.20	BP - RCD Drilling	04-Aug-22	25-Aug-22	19	17-Nov-22	08-Dec-22	-21	0%																		
VD04																										
02																										
P30-BP47.10	BP - Excavation	09-Feb-22	15-Feb-22	6	20-Aug-22	26-Aug-22	39	0%																		
P30-BP47.20	BP - RCD Drilling	16-Feb-22	04-Mar-22	15	27-Aug-22	14-Sep-22	39	0%																		
P30-BP47.30	BP - Airlift, Cage Install and Concrete	05-Mar-22	12-Mar-22	7	15-Sep-22	22-Sep-22	118	0%																		
06																										
P30-BP62.10	BP - Excavation	29-Apr-22	06-May-22	6	07-Sep-22	14-Sep-22	39	0%																		
P30-BP62.20	BP - RCD Drilling	07-May-22	25-May-22	15	15-Sep-22	03-Oct-22	39	0%																		
P30-BP62.30	BP - Airlift, Cage Install and Concrete	26-May-22	02-Jun-22	7	05-Oct-22	12-Oct-22	89	0%																		
07																										
P30-BP42.10	BP - Excavation	19-May-22	25-May-22	6	26-Sep-22	03-Oct-22	39	0%																		
P30-BP42.20	BP - RCD Drilling	26-May-22	13-Jun-22	15	05-Oct-22	21-Oct-22	39	0%																		
P30-BP42.30	BP - Airlift, Cage Install and Concrete	14-Jun-22	21-Jun-22	7	22-Oct-22	29-Oct-22	81	0%																		
08																										
P30-BP46.10	BP - Excavation	07-Jun-22	13-Jun-22	6	15-Oct-22	21-Oct-22	39	0%																		
P30-BP46.20	BP - RCD Drilling	14-Jun-22	30-Jun-22	15	22-Oct-22	08-Nov-22	39	0%																		
P30-BP46.30	BP - Airlift, Cage Install and Concrete	02-Jul-22	09-Jul-22	7	09-Nov-22	16-Nov-22	73	0%																		
09																										
P30-BP48.30	BP - Airlift, Cage Install and Concrete	20-Jul-22	27-Jul-22	10	11-Jul-22 A	22-Jul-22 A		100%																		
14																										
P30-BP52.10	BP - Excavation	03-Oct-22	10-Oct-22	6	02-Nov-22	08-Nov-22	39	0%																		

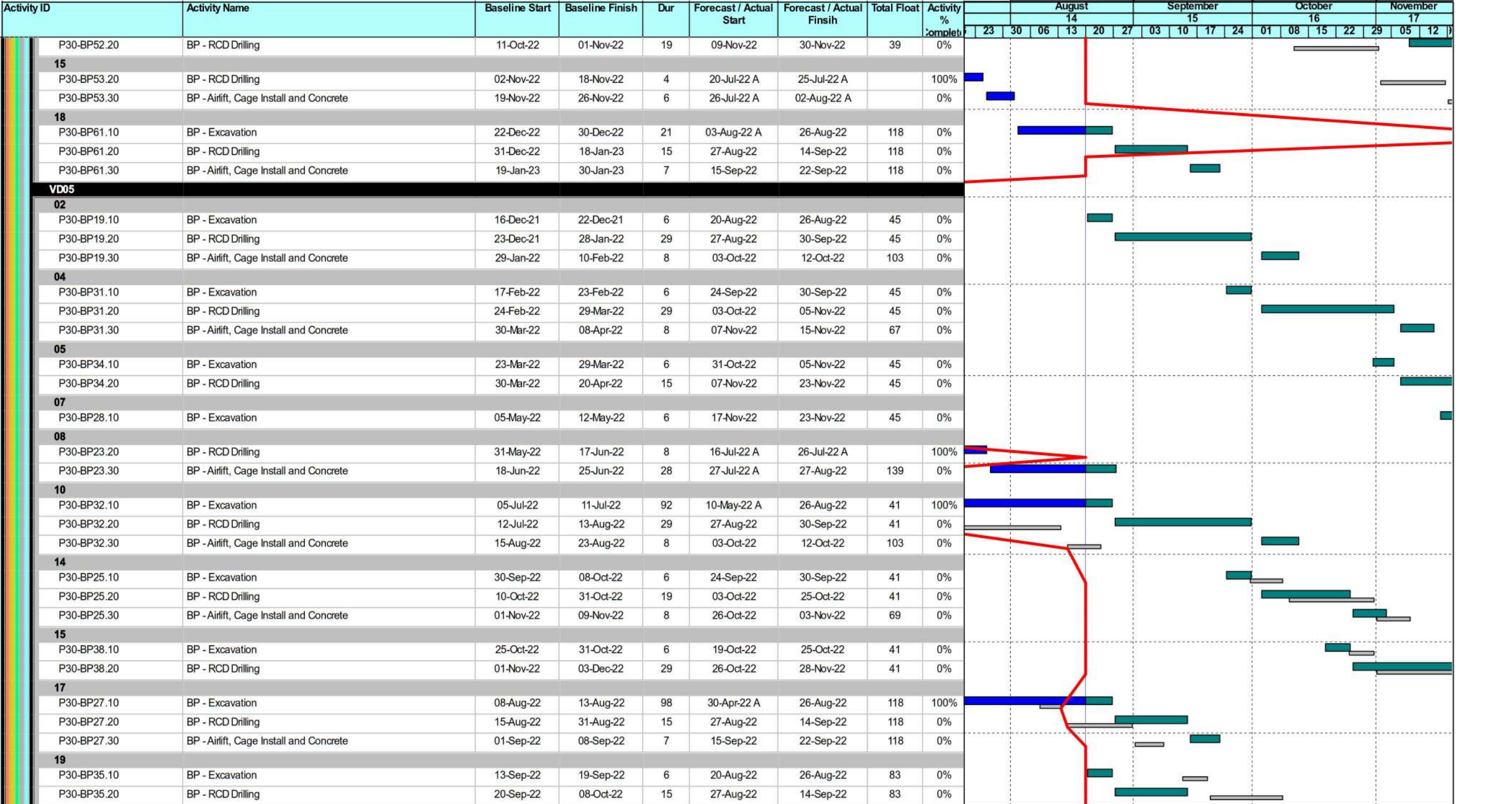
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 Page 14 of 24

- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

West Kowloon Cultural District Authority
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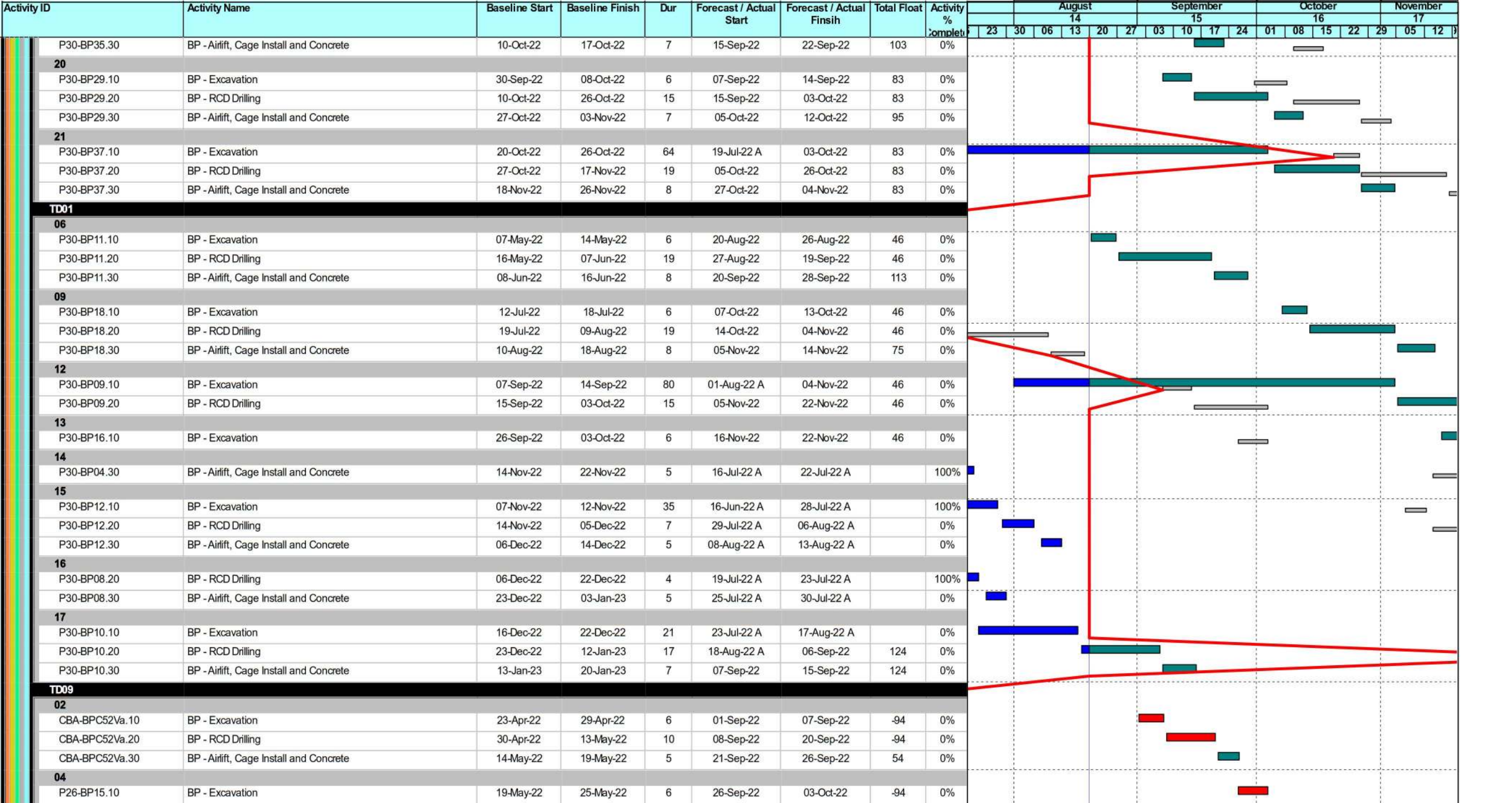
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 Data Date: 20-Aug-22
 Print Date: 23-Aug-22_10:37
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Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

West Kowloon Cultural District Authority
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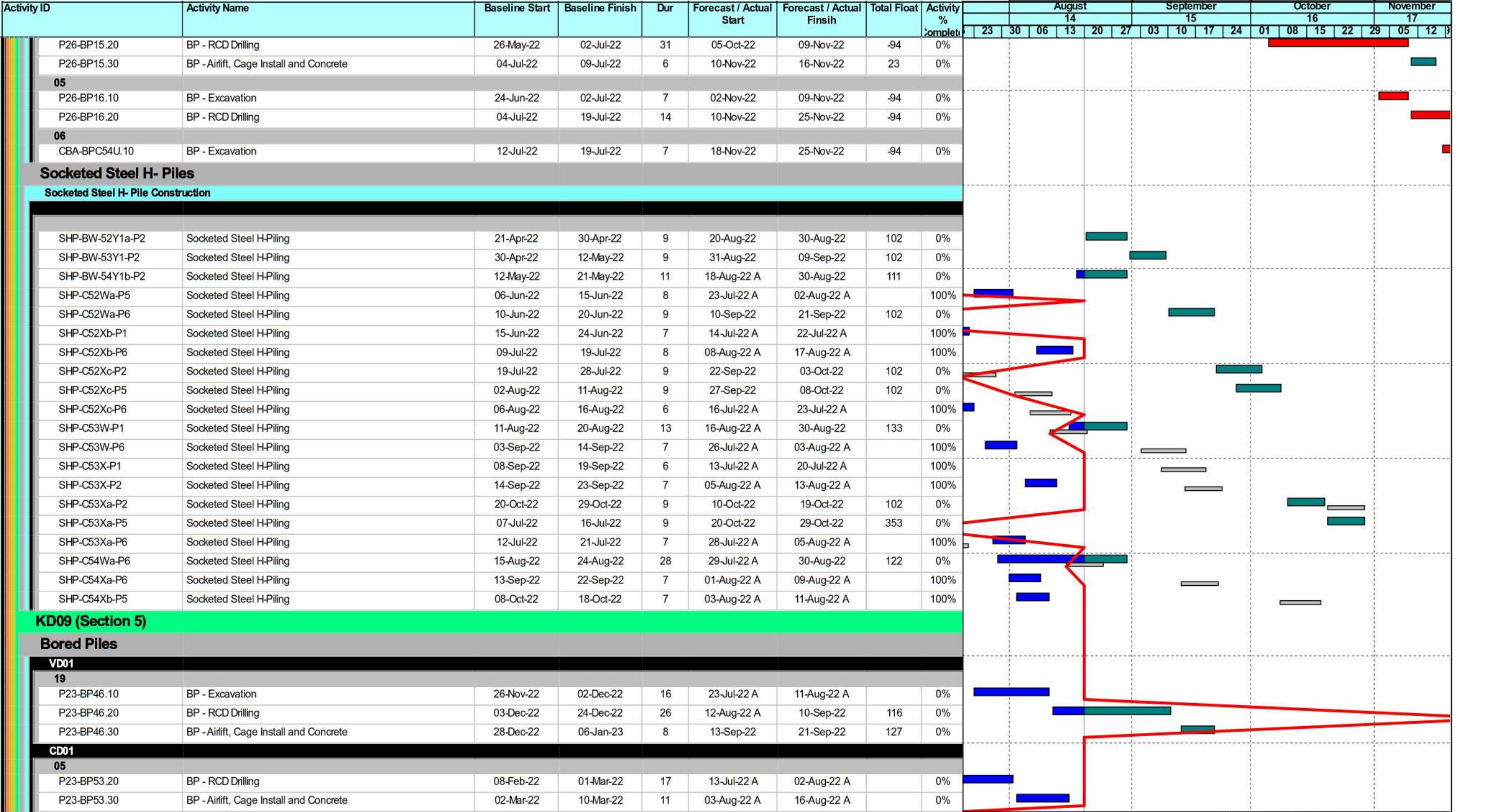


- Planned Bar
- Critical Bar
- Baseline
- Milestone
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- Baseline MS

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 Data Date: 20-Aug-22
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- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

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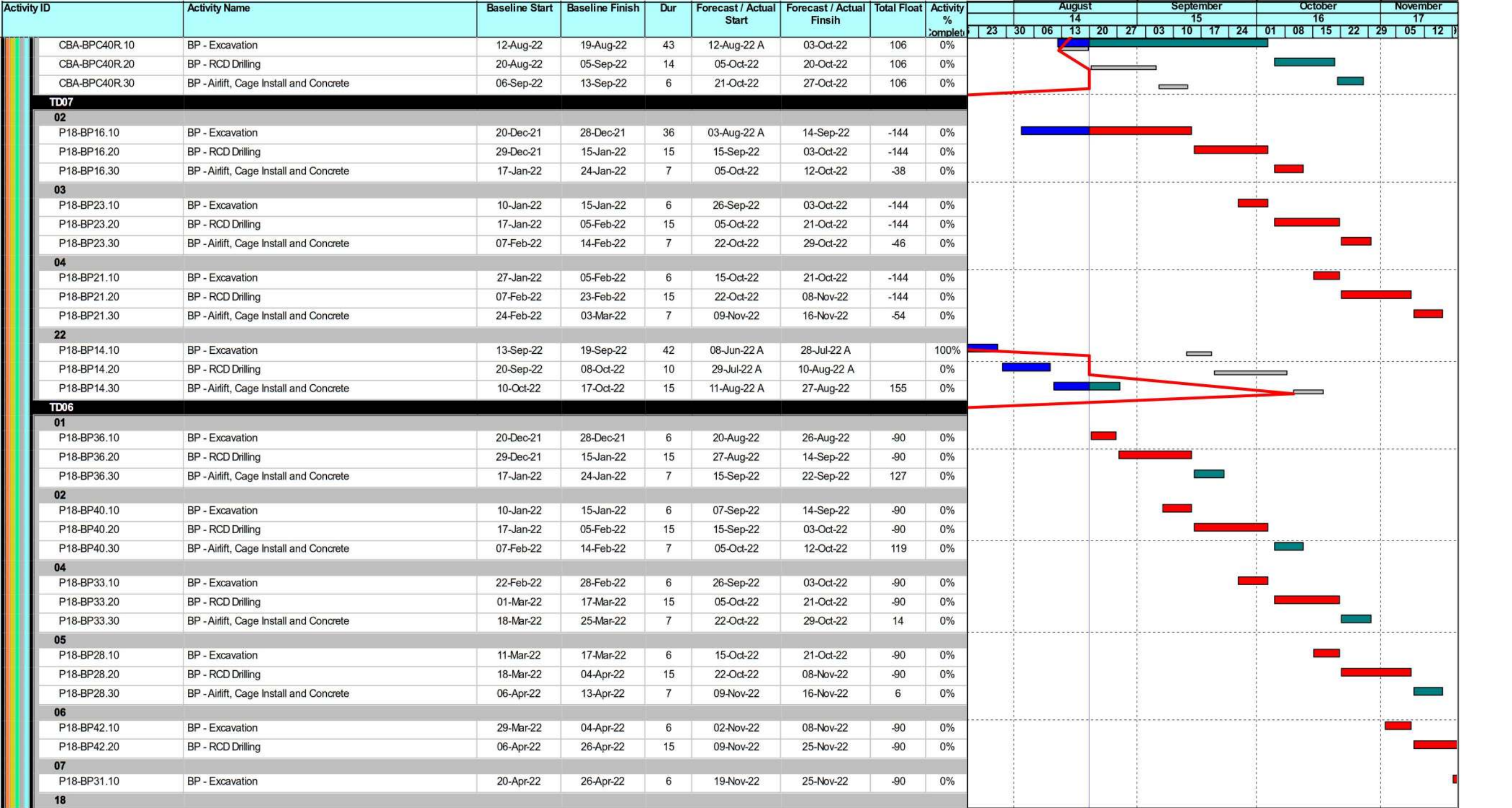
Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % Complete	August				September				October				November						
									14				15				16				17						
									23	30	06	13	20	27	03	10	17	24	01	08	15	22	29	05	12	19	
06																											
P23-BP40.10	BP - Excavation	23-Feb-22	01-Mar-22	6	20-Aug-22	26-Aug-22	134	0%																			
P23-BP40.20	BP - RCD Drilling	02-Mar-22	18-Mar-22	15	27-Aug-22	14-Sep-22	134	0%																			
P23-BP40.30	BP - Airlift, Cage Install and Concrete	19-Mar-22	26-Mar-22	7	15-Sep-22	22-Sep-22	134	0%																			
15																											
P23-BP52.10	BP - Excavation	20-May-22	26-May-22	6	20-Aug-22	26-Aug-22	15	0%																			
P23-BP52.20	BP - RCD Drilling	27-May-22	18-Jun-22	19	27-Aug-22	19-Sep-22	15	0%																			
P23-BP52.30	BP - Airlift, Cage Install and Concrete	20-Jun-22	28-Jun-22	8	20-Sep-22	28-Sep-22	15	0%																			
CD02																											
02																											
P23-BP37.10	BP - Excavation	21-Dec-21	29-Dec-21	6	20-Aug-22	26-Aug-22	-44	0%																			
P23-BP37.20	BP - RCD Drilling	30-Dec-21	05-Feb-22	29	27-Aug-22	30-Sep-22	-44	0%																			
P23-BP37.30	BP - Airlift, Cage Install and Concrete	07-Feb-22	15-Feb-22	8	03-Oct-22	12-Oct-22	111	0%																			
03																											
P23-BP48.10	BP - Excavation	27-Jan-22	05-Feb-22	6	24-Sep-22	30-Sep-22	-44	0%																			
P23-BP48.20	BP - RCD Drilling	07-Feb-22	11-Mar-22	29	03-Oct-22	05-Nov-22	-44	0%																			
P23-BP48.30	BP - Airlift, Cage Install and Concrete	12-Mar-22	21-Mar-22	8	07-Nov-22	15-Nov-22	90	0%																			
05																											
P23-BP50.20	BP - RCD Drilling	04-Apr-22	29-Apr-22	15	15-Jul-22 A	02-Aug-22 A		0%																			
P23-BP50.30	BP - Airlift, Cage Install and Concrete	30-Apr-22	11-May-22	8	03-Aug-22 A	12-Aug-22 A		0%																			
15																											
P23-BP61.10	BP - Excavation	17-Dec-22	23-Dec-22	11	15-Aug-22 A	26-Aug-22	129	0%																			
P23-BP61.20	BP - RCD Drilling	24-Dec-22	18-Jan-23	19	27-Aug-22	19-Sep-22	129	0%																			
P23-BP61.30	BP - Airlift, Cage Install and Concrete	19-Jan-23	31-Jan-23	8	20-Sep-22	28-Sep-22	129	0%																			
TD09																											
03																											
CBA-BPC52U.10	BP - Excavation	06-May-22	13-May-22	6	14-Sep-22	20-Sep-22	-94	0%																			
CBA-BPC52U.20	BP - RCD Drilling	14-May-22	25-May-22	10	21-Sep-22	03-Oct-22	-94	0%																			
CBA-BPC52U.30	BP - Airlift, Cage Install and Concrete	26-May-22	31-May-22	5	05-Oct-22	10-Oct-22	49	0%																			
15																											
CBA-BPC40U.10	BP - Excavation	10-Dec-22	17-Dec-22	17	20-Jul-22 A	09-Aug-22 A		0%																			
CBA-BPC40U.20	BP - RCD Drilling	19-Dec-22	06-Jan-23	1	10-Aug-22 A	11-Aug-22 A		0%																			
CBA-BPC40U.30	BP - Airlift, Cage Install and Concrete	07-Jan-23	13-Jan-23	5	12-Aug-22 A	18-Aug-22 A		0%																			
TD08																											
14																											
CBA-BPC40P.10	BP - Excavation	17-Jun-22	23-Jun-22	15	30-Jul-22 A	17-Aug-22 A		0%																			
CBA-BPC40P.20	BP - RCD Drilling	24-Jun-22	06-Jul-22	38	18-Aug-22 A	03-Oct-22	106	0%																			
CBA-BPC40P.30	BP - Airlift, Cage Install and Concrete	07-Jul-22	12-Jul-22	5	05-Oct-22	10-Oct-22	121	0%																			
15																											
CBA-BPC40Q.10	BP - Excavation	28-Jun-22	06-Jul-22	27	25-Jun-22 A	28-Jul-22 A		100%																			
CBA-BPC40Q.20	BP - RCD Drilling	07-Jul-22	22-Jul-22	3	29-Jul-22 A	02-Aug-22 A		0%																			
CBA-BPC40Q.30	BP - Airlift, Cage Install and Concrete	23-Jul-22	29-Jul-22	3	03-Aug-22 A	06-Aug-22 A		0%																			
18																											

- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

West Kowloon Cultural District Authority
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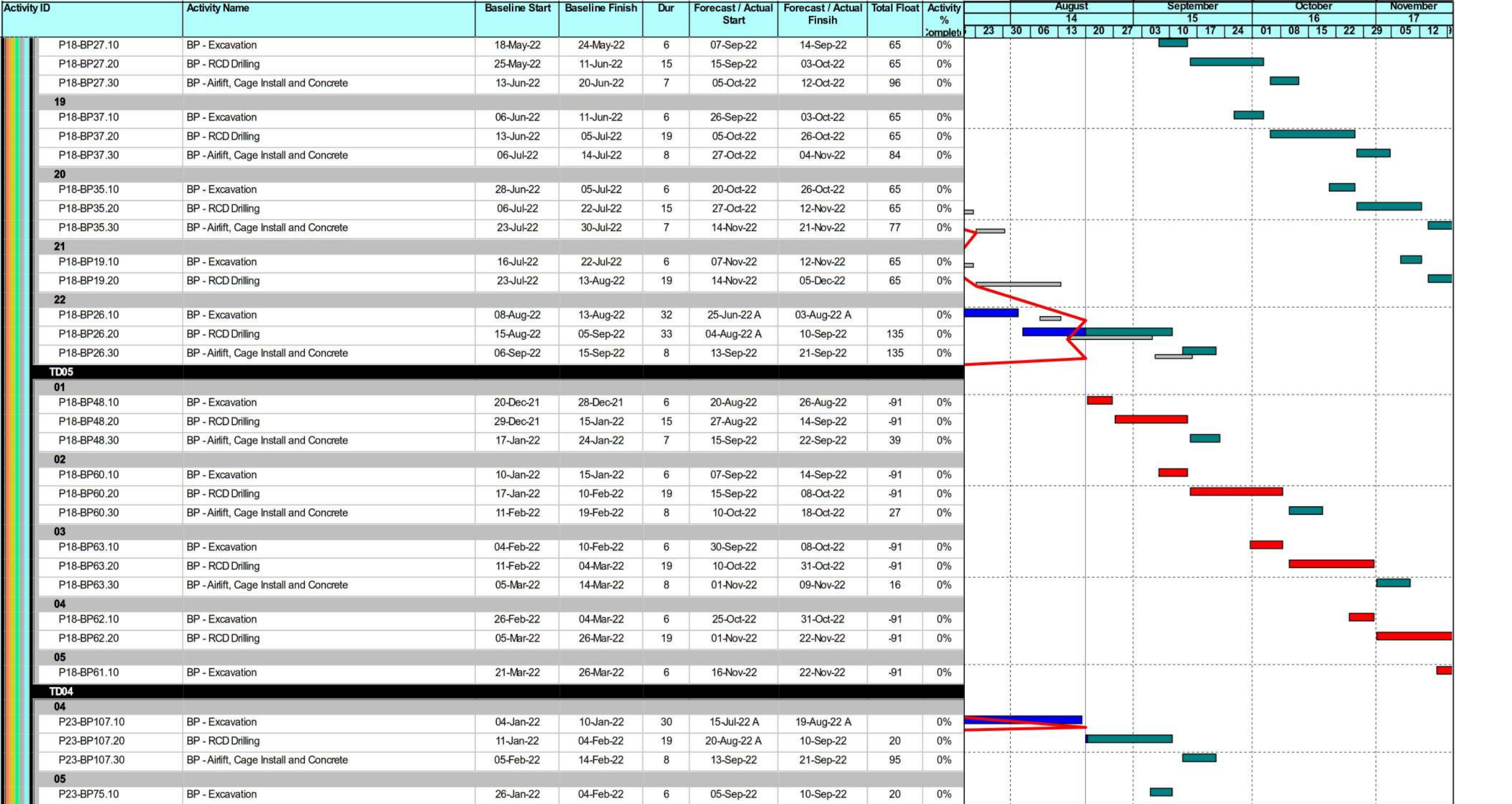


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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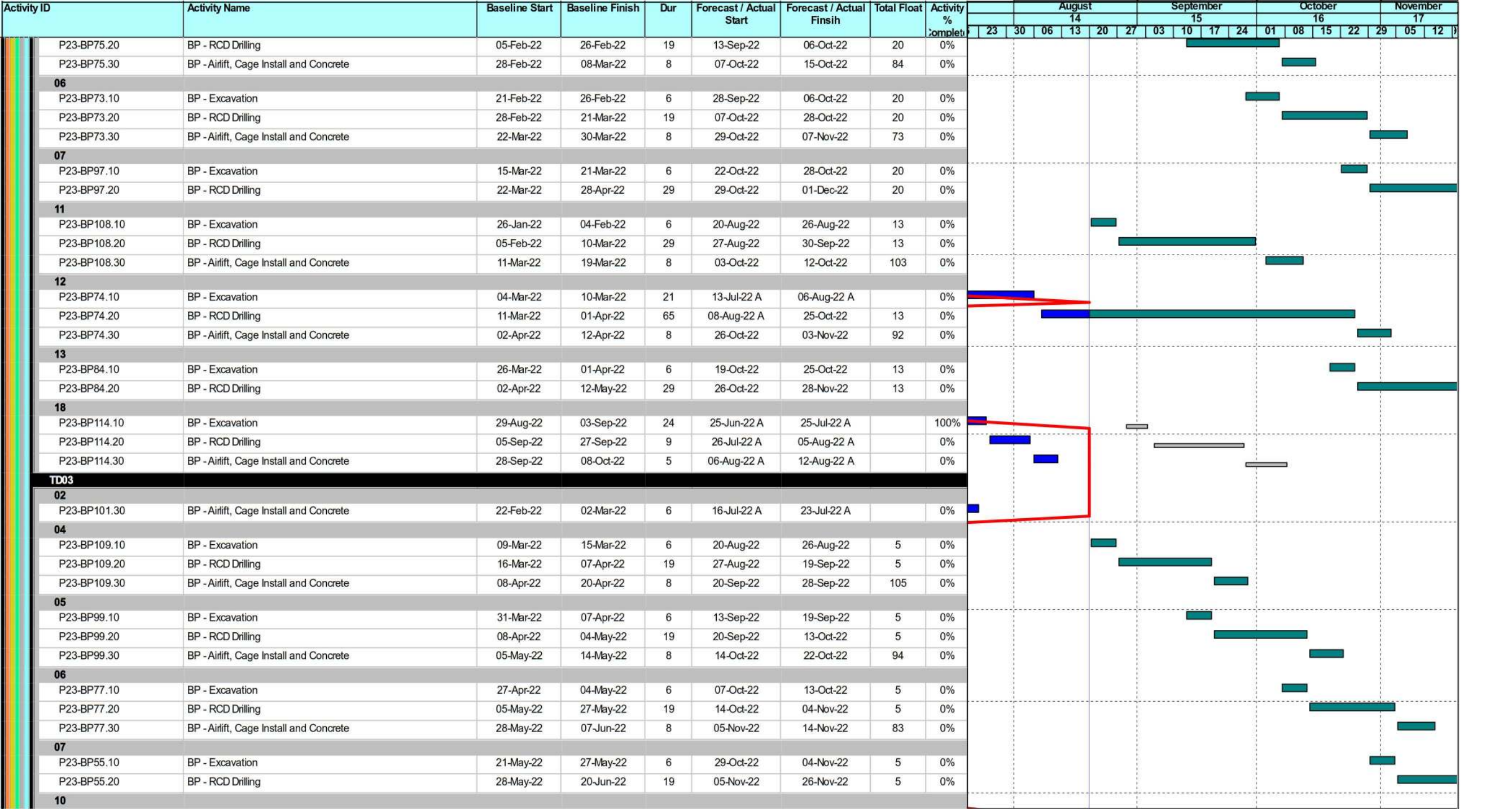


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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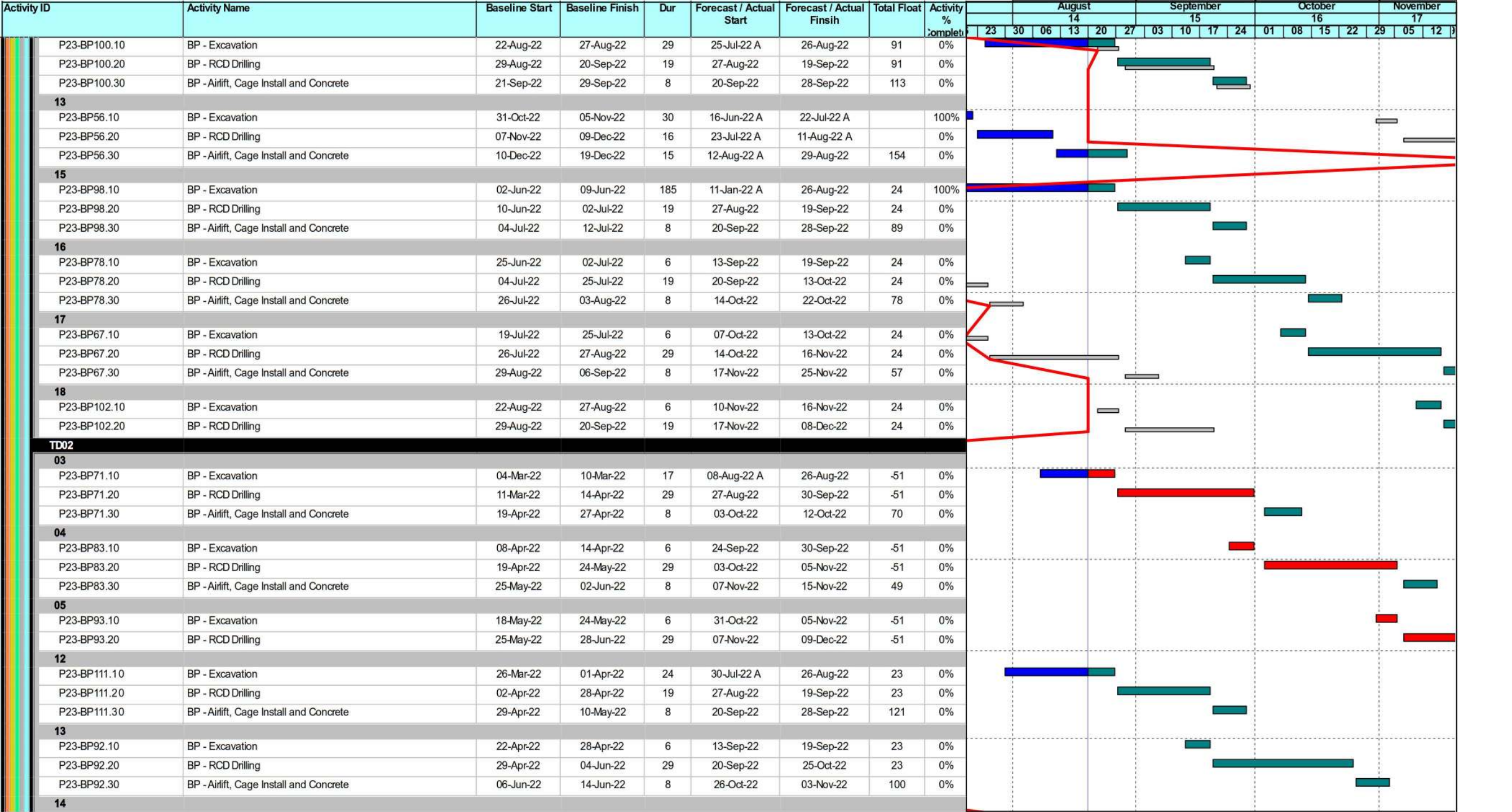








- Planned Bar
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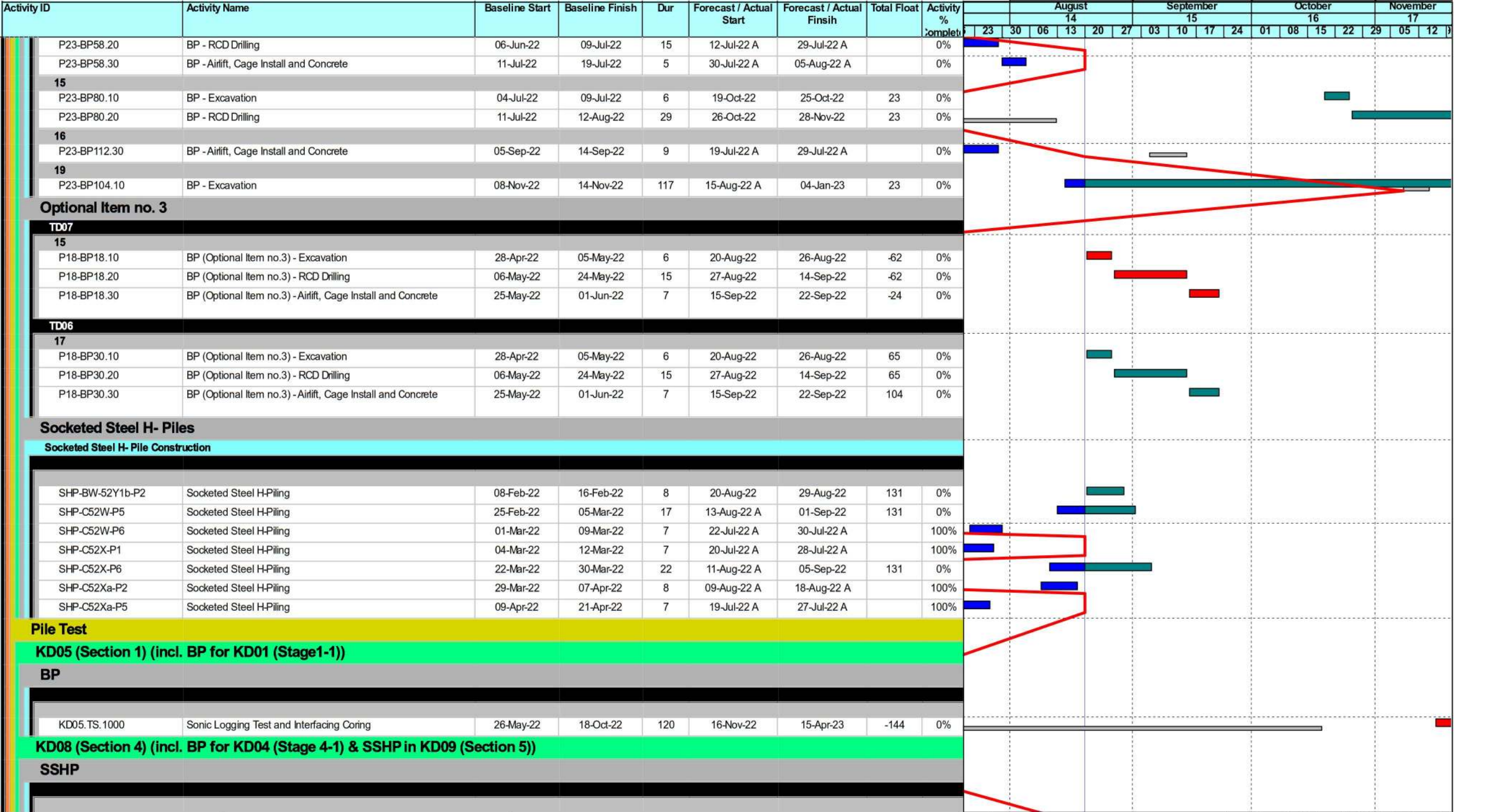


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS



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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	September				October				November			December	
								15				16				17			18	
								20	27	03	10	17	24	01	08	15	22	29	05	12

Piling for Integrated Basement and U/G Road in Zone 2B & 2C

Contract Dates

Key Dates

KD for Zone 2B

KD03	KD03 (Stage 3-1) - 26 Aug 2022	26-Aug-22	0	26-Aug-22 A
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KD for Zone 2C

KD04	KD04 (Stage 4-1) - 26 Aug 2022	25-Aug-22	0	26-Aug-22 A
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Optional Works subjected to CA's Instruction

CO2A	Last CAI date for Optional Works Item No.2A (330 Days to 440	05-Oct-22	0	05-Oct-22	71
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Access Dates of Site Portion

270 days after Commencement

ACB35	Access to Site Portion B35 (To be agreed with the Zone 2A con	18-Apr-22	0	17-Sep-22	-32
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Mobilization Stage

Site Mobilization Works

Pre-Construction Works before Piling Commencement

MOBP.10.1300	Trial Pit for Drillholes & Removal of Existing Substructures / Gro	19-Aug-21	30-Apr-22	409	19-Aug-21 A	01-Oct-22	464
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End of Mobilization

MOBP.99.1080	End of Mobilization Stage	18-May-22	0	01-Oct-22	464
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Construction Stage

Pile Construction

Predrilling

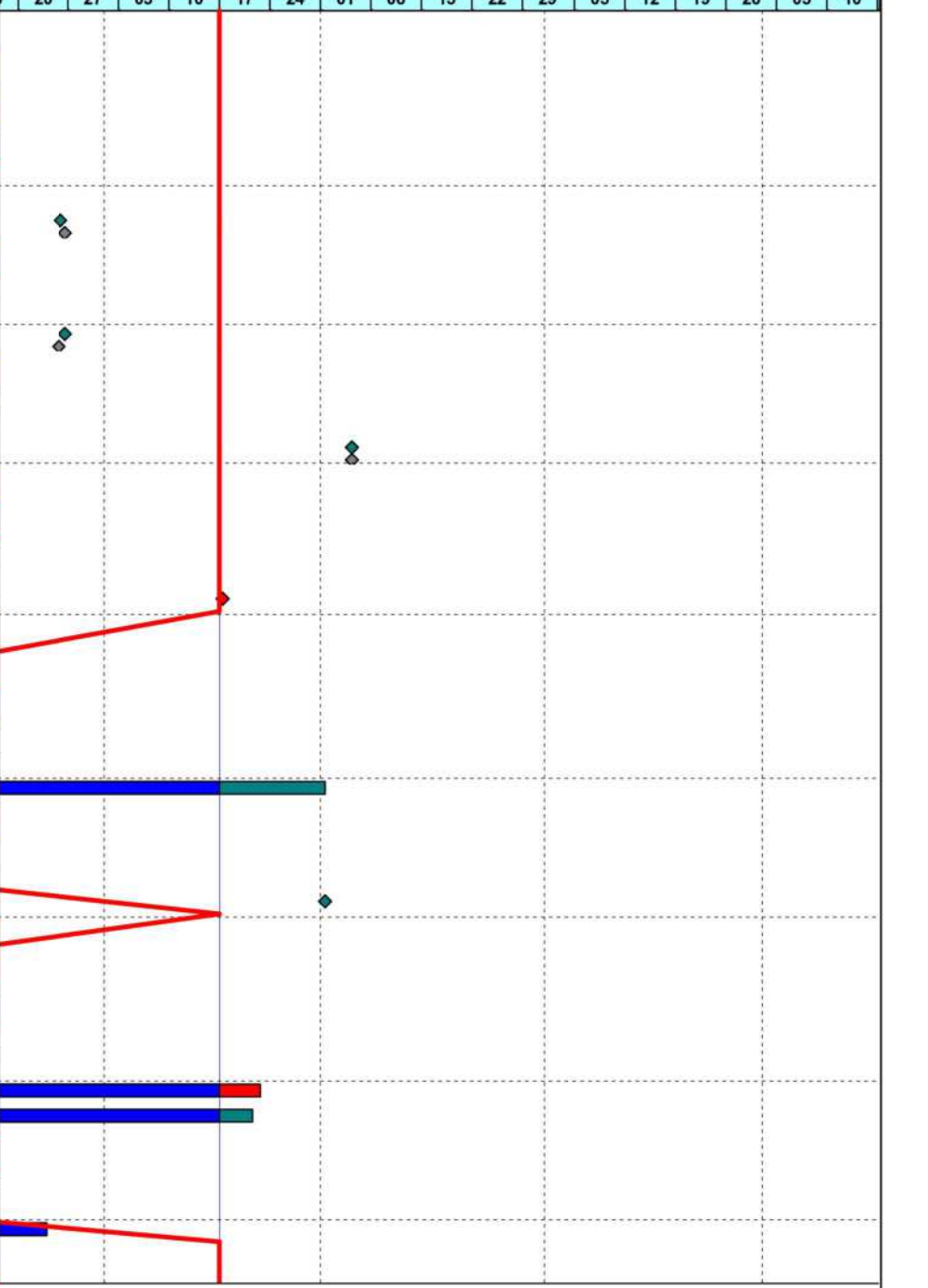
PD.1080	Predrilling for BP in KD05 [76 nos.]	30-Sep-21	30-Mar-22	290	30-Sep-21 A	07-Oct-22	-112
PD.1160	Predrilling for BP in KD09 [149 nos.] incl. 4 additional nos.	30-Sep-21	30-Mar-22	290	30-Sep-21 A	07-Oct-22	17

KD03 (Stage 3-1)

VD09

17	CBA-BPC54Ja.30	BP - Airlift, Cage Install and Concrete	28-Feb-23	06-Mar-23	7	16-Aug-22 A	24-Aug-22 A
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KD05 (Section 1)



	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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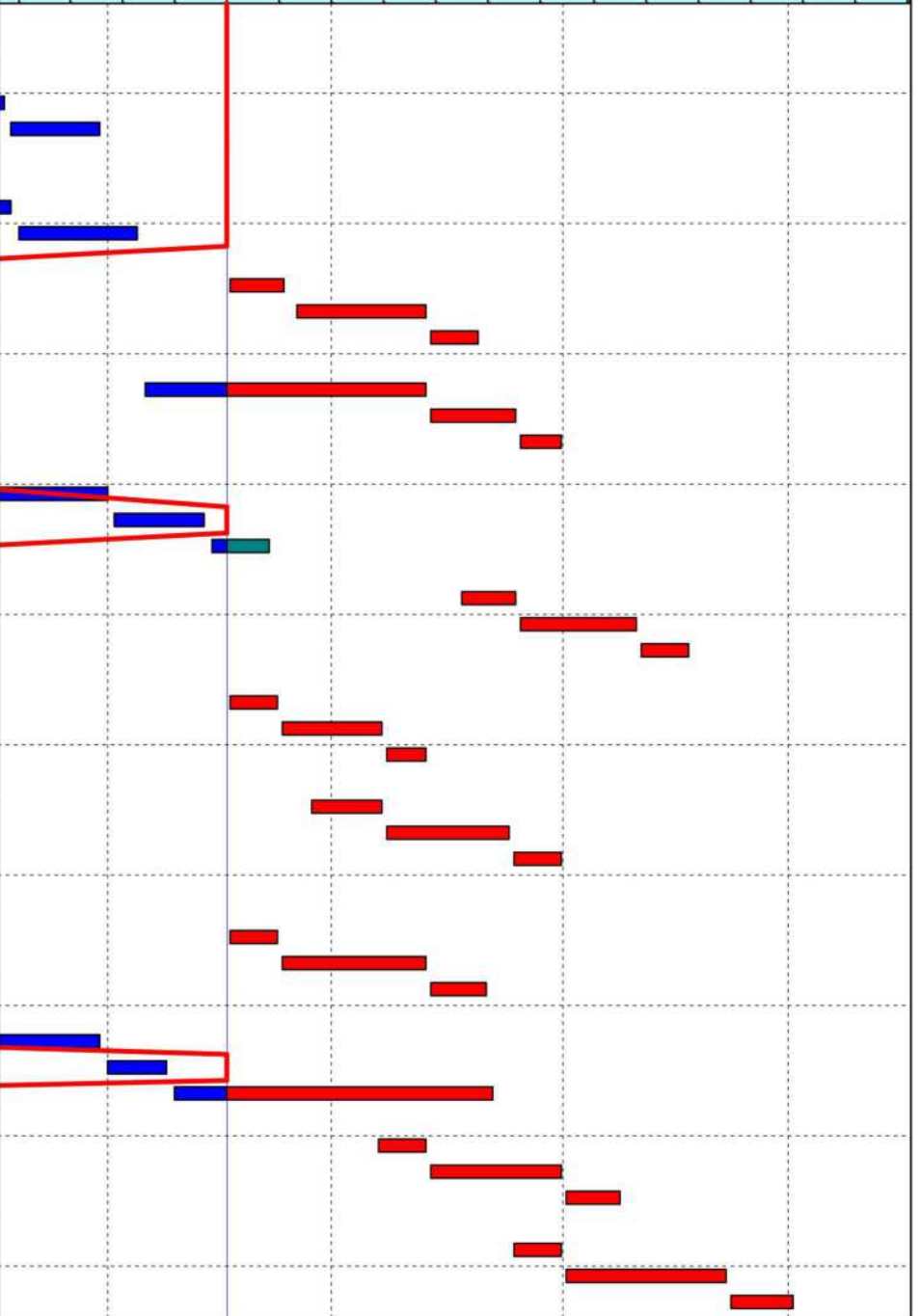


Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	September							October				November			December	
								15							16				17			18	
								20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03

Bored Piles

CD01							
03							
P23-BP20.20	BP - RCD Drilling	18-Jan-22	07-Feb-22	14	02-Aug-22 A	18-Aug-22 A	
P23-BP20.30	BP - Airlift, Cage Install and Concrete	08-Feb-22	15-Feb-22	10	19-Aug-22 A	31-Aug-22 A	
CD07							
05							
CBA-BPC42K.20	BP - RCD Drilling	22-Mar-22	01-Apr-22	8	10-Aug-22 A	19-Aug-22 A	
CBA-BPC42K.30	BP - Airlift, Cage Install and Concrete	02-Apr-22	08-Apr-22	13	20-Aug-22 A	05-Sep-22 A	
09							
CBA-BP02.10	BP - Excavation	11-May-22	18-May-22	7	17-Sep-22	24-Sep-22	-40
CBA-BP02.20	BP - RCD Drilling	19-May-22	04-Jun-22	14	26-Sep-22	13-Oct-22	-40
CBA-BP02.30	BP - Airlift, Cage Install and Concrete	06-Jun-22	11-Jun-22	6	14-Oct-22	20-Oct-22	-21
10							
CBA-BP05.10	BP - Excavation	28-May-22	04-Jun-22	30	06-Sep-22 A	13-Oct-22	-40
CBA-BP05.20	BP - RCD Drilling	06-Jun-22	16-Jun-22	10	14-Oct-22	25-Oct-22	-40
CBA-BP05.30	BP - Airlift, Cage Install and Concrete	17-Jun-22	22-Jun-22	5	26-Oct-22	31-Oct-22	-25
12							
CBA-BPC42Jb.10	BP - Excavation	22-Jun-22	28-Jun-22	48	07-Jul-22 A	01-Sep-22 A	
CBA-BPC42Jb.20	BP - RCD Drilling	29-Jun-22	11-Jul-22	9	02-Sep-22 A	14-Sep-22 A	
CBA-BPC42Jb.30	BP - Airlift, Cage Install and Concrete	12-Jul-22	16-Jul-22	7	15-Sep-22 A	22-Sep-22	6
13							
CBA-BP01.10	BP - Excavation	25-Mar-22	01-Apr-22	7	18-Oct-22	25-Oct-22	-40
CBA-BP01.20	BP - RCD Drilling	02-Apr-22	22-Apr-22	14	26-Oct-22	10-Nov-22	-40
CBA-BP01.30	BP - Airlift, Cage Install and Concrete	23-Apr-22	29-Apr-22	6	11-Nov-22	17-Nov-22	-40
15							
CBA-BP06.10	BP - Excavation	04-May-22	11-May-22	6	17-Sep-22	23-Sep-22	-25
CBA-BP06.20	BP - RCD Drilling	12-May-22	23-May-22	10	24-Sep-22	07-Oct-22	-25
CBA-BP06.30	BP - Airlift, Cage Install and Concrete	24-May-22	28-May-22	5	08-Oct-22	13-Oct-22	-16
16							
CBA-BP03.10	BP - Excavation	16-May-22	23-May-22	7	28-Sep-22	07-Oct-22	-25
CBA-BP03.20	BP - RCD Drilling	24-May-22	09-Jun-22	14	08-Oct-22	24-Oct-22	-25
CBA-BP03.30	BP - Airlift, Cage Install and Concrete	10-Jun-22	16-Jun-22	6	25-Oct-22	31-Oct-22	-25
CD05							
03							
P17-BP05.10	BP - Excavation	06-Jan-22	12-Jan-22	6	17-Sep-22	23-Sep-22	-90
P17-BP05.20	BP - RCD Drilling	13-Jan-22	29-Jan-22	15	24-Sep-22	13-Oct-22	-90
P17-BP05.30	BP - Airlift, Cage Install and Concrete	31-Jan-22	10-Feb-22	7	14-Oct-22	21-Oct-22	-17
06							
P22&P19-BP15.10	BP - Excavation	12-Mar-22	18-Mar-22	14	15-Aug-22 A	31-Aug-22 A	
P22&P19-BP15.20	BP - RCD Drilling	19-Mar-22	11-Apr-22	7	01-Sep-22 A	09-Sep-22 A	
P22&P19-BP15.30	BP - Airlift, Cage Install and Concrete	12-Apr-22	23-Apr-22	34	10-Sep-22 A	22-Oct-22	-18
08							
P17-BP01.10	BP - Excavation	30-Apr-22	07-May-22	6	07-Oct-22	13-Oct-22	-90
P17-BP01.20	BP - RCD Drilling	10-May-22	26-May-22	15	14-Oct-22	31-Oct-22	-90
P17-BP01.30	BP - Airlift, Cage Install and Concrete	27-May-22	04-Jun-22	7	01-Nov-22	08-Nov-22	-48
09							
P17-BP09.10	BP - Excavation	20-May-22	26-May-22	6	25-Oct-22	31-Oct-22	-90
P17-BP09.20	BP - RCD Drilling	27-May-22	18-Jun-22	19	01-Nov-22	22-Nov-22	-90
P17-BP09.30	BP - Airlift, Cage Install and Concrete	20-Jun-22	28-Jun-22	8	23-Nov-22	01-Dec-22	-60



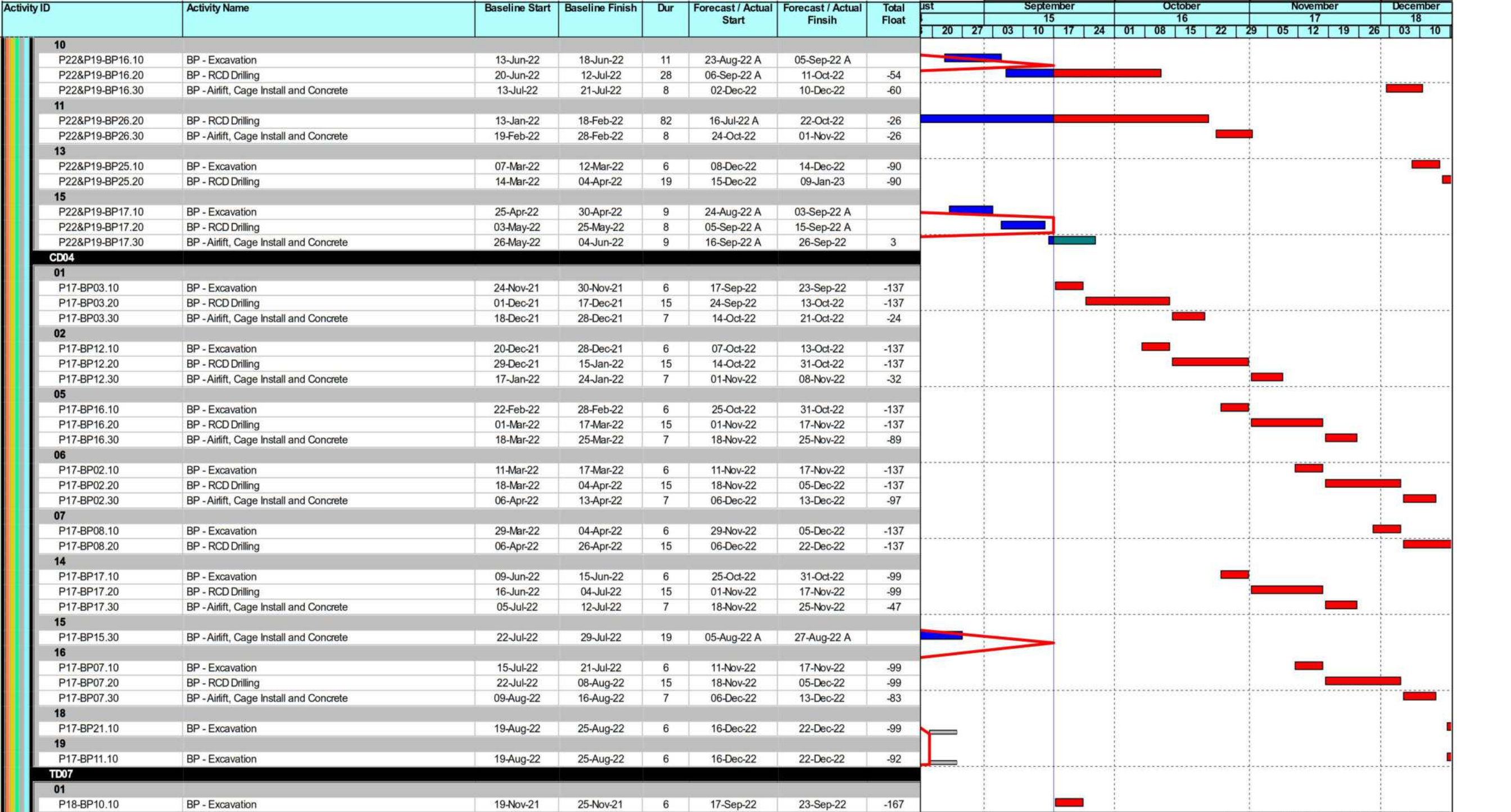
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 Print Date: 19-Sep-22_14:08
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	August		September					October					November				December											
								15		16			17		18			19		20		21	22	23	24	25	26	27	28	29	30	31			
								20	27	03	10	17	24	01	08	15	22	29	05	12	19	26	03	10											
P18-BP10.20	BP - RCD Drilling	26-Nov-21	13-Dec-21	15	24-Sep-22	13-Oct-22	-167																												
P18-BP10.30	BP - Airlift, Cage Install and Concrete	14-Dec-21	21-Dec-21	7	14-Oct-22	21-Oct-22	-46																												
05																																			
P18-BP02.10	BP - Excavation	17-Feb-22	23-Feb-22	6	11-Nov-22	17-Nov-22	-167																												
P18-BP02.20	BP - RCD Drilling	24-Feb-22	12-Mar-22	15	18-Nov-22	05-Dec-22	-167																												
P18-BP02.30	BP - Airlift, Cage Install and Concrete	14-Mar-22	21-Mar-22	7	06-Dec-22	13-Dec-22	-70																												
06																																			
P18-BP05.10	BP - Excavation	07-Mar-22	12-Mar-22	6	29-Nov-22	05-Dec-22	-167																												
P18-BP05.20	BP - RCD Drilling	14-Mar-22	04-Apr-22	19	06-Dec-22	29-Dec-22	-167																												
12																																			
P18-BP03.10	BP - Excavation	08-Jul-22	14-Jul-22	18	27-Jul-22 A	17-Aug-22 A																													
P18-BP03.20	BP - RCD Drilling	15-Jul-22	01-Aug-22	15	18-Aug-22 A	05-Sep-22 A																													
P18-BP03.30	BP - Airlift, Cage Install and Concrete	02-Aug-22	09-Aug-22	16	06-Sep-22 A	24-Sep-22	-10																												
16																																			
P18-BP01.10	BP - Excavation	18-May-22	24-May-22	6	07-Oct-22	13-Oct-22	-85																												
P18-BP01.20	BP - RCD Drilling	25-May-22	16-Jun-22	19	14-Oct-22	04-Nov-22	-85																												
P18-BP01.30	BP - Airlift, Cage Install and Concrete	17-Jun-22	25-Jun-22	8	05-Nov-22	14-Nov-22	-59																												
17																																			
P18-BP08.10	BP - Excavation	10-Jun-22	16-Jun-22	6	29-Oct-22	04-Nov-22	-85																												
P18-BP08.20	BP - RCD Drilling	17-Jun-22	09-Jul-22	19	05-Nov-22	26-Nov-22	-85																												
P18-BP08.30	BP - Airlift, Cage Install and Concrete	11-Jul-22	19-Jul-22	8	28-Nov-22	06-Dec-22	-70																												
Optional Item no. 3																																			
CD04																																			
08																																			
P17-BP13.10	BP (Optional Item no.3) - Excavation	28-Apr-22	05-May-22	6	16-Dec-22	22-Dec-22	-137																												
12																																			
P17-BP22.10	BP (Optional Item no.3) - Excavation	03-May-22	10-May-22	6	17-Sep-22	23-Sep-22	-99																												
P17-BP22.20	BP (Optional Item no.3) - RCD Drilling	11-May-22	27-May-22	15	24-Sep-22	13-Oct-22	-99																												
P17-BP22.30	BP (Optional Item no.3) - Airlift, Cage Install and Concrete	28-May-22	06-Jun-22	7	14-Oct-22	21-Oct-22	-31																												
13																																			
P17-BP18.10	BP (Optional Item no.3) - Excavation	21-May-22	27-May-22	6	07-Oct-22	13-Oct-22	-99																												
P17-BP18.20	BP (Optional Item no.3) - RCD Drilling	28-May-22	15-Jun-22	15	14-Oct-22	31-Oct-22	-99																												
P17-BP18.30	BP (Optional Item no.3) - Airlift, Cage Install and Concrete	16-Jun-22	23-Jun-22	7	01-Nov-22	08-Nov-22	-39																												
17																																			
P17-BP04.10	BP (Optional Item no.3) - Excavation	02-Aug-22	08-Aug-22	6	29-Nov-22	05-Dec-22	-99																												
P17-BP04.20	BP (Optional Item no.3) - RCD Drilling	09-Aug-22	25-Aug-22	15	06-Dec-22	22-Dec-22	-99																												
TD08																																			
10																																			
CBA-BPC36Jb.10	BP (Optional Item no.3) - Excavation	28-Apr-22	05-May-22	6	17-Sep-22	23-Sep-22	-20																												
CBA-BPC36Jb.20	BP (Optional Item no.3) - RCD Drilling	06-May-22	18-May-22	10	24-Sep-22	07-Oct-22	-20																												
CBA-BPC36Jb.30	BP (Optional Item no.3) - Airlift, Cage Install and Concrete	19-May-22	24-May-22	5	08-Oct-22	13-Oct-22	-15																												
12																																			
CBA-BPC36Ka.10	BP (Optional Item no.3) - Excavation	24-May-22	30-May-22	6	29-Sep-22	07-Oct-22	-20																												
CBA-BPC36Ka.20	BP (Optional Item no.3) - RCD Drilling	31-May-22	11-Jun-22	10	08-Oct-22	19-Oct-22	-20																												
CBA-BPC36Ka.30	BP (Optional Item no.3) - Airlift, Cage Install and Concrete	13-Jun-22	17-Jun-22	5	20-Oct-22	25-Oct-22	-20																												
TD07																																			
18																																			
P18-BP04.10	BP (Optional Item no.3) - Excavation	04-Jul-22	09-Jul-22	6	21-Nov-22	26-Nov-22	-85																												
P18-BP04.20	BP (Optional Item no.3) - RCD Drilling	11-Jul-22	27-Jul-22	15	28-Nov-22	14-Dec-22	-85																												
P18-BP04.30	BP (Optional Item no.3) - Airlift, Cage Install and Concrete	28-Jul-22	04-Aug-22	7	15-Dec-22	22-Dec-22	-77																												

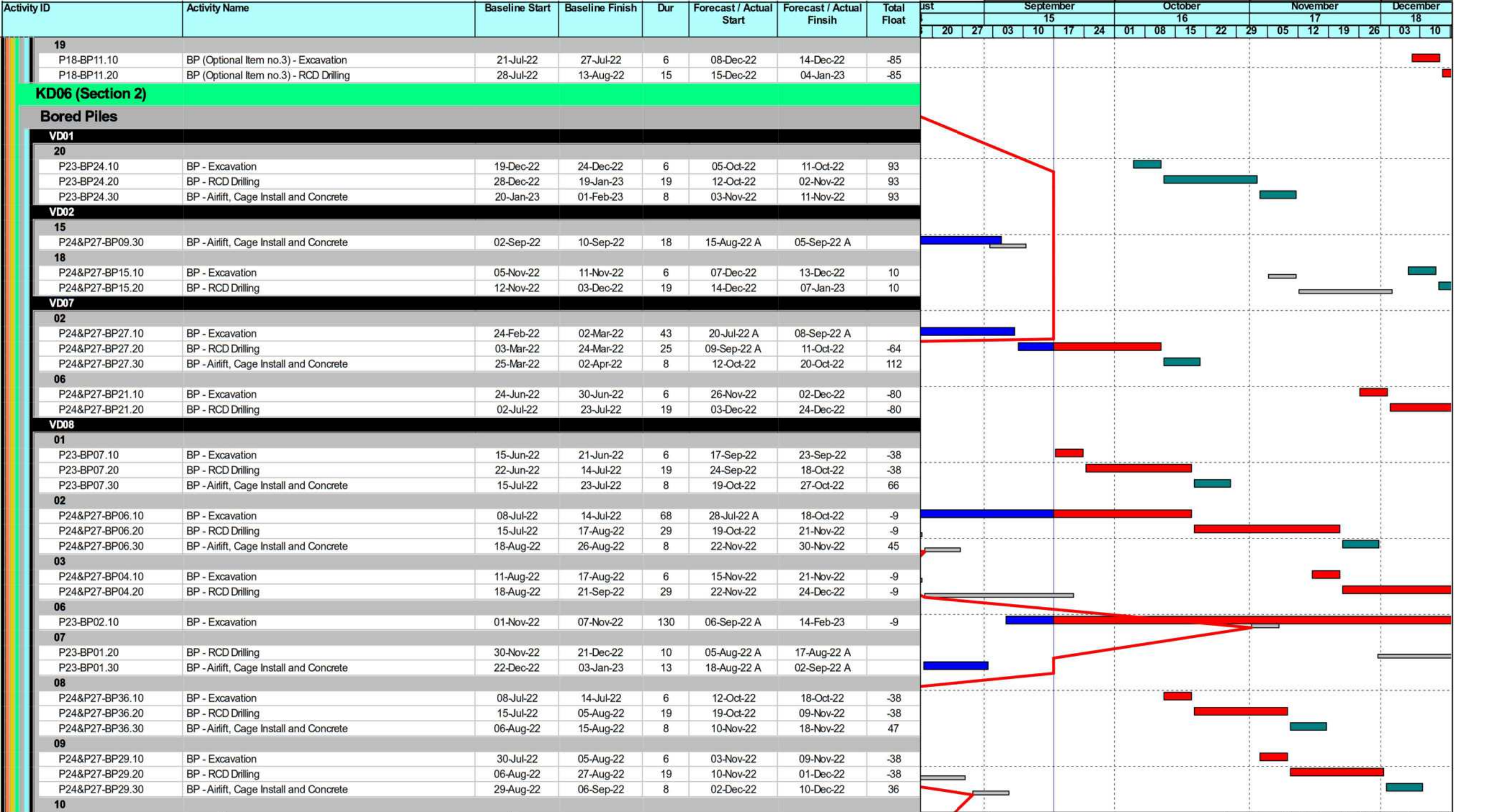
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- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Critical MS
- Baseline MS

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3 Month Rolling Programme as of 16 Sep 2022
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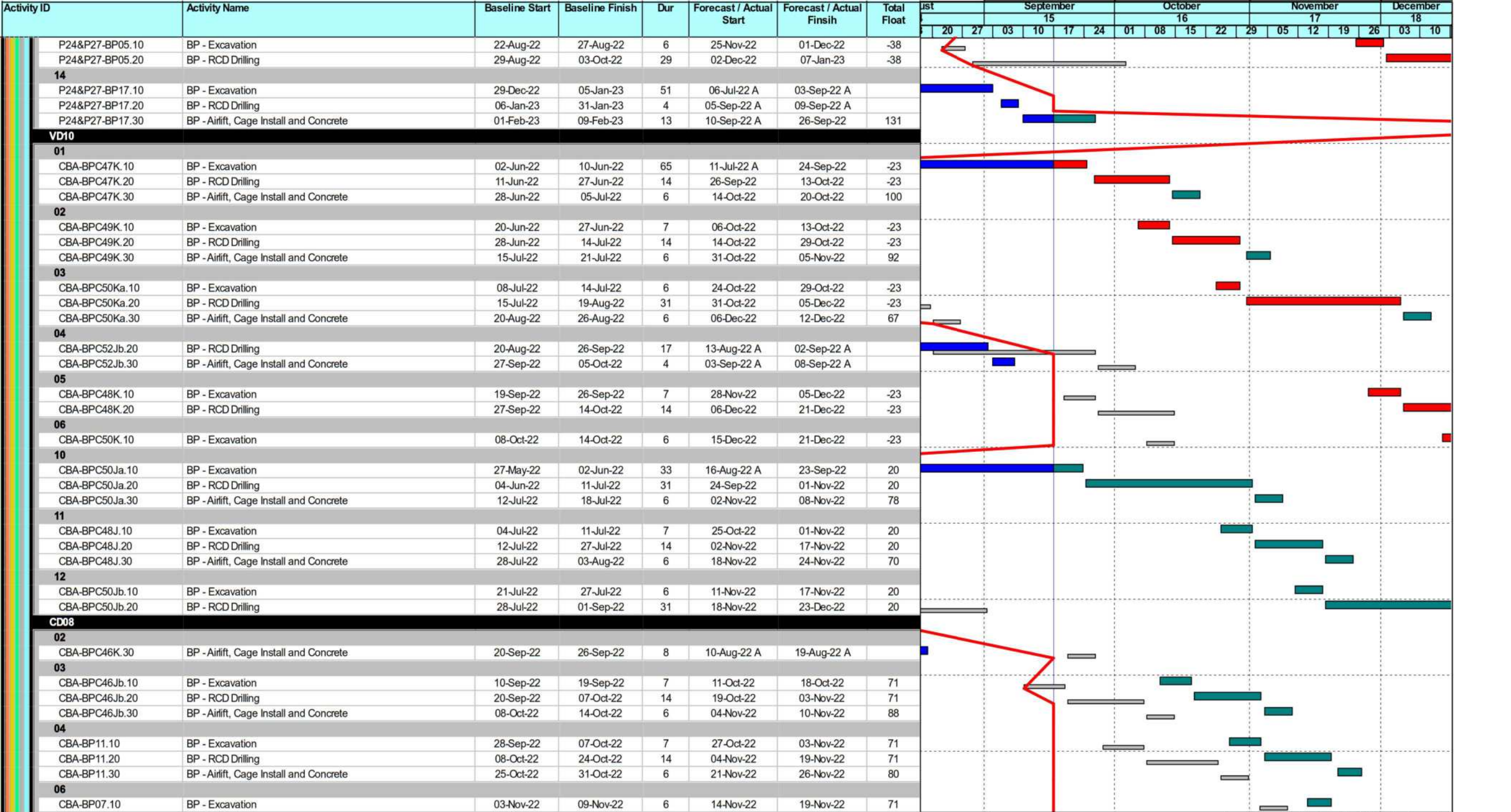


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
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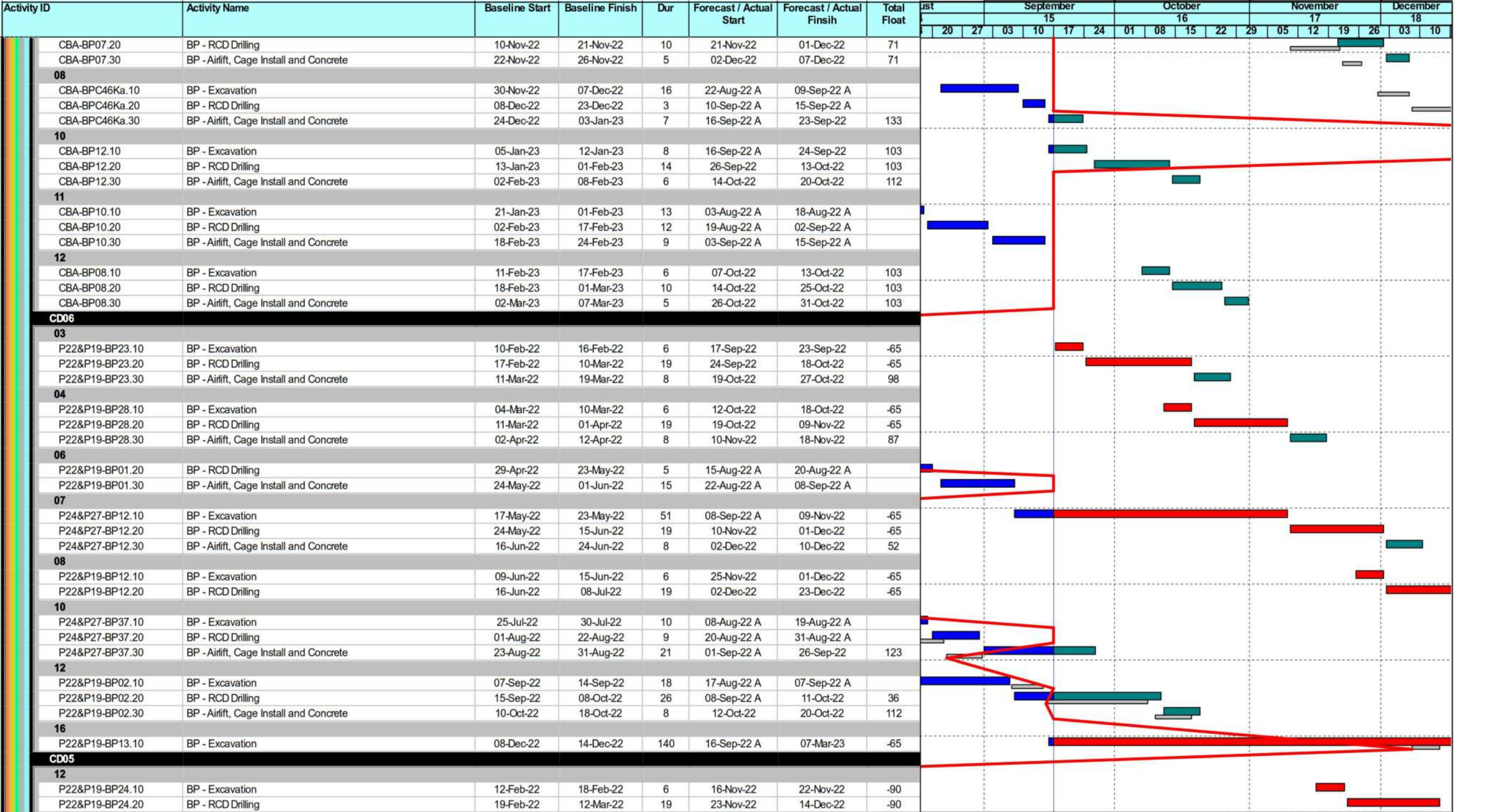
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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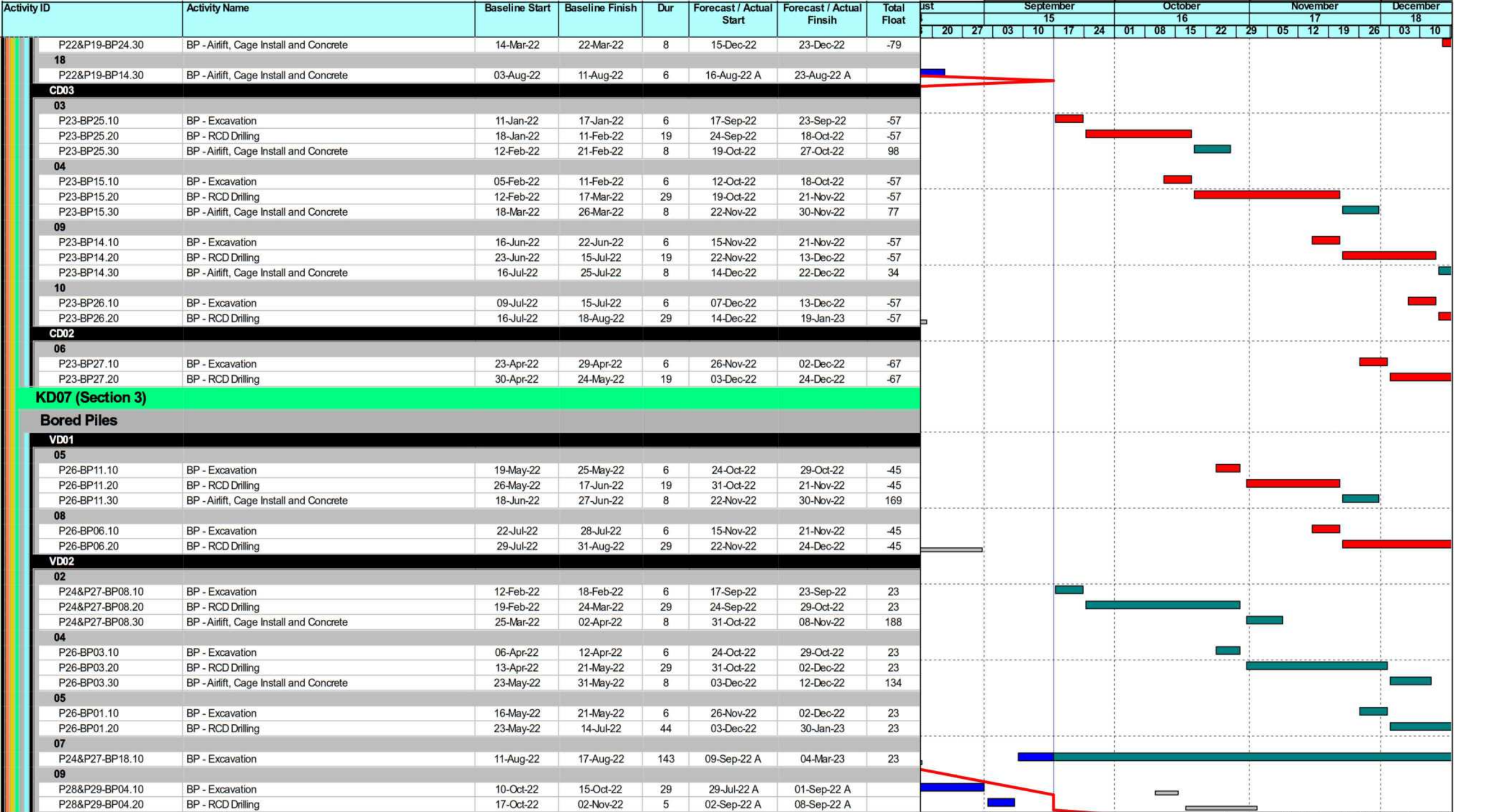



Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

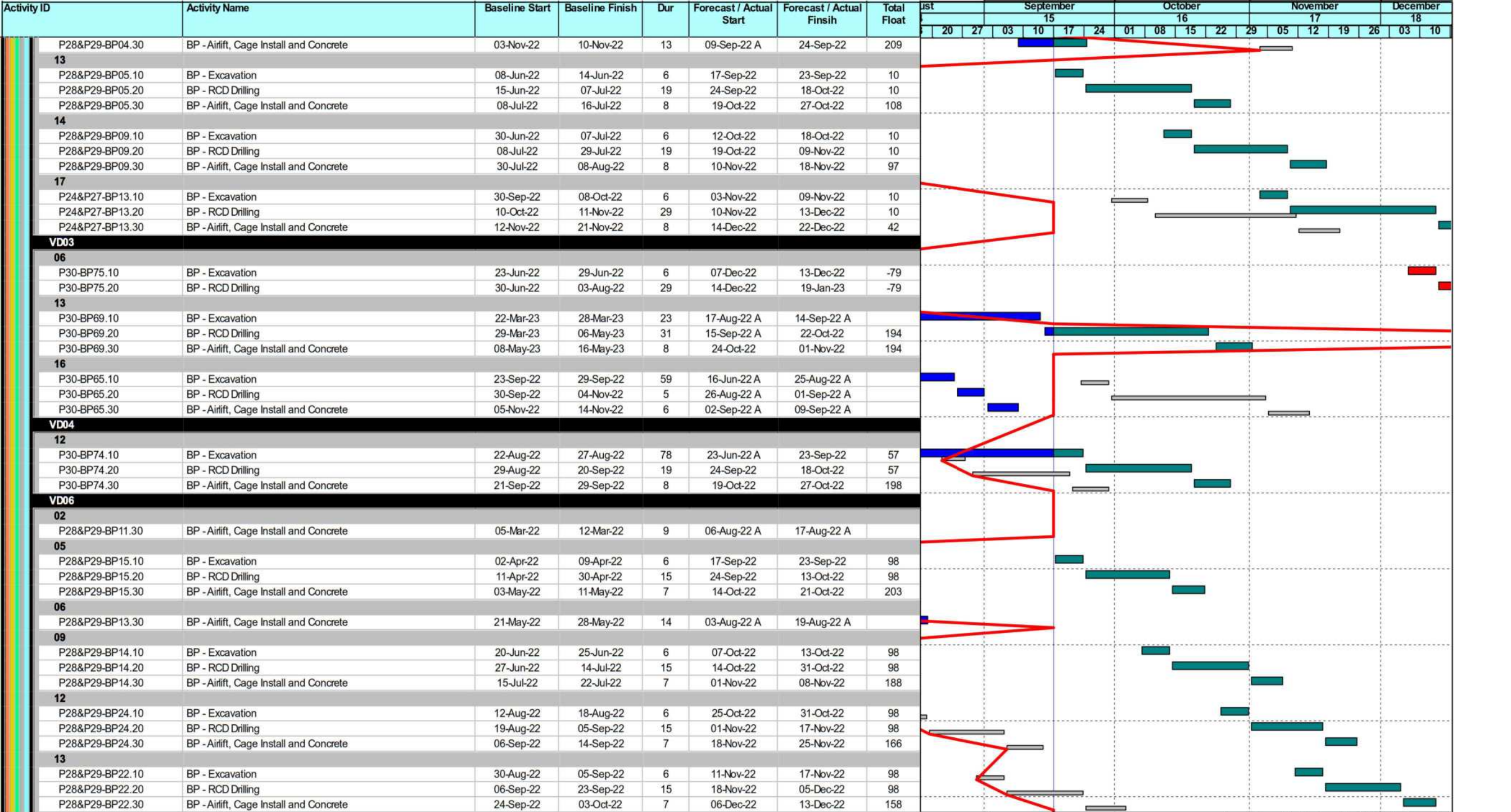
West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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ID: 2B2C-20220916_w Data Date: 17-Sep-22 Print Date: 19-Sep-22_14:08 Page 8 of 19	<ul style="list-style-type: none"> Planned Bar Critical Bar Baseline Milestone Critical MS Baseline MS 	<p align="center">West Kowloon Cultural District Authority</p> <p align="center">Piling for Integrated Basement and U/G Road in Zone 2B 2C</p> <p align="center">3 Month Rolling Programme as of 16 Sep 2022</p> <p align="center">Based on CMWP Rev.0</p>		Date	Revision	Checked	Approved
				4-Mar-22	Rev.0	KL	B

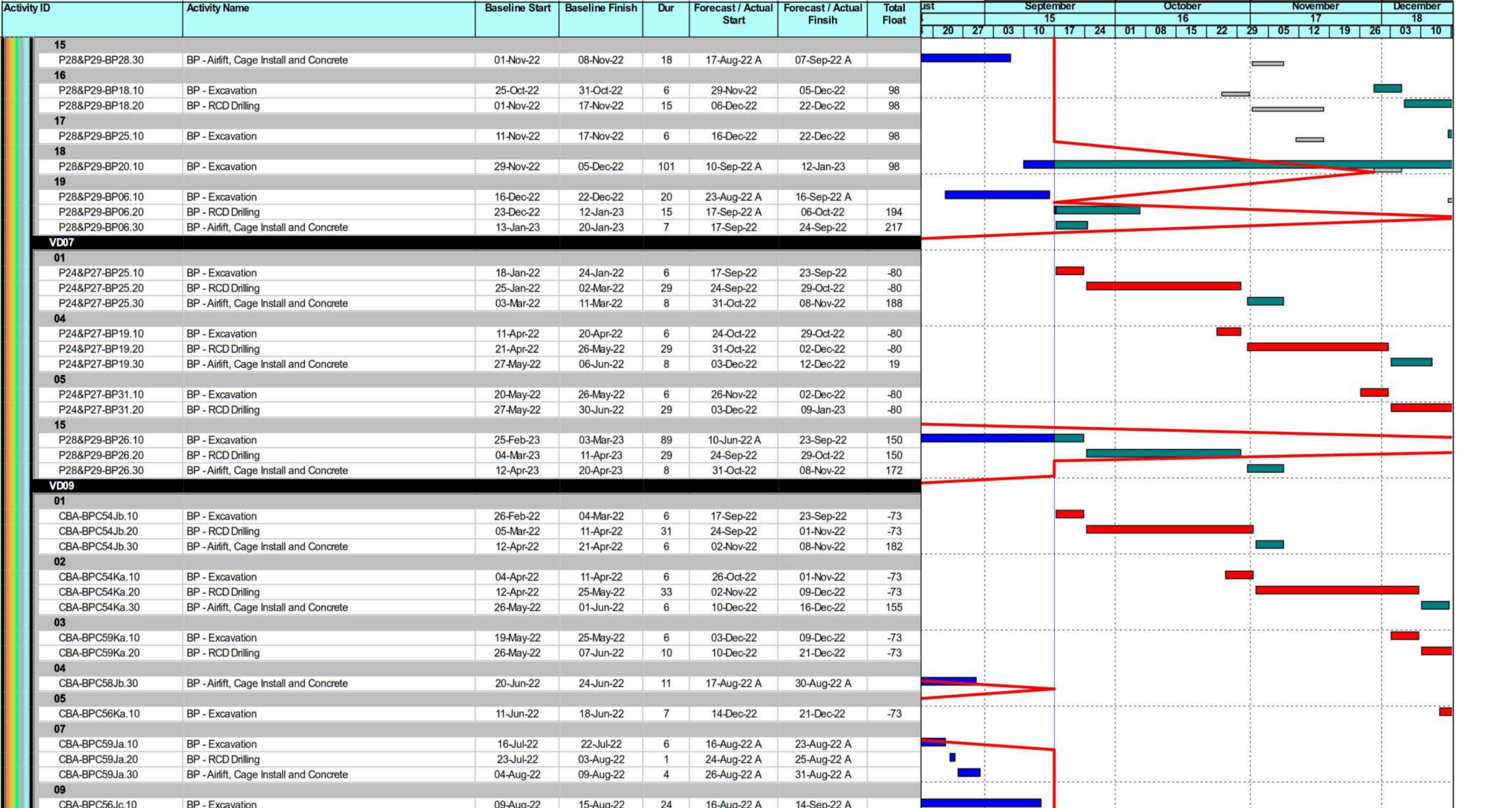


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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3 Month Rolling Programme as of 16 Sep 2022
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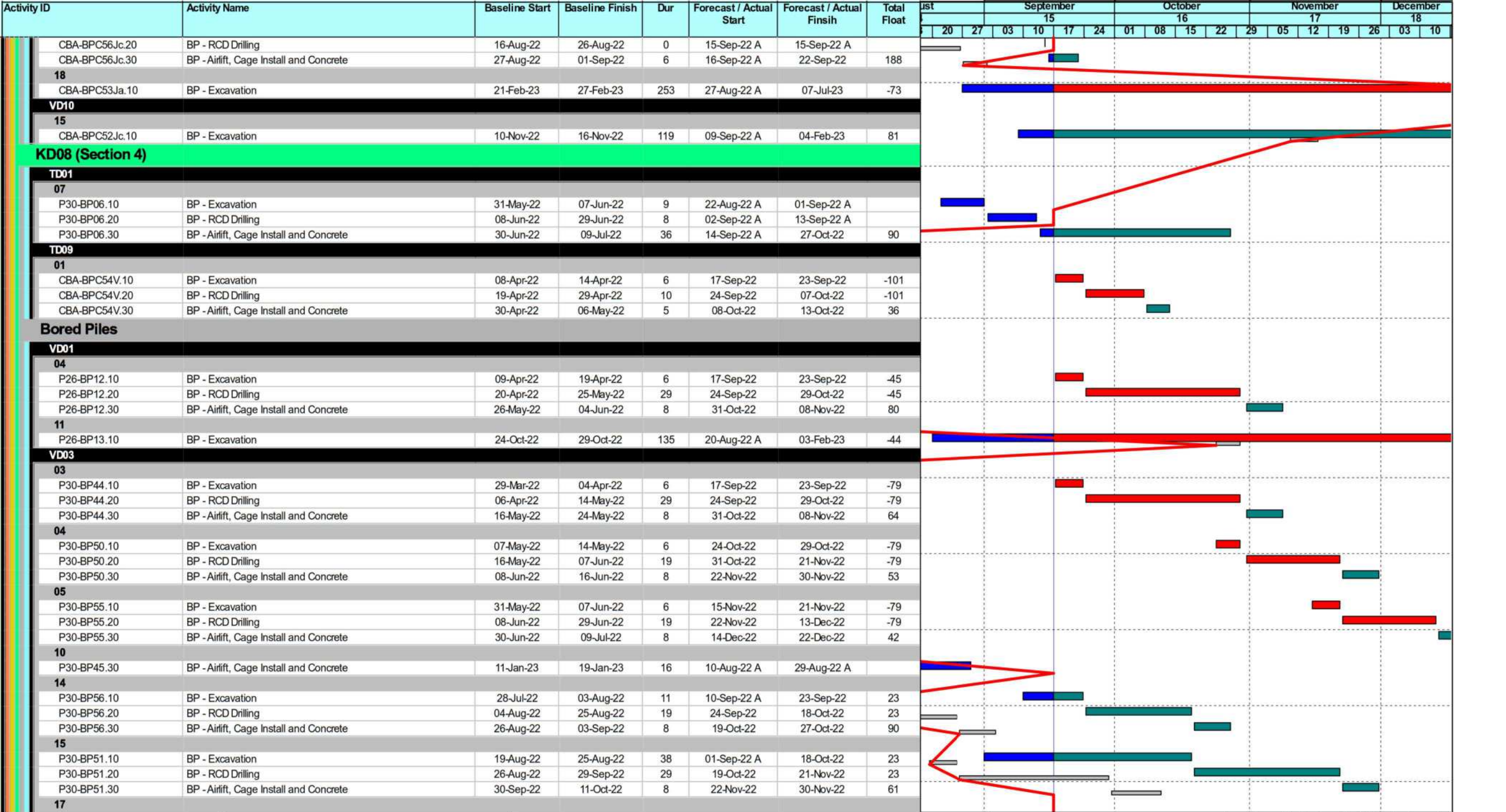
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

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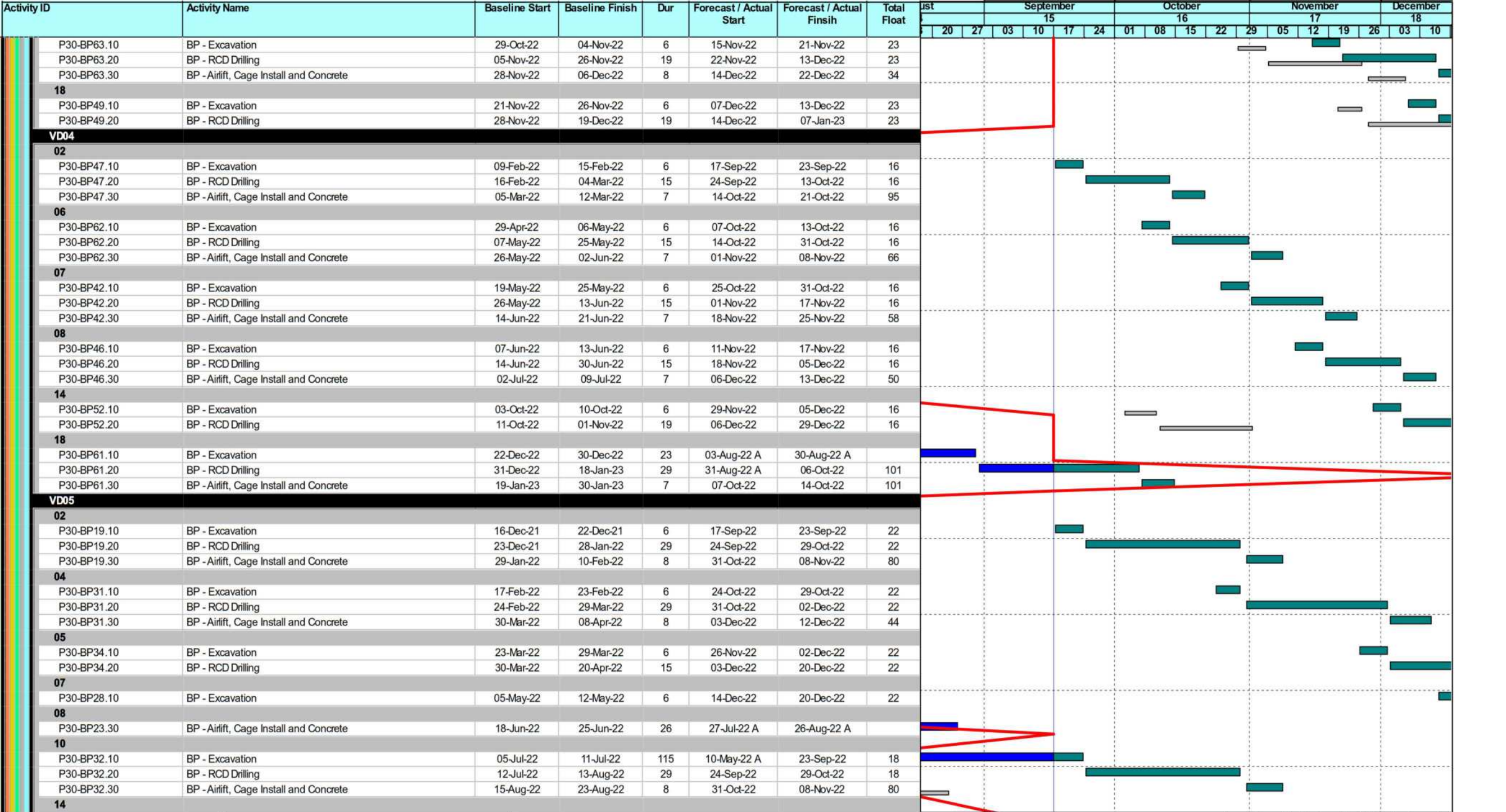


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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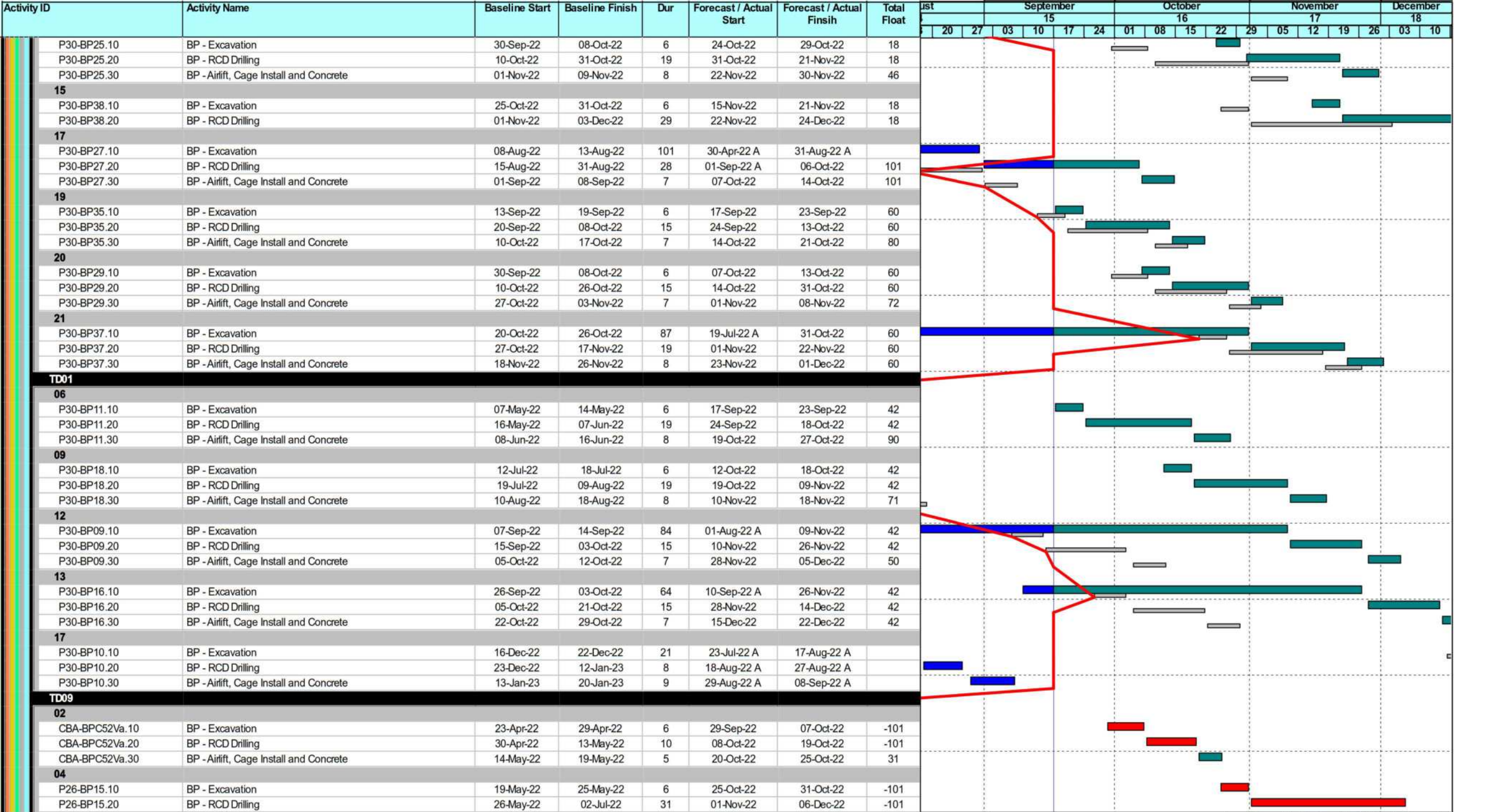


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finish	Total Float	September				October				November				December	
								15				16				17				18	
								20	27	03	10	17	24	01	08	15	22	29	05	12	19
P26-BP15.30	BP - Airlift, Cage Install and Concrete	04-Jul-22	09-Jul-22	6	07-Dec-22	13-Dec-22	0														
05																					
P26-BP16.10	BP - Excavation	24-Jun-22	02-Jul-22	7	29-Nov-22	06-Dec-22	-101														
P26-BP16.20	BP - RCD Drilling	04-Jul-22	19-Jul-22	14	07-Dec-22	22-Dec-22	-101														
06																					
CBA-BPC54U.10	BP - Excavation	12-Jul-22	19-Jul-22	7	15-Dec-22	22-Dec-22	-101														

Socketed Steel H- Piles

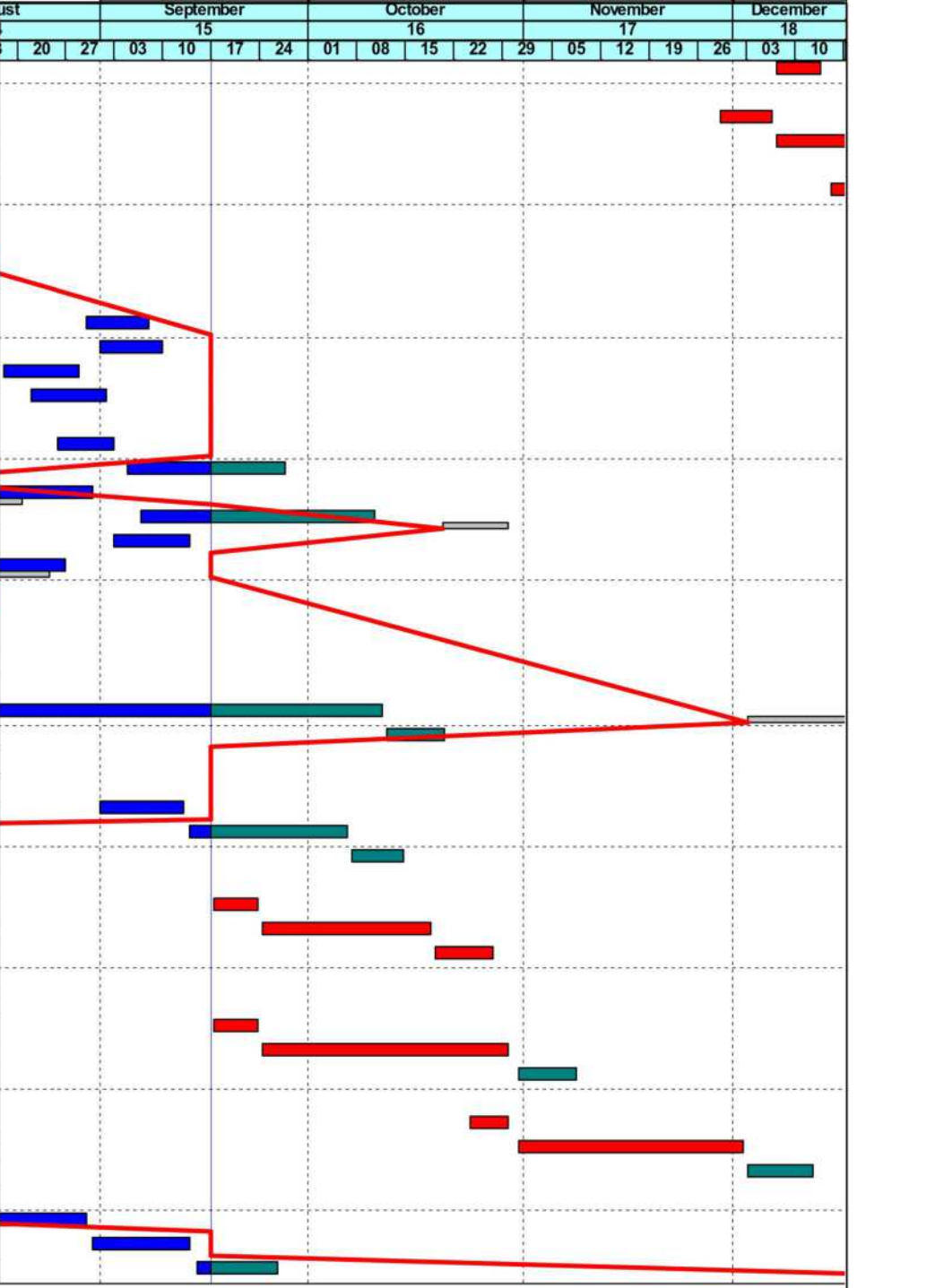
Socketed Steel H- Pile Construction

Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finish	Total Float
SHP-BW-52Y1a-P2	Socketed Steel H-Piling	21-Apr-22	30-Apr-22	8	30-Aug-22 A	08-Sep-22 A	
SHP-BW-53Y1-P2	Socketed Steel H-Piling	30-Apr-22	12-May-22	8	01-Sep-22 A	10-Sep-22 A	
SHP-BW-54Y1b-P2	Socketed Steel H-Piling	12-May-22	21-May-22	9	18-Aug-22 A	29-Aug-22 A	
SHP-C52Wa-P6	Socketed Steel H-Piling	10-Jun-22	20-Jun-22	10	22-Aug-22 A	02-Sep-22 A	
SHP-C52Xb-P6	Socketed Steel H-Piling	09-Jul-22	19-Jul-22	8	08-Aug-22 A	17-Aug-22 A	
SHP-C52Xc-P2	Socketed Steel H-Piling	19-Jul-22	28-Jul-22	7	26-Aug-22 A	03-Sep-22 A	
SHP-C52Xc-P5	Socketed Steel H-Piling	02-Aug-22	11-Aug-22	19	05-Sep-22 A	27-Sep-22 A	110
SHP-C53W-P1	Socketed Steel H-Piling	11-Aug-22	20-Aug-22	13	16-Aug-22 A	31-Aug-22 A	
SHP-C53Xa-P2	Socketed Steel H-Piling	20-Oct-22	29-Oct-22	26	07-Sep-22 A	10-Oct-22 A	110
SHP-C53Xa-P5	Socketed Steel H-Piling	07-Jul-22	16-Jul-22	8	03-Sep-22 A	14-Sep-22 A	
SHP-C54Wa-P6	Socketed Steel H-Piling	15-Aug-22	24-Aug-22	25	29-Jul-22 A	27-Aug-22 A	

KD09 (Section 5)

Bored Piles

VD01							
19							
P23-BP46.20	BP - RCD Drilling	03-Dec-22	24-Dec-22	49	12-Aug-22 A	11-Oct-22	93
P23-BP46.30	BP - Airlift, Cage Install and Concrete	28-Dec-22	06-Jan-23	8	12-Oct-22	20-Oct-22	104
CD01							
06							
P23-BP40.10	BP - Excavation	23-Feb-22	01-Mar-22	9	01-Sep-22 A	13-Sep-22 A	
P23-BP40.20	BP - RCD Drilling	02-Mar-22	18-Mar-22	18	14-Sep-22 A	06-Oct-22	117
P23-BP40.30	BP - Airlift, Cage Install and Concrete	19-Mar-22	26-Mar-22	7	07-Oct-22	14-Oct-22	117
15							
P23-BP52.10	BP - Excavation	20-May-22	26-May-22	6	17-Sep-22	23-Sep-22	-8
P23-BP52.20	BP - RCD Drilling	27-May-22	18-Jun-22	19	24-Sep-22	18-Oct-22	-8
P23-BP52.30	BP - Airlift, Cage Install and Concrete	20-Jun-22	28-Jun-22	8	19-Oct-22	27-Oct-22	-8
CD02							
02							
P23-BP37.10	BP - Excavation	21-Dec-21	29-Dec-21	6	17-Sep-22	23-Sep-22	-67
P23-BP37.20	BP - RCD Drilling	30-Dec-21	05-Feb-22	29	24-Sep-22	29-Oct-22	-67
P23-BP37.30	BP - Airlift, Cage Install and Concrete	07-Feb-22	15-Feb-22	8	31-Oct-22	08-Nov-22	88
03							
P23-BP48.10	BP - Excavation	27-Jan-22	05-Feb-22	6	24-Oct-22	29-Oct-22	-67
P23-BP48.20	BP - RCD Drilling	07-Feb-22	11-Mar-22	29	31-Oct-22	02-Dec-22	-67
P23-BP48.30	BP - Airlift, Cage Install and Concrete	12-Mar-22	21-Mar-22	8	03-Dec-22	12-Dec-22	67
15							
P23-BP61.10	BP - Excavation	17-Dec-22	23-Dec-22	13	15-Aug-22 A	30-Aug-22 A	
P23-BP61.20	BP - RCD Drilling	24-Dec-22	18-Jan-23	11	31-Aug-22 A	14-Sep-22 A	
P23-BP61.30	BP - Airlift, Cage Install and Concrete	19-Jan-23	31-Jan-23	10	15-Sep-22 A	26-Sep-22 A	131

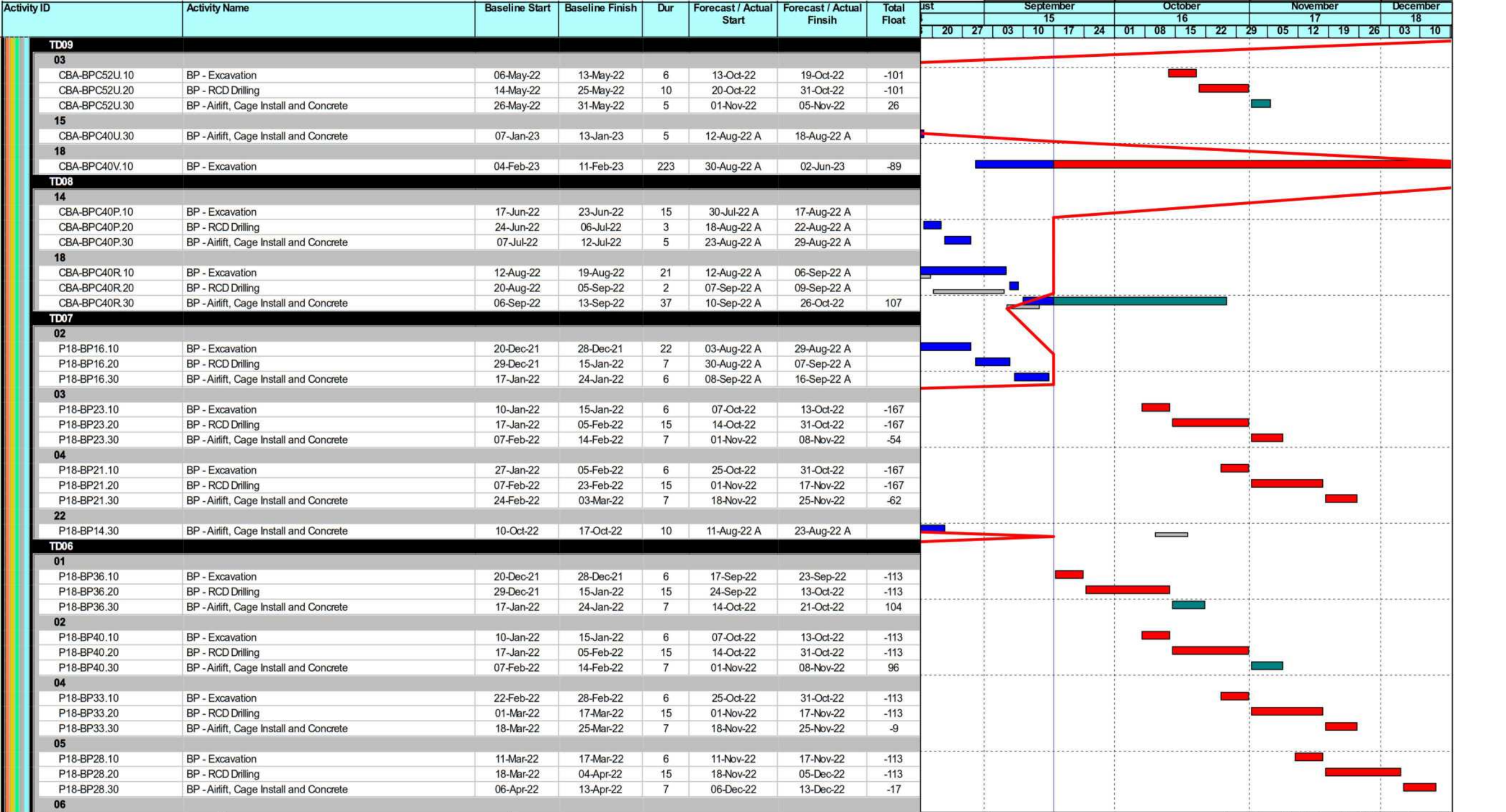


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
Based on CMWP Rev.0



Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

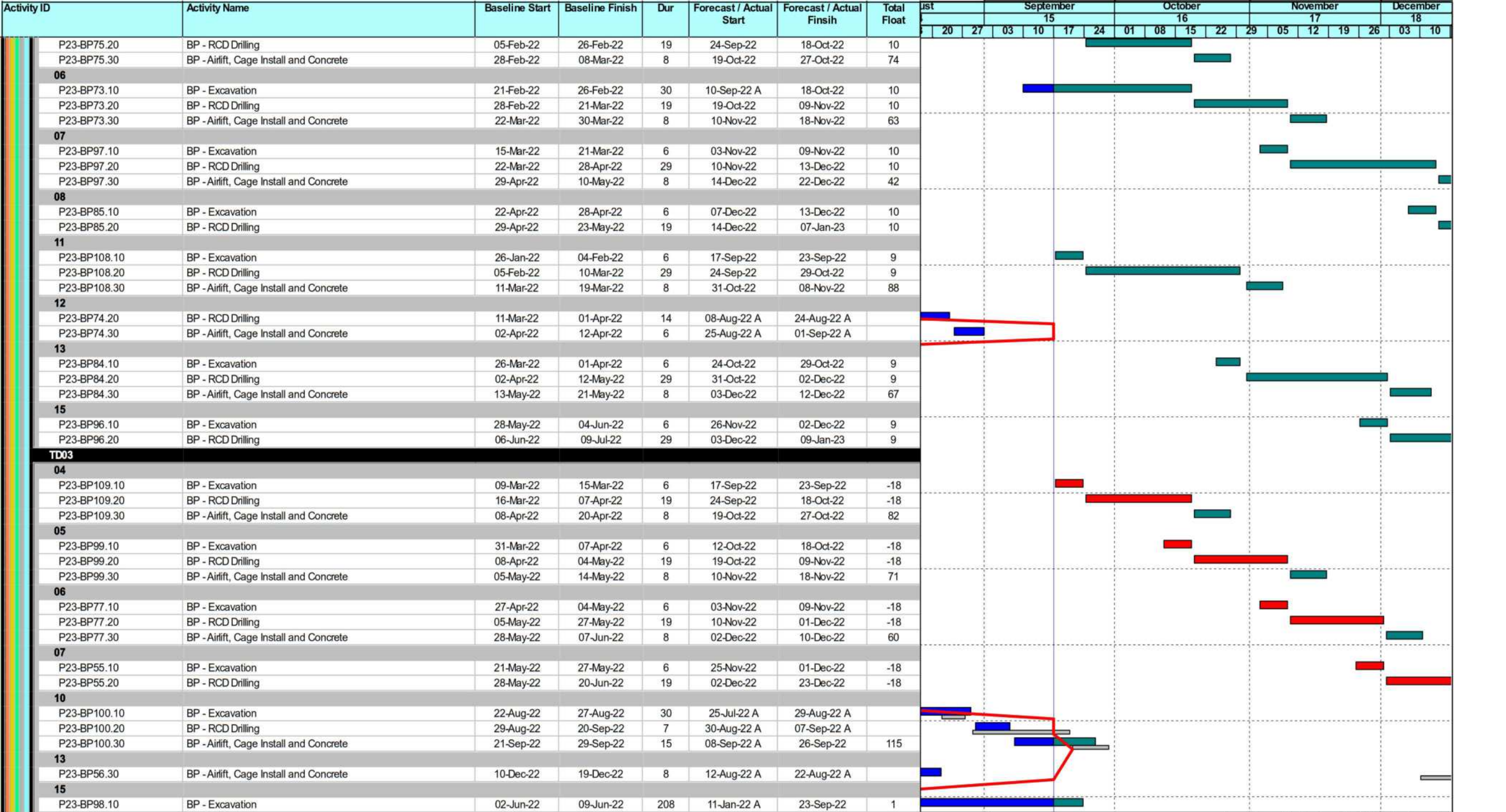


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
 Based on CMWP Rev.0



Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

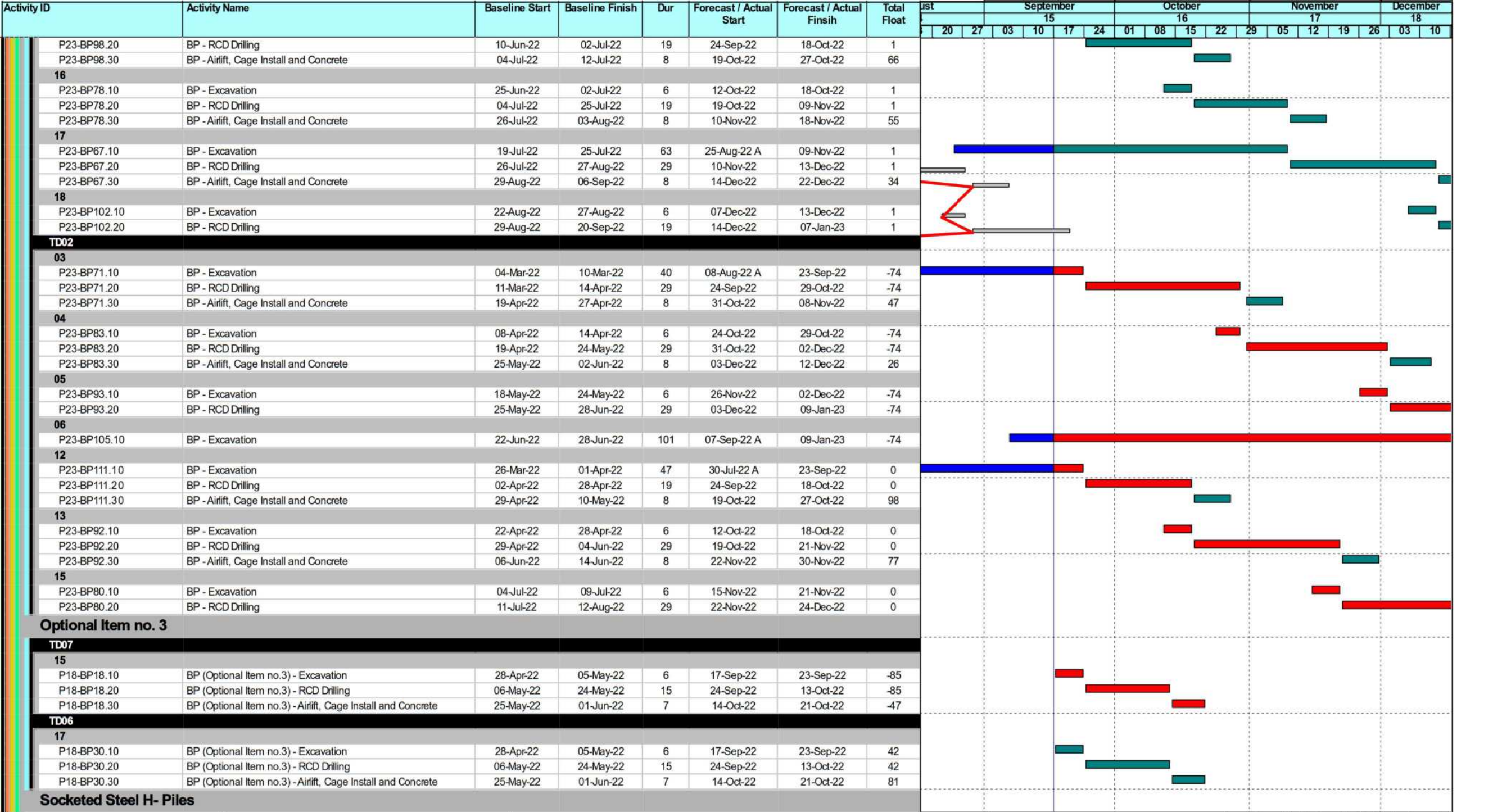


Planned Bar	Milestone
Critical Bar	Critical MS
Baseline	Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
 Based on CMWP Rev.0



Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

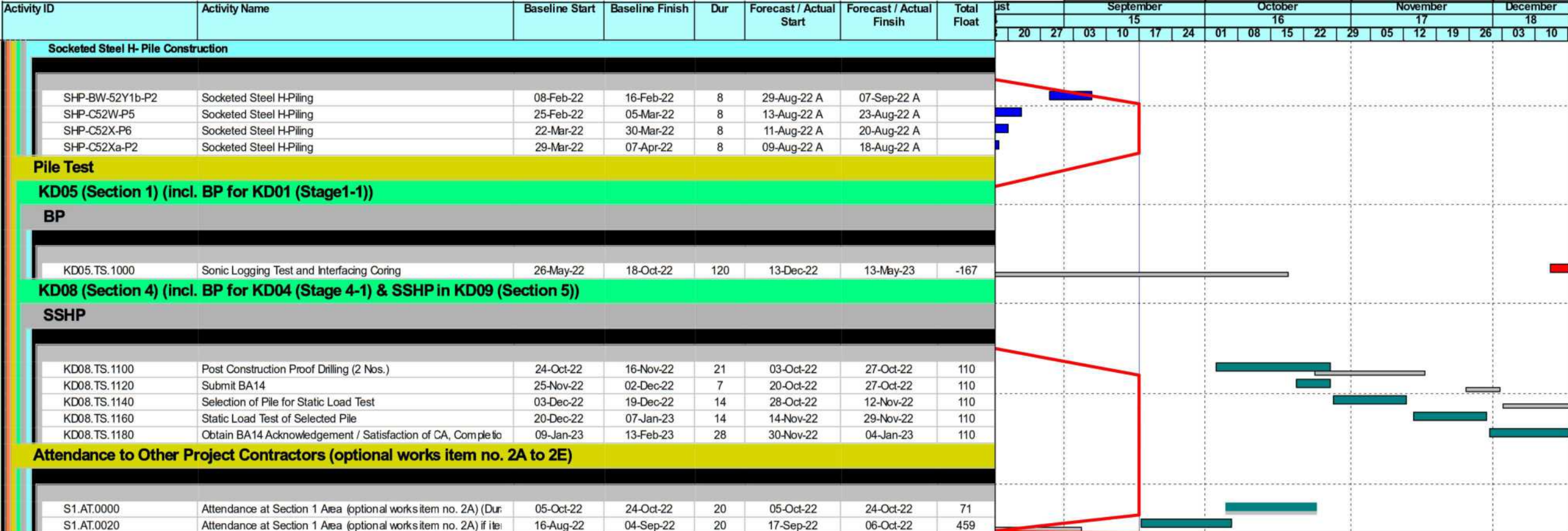


	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
 Based on CMWP Rev.0



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	Planned Bar		Milestone
	Critical Bar		Critical MS
	Baseline		Baseline MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 16 Sep 2022
 Based on CMWP Rev.0



Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % comple	October				November				December			January		
									24	01	08	15	22	29	05	12	19	26	03	10	17	24

Piling for Integrated Basement and U/G Road in Zone 2B & 2C

Contract Dates

Optional Works subjected to CA's Instruction

CO2A	Last CAI date for Optional Works Item No.2A (330 Days to 440 Days after Commencement)	05-Oct-22		0	05-Oct-22 A			100%
------	---	-----------	--	---	-------------	--	--	------

Access Dates of Site Portion

60 days after Commencement

ACB40	Access to Site Portion B40	20-Sep-21		0	18-Oct-22 A			100%
-------	----------------------------	-----------	--	---	-------------	--	--	------

120 days after Commencement

ACB18	Access to Site Portion B18	19-Nov-21		0	28-Sep-22 A			100%
-------	----------------------------	-----------	--	---	-------------	--	--	------

150 days after Commencement

ACB01	Access to Site Portion B01	19-Dec-21		0	18-Oct-22 A			100%
ACB34	Access to Site Portion B34	19-Dec-21		0	18-Oct-22 A			100%

270 days after Commencement

ACB35	Access to Site Portion B35 (To be agreed with the Zone 2A contractor)	18-Apr-22		0	15-Oct-22 A			100%
-------	---	-----------	--	---	-------------	--	--	------

Mobilization Stage

Site Mobilization Works

Pre-Construction Works before Piling Commencement

MOBP.10.1300	Trial Pit for Drillholes & Removal of Existing Substructures / Ground Slab [520 nos]	19-Aug-21	30-Apr-22	407	19-Aug-21 A	30-Sep-22 A		98%
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End of Mobilization

MOBP.99.1080	End of Mobilization Stage		18-May-22	0		07-Oct-22 A		100%
--------------	---------------------------	--	-----------	---	--	-------------	--	------

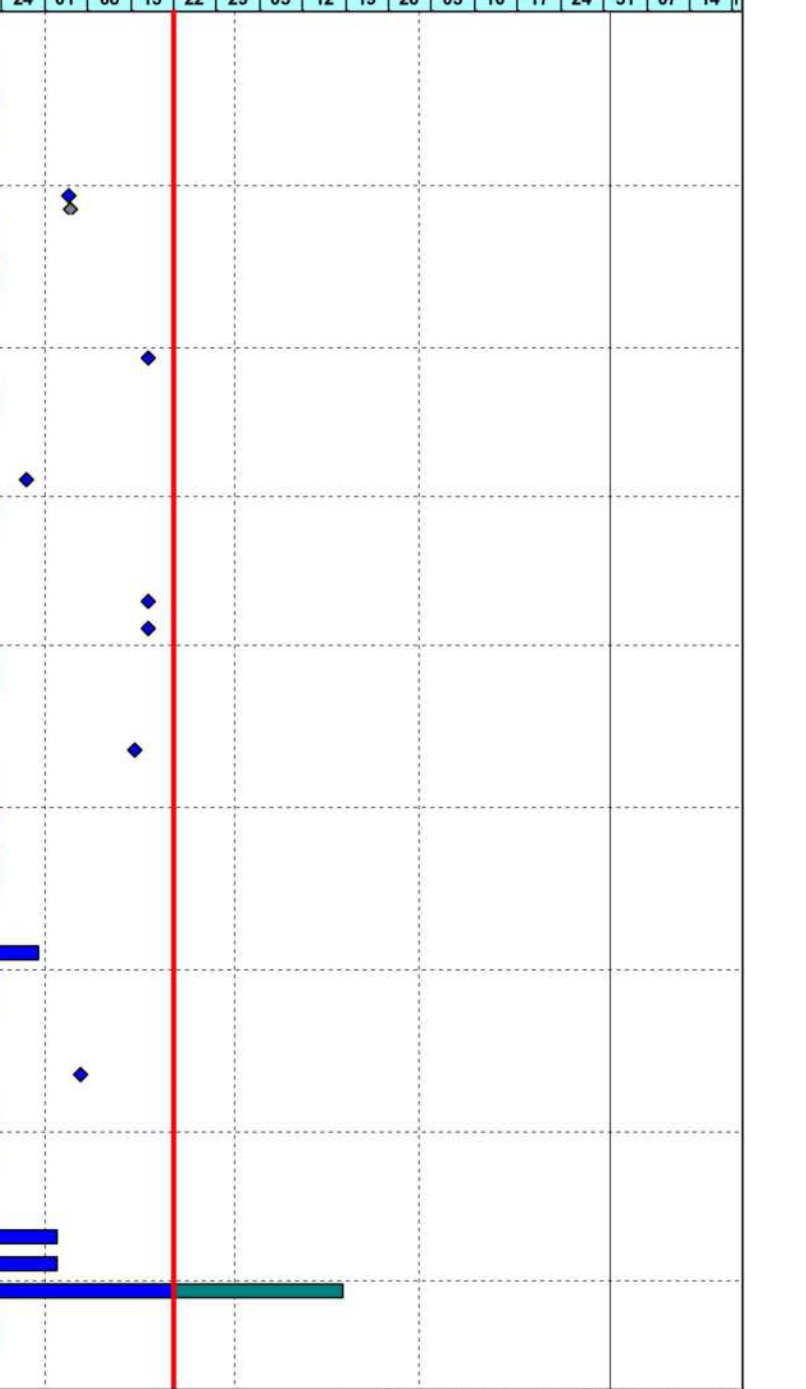
Construction Stage

Impact Assessment for Works Along Zone 2A ELS

IAR.N.1000	IAR-N Submission and Approval of Impact Assessment Report (North Portion)			13	20-Sep-22 A	03-Oct-22 A		100%
IAR.N.2350	IAR-N Submission and Approval of Method Statment for Drainage Diversion (North Portion)			20	13-Sep-22 A	03-Oct-22 A		100%
IAR.S.1000	IAR-S Submission and Approval of Impact Assessment Report (South Portion)			81	30-Aug-22 A	18-Nov-22	416	0%

Drainage Diversion Works (North Portion)

SD42 - 1200mm Dia. Drainage Pipe - SD103B



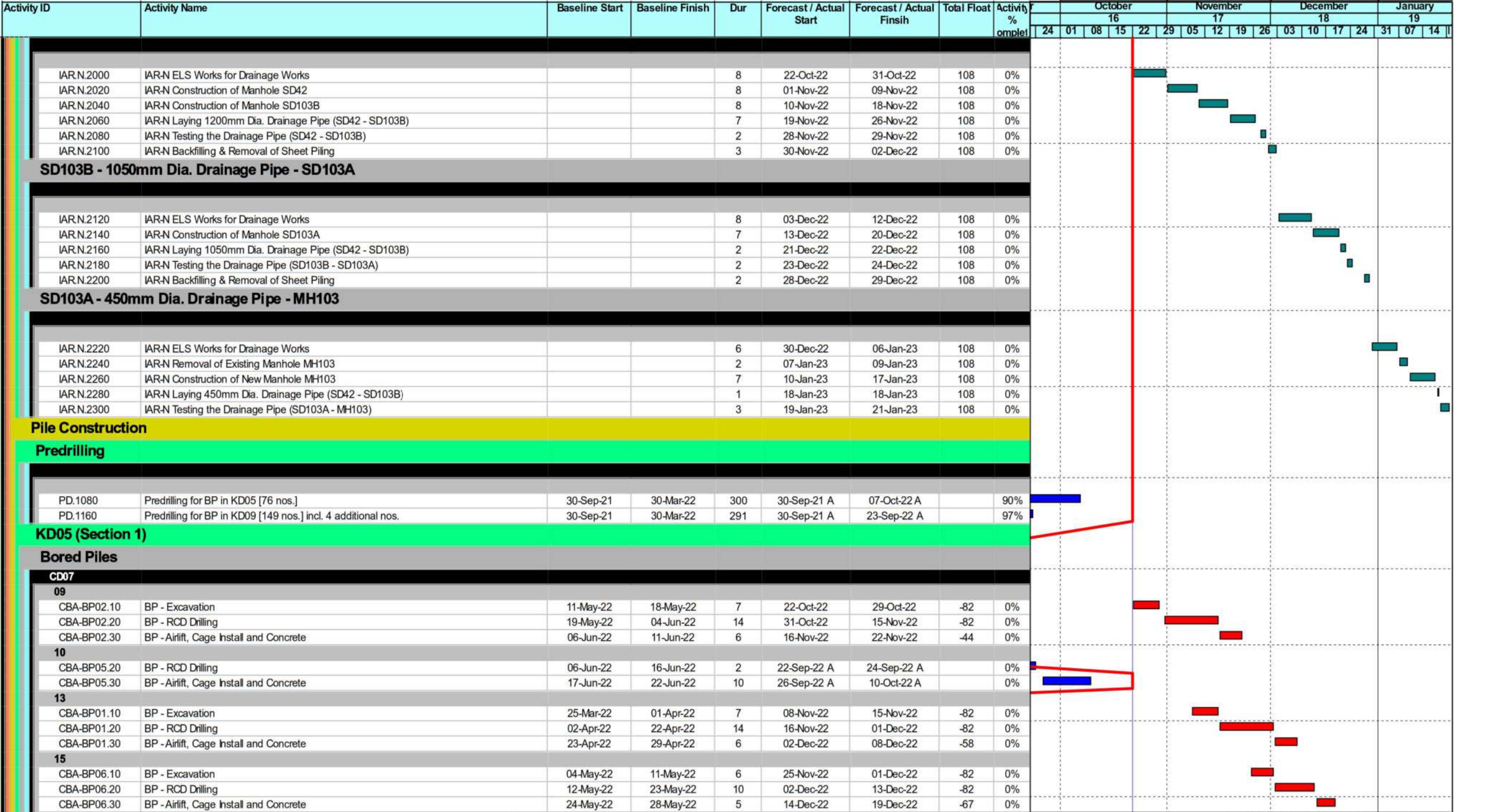
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	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 21 October 2022
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Date	Revision	Checked	Approved
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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % omplet	October 16				November 17				December 18				January 19							
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14			
16																												
CBA-BP03.10	BP - Excavation	16-May-22	23-May-22	7	06-Dec-22	13-Dec-22	-82	0%																				
CBA-BP03.20	BP - RCD Drilling	24-May-22	09-Jun-22	14	14-Dec-22	31-Dec-22	-82	0%																				
CBA-BP03.30	BP -Airlift, Cage Install and Concrete	10-Jun-22	16-Jun-22	6	03-Jan-23	09-Jan-23	-82	0%																				
CD05																												
03																												
P17-BP05.10	BP - Excavation	06-Jan-22	12-Jan-22	15	12-Oct-22 A	28-Oct-22	-99	0%																				
P17-BP05.20	BP - RCD Drilling	13-Jan-22	29-Jan-22	15	29-Oct-22	15-Nov-22	-99	0%																				
P17-BP05.30	BP -Airlift, Cage Install and Concrete	31-Jan-22	10-Feb-22	7	16-Nov-22	23-Nov-22	-45	0%																				
08																												
P17-BP01.10	BP - Excavation	30-Apr-22	07-May-22	6	09-Nov-22	15-Nov-22	-99	0%																				
P17-BP01.20	BP - RCD Drilling	10-May-22	26-May-22	15	16-Nov-22	02-Dec-22	-99	0%																				
P17-BP01.30	BP -Airlift, Cage Install and Concrete	27-May-22	04-Jun-22	7	03-Dec-22	10-Dec-22	-60	0%																				
09																												
P17-BP09.10	BP - Excavation	20-May-22	26-May-22	8	22-Sep-22 A	03-Oct-22 A		0%																				
P17-BP09.20	BP - RCD Drilling	27-May-22	18-Jun-22	8	05-Oct-22 A	14-Oct-22 A		0%																				
P17-BP09.30	BP -Airlift, Cage Install and Concrete	20-Jun-22	28-Jun-22	14	15-Oct-22 A	31-Oct-22	-25	0%																				
10																												
P22&P19-BP16.:	BP - RCD Drilling	20-Jun-22	12-Jul-22	56	06-Sep-22 A	12-Nov-22	-82	0%																				
P22&P19-BP16.:	BP -Airlift, Cage Install and Concrete	13-Jul-22	21-Jul-22	8	14-Nov-22	22-Nov-22	-44	0%																				
11																												
P22&P19-BP26.:	BP - RCD Drilling	13-Jan-22	18-Feb-22	110	16-Jul-22 A	24-Nov-22	-54	0%																				
P22&P19-BP26.:	BP -Airlift, Cage Install and Concrete	19-Feb-22	28-Feb-22	8	25-Nov-22	03-Dec-22	-54	0%																				
13																												
P22&P19-BP25.:	BP - Excavation	07-Mar-22	12-Mar-22	6	19-Dec-22	24-Dec-22	-99	0%																				
P22&P19-BP25.:	BP - RCD Drilling	14-Mar-22	04-Apr-22	19	28-Dec-22	19-Jan-23	-99	0%																				
P22&P19-BP25.:	BP -Airlift, Cage Install and Concrete	06-Apr-22	14-Apr-22	8	20-Jan-23	01-Feb-23	-99	0%																				
15																												
P22&P19-BP17.:	BP -Airlift, Cage Install and Concrete	26-May-22	04-Jun-22	11	16-Sep-22 A	29-Sep-22 A		0%																				
CD04																												
01																												
P17-BP03.10	BP IAR-N - Excavation	24-Nov-21	30-Nov-21	6	22-Oct-22	28-Oct-22	-161	0%																				
P17-BP03.20	BP IAR-N - RCD Drilling	01-Dec-21	17-Dec-21	15	29-Oct-22	15-Nov-22	-161	0%																				
P17-BP03.30	BP IAR-N -Airlift, Cage Install and Concrete	18-Dec-21	28-Dec-21	7	16-Nov-22	23-Nov-22	-45	0%																				
02																												
P17-BP12.10	BP IAR-N - Excavation	20-Dec-21	28-Dec-21	6	09-Nov-22	15-Nov-22	-161	0%																				
P17-BP12.20	BP IAR-N - RCD Drilling	29-Dec-21	15-Jan-22	15	16-Nov-22	02-Dec-22	-161	0%																				
P17-BP12.30	BP IAR-N -Airlift, Cage Install and Concrete	17-Jan-22	24-Jan-22	7	03-Dec-22	10-Dec-22	-60	0%																				
05																												
P17-BP16.10	BP - Excavation	22-Feb-22	28-Feb-22	6	26-Nov-22	02-Dec-22	-161	0%																				
P17-BP16.20	BP - RCD Drilling	01-Mar-22	17-Mar-22	15	03-Dec-22	20-Dec-22	-161	0%																				
P17-BP16.30	BP -Airlift, Cage Install and Concrete	18-Mar-22	25-Mar-22	7	21-Dec-22	30-Dec-22	-75	0%																				
06																												
P17-BP02.10	BP - Excavation	11-Mar-22	17-Mar-22	6	14-Dec-22	20-Dec-22	-161	0%																				
P17-BP02.20	BP - RCD Drilling	18-Mar-22	04-Apr-22	15	21-Dec-22	10-Jan-23	-161	0%																				
P17-BP02.30	BP -Airlift, Cage Install and Concrete	06-Apr-22	13-Apr-22	7	11-Jan-23	18-Jan-23	-90	0%																				
07																												
P17-BP08.10	BP IAR-N - Excavation	29-Mar-22	04-Apr-22	6	04-Jan-23	10-Jan-23	-161	0%																				
P17-BP08.20	BP IAR-N - RCD Drilling	06-Apr-22	26-Apr-22	15	11-Jan-23	31-Jan-23	-161	0%																				
08																												
P17-BP13.10	BP IAR-N (Optional Item no.3) - Excavation	28-Apr-22	05-May-22	6	21-Jan-23	31-Jan-23	-161	0%																				

	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 21 October 2022
 Based on CMWP Rev.0



Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B

Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % comple	October					November					December				January					
									16					17					18				19					
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14			
12																												
P17-BP22.10	BP IAR-N (Optional Item no.3) - Excavation	03-May-22	10-May-22	6	22-Oct-22	28-Oct-22	-135	0%																				
P17-BP22.20	BP IAR-N (Optional Item no.3) - RCD Drilling	11-May-22	27-May-22	15	29-Oct-22	15-Nov-22	-135	0%																				
P17-BP22.30	BP IAR-N (Optional Item no.3) - Airlift, Cage Install and Concrete	28-May-22	06-Jun-22	7	16-Nov-22	23-Nov-22	-45	0%																				
13																												
P17-BP18.10	BP IAR-N (Optional Item no.3) - Excavation	21-May-22	27-May-22	6	09-Nov-22	15-Nov-22	-135	0%																				
P17-BP18.20	BP IAR-N (Optional Item no.3) - RCD Drilling	28-May-22	15-Jun-22	15	16-Nov-22	02-Dec-22	-135	0%																				
P17-BP18.30	BP IAR-N (Optional Item no.3) - Airlift, Cage Install and Concrete	16-Jun-22	23-Jun-22	7	03-Dec-22	10-Dec-22	-60	0%																				
14																												
P17-BP17.10	BP IAR-N - Excavation	09-Jun-22	15-Jun-22	6	26-Nov-22	02-Dec-22	-135	0%																				
P17-BP17.20	BP IAR-N - RCD Drilling	16-Jun-22	04-Jul-22	15	03-Dec-22	20-Dec-22	-135	0%																				
P17-BP17.30	BP IAR-N - Airlift, Cage Install and Concrete	05-Jul-22	12-Jul-22	7	21-Dec-22	30-Dec-22	-75	0%																				
16																												
P17-BP07.10	BP - Excavation	15-Jul-22	21-Jul-22	6	14-Dec-22	20-Dec-22	-135	0%																				
P17-BP07.20	BP - RCD Drilling	22-Jul-22	08-Aug-22	15	21-Dec-22	10-Jan-23	-135	0%																				
P17-BP07.30	BP - Airlift, Cage Install and Concrete	09-Aug-22	16-Aug-22	7	11-Jan-23	18-Jan-23	-90	0%																				
17																												
P17-BP04.10	BP IAR-N (Optional Item no.3) - Excavation	02-Aug-22	08-Aug-22	6	04-Jan-23	10-Jan-23	-135	0%																				
P17-BP04.20	BP IAR-N (Optional Item no.3) - RCD Drilling	09-Aug-22	25-Aug-22	15	11-Jan-23	31-Jan-23	-135	0%																				
18																												
P17-BP21.10	BP IAR-N - Excavation	19-Aug-22	25-Aug-22	6	21-Jan-23	31-Jan-23	-135	0%																				
TD08																												
10																												
CBA-BPC36Jb.1	BP IAR-N (Optional Item no.3) - Excavation	28-Apr-22	05-May-22	6	22-Oct-22	28-Oct-22	-48	0%																				
CBA-BPC36Jb.2	BP IAR-N (Optional Item no.3) - RCD Drilling	06-May-22	18-May-22	10	29-Oct-22	09-Nov-22	-48	0%																				
CBA-BPC36Jb.3	BP IAR-N (Optional Item no.3) - Airlift, Cage Install and Concrete	19-May-22	24-May-22	5	10-Nov-22	15-Nov-22	-38	0%																				
12																												
CBA-BPC36Ka.1	BP IAR-N (Optional Item no.3) - Excavation	24-May-22	30-May-22	6	03-Nov-22	09-Nov-22	-48	0%																				
CBA-BPC36Ka.2	BP IAR-N (Optional Item no.3) - RCD Drilling	31-May-22	11-Jun-22	10	10-Nov-22	21-Nov-22	-48	0%																				
CBA-BPC36Ka.3	BP IAR-N (Optional Item no.3) - Airlift, Cage Install and Concrete	13-Jun-22	17-Jun-22	5	22-Nov-22	26-Nov-22	-48	0%																				
TD07																												
01																												
P18-BP10.10	BP IAR-S - Excavation	19-Nov-21	25-Nov-21	6	22-Oct-22	28-Oct-22	-158	0%																				
P18-BP10.20	BP IAR-S - RCD Drilling	26-Nov-21	13-Dec-21	15	29-Oct-22	15-Nov-22	-158	0%																				
P18-BP10.30	BP IAR-S - Airlift, Cage Install and Concrete	14-Dec-21	21-Dec-21	7	16-Nov-22	23-Nov-22	-45	0%																				
05																												
P18-BP02.10	BP - Excavation	17-Feb-22	23-Feb-22	13	20-Sep-22 A	07-Oct-22 A		0%																				
P18-BP02.20	BP - RCD Drilling	24-Feb-22	12-Mar-22	27	08-Oct-22 A	08-Nov-22	-122	0%																				
P18-BP02.30	BP - Airlift, Cage Install and Concrete	14-Mar-22	21-Mar-22	7	09-Nov-22	16-Nov-22	-39	0%																				
06																												
P18-BP05.10	BP - Excavation	07-Mar-22	12-Mar-22	6	14-Dec-22	20-Dec-22	-158	0%																				
P18-BP05.20	BP - RCD Drilling	14-Mar-22	04-Apr-22	19	21-Dec-22	14-Jan-23	-158	0%																				
P18-BP05.30	BP - Airlift, Cage Install and Concrete	06-Apr-22	14-Apr-22	8	16-Jan-23	26-Jan-23	-95	0%																				
07																												
P18-BP06.20	BP IAR-S - RCD Drilling	06-Apr-22	26-Apr-22	19	20-Sep-22 A	14-Oct-22 A		0%																				
P18-BP06.30	BP IAR-S - Airlift, Cage Install and Concrete	27-Apr-22	05-May-22	13	15-Oct-22 A	29-Oct-22	-24	0%																				
16																												
P18-BP01.10	BP - Excavation	18-May-22	24-May-22	6	09-Nov-22	15-Nov-22	-98	0%																				
P18-BP01.20	BP - RCD Drilling	25-May-22	16-Jun-22	19	16-Nov-22	07-Dec-22	-98	0%																				
P18-BP01.30	BP - Airlift, Cage Install and Concrete	17-Jun-22	25-Jun-22	8	08-Dec-22	16-Dec-22	-65	0%																				
17																												

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- Planned Bar
- Critical Bar
- Baseline
- ◆ Milestone
- ◆ Actual MS
- ◆ Critical MS

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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % complet	October				November				December				January						
									16				17				18				19						
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14		
P18-BP08.10	BP - Excavation	10-Jun-22	16-Jun-22	54	06-Oct-22 A	07-Dec-22	-98	0%																			
P18-BP08.20	BP - RCD Drilling	17-Jun-22	09-Jul-22	19	08-Dec-22	31-Dec-22	-98	0%																			
P18-BP08.30	BP -Airlift, Cage Instal and Concrete	11-Jul-22	19-Jul-22	8	03-Jan-23	11-Jan-23	-84	0%																			
18																											
P18-BP04.10	BP IAR-S (Optional Item no.3) - Excavation	04-Jul-22	09-Jul-22	6	23-Dec-22	31-Dec-22	-98	0%																			
P18-BP04.20	BP IAR-S (Optional Item no.3) - RCD Drilling	11-Jul-22	27-Jul-22	15	03-Jan-23	19-Jan-23	-98	0%																			
P18-BP04.30	BP IAR-S (Optional Item no.3) -Airlift, Cage Instal and Concrete	28-Jul-22	04-Aug-22	7	20-Jan-23	31-Jan-23	-98	0%																			
19																											
P18-BP11.10	BP IAR-S (Optional Item no.3) - Excavation	21-Jul-22	27-Jul-22	32	20-Sep-22 A	28-Oct-22	-45	0%																			
P18-BP11.20	BP IAR-S (Optional Item no.3) - RCD Drilling	28-Jul-22	13-Aug-22	15	29-Oct-22	15-Nov-22	-45	0%																			
P18-BP11.30	BP IAR-S (Optional Item no.3) -Airlift, Cage Instal and Concrete	15-Aug-22	22-Aug-22	7	16-Nov-22	23-Nov-22	-45	0%																			

KD06 (Section 2)

Bored Piles

VD01																											
20																											
P23-BP24.10	BP - Excavation	19-Dec-22	24-Dec-22	6	22-Oct-22	28-Oct-22	78	0%																			
P23-BP24.20	BP - RCD Drilling	28-Dec-22	19-Jan-23	19	29-Oct-22	19-Nov-22	78	0%																			
P23-BP24.30	BP -Airlift, Cage Instal and Concrete	20-Jan-23	01-Feb-23	8	21-Nov-22	29-Nov-22	78	0%																			
VD02																											
18																											
P24&P27-BP15.	BP - Excavation	05-Nov-22	11-Nov-22	6	12-Jan-23	18-Jan-23	-18	0%																			
P24&P27-BP15.:	BP - RCD Drilling	12-Nov-22	03-Dec-22	19	19-Jan-23	13-Feb-23	-18	0%																			
VD07																											
02																											
P24&P27-BP27.:	BP -Airlift, Cage Instal and Concrete	25-Mar-22	02-Apr-22	7	19-Sep-22 A	27-Sep-22 A	0%																				
06																											
P24&P27-BP21.	BP - Excavation	24-Jun-22	30-Jun-22	6	31-Dec-22	07-Jan-23	-79	0%																			
P24&P27-BP21.:	BP - RCD Drilling	02-Jul-22	23-Jul-22	19	09-Jan-23	02-Feb-23	-79	0%																			
09																											
P24&P27-BP38.	BP - Excavation	13-Sep-22	19-Sep-22	24	29-Sep-22 A	28-Oct-22	27	0%																			
P24&P27-BP38.:	BP - RCD Drilling	20-Sep-22	13-Oct-22	19	29-Oct-22	19-Nov-22	27	0%																			
P24&P27-BP38.:	BP -Airlift, Cage Instal and Concrete	14-Oct-22	22-Oct-22	8	21-Nov-22	29-Nov-22	78	0%																			
VD08																											
01																											
P23-BP07.10	BP - Excavation	15-Jun-22	21-Jun-22	9	30-Sep-22 A	13-Oct-22 A	0%																				
P23-BP07.20	BP - RCD Drilling	22-Jun-22	14-Jul-22	26	14-Oct-22 A	12-Nov-22	-31	0%																			
P23-BP07.30	BP -Airlift, Cage Instal and Concrete	15-Jul-22	23-Jul-22	8	14-Nov-22	22-Nov-22	84	0%																			
02																											
P24&P27-BP06.:	BP - RCD Drilling	15-Jul-22	17-Aug-22	5	21-Sep-22 A	27-Sep-22 A	0%																				
P24&P27-BP06.:	BP -Airlift, Cage Instal and Concrete	18-Aug-22	26-Aug-22	11	28-Sep-22 A	13-Oct-22 A	0%																				
03																											
P24&P27-BP04.	BP - Excavation	11-Aug-22	17-Aug-22	6	07-Nov-22	12-Nov-22	17	0%																			
P24&P27-BP04.:	BP - RCD Drilling	18-Aug-22	21-Sep-22	29	14-Nov-22	16-Dec-22	17	0%																			
P24&P27-BP04.:	BP -Airlift, Cage Instal and Concrete	22-Sep-22	30-Sep-22	8	17-Dec-22	28-Dec-22	55	0%																			
04																											
P24&P27-BP16.	BP - Excavation	15-Sep-22	21-Sep-22	6	10-Dec-22	16-Dec-22	17	0%																			
P24&P27-BP16.:	BP - RCD Drilling	22-Sep-22	15-Oct-22	19	17-Dec-22	11-Jan-23	17	0%																			
P24&P27-BP16.:	BP -Airlift, Cage Instal and Concrete	17-Oct-22	25-Oct-22	8	12-Jan-23	20-Jan-23	36	0%																			
05																											
P24&P27-BP23.	BP - Excavation	10-Oct-22	15-Oct-22	6	05-Jan-23	11-Jan-23	17	0%																			

	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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 Based on CMWP Rev.0



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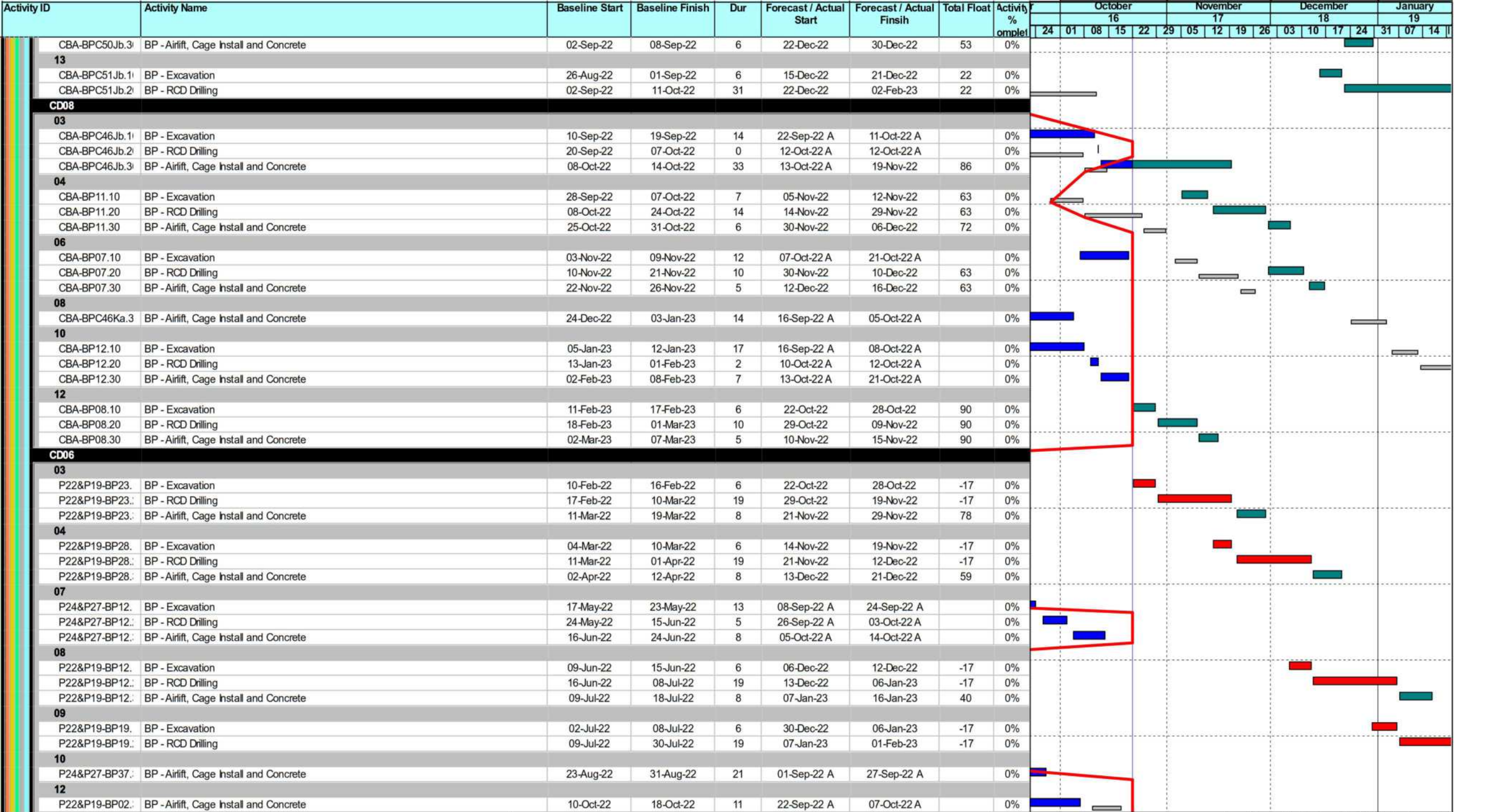
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									16				17				18				19						
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14	21	
P24&P27-BP23..	BP - RCD Drilling	17-Oct-22	07-Nov-22	19	12-Jan-23	06-Feb-23	17	0%																			
06																											
P23-BP02.10	BP - Excavation	01-Nov-22	07-Nov-22	14	06-Sep-22 A	23-Sep-22 A		0%																			
P23-BP02.20	BP - RCD Drilling	08-Nov-22	29-Nov-22	6	24-Sep-22 A	03-Oct-22 A		0%																			
P23-BP02.30	BP -Airlift, Cage Instal and Concrete	30-Nov-22	08-Dec-22	11	05-Oct-22 A	18-Oct-22 A		0%																			
08																											
P24&P27-BP36.	BP - Excavation	08-Jul-22	14-Jul-22	6	07-Nov-22	12-Nov-22	-31	0%																			
P24&P27-BP36..	BP - RCD Drilling	15-Jul-22	05-Aug-22	19	14-Nov-22	05-Dec-22	-31	0%																			
P24&P27-BP36..	BP -Airlift, Cage Instal and Concrete	06-Aug-22	15-Aug-22	8	06-Dec-22	14-Dec-22	65	0%																			
09																											
P24&P27-BP29.	BP - Excavation	30-Jul-22	05-Aug-22	6	29-Nov-22	05-Dec-22	-31	0%																			
P24&P27-BP29..	BP - RCD Drilling	06-Aug-22	27-Aug-22	19	06-Dec-22	29-Dec-22	-31	0%																			
P24&P27-BP29..	BP -Airlift, Cage Instal and Concrete	29-Aug-22	06-Sep-22	8	30-Dec-22	09-Jan-23	46	0%																			
10																											
P24&P27-BP05.	BP - Excavation	22-Aug-22	27-Aug-22	6	21-Dec-22	29-Dec-22	-31	0%																			
P24&P27-BP05..	BP - RCD Drilling	29-Aug-22	03-Oct-22	29	30-Dec-22	06-Feb-23	-31	0%																			
13																											
P24&P27-BP11..	BP - Excavation	23-Nov-22	29-Nov-22	24	19-Sep-22 A	19-Oct-22 A		0%																			
P24&P27-BP11..	BP - RCD Drilling	30-Nov-22	05-Jan-23	29	22-Oct-22	24-Nov-22	74	0%																			
P24&P27-BP11..	BP -Airlift, Cage Instal and Concrete	06-Jan-23	14-Jan-23	8	25-Nov-22	03-Dec-22	74	0%																			
VD10																											
01																											
CBA-BPC47K.10	BP - Excavation	02-Jun-22	10-Jun-22	82	11-Jul-22 A	18-Oct-22 A		0%																			
CBA-BPC47K.20	BP - RCD Drilling	11-Jun-22	27-Jun-22	14	22-Oct-22	07-Nov-22	-44	0%																			
CBA-BPC47K.30	BP -Airlift, Cage Instal and Concrete	28-Jun-22	05-Jul-22	6	08-Nov-22	14-Nov-22	91	0%																			
02																											
CBA-BPC49K.10	BP - Excavation	20-Jun-22	27-Jun-22	7	31-Oct-22	07-Nov-22	-44	0%																			
CBA-BPC49K.20	BP - RCD Drilling	28-Jun-22	14-Jul-22	14	08-Nov-22	23-Nov-22	-44	0%																			
CBA-BPC49K.30	BP -Airlift, Cage Instal and Concrete	15-Jul-22	21-Jul-22	6	24-Nov-22	30-Nov-22	77	0%																			
03																											
CBA-BPC50Ka.1	BP - Excavation	08-Jul-22	14-Jul-22	6	17-Nov-22	23-Nov-22	-44	0%																			
CBA-BPC50Ka.2	BP - RCD Drilling	15-Jul-22	19-Aug-22	31	24-Nov-22	31-Dec-22	-44	0%																			
CBA-BPC50Ka.3	BP -Airlift, Cage Instal and Concrete	20-Aug-22	26-Aug-22	6	03-Jan-23	09-Jan-23	46	0%																			
05																											
CBA-BPC48K.10	BP - Excavation	19-Sep-22	26-Sep-22	7	22-Dec-22	31-Dec-22	-44	0%																			
CBA-BPC48K.20	BP - RCD Drilling	27-Sep-22	14-Oct-22	14	03-Jan-23	18-Jan-23	-44	0%																			
CBA-BPC48K.30	BP -Airlift, Cage Instal and Concrete	15-Oct-22	21-Oct-22	6	19-Jan-23	27-Jan-23	32	0%																			
06																											
CBA-BPC50K.10	BP - Excavation	08-Oct-22	14-Oct-22	6	12-Jan-23	18-Jan-23	-44	0%																			
CBA-BPC50K.20	BP - RCD Drilling	15-Oct-22	19-Nov-22	31	19-Jan-23	27-Feb-23	-44	0%																			
10																											
CBA-BPC50Ja.1	BP - Excavation	27-May-22	02-Jun-22	31	16-Aug-22 A	22-Sep-22 A		0%																			
CBA-BPC50Ja.2	BP - RCD Drilling	04-Jun-22	11-Jul-22	4	23-Sep-22 A	28-Sep-22 A		0%																			
CBA-BPC50Ja.3	BP -Airlift, Cage Instal and Concrete	12-Jul-22	18-Jul-22	5	29-Sep-22 A	07-Oct-22 A		0%																			
11																											
CBA-BPC48J.10	BP - Excavation	04-Jul-22	11-Jul-22	7	22-Oct-22	29-Oct-22	22	0%																			
CBA-BPC48J.20	BP - RCD Drilling	12-Jul-22	27-Jul-22	14	31-Oct-22	15-Nov-22	22	0%																			
CBA-BPC48J.30	BP -Airlift, Cage Instal and Concrete	28-Jul-22	03-Aug-22	6	16-Nov-22	22-Nov-22	84	0%																			
12																											
CBA-BPC50Jb.1	BP - Excavation	21-Jul-22	27-Jul-22	6	09-Nov-22	15-Nov-22	22	0%																			
CBA-BPC50Jb.2	BP - RCD Drilling	28-Jul-22	01-Sep-22	31	16-Nov-22	21-Dec-22	22	0%																			

- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Actual MS
- Critical MS

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Piling for Integrated Basement and U/G Road in Zone 2B 2C
3 Month Rolling Programme as of 21 October 2022
Based on CMWP Rev.0



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4-Mar-22	Rev.0	KL	B

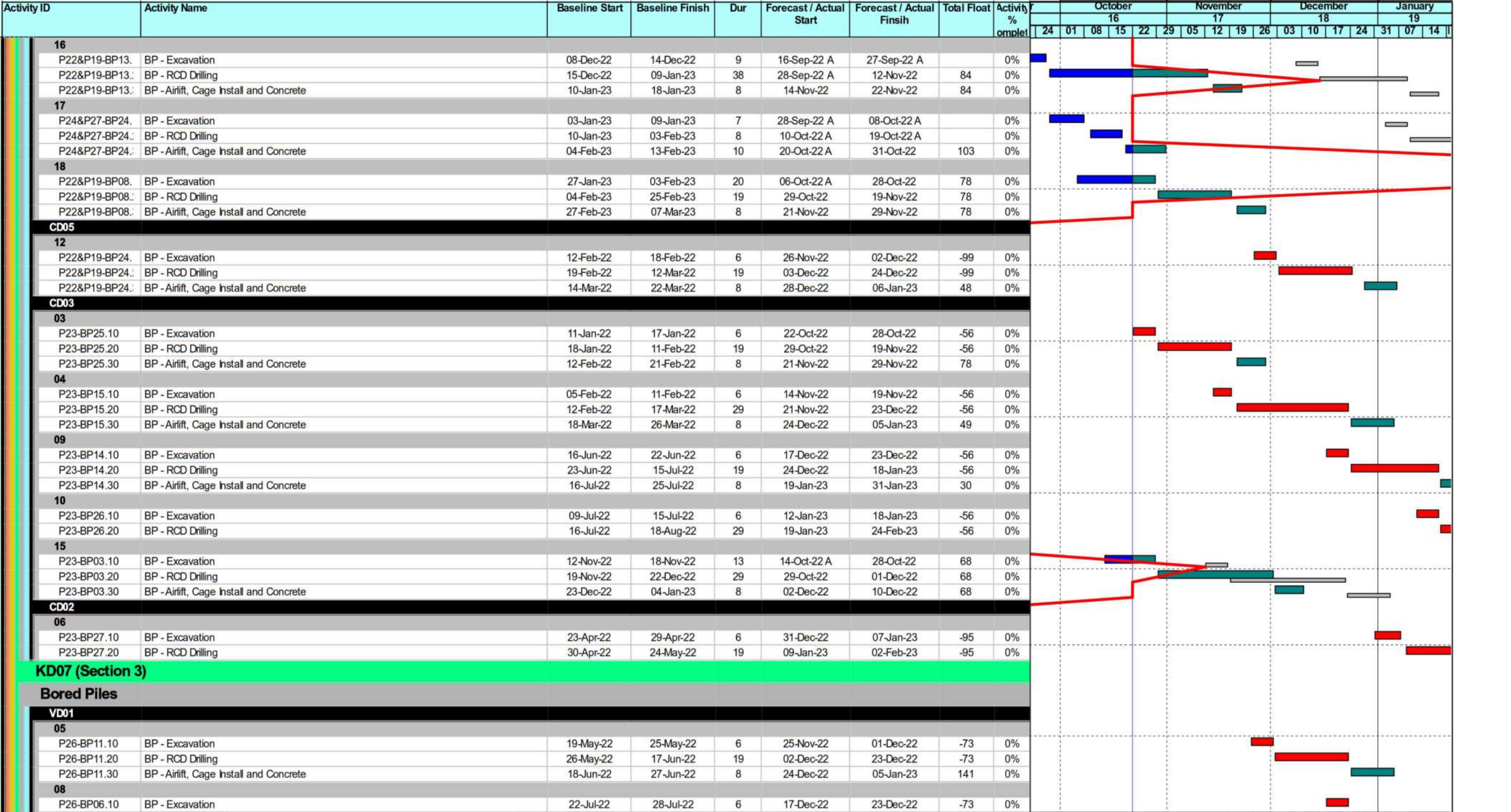


	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

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Piling for Integrated Basement and U/G Road in Zone 2B 2C
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KB07 (Section 3)

Bored Piles

VD01

05

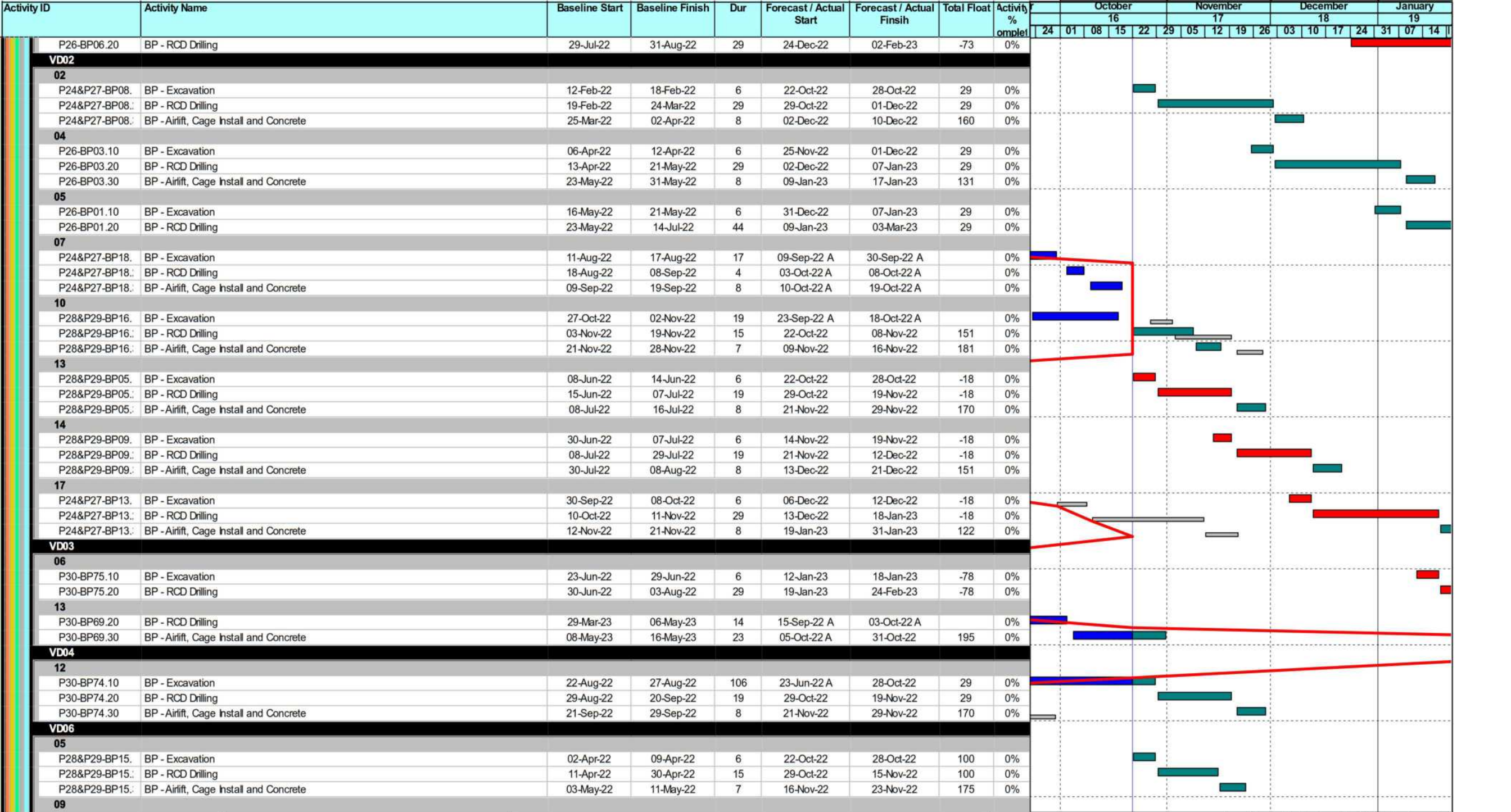
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- Planned Bar
- Critical Bar
- Baseline
- Milestone
- Actual MS
- Critical MS

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Piling for Integrated Basement and U/G Road in Zone 2B 2C
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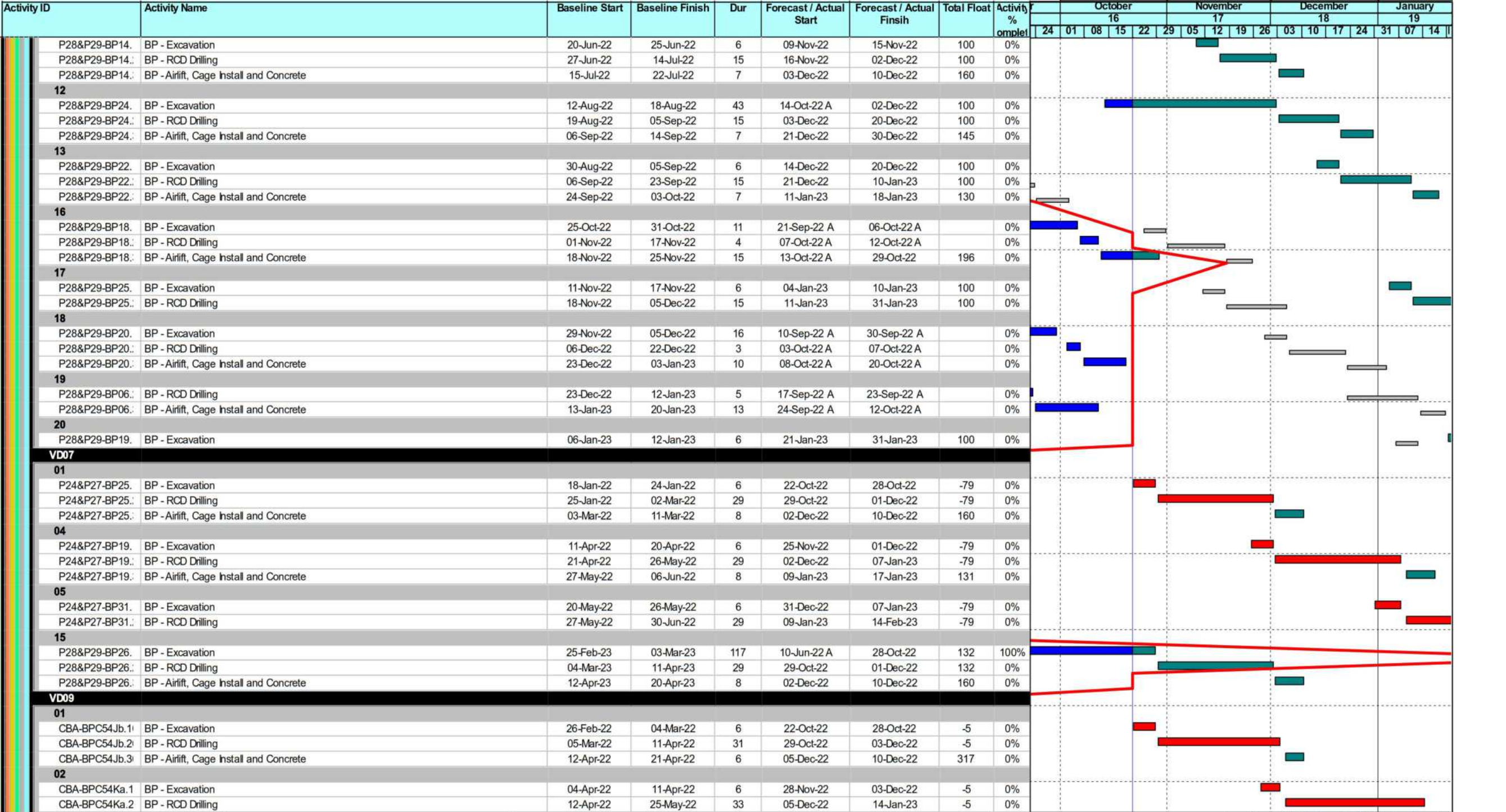
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- Planned Bar
- Critical Bar
- Baseline
- ◆ Milestone
- ◆ Actual MS
- ◆ Critical MS

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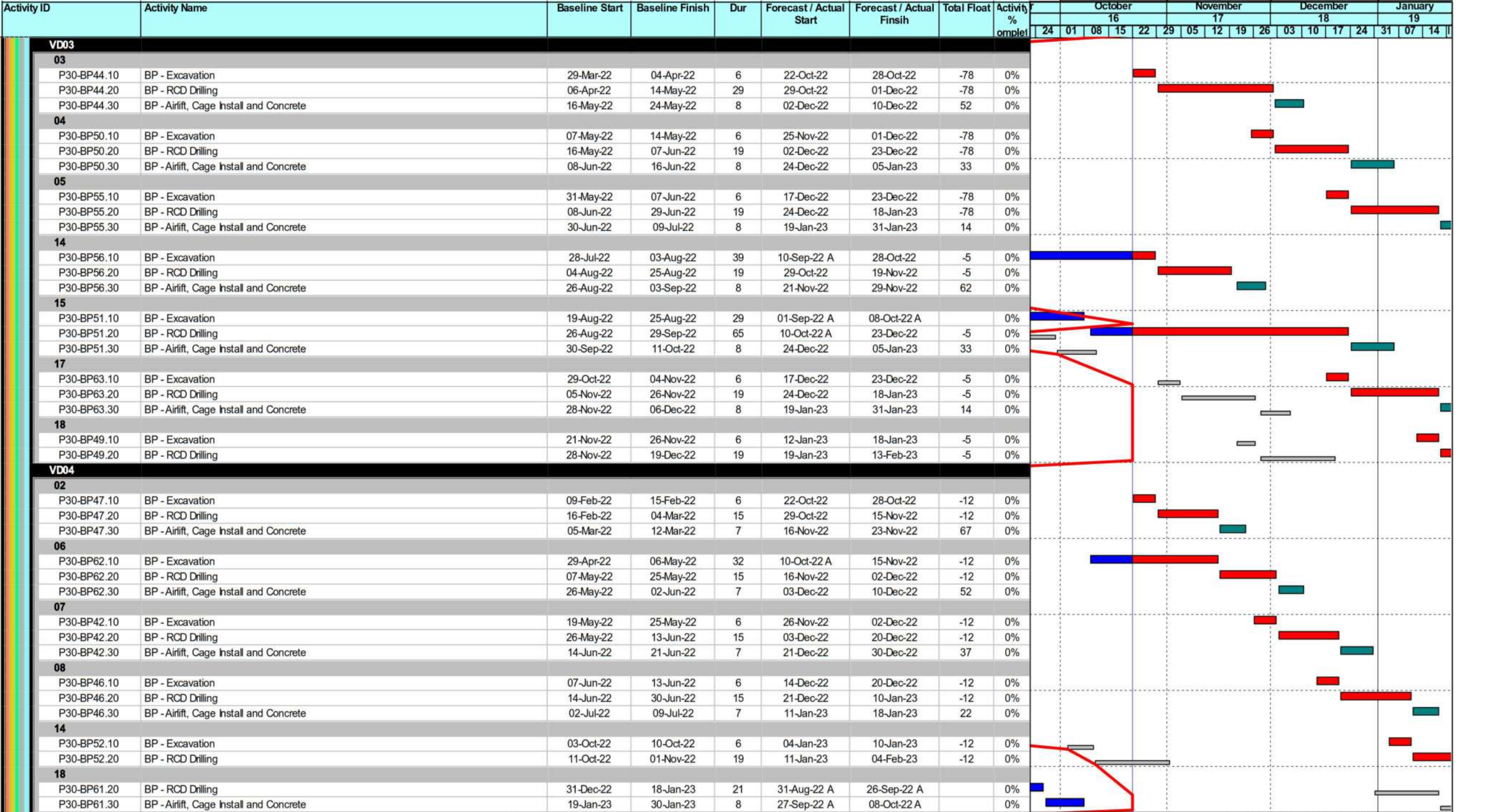


	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

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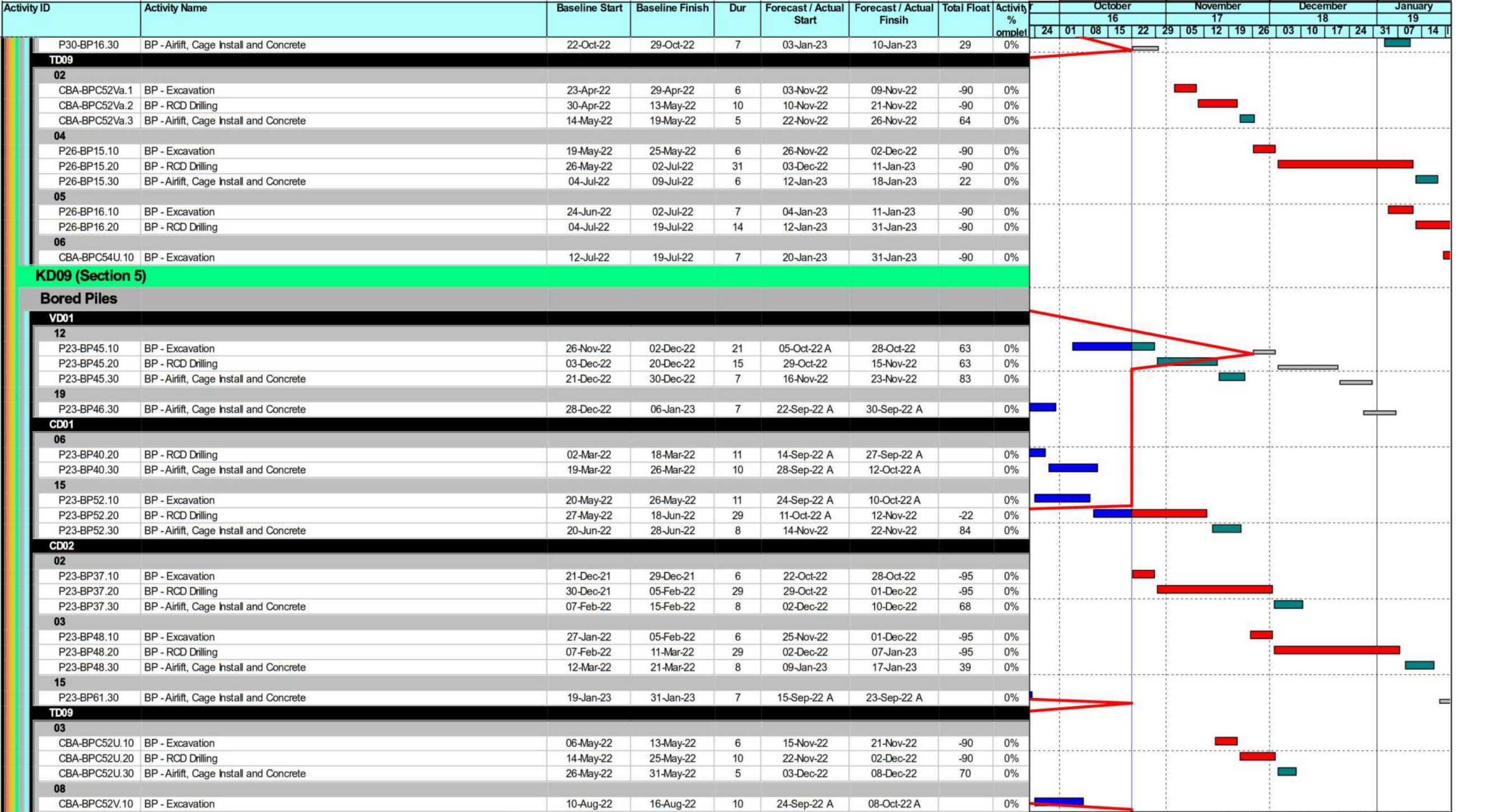
Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % omplet	October				November				December				January		
									16				17				18				19		
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31
VD05																							
02																							
P30-BP19.10	BP - Excavation	16-Dec-21	22-Dec-21	6	22-Oct-22	28-Oct-22	-54	0%															
P30-BP19.20	BP - RCD Drilling	23-Dec-21	28-Jan-22	29	29-Oct-22	01-Dec-22	-54	0%															
P30-BP19.30	BP -Airlift, Cage Instal and Concrete	29-Jan-22	10-Feb-22	8	02-Dec-22	10-Dec-22	52	0%															
04																							
P30-BP31.10	BP - Excavation	17-Feb-22	23-Feb-22	6	25-Nov-22	01-Dec-22	-54	0%															
P30-BP31.20	BP - RCD Drilling	24-Feb-22	29-Mar-22	29	02-Dec-22	07-Jan-23	-54	0%															
P30-BP31.30	BP -Airlift, Cage Instal and Concrete	30-Mar-22	08-Apr-22	8	09-Jan-23	17-Jan-23	23	0%															
05																							
P30-BP34.10	BP - Excavation	23-Mar-22	29-Mar-22	6	31-Dec-22	07-Jan-23	-54	0%															
P30-BP34.20	BP - RCD Drilling	30-Mar-22	20-Apr-22	15	09-Jan-23	27-Jan-23	-54	0%															
07																							
P30-BP28.10	BP - Excavation	05-May-22	12-May-22	28	24-Sep-22 A	28-Oct-22	67	0%															
P30-BP28.20	BP - RCD Drilling	13-May-22	30-May-22	15	29-Oct-22	15-Nov-22	67	0%															
P30-BP28.30	BP -Airlift, Cage Instal and Concrete	31-May-22	08-Jun-22	7	16-Nov-22	23-Nov-22	67	0%															
10																							
P30-BP32.10	BP - Excavation	05-Jul-22	11-Jul-22	115	10-May-22 A	24-Sep-22 A		100%															
P30-BP32.20	BP - RCD Drilling	12-Jul-22	13-Aug-22	15	26-Sep-22 A	15-Oct-22 A		0%															
P30-BP32.30	BP -Airlift, Cage Instal and Concrete	15-Aug-22	23-Aug-22	13	17-Oct-22 A	31-Oct-22	87	0%															
14																							
P30-BP25.10	BP - Excavation	30-Sep-22	08-Oct-22	6	19-Jan-23	27-Jan-23	-54	0%															
17																							
P30-BP27.30	BP -Airlift, Cage Instal and Concrete	01-Sep-22	08-Sep-22	4	19-Sep-22 A	23-Sep-22 A		0%															
19																							
P30-BP35.10	BP - Excavation	13-Sep-22	19-Sep-22	6	22-Oct-22	28-Oct-22	52	0%															
P30-BP35.20	BP - RCD Drilling	20-Sep-22	08-Oct-22	15	29-Oct-22	15-Nov-22	52	0%															
P30-BP35.30	BP -Airlift, Cage Instal and Concrete	10-Oct-22	17-Oct-22	7	16-Nov-22	23-Nov-22	67	0%															
20																							
P30-BP29.10	BP - Excavation	30-Sep-22	08-Oct-22	6	09-Nov-22	15-Nov-22	52	0%															
P30-BP29.20	BP - RCD Drilling	10-Oct-22	26-Oct-22	15	16-Nov-22	02-Dec-22	52	0%															
P30-BP29.30	BP -Airlift, Cage Instal and Concrete	27-Oct-22	03-Nov-22	7	03-Dec-22	10-Dec-22	52	0%															
21																							
P30-BP37.10	BP - Excavation	20-Oct-22	26-Oct-22	56	19-Jul-22 A	23-Sep-22 A		0%															
P30-BP37.20	BP - RCD Drilling	27-Oct-22	17-Nov-22	9	24-Sep-22 A	07-Oct-22 A		0%															
P30-BP37.30	BP -Airlift, Cage Instal and Concrete	18-Nov-22	26-Nov-22	7	08-Oct-22 A	17-Oct-22 A		0%															
TD01																							
06																							
P30-BP11.10	BP - Excavation	07-May-22	14-May-22	27	26-Sep-22 A	28-Oct-22	29	0%															
P30-BP11.20	BP - RCD Drilling	16-May-22	07-Jun-22	19	29-Oct-22	19-Nov-22	29	0%															
P30-BP11.30	BP -Airlift, Cage Instal and Concrete	08-Jun-22	16-Jun-22	8	21-Nov-22	29-Nov-22	62	0%															
09																							
P30-BP18.10	BP - Excavation	12-Jul-22	18-Jul-22	6	14-Nov-22	19-Nov-22	29	0%															
P30-BP18.20	BP - RCD Drilling	19-Jul-22	09-Aug-22	19	21-Nov-22	12-Dec-22	29	0%															
P30-BP18.30	BP -Airlift, Cage Instal and Concrete	10-Aug-22	18-Aug-22	8	13-Dec-22	21-Dec-22	43	0%															
12																							
P30-BP09.20	BP - RCD Drilling	15-Sep-22	03-Oct-22	18	19-Sep-22 A	12-Oct-22 A		0%															
P30-BP09.30	BP -Airlift, Cage Instal and Concrete	05-Oct-22	12-Oct-22	15	13-Oct-22 A	29-Oct-22	88	0%															
13																							
P30-BP16.10	BP - Excavation	26-Sep-22	03-Oct-22	77	10-Sep-22 A	12-Dec-22	29	0%															
P30-BP16.20	BP - RCD Drilling	05-Oct-22	21-Oct-22	15	13-Dec-22	31-Dec-22	29	0%															

Planned Bar	Milestone
Critical Bar	Actual MS
Baseline	Critical MS

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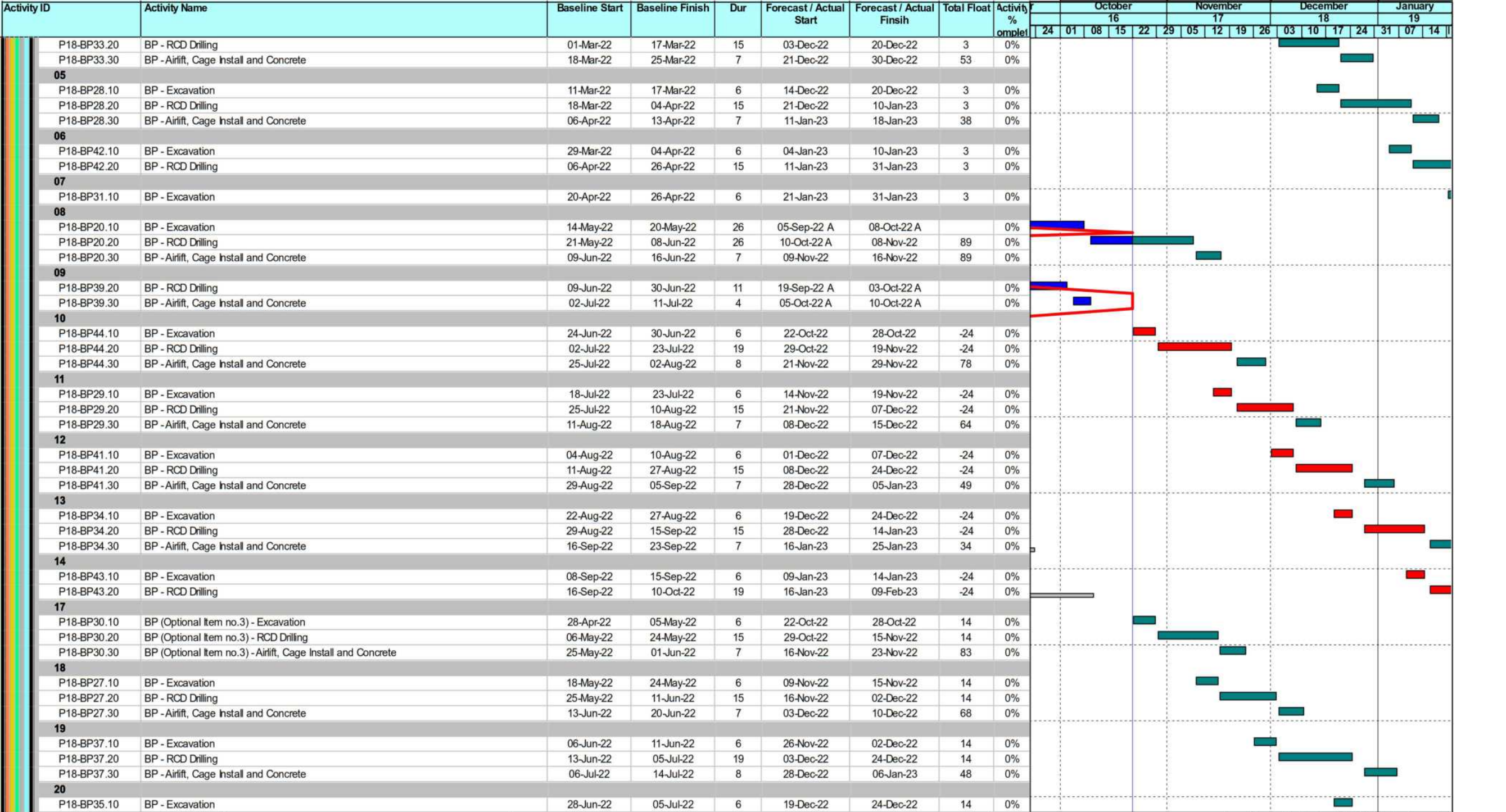
	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS







West Kowloon Cultural District Authority
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Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % comple	October				November				December				January			
									16				17				18				19			
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07
CBA-BPC52V.20	BP - RCD Drilling	17-Aug-22	27-Aug-22	0	10-Oct-22 A	10-Oct-22 A		0%																
CBA-BPC52V.30	BP - Airlift, Cage Instal and Concrete	29-Aug-22	02-Sep-22	5	11-Oct-22 A	17-Oct-22 A		0%																
16																								
CBA-BPC40Wa.	BP - Excavation	29-Dec-22	06-Jan-23	21	06-Oct-22 A	29-Oct-22	84	0%																
CBA-BPC40Wa.:	BP - RCD Drilling	07-Jan-23	25-Jan-23	14	31-Oct-22	15-Nov-22	84	0%																
CBA-BPC40Wa.:	BP - Airlift, Cage Instal and Concrete	26-Jan-23	02-Feb-23	6	16-Nov-22	22-Nov-22	84	0%																
17																								
CBA-BPC40T.10	BP - Excavation	16-Jan-23	25-Jan-23	20	24-Sep-22 A	20-Oct-22 A		0%																
CBA-BPC40T.20	BP - RCD Drilling	26-Jan-23	11-Feb-23	14	22-Oct-22	07-Nov-22	91	0%																
CBA-BPC40T.30	BP - Airlift, Cage Instal and Concrete	13-Feb-23	18-Feb-23	6	08-Nov-22	14-Nov-22	91	0%																
18																								
CBA-BPC40V.10	BP - Excavation	04-Feb-23	11-Feb-23	21	30-Aug-22 A	24-Sep-22 A		0%																
CBA-BPC40V.20	BP - RCD Drilling	13-Feb-23	28-Feb-23	0	26-Sep-22 A	26-Sep-22 A		0%																
CBA-BPC40V.30	BP - Airlift, Cage Instal and Concrete	01-Mar-23	07-Mar-23	3	27-Sep-22 A	30-Sep-22 A		0%																
TD08																								
18																								
CBA-BPC40R.30	BP - Airlift, Cage Instal and Concrete	06-Sep-22	13-Sep-22	9	10-Sep-22 A	22-Sep-22 A		0%																
TD07																								
03																								
P18-BP23.10	BP IAR-S - Excavation	10-Jan-22	15-Jan-22	6	09-Nov-22	15-Nov-22	-158	0%																
P18-BP23.20	BP IAR-S - RCD Drilling	17-Jan-22	05-Feb-22	15	16-Nov-22	02-Dec-22	-158	0%																
P18-BP23.30	BP IAR-S - Airlift, Cage Instal and Concrete	07-Feb-22	14-Feb-22	7	03-Dec-22	10-Dec-22	68	0%																
04																								
P18-BP21.10	BP - Excavation	27-Jan-22	05-Feb-22	6	26-Nov-22	02-Dec-22	-158	0%																
P18-BP21.20	BP - RCD Drilling	07-Feb-22	23-Feb-22	15	03-Dec-22	20-Dec-22	-158	0%																
P18-BP21.30	BP - Airlift, Cage Instal and Concrete	24-Feb-22	03-Mar-22	7	21-Dec-22	30-Dec-22	53	0%																
08																								
P18-BP13.10	BP - Excavation	20-Apr-22	26-Apr-22	6	09-Jan-23	14-Jan-23	-158	0%																
P18-BP13.20	BP - RCD Drilling	27-Apr-22	20-May-22	19	16-Jan-23	09-Feb-23	-158	0%																
10																								
P18-BP15.10	BP IAR-S - Excavation	01-Jun-22	08-Jun-22	26	27-Sep-22 A	28-Oct-22	-75	0%																
P18-BP15.20	BP IAR-S - RCD Drilling	09-Jun-22	25-Jun-22	15	29-Oct-22	15-Nov-22	-75	0%																
P18-BP15.30	BP IAR-S - Airlift, Cage Instal and Concrete	27-Jun-22	05-Jul-22	7	16-Nov-22	23-Nov-22	83	0%																
15																								
P18-BP18.10	BP IAR-S (Optional Item no.3) - Excavation	28-Apr-22	05-May-22	6	22-Oct-22	28-Oct-22	-98	0%																
P18-BP18.20	BP IAR-S (Optional Item no.3) - RCD Drilling	06-May-22	24-May-22	15	29-Oct-22	15-Nov-22	-98	0%																
P18-BP18.30	BP IAR-S (Optional Item no.3) - Airlift, Cage Instal and Concrete	25-May-22	01-Jun-22	7	16-Nov-22	23-Nov-22	83	0%																
20																								
P18-BP17.10	BP IAR-S (Optional Item no.3) - Excavation	08-Aug-22	13-Aug-22	6	13-Jan-23	19-Jan-23	0	0%																
P18-BP17.20	BP IAR-S (Optional Item no.3) - RCD Drilling	15-Aug-22	31-Aug-22	15	20-Jan-23	09-Feb-23	0	0%																
TD06																								
01																								
P18-BP36.10	BP - Excavation	20-Dec-21	28-Dec-21	6	22-Oct-22	28-Oct-22	3	0%																
P18-BP36.20	BP - RCD Drilling	29-Dec-21	15-Jan-22	15	29-Oct-22	15-Nov-22	3	0%																
P18-BP36.30	BP - Airlift, Cage Instal and Concrete	17-Jan-22	24-Jan-22	7	16-Nov-22	23-Nov-22	83	0%																
02																								
P18-BP40.10	BP - Excavation	10-Jan-22	15-Jan-22	6	09-Nov-22	15-Nov-22	3	0%																
P18-BP40.20	BP - RCD Drilling	17-Jan-22	05-Feb-22	15	16-Nov-22	02-Dec-22	3	0%																
P18-BP40.30	BP - Airlift, Cage Instal and Concrete	07-Feb-22	14-Feb-22	7	03-Dec-22	10-Dec-22	68	0%																
04																								
P18-BP33.10	BP - Excavation	22-Feb-22	28-Feb-22	6	26-Nov-22	02-Dec-22	3	0%																

ID: 2B2C-20221021_bw Data Date: 22-Oct-22 Print Date: 21-Oct-22_17:13 Page 15 of 19		West Kowloon Cultural District Authority Piling for Integrated Basement and U/G Road in Zone 2B 2C 3 Month Rolling Programme as of 21 October 2022 Based on CMWP Rev.0		<table border="1"> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> <tr> <td>4-Mar-22</td> <td>Rev.0</td> <td>KL</td> <td>B</td> </tr> </table>	Date	Revision	Checked	Approved	4-Mar-22	Rev.0	KL	B
Date	Revision	Checked	Approved									
4-Mar-22	Rev.0	KL	B									

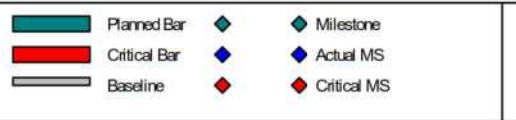
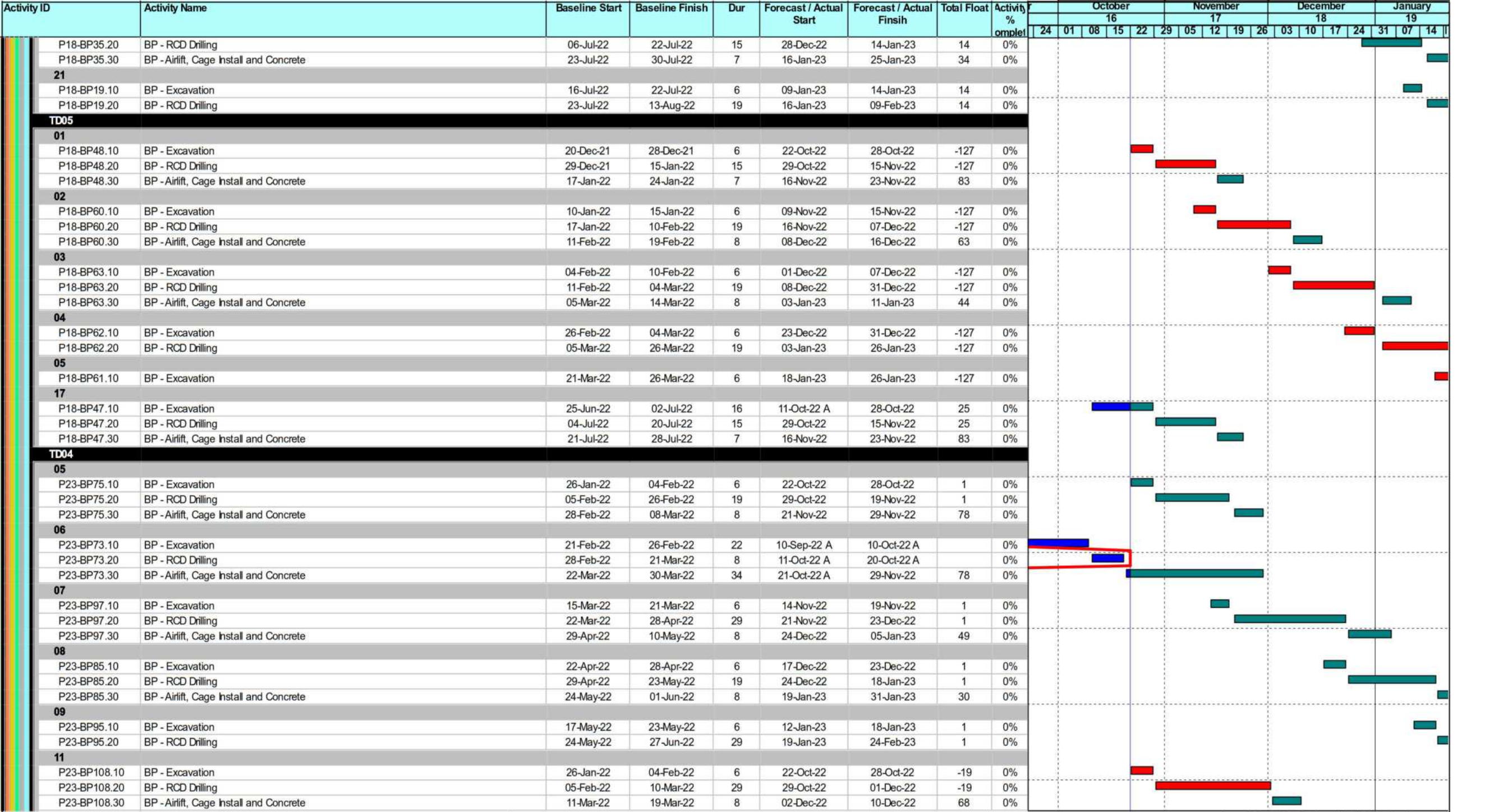


 Planned Bar
 Critical Bar
 Baseline
 Milestone
 Actual MS
 Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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Date	Revision	Checked	Approved
4-Mar-22	Rev.0	KL	B



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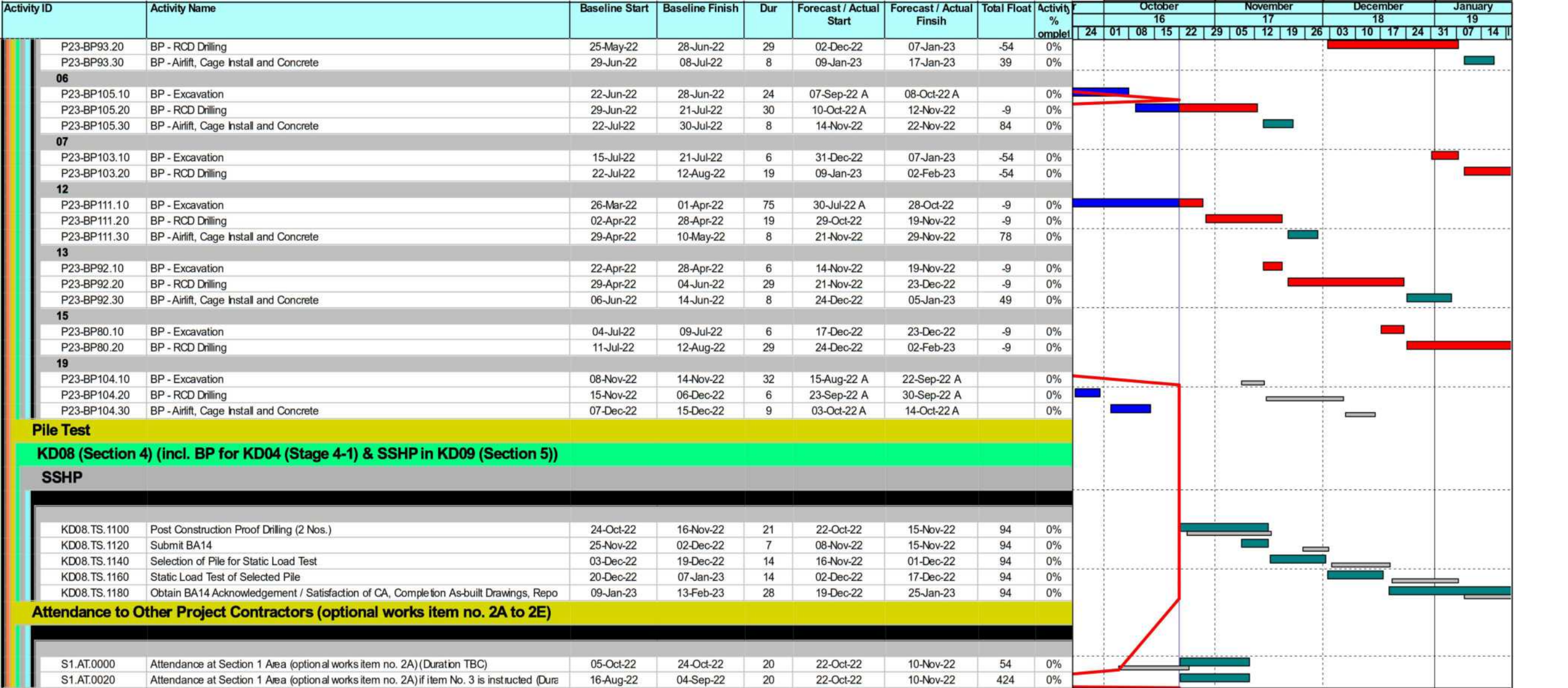
Activity ID	Activity Name	Baseline Start	Baseline Finish	Dur	Forecast / Actual Start	Forecast / Actual Finsih	Total Float	Activity % omplet	October				November				December				January				
									16				17				18				19				
									24	01	08	15	22	29	05	12	19	26	03	10	17	24	31	07	14
13																									
P23-BP84.10	BP - Excavation	26-Mar-22	01-Apr-22	6	25-Nov-22	01-Dec-22	-19	0%																	
P23-BP84.20	BP - RCD Drilling	02-Apr-22	12-May-22	29	02-Dec-22	07-Jan-23	-19	0%																	
P23-BP84.30	BP -Airlift, Cage Instal and Concrete	13-May-22	21-May-22	8	09-Jan-23	17-Jan-23	39	0%																	
15																									
P23-BP96.10	BP - Excavation	28-May-22	04-Jun-22	6	31-Dec-22	07-Jan-23	-19	0%																	
P23-BP96.20	BP - RCD Drilling	06-Jun-22	09-Jul-22	29	09-Jan-23	14-Feb-23	-19	0%																	
TD03																									
04																									
P23-BP109.10	BP - Excavation	09-Mar-22	15-Mar-22	6	22-Oct-22	28-Oct-22	-46	0%																	
P23-BP109.20	BP - RCD Drilling	16-Mar-22	07-Apr-22	19	29-Oct-22	19-Nov-22	-46	0%																	
P23-BP109.30	BP -Airlift, Cage Instal and Concrete	08-Apr-22	20-Apr-22	8	21-Nov-22	29-Nov-22	78	0%																	
05																									
P23-BP99.10	BP - Excavation	31-Mar-22	07-Apr-22	20	22-Sep-22 A	18-Oct-22 A		0%																	
P23-BP99.20	BP - RCD Drilling	08-Apr-22	04-May-22	19	21-Nov-22	12-Dec-22	-46	0%																	
P23-BP99.30	BP -Airlift, Cage Instal and Concrete	05-May-22	14-May-22	8	13-Dec-22	21-Dec-22	59	0%																	
06																									
P23-BP77.10	BP - Excavation	27-Apr-22	04-May-22	6	06-Dec-22	12-Dec-22	-46	0%																	
P23-BP77.20	BP - RCD Drilling	05-May-22	27-May-22	19	13-Dec-22	06-Jan-23	-46	0%																	
P23-BP77.30	BP -Airlift, Cage Instal and Concrete	28-May-22	07-Jun-22	8	07-Jan-23	16-Jan-23	40	0%																	
07																									
P23-BP55.10	BP - Excavation	21-May-22	27-May-22	6	30-Dec-22	06-Jan-23	-46	0%																	
P23-BP55.20	BP - RCD Drilling	28-May-22	20-Jun-22	19	07-Jan-23	01-Feb-23	-46	0%																	
15																									
P23-BP98.10	BP - Excavation	02-Jun-22	09-Jun-22	236	11-Jan-22 A	28-Oct-22	2	100%																	
P23-BP98.20	BP - RCD Drilling	10-Jun-22	02-Jul-22	19	29-Oct-22	19-Nov-22	2	0%																	
P23-BP98.30	BP -Airlift, Cage Instal and Concrete	04-Jul-22	12-Jul-22	8	21-Nov-22	29-Nov-22	78	0%																	
16																									
P23-BP78.10	BP - Excavation	25-Jun-22	02-Jul-22	6	14-Nov-22	19-Nov-22	2	0%																	
P23-BP78.20	BP - RCD Drilling	04-Jul-22	25-Jul-22	19	21-Nov-22	12-Dec-22	2	0%																	
P23-BP78.30	BP -Airlift, Cage Instal and Concrete	26-Jul-22	03-Aug-22	8	13-Dec-22	21-Dec-22	59	0%																	
17																									
P23-BP67.20	BP - RCD Drilling	26-Jul-22	27-Aug-22	10	20-Sep-22 A	03-Oct-22 A		0%																	
P23-BP67.30	BP -Airlift, Cage Instal and Concrete	29-Aug-22	06-Sep-22	6	05-Oct-22 A	12-Oct-22 A		0%																	
18																									
P23-BP102.10	BP - Excavation	22-Aug-22	27-Aug-22	6	06-Dec-22	12-Dec-22	2	0%																	
P23-BP102.20	BP - RCD Drilling	29-Aug-22	20-Sep-22	19	13-Dec-22	06-Jan-23	2	0%																	
P23-BP102.30	BP -Airlift, Cage Instal and Concrete	21-Sep-22	29-Sep-22	8	07-Jan-23	16-Jan-23	40	0%																	
19																									
P23-BP89.10	BP - Excavation	14-Sep-22	20-Sep-22	6	30-Dec-22	06-Jan-23	2	0%																	
P23-BP89.20	BP - RCD Drilling	21-Sep-22	14-Oct-22	19	07-Jan-23	01-Feb-23	2	0%																	
TD02																									
03																									
P23-BP71.20	BP - RCD Drilling	11-Mar-22	14-Apr-22	5	20-Sep-22 A	26-Sep-22 A		0%																	
P23-BP71.30	BP -Airlift, Cage Instal and Concrete	19-Apr-22	27-Apr-22	4	27-Sep-22 A	03-Oct-22 A		0%																	
04																									
P23-BP83.10	BP - Excavation	08-Apr-22	14-Apr-22	6	22-Oct-22	28-Oct-22	-54	0%																	
P23-BP83.20	BP - RCD Drilling	19-Apr-22	24-May-22	29	29-Oct-22	01-Dec-22	-54	0%																	
P23-BP83.30	BP -Airlift, Cage Instal and Concrete	25-May-22	02-Jun-22	8	02-Dec-22	10-Dec-22	68	0%																	
05																									
P23-BP93.10	BP - Excavation	18-May-22	24-May-22	6	25-Nov-22	01-Dec-22	-54	0%																	

	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

West Kowloon Cultural District Authority
Piling for Integrated Basement and U/G Road in Zone 2B 2C
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	Planned Bar		Milestone
	Critical Bar		Actual MS
	Baseline		Critical MS

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C. Environmental Mitigation Measures – Implementation Status

Table C-1: Environmental Mitigation Measures Implementation Status

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
Air Quality Impact (Construction)							
2.1	General Dust Control Measures 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	Obs
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: <i>Good Site Management</i> <ul style="list-style-type: none"> 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	Obs	Obs

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<i>Disturbed Parts of the Roads</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<i>Exposed Earth</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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. 						
	<i>Loading, Unloading or Transfer of Dusty Materials</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 						
	<i>Debris Handling</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	N/A	N/A	N/A	N/A	N/A	N/A
	<i>Transport of Dusty Materials</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 						

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<i>Wheel washing</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 						
	<i>Use of vehicles</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<i>Site hoarding</i>	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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:

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<i>Exhaust from Dust Arrestment Plant</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> 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 						
	<i>Emission Limits</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> All emissions to air, other than steam or water vapour, shall be colourless and free from persistent mist or smoke 						
	<i>Engineering Design/Technical Requirements</i>	N/A	N/A	N/A	N/A	N/A	N/A
	<ul style="list-style-type: none"> 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 						
	<p>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.</p>	Obs	✓	✓	Obs	Obs, Rem	Obs
Noise Impact (Construction)							
3.1	Good Site Practice						
	<ul style="list-style-type: none"> 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; 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
3.1	<p>Adoption of Quieter PME</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
3.1	<p>Use of Movable Noise Barriers</p> <p>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.</p>	Obs	✓	Obs	Obs	Obs	Obs
3.1	<p>Use of Noise Enclosure/ Acoustic Shed</p> <p>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.</p>	✓	✓	✓	Obs	Obs	Obs,Rem

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
3.1	<p>Use of Noise Insulating Fabric</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
3.1	<p>Scheduling of Construction Works outside School Examination Periods</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
Water Quality Impact (Construction)							
4.1	<p>Construction site runoff and drainage</p> <p>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:</p> <ul style="list-style-type: none"> 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; 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	Obs	✓	Obs	Obs	Obs
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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	Obs
	<ul style="list-style-type: none"> 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. 	✓	✓	✓	Obs	✓	Obs
	<ul style="list-style-type: none"> 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	Rem	Obs	✓	✓	✓
	<ul style="list-style-type: none"> 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	<p>Barging facilities and activities</p> <p>Recommendations for good site practices during operation of the proposed barging point include:</p> <ul style="list-style-type: none"> 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

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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; All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; and 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	<p>Sewage effluent from construction workforce</p> <p>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.</p>	✓	✓	✓	✓	✓	✓
4.1	<p>General construction activities</p> <ul style="list-style-type: none"> 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	✓	Obs	Obs	Obs
Waste Management Implications (Construction)							

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
6.1	Good Site Practices						
	<ul style="list-style-type: none"> 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 Provision of sufficient waste disposal points and regular collection of waste 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 	✓	✓	Obs	Obs	Obs	Obs
		✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓
6.1	Waste Reduction Measures						
	Recommendations to achieve waste reduction include:						
	<ul style="list-style-type: none"> 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 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 	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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 	✓	✓	✓	✓	Obs	✓
6.1	<p>Inert and Non-inert C&D Materials</p> <p>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.</p> <ul style="list-style-type: none"> 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. 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. 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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. 	✓	✓	✓	✓	✓	✓

		Implementation Stage					
		Zone 2A			Zone 2B & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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	<p>General Refuse</p> <p>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.</p>	✓	✓	✓	Obs	Obs	Obs
Land Contamination (Construction)							
7.1	<p>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:</p> <ul style="list-style-type: none"> 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 & 2C		
EM&A Ref.	Recommendation Measures	Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
	<ul style="list-style-type: none"> 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; Stockpiling of contaminated excavated materials on site should be avoided as far as possible; The use of contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; Vehicles containing any contaminated excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; Truck bodies and tailgates should be sealed to stop any discharge; 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; Speed control for trucks carrying contaminated materials should be exercised; 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 Maintain records of waste generation and disposal quantities and disposal arrangements. 	N/A	N/A	N/A	N/A	N/A	N/A
Ecological Impact (Construction)							
No mitigation measure is required.							
Landscape and Visual Impact (Construction)							

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
Table 9.1 (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 (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	N/A	N/A	N/A
Table 9.1 (CM3)	Buffer trees for screening purposes to soften the hard architectural and engineering structures and facilities.	N/A	N/A	N/A	N/A	N/A	N/A
Table 9.1 (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	N/A	N/A	N/A
Table 9.1 (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	N/A	N/A	N/A
Table 9.1 (CM6)	Sensitive streetscape design should be incorporated along all new roads and streets.	N/A	N/A	N/A	N/A	N/A	N/A
Table 9.1 (CM7)	Structure, ornamental planting shall be provided along amenity strips to enhance the landscape quality.	N/A	N/A	N/A	N/A	N/A	N/A
Table 9.1 (CM8)	Landscape design shall be incorporated to architectural and engineering structures in order to provide aesthetically pleasing designs.	N/A	N/A	N/A	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	N/A	N/A	N/A

EM&A Ref.	Recommendation Measures	Implementation Stage					
		Zone 2A			Zone 2B & 2C		
		Aug 2022	Sep 2022	Oct 2022	Aug 2022	Sep 2022	Oct 2022
Table 9.2 (MCP1)	Use of decorative screen hoarding/boards	✓	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓	✓
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

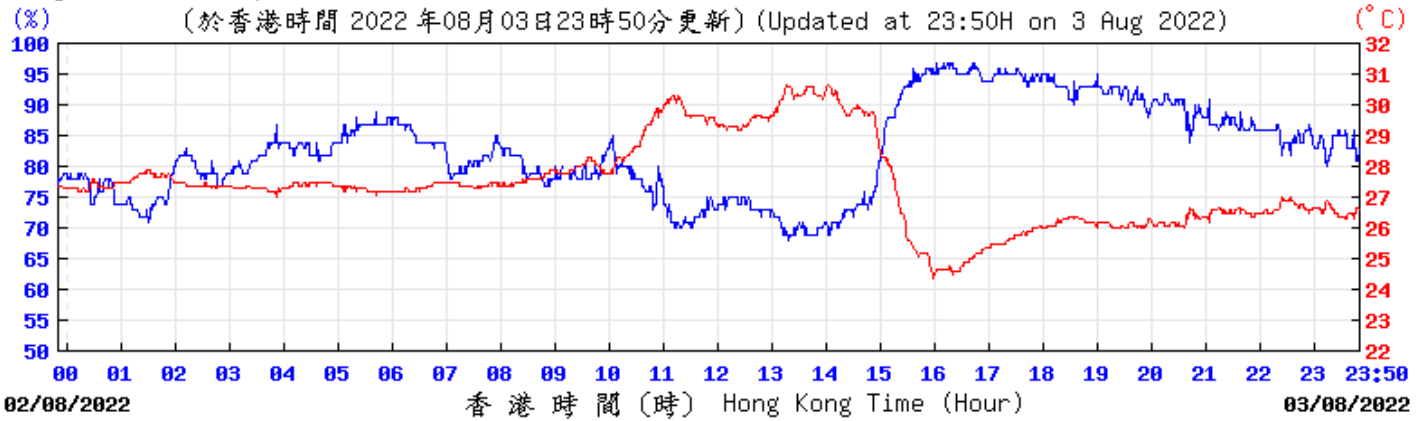
Obs - Observed

Rem - Reminder

D. Meteorological Data Extracted from Hong Kong Observatory

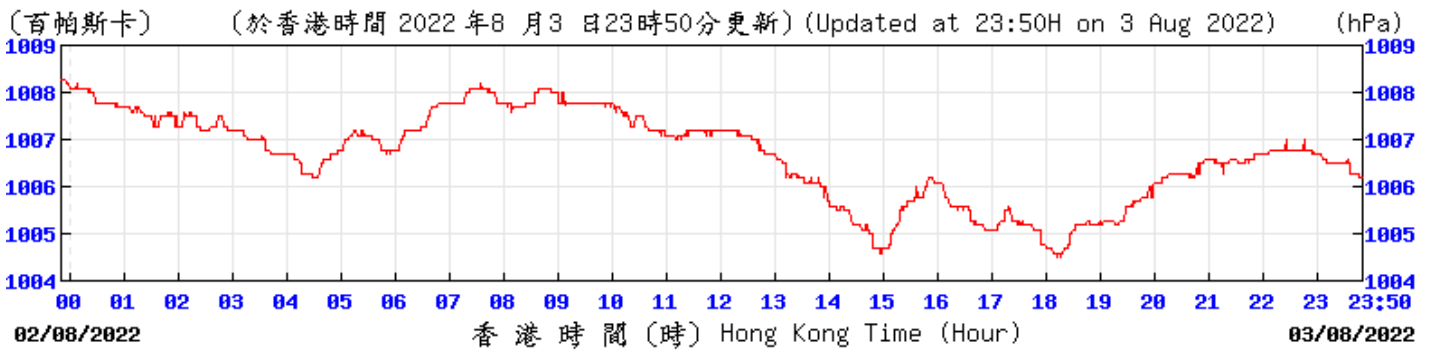
Extract of Meteorological Observations for King's Park Automatic Weather Station, August 2022

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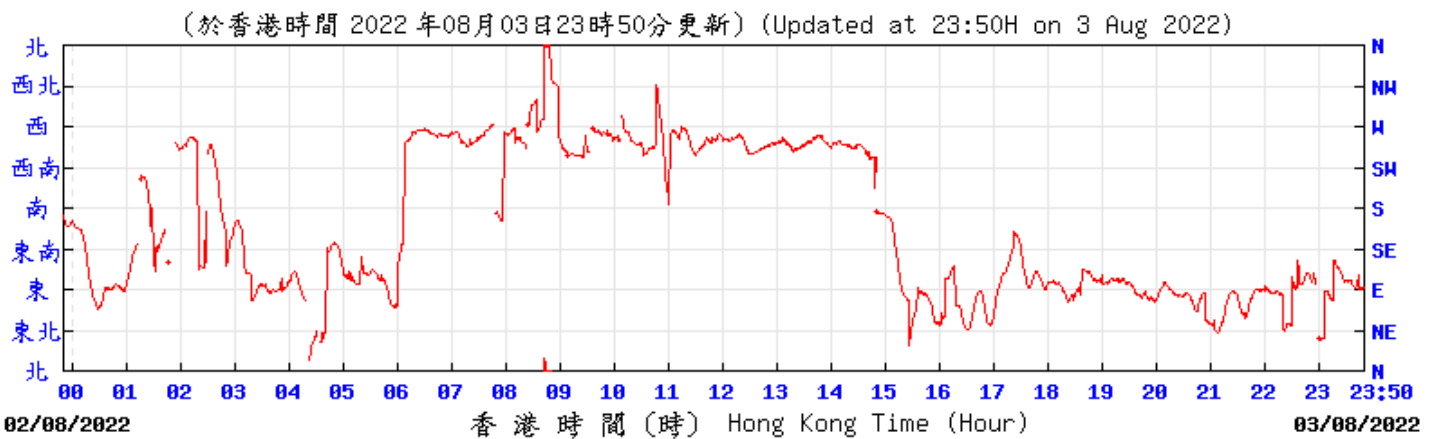
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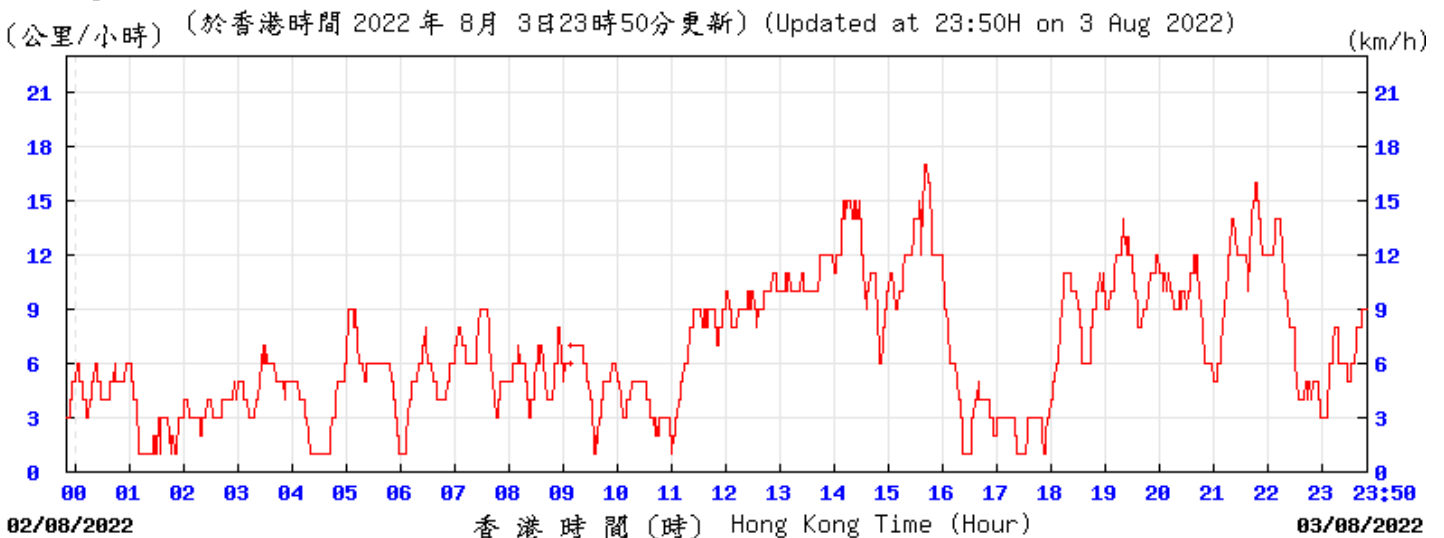
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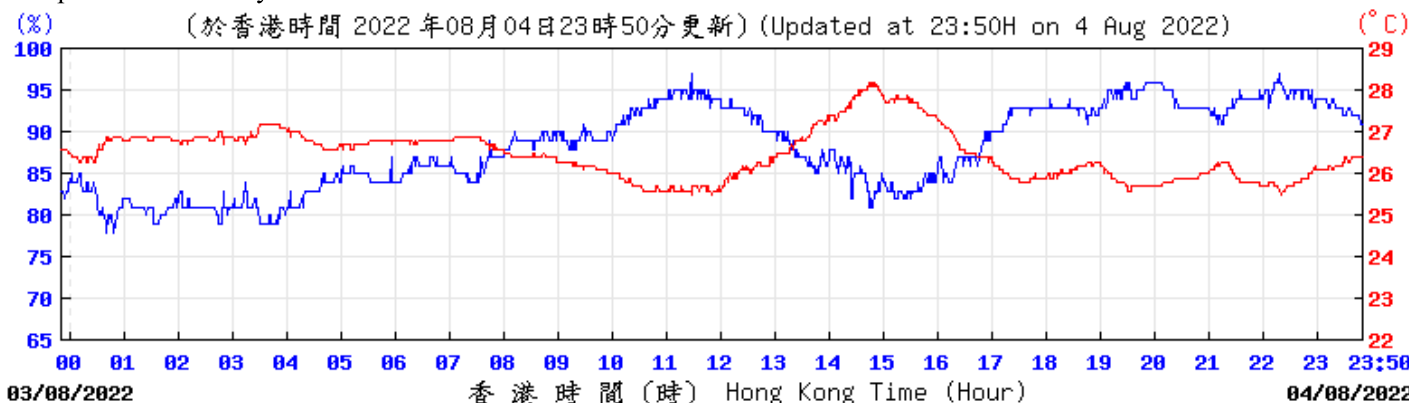
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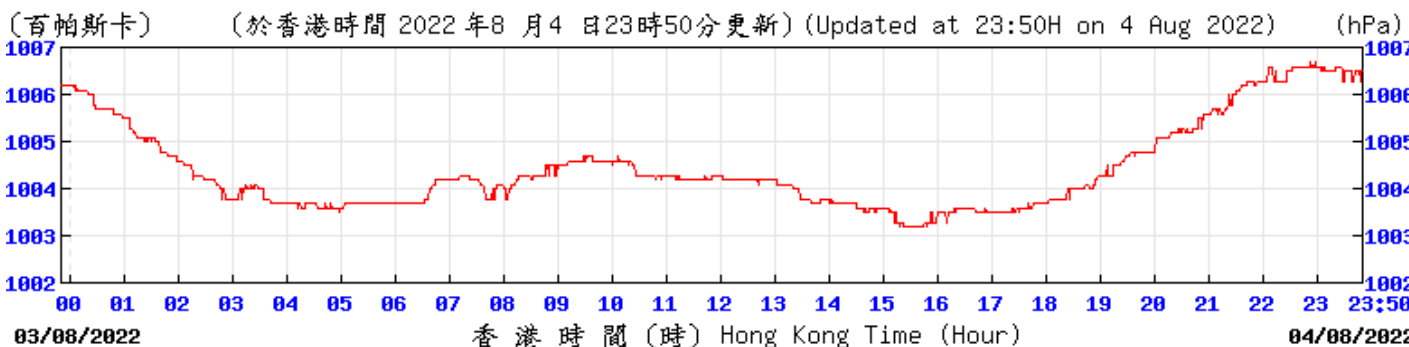
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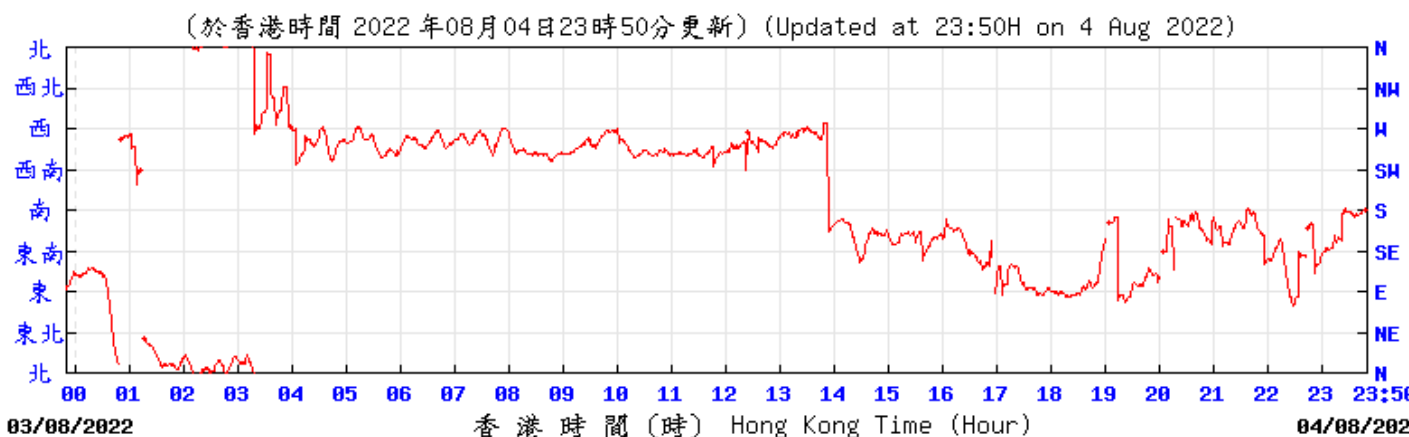
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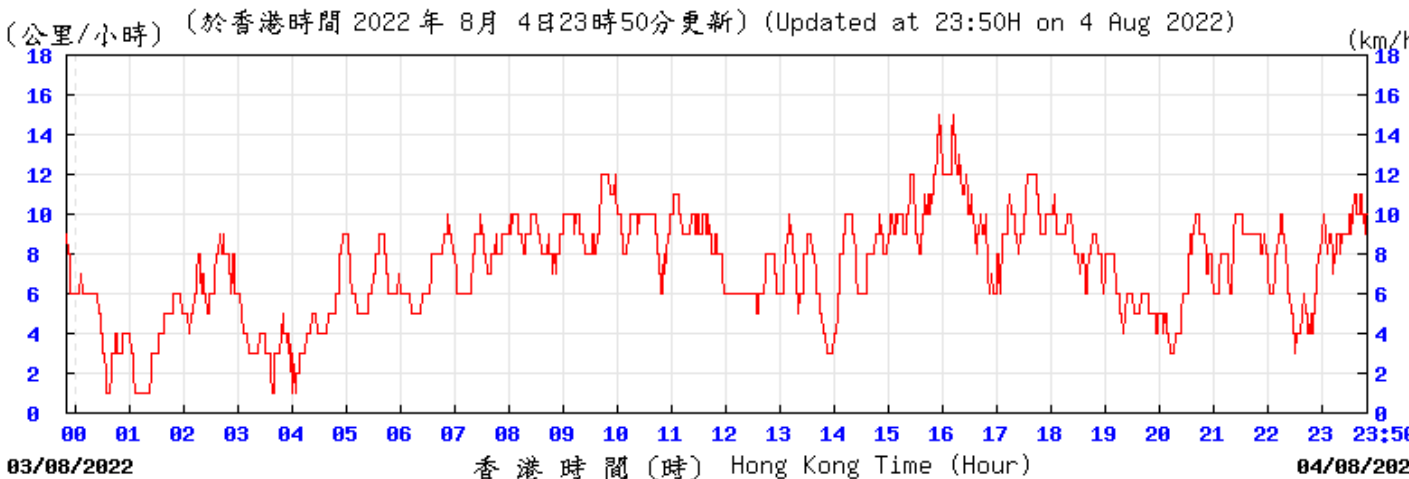
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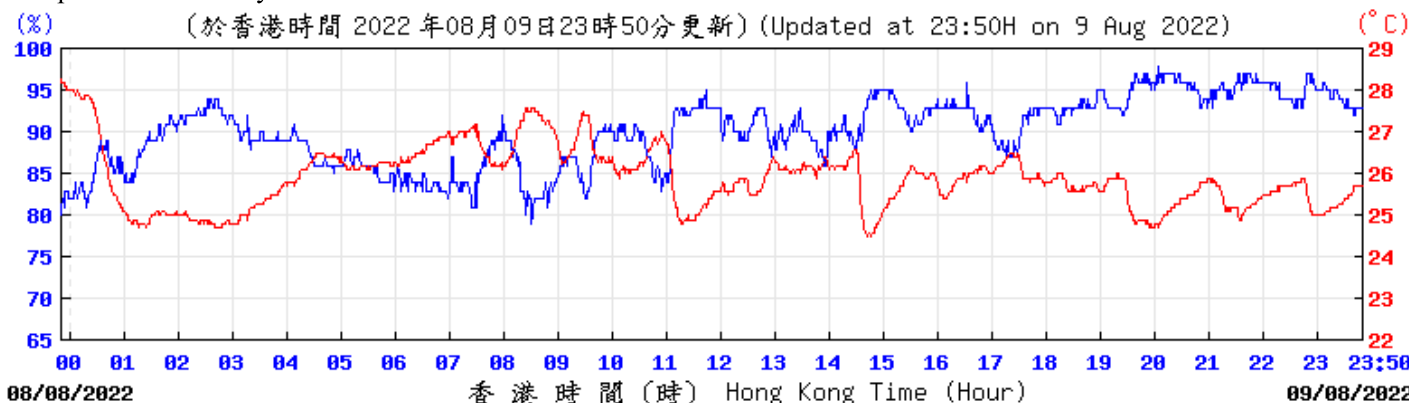
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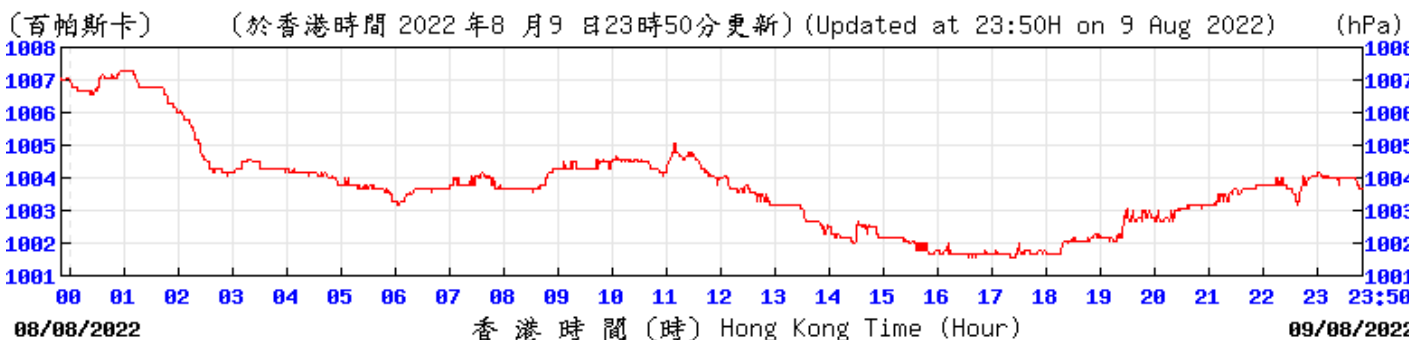
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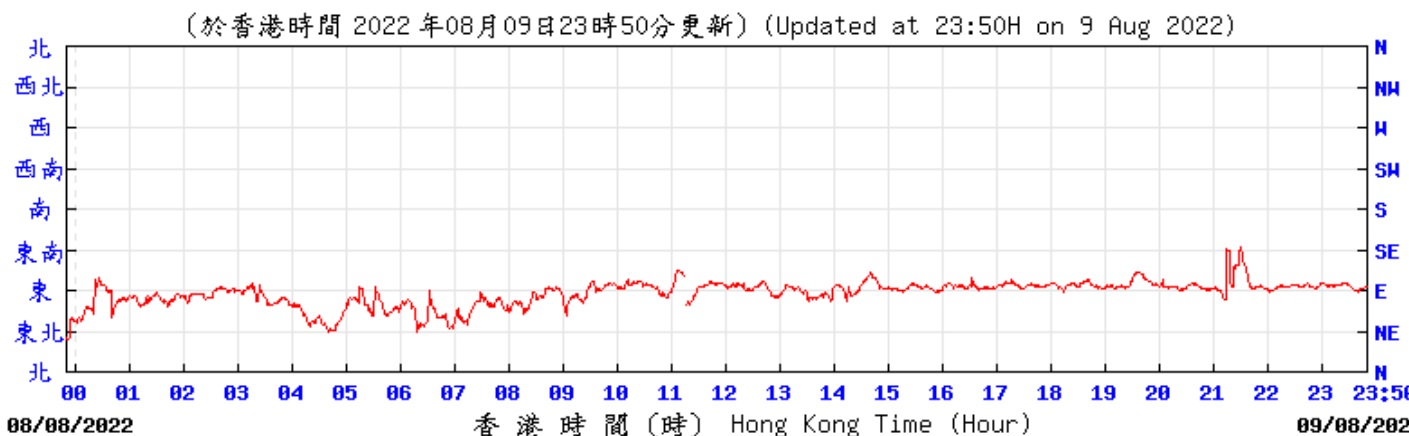
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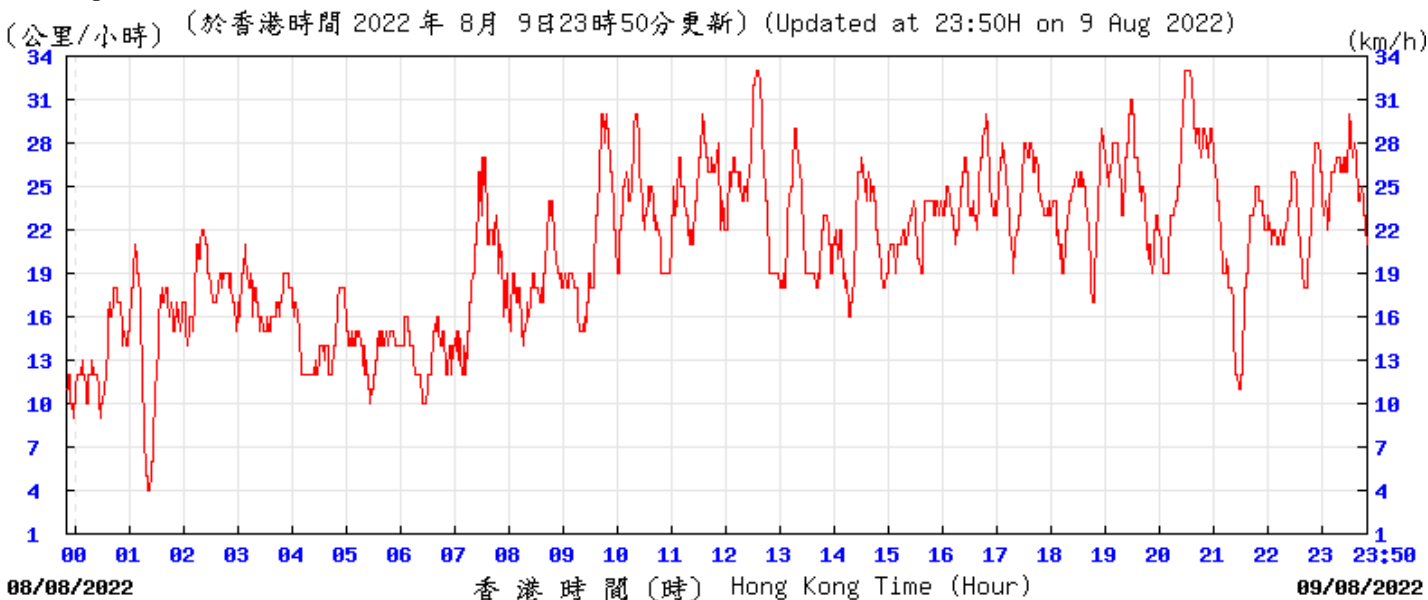
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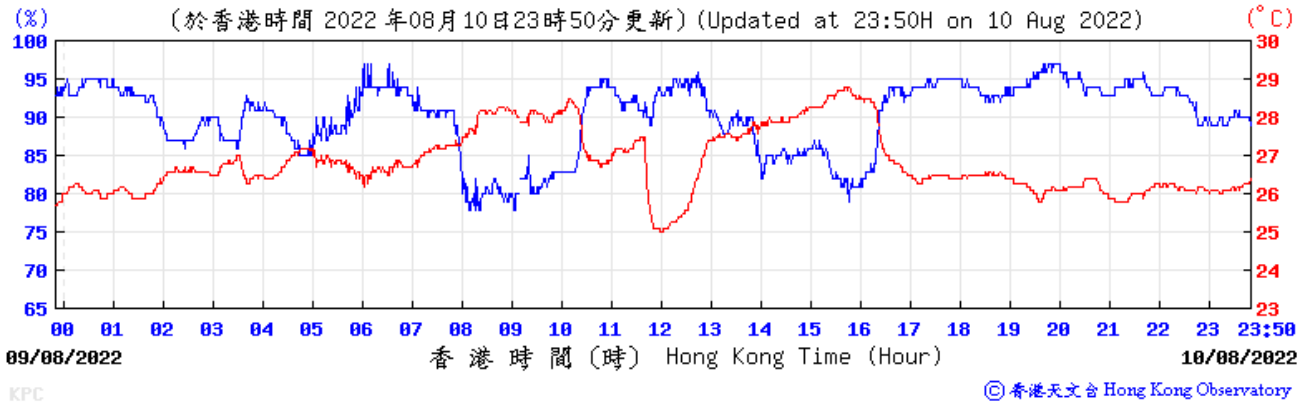
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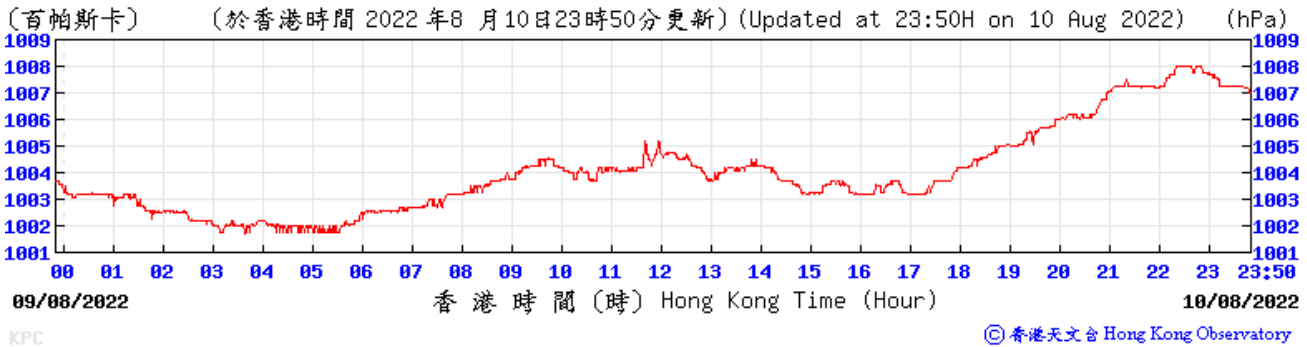


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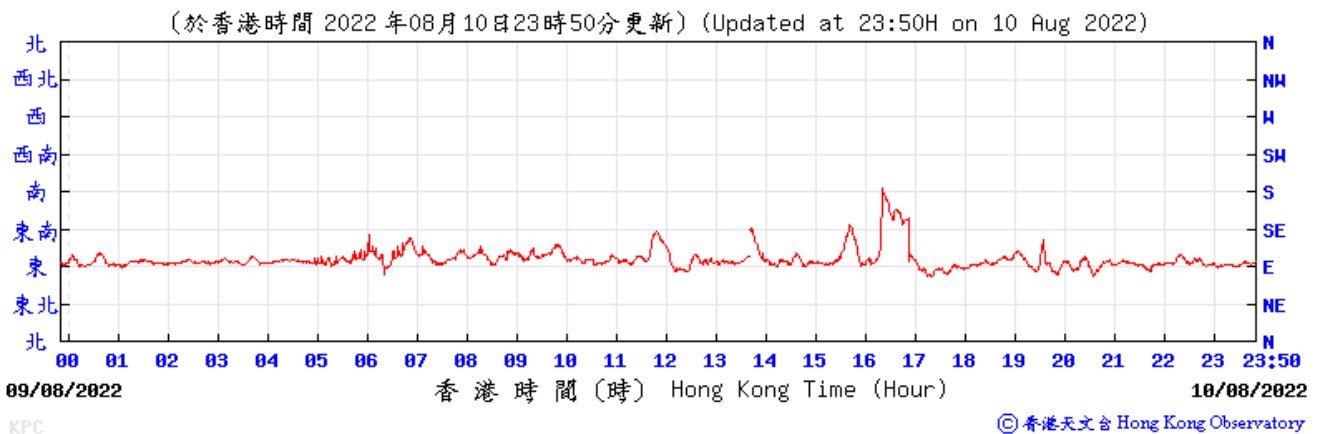
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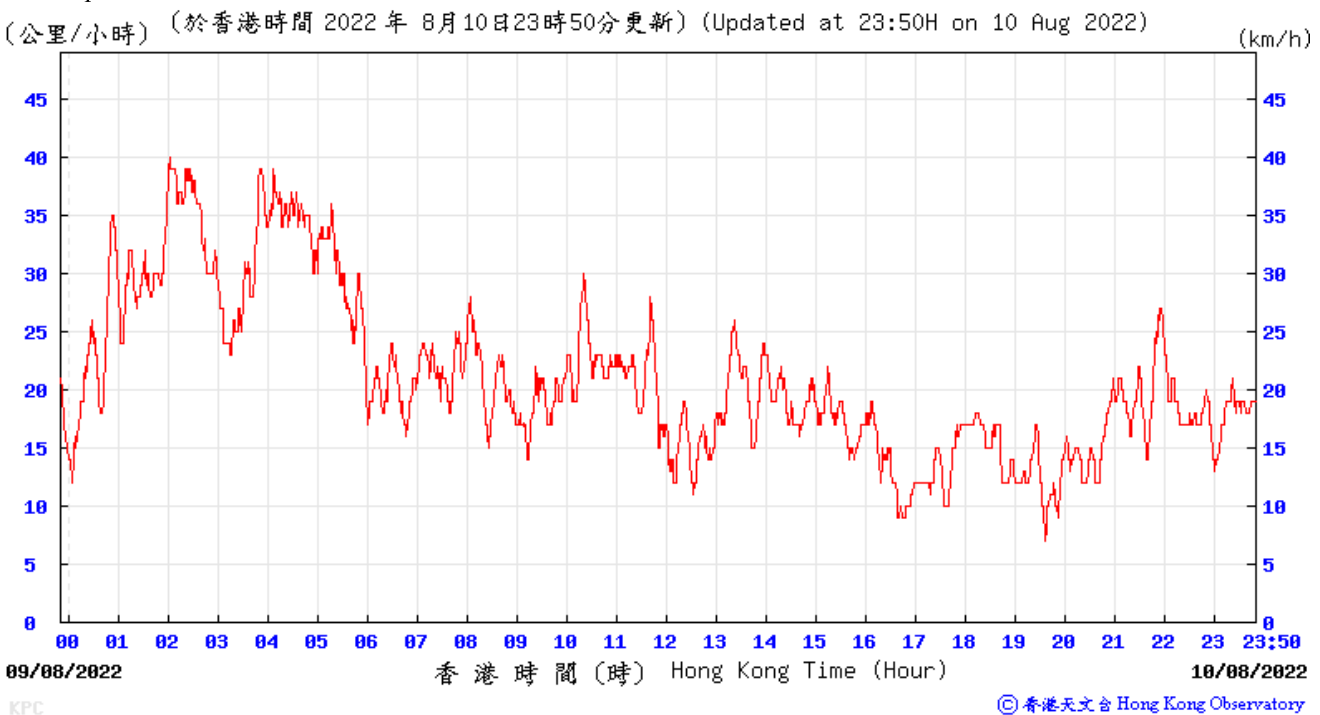
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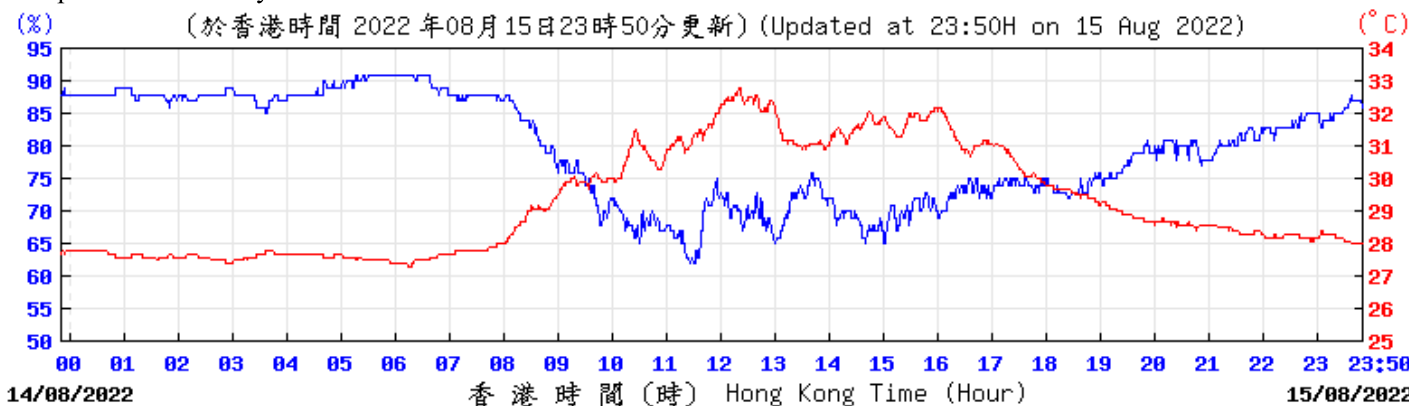
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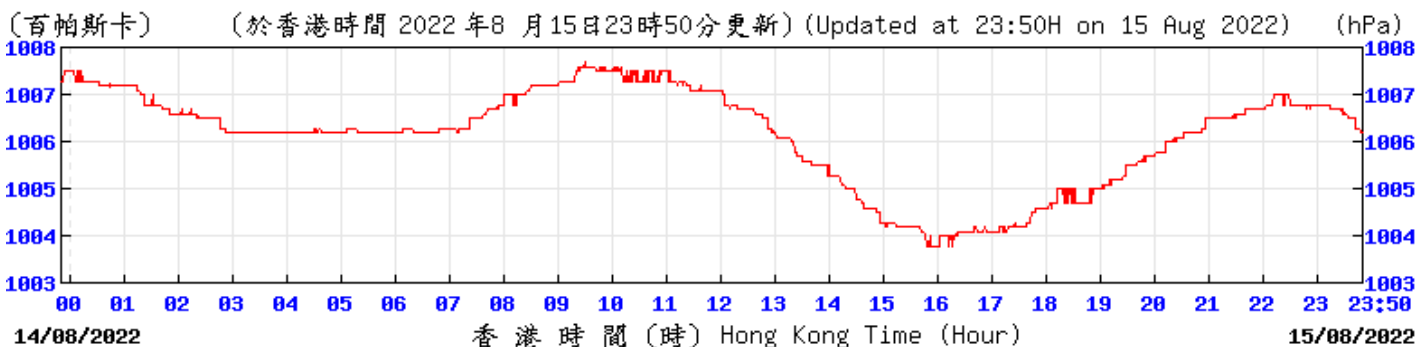


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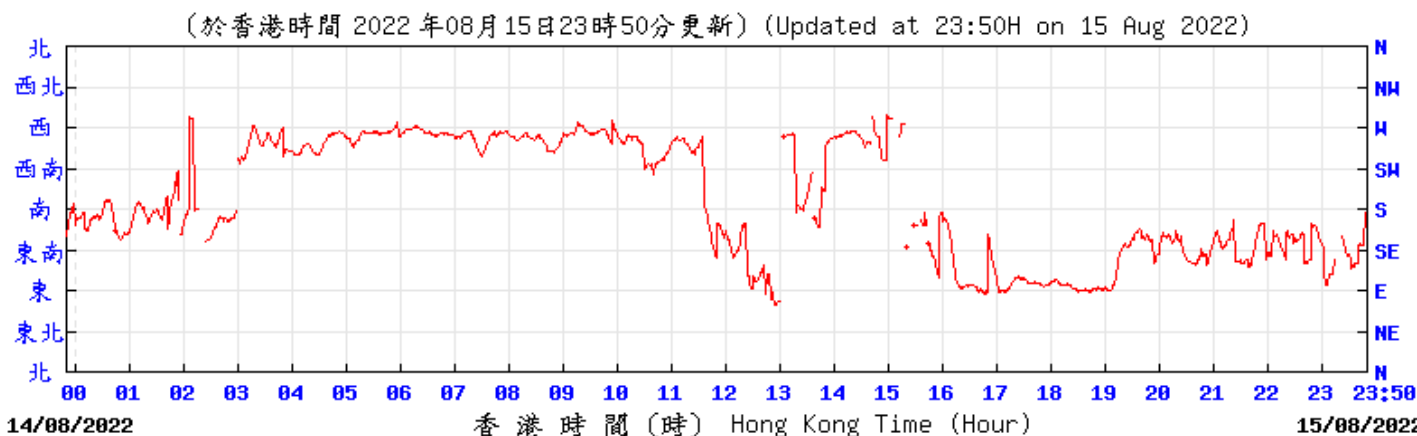
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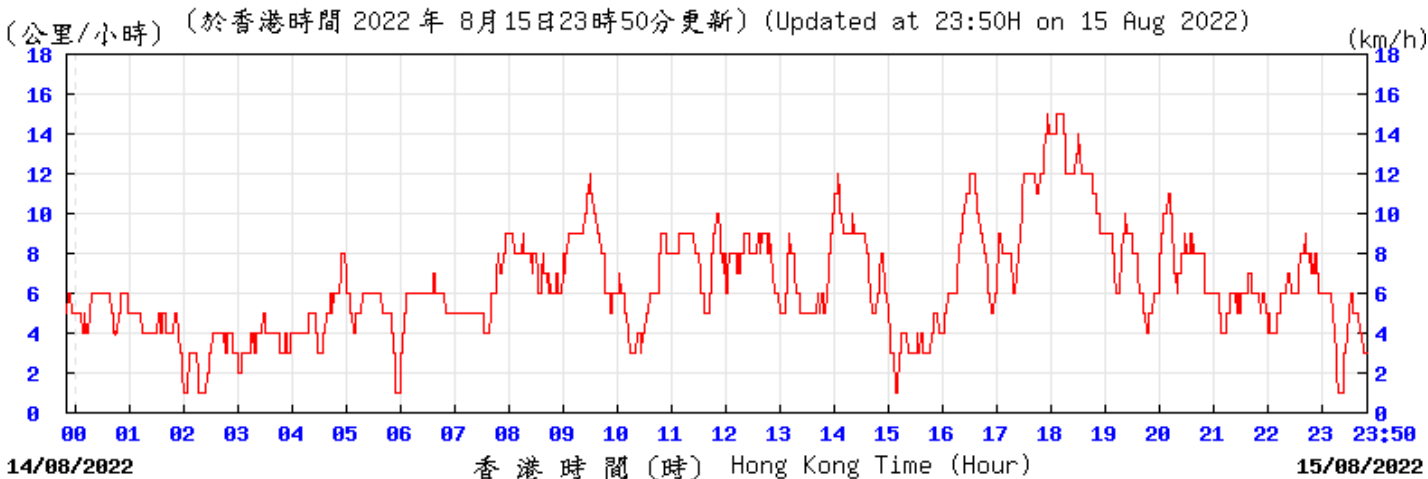
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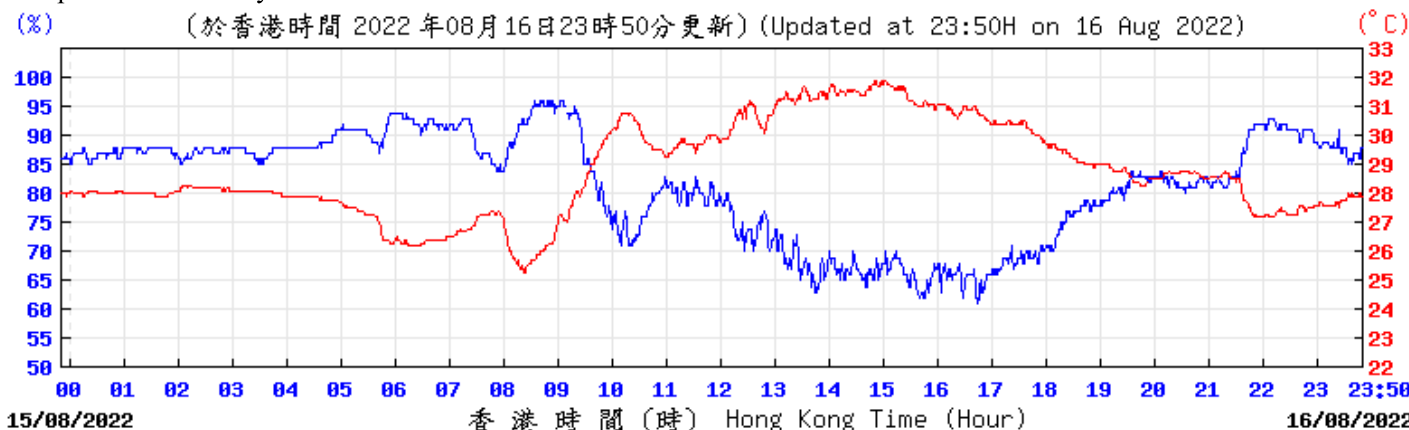
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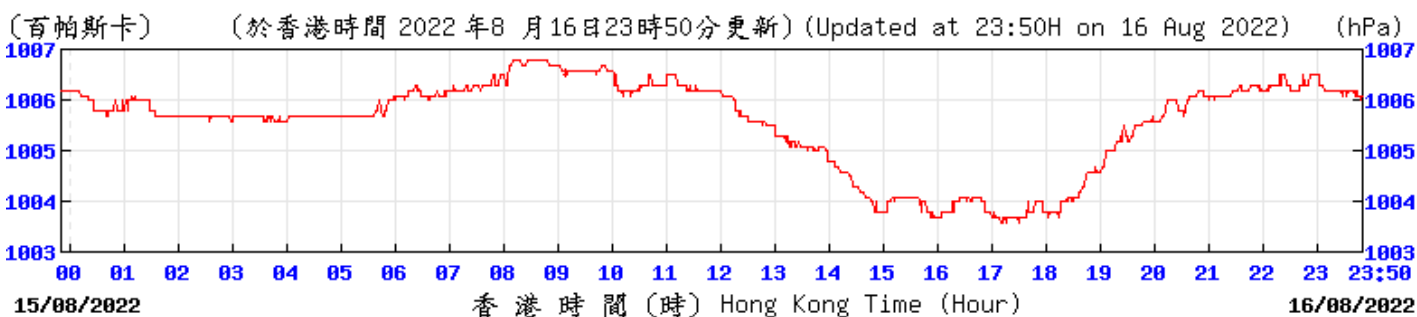
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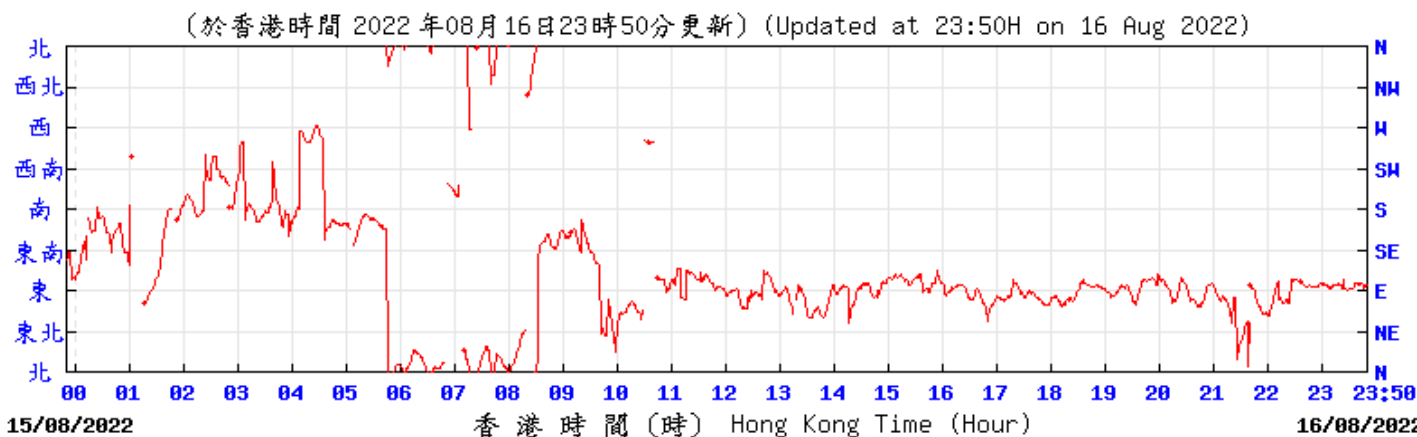
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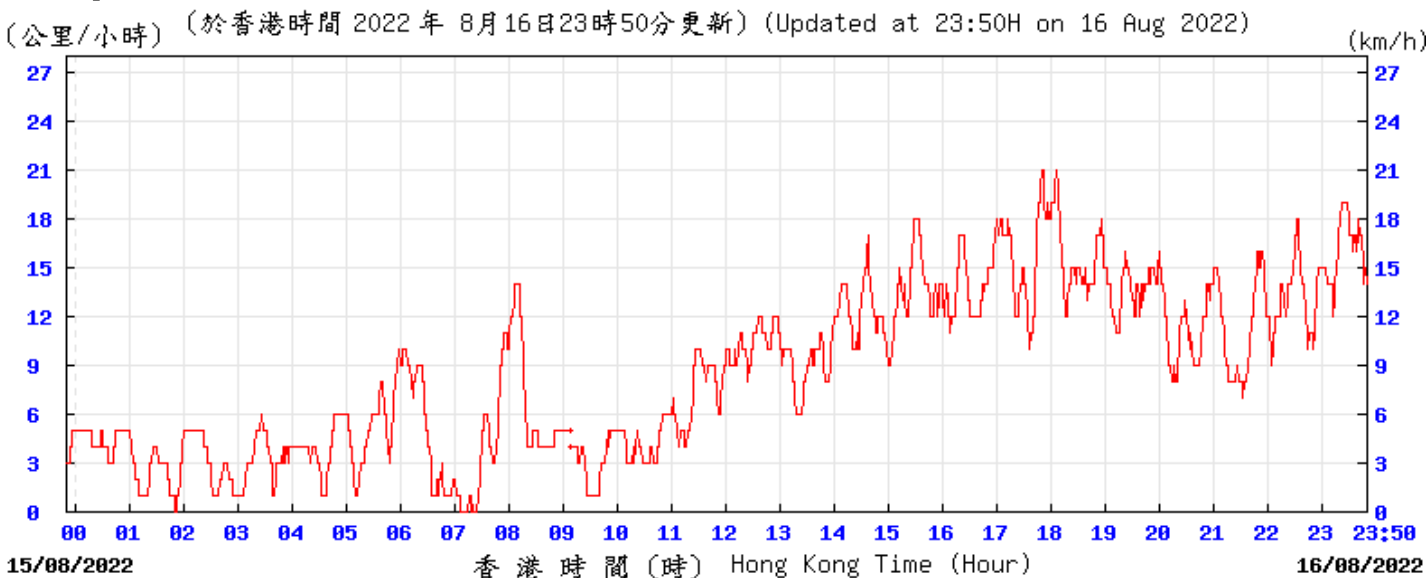
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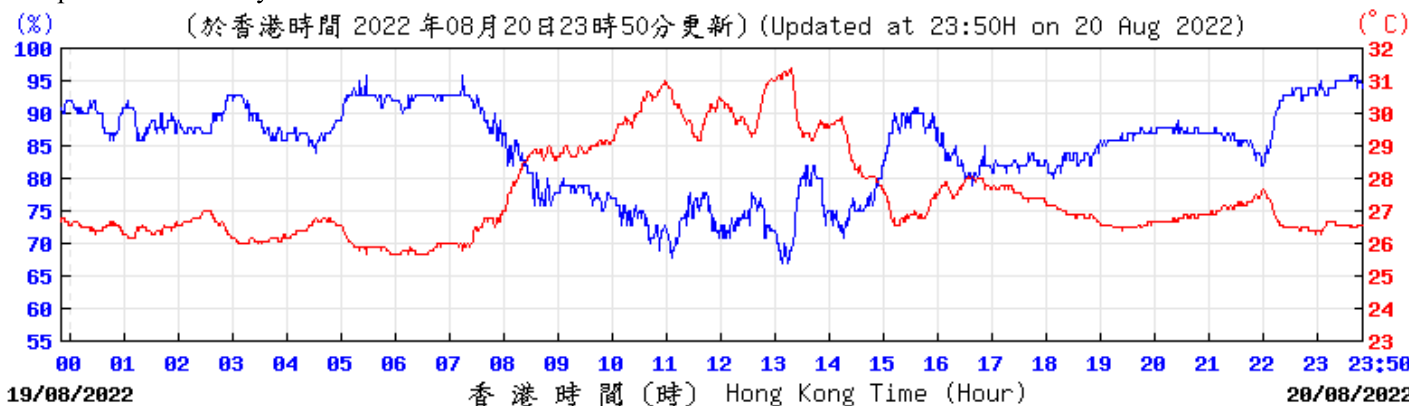
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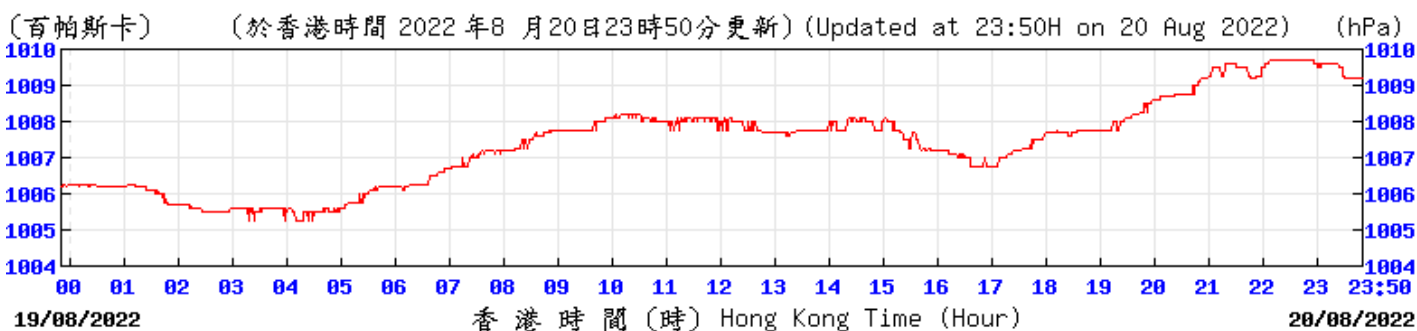
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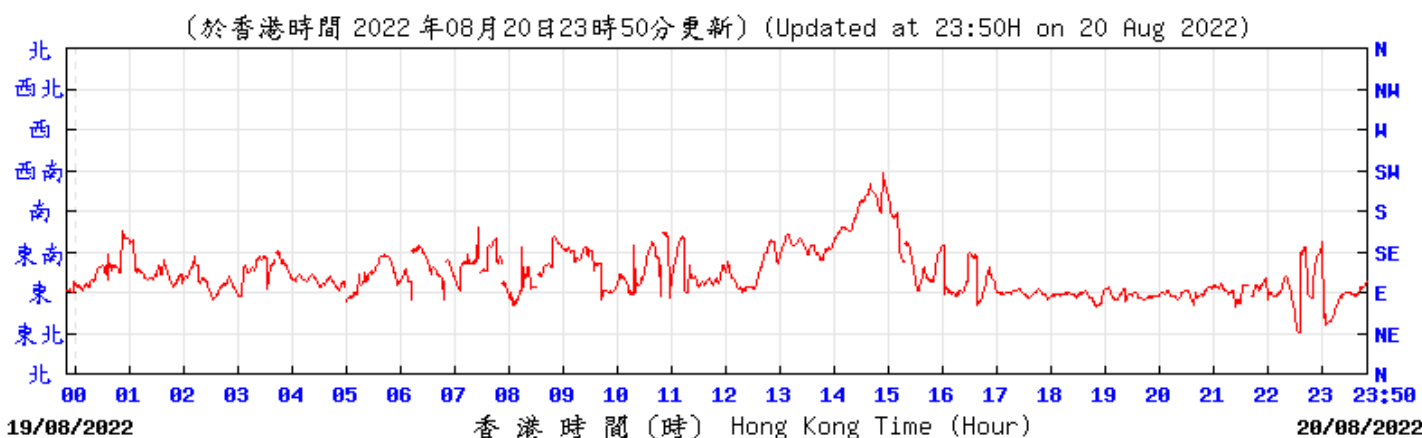
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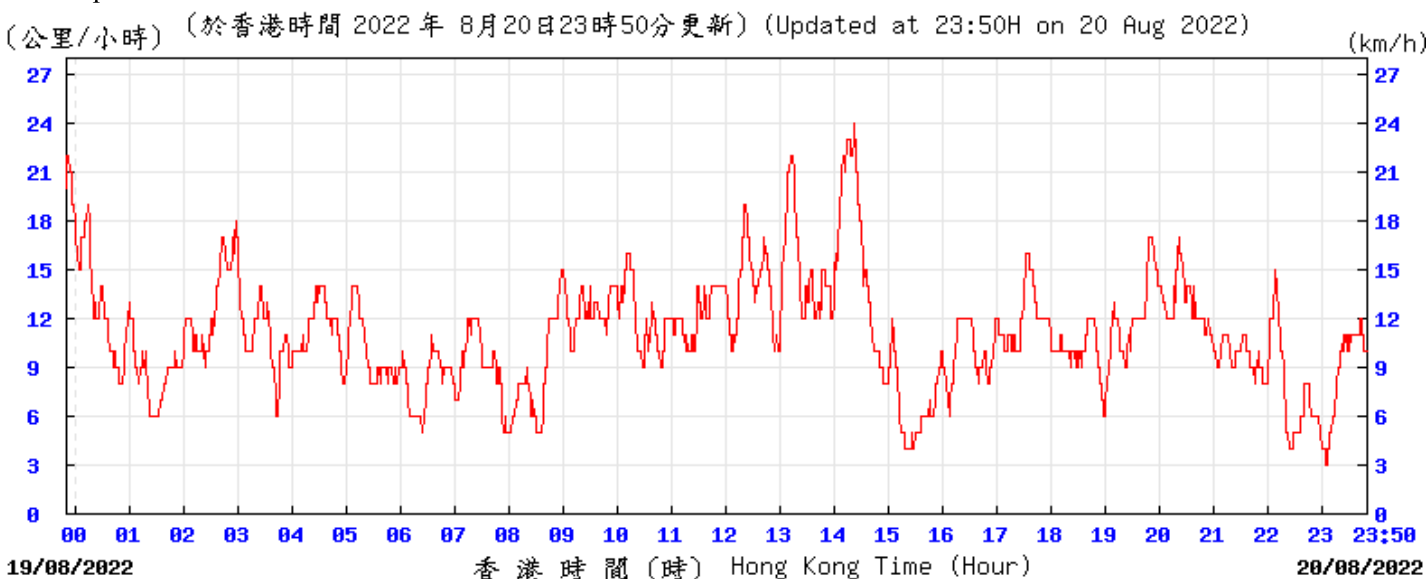
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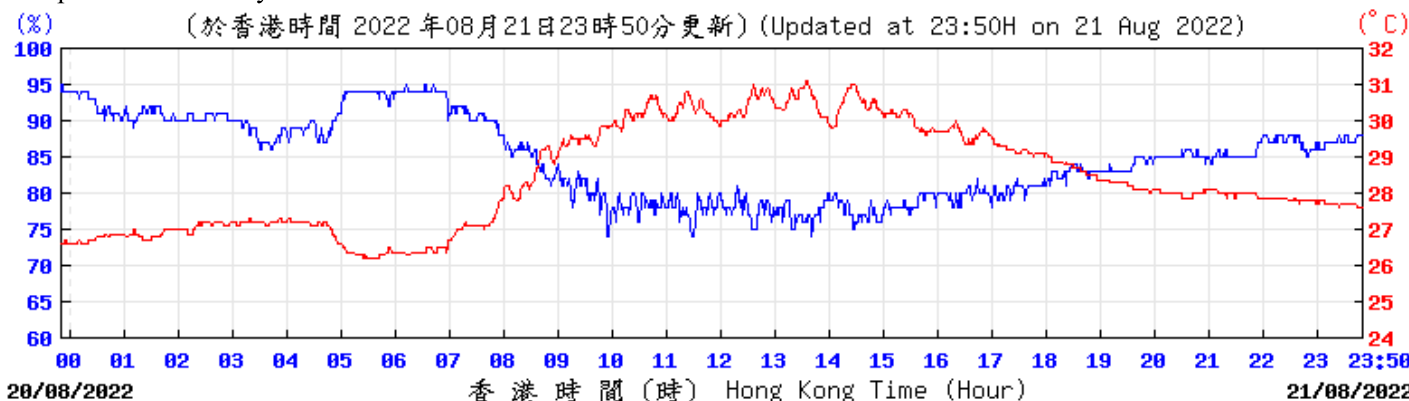
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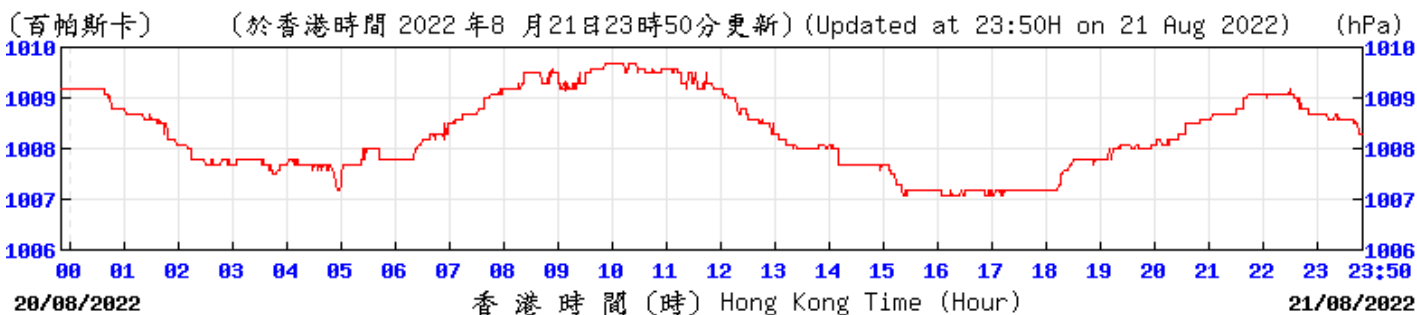
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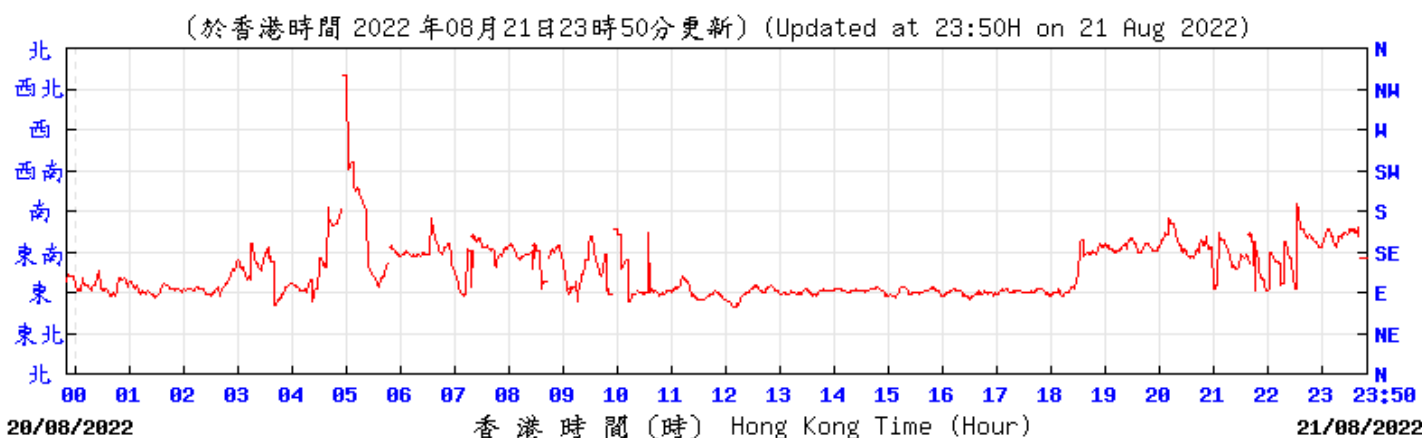
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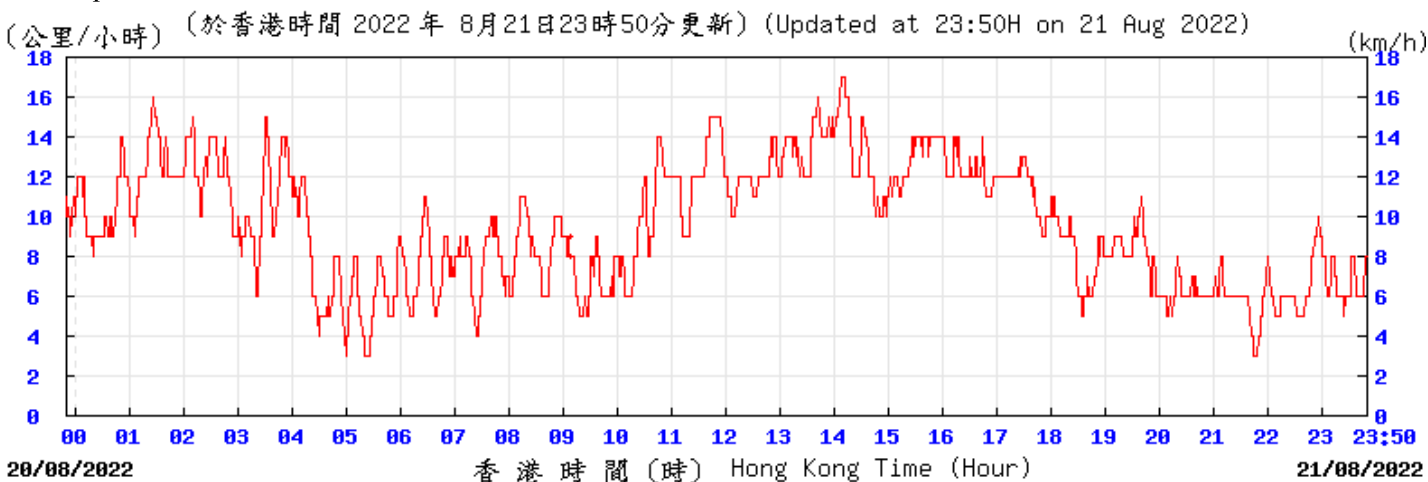
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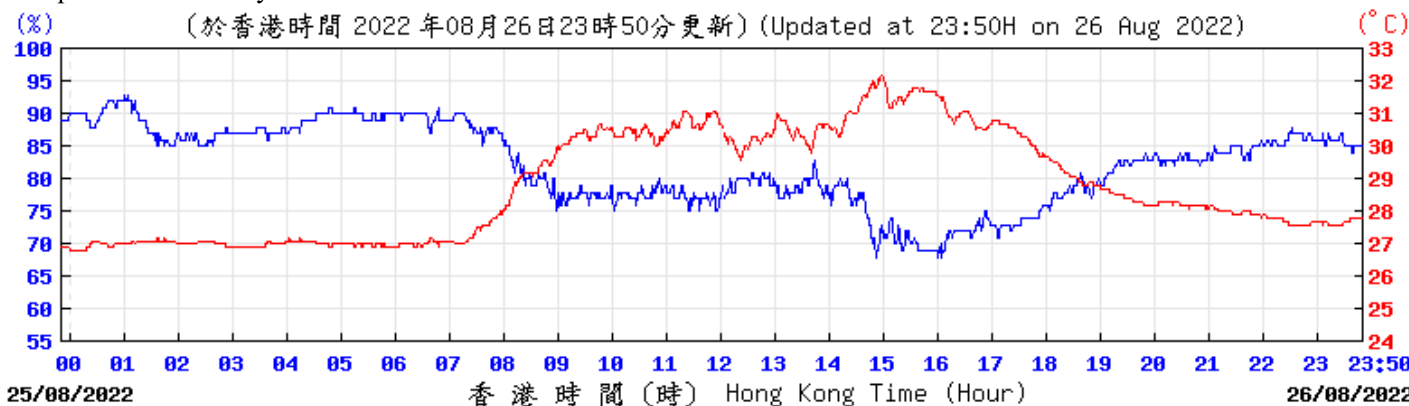
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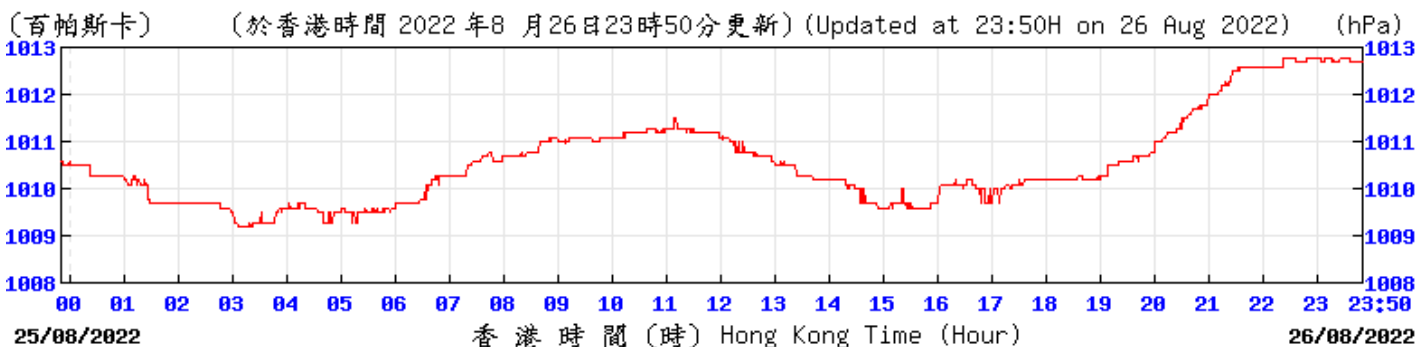
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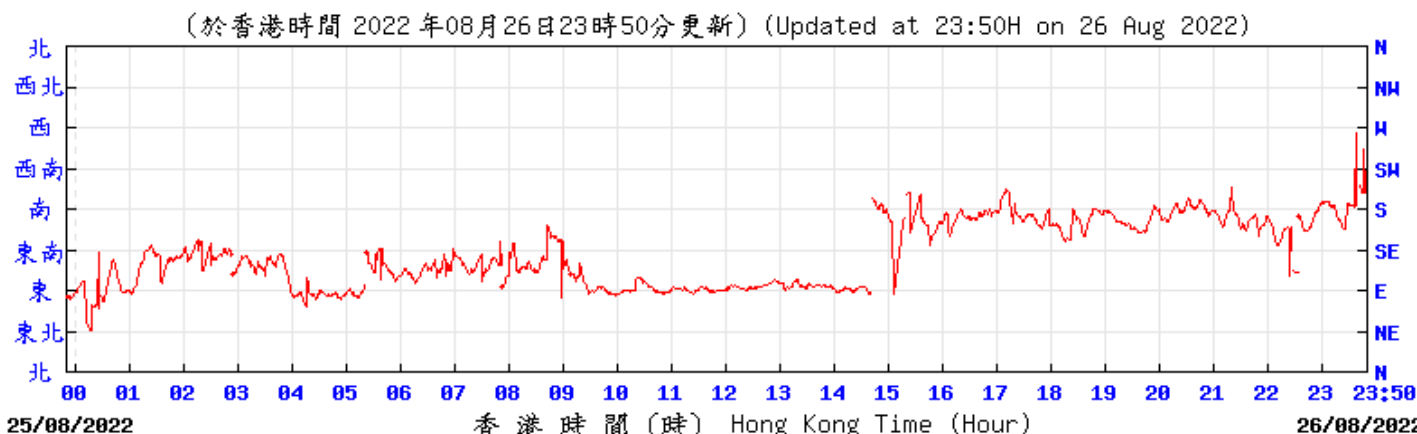
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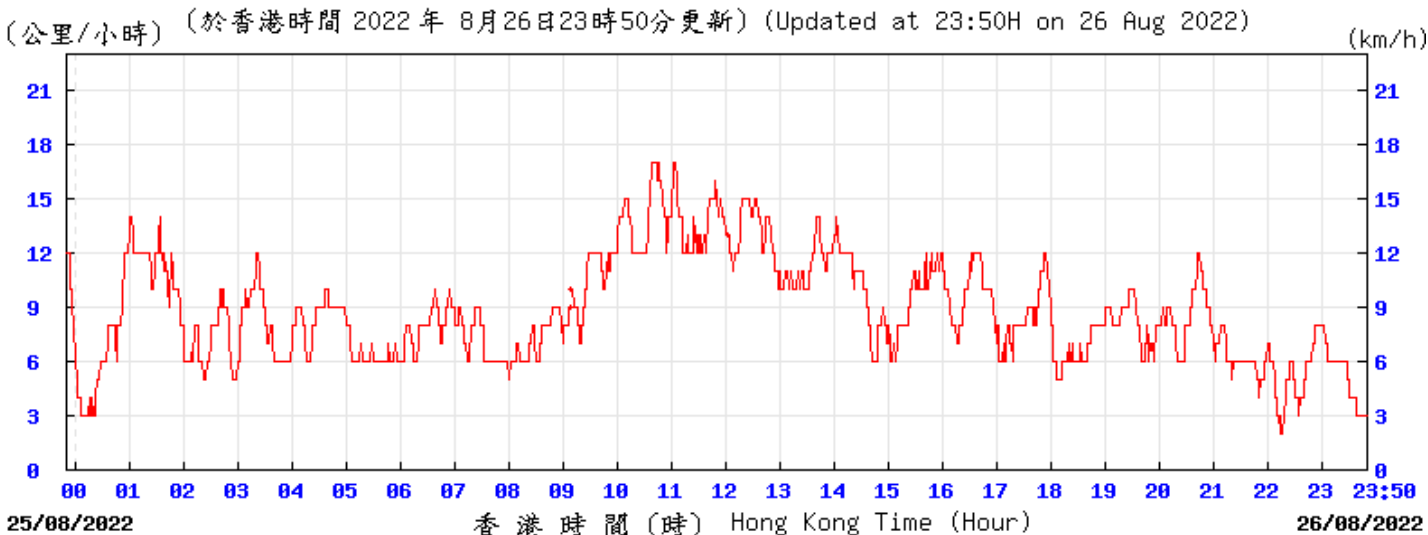
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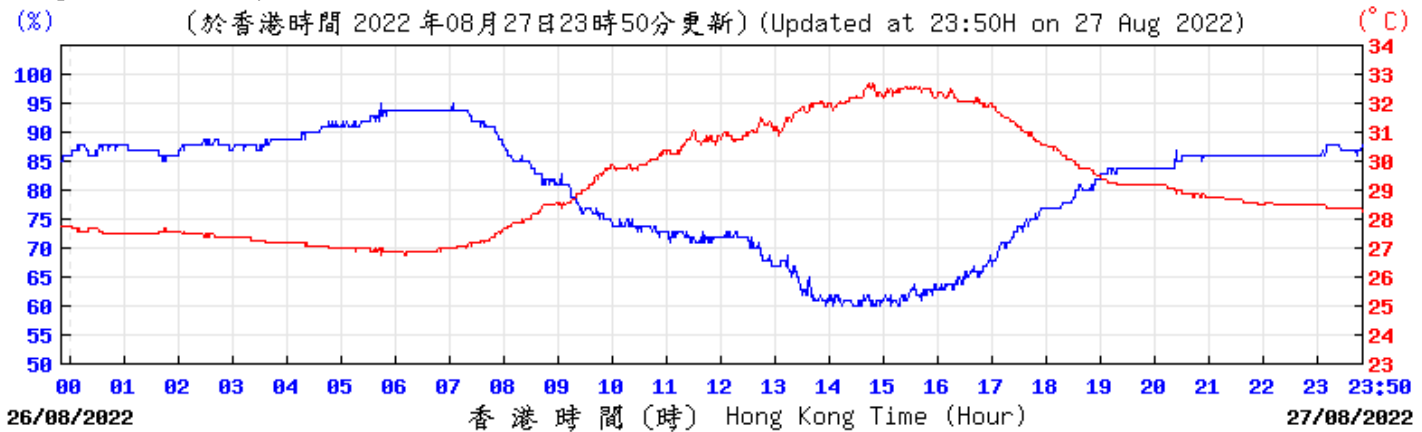
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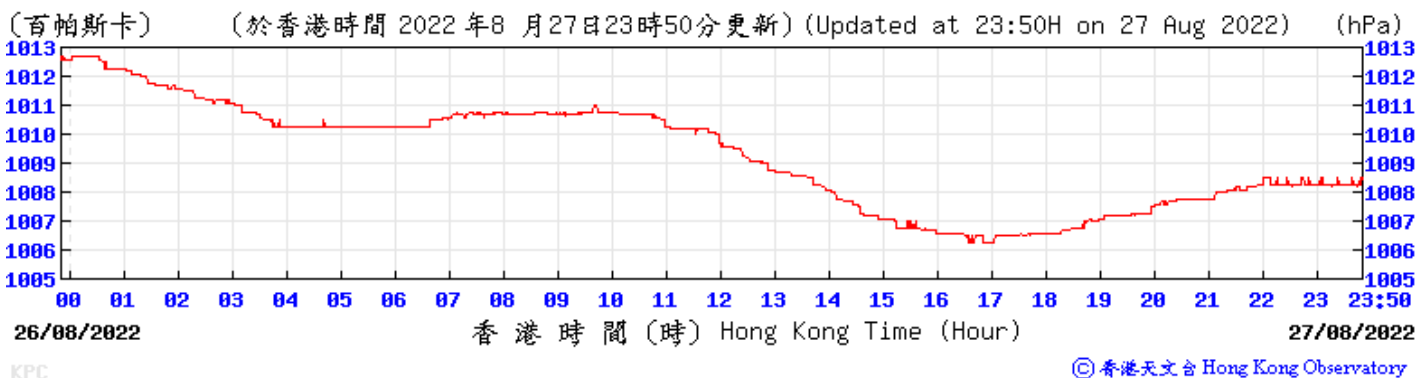
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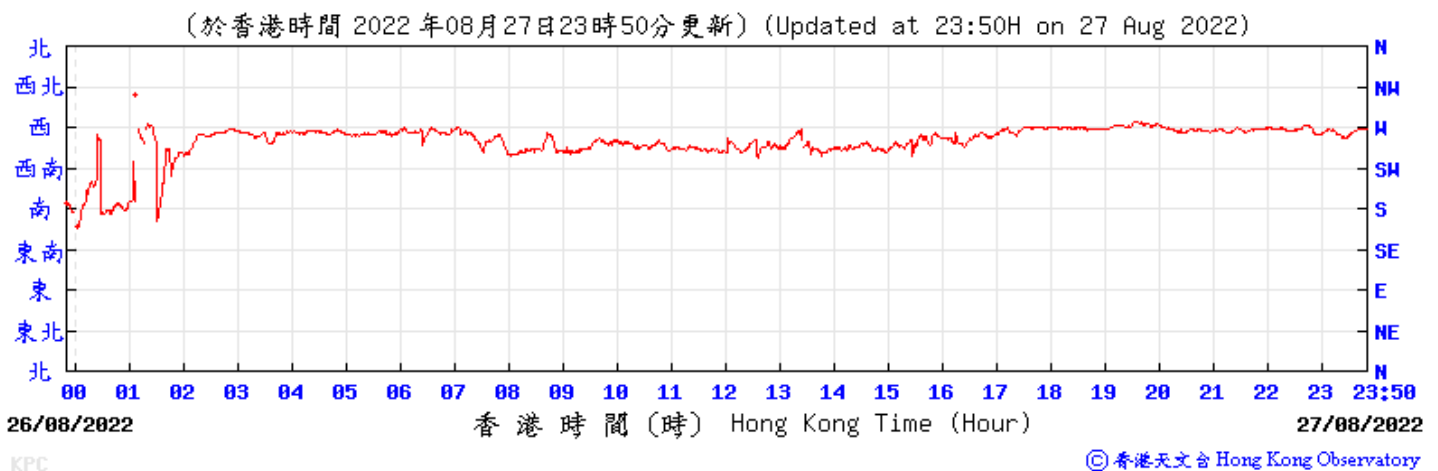
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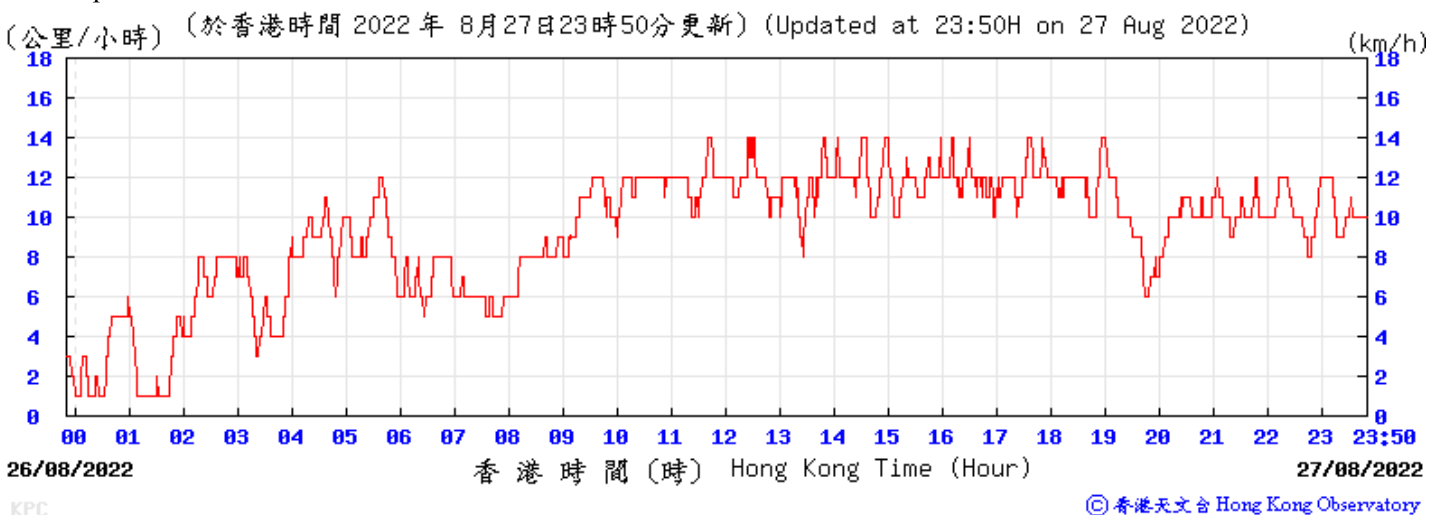
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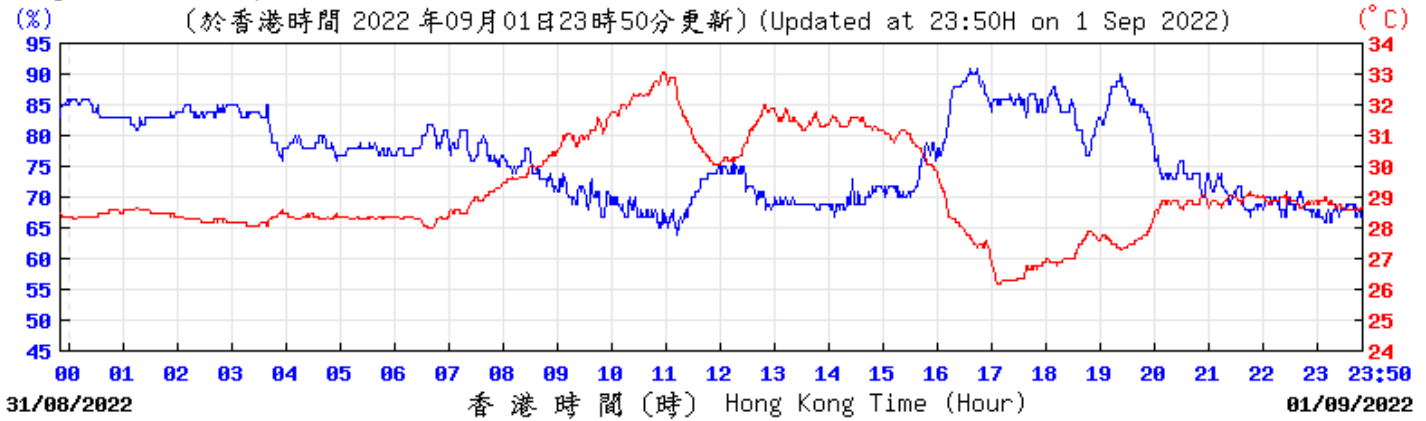


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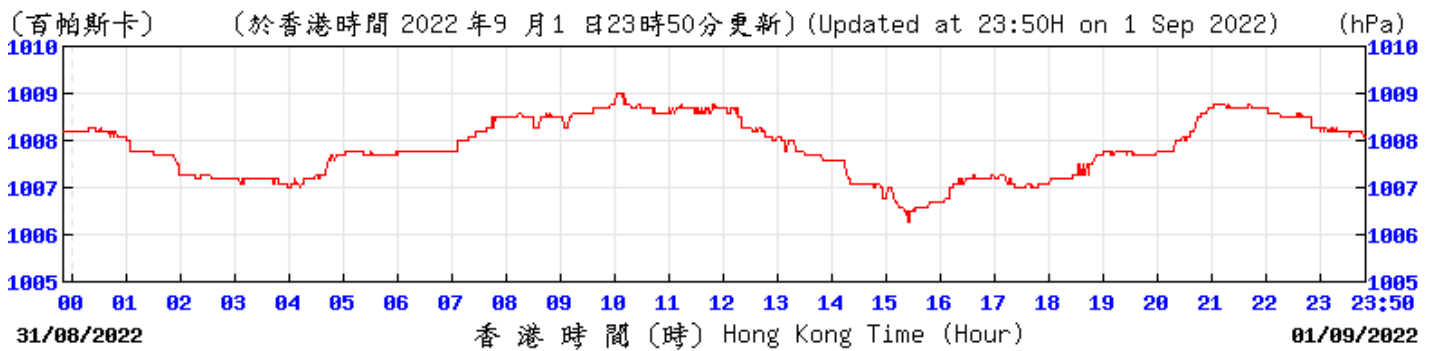
Extract of Meteorological Observations for King's Park Automatic Weather Station, September 2022

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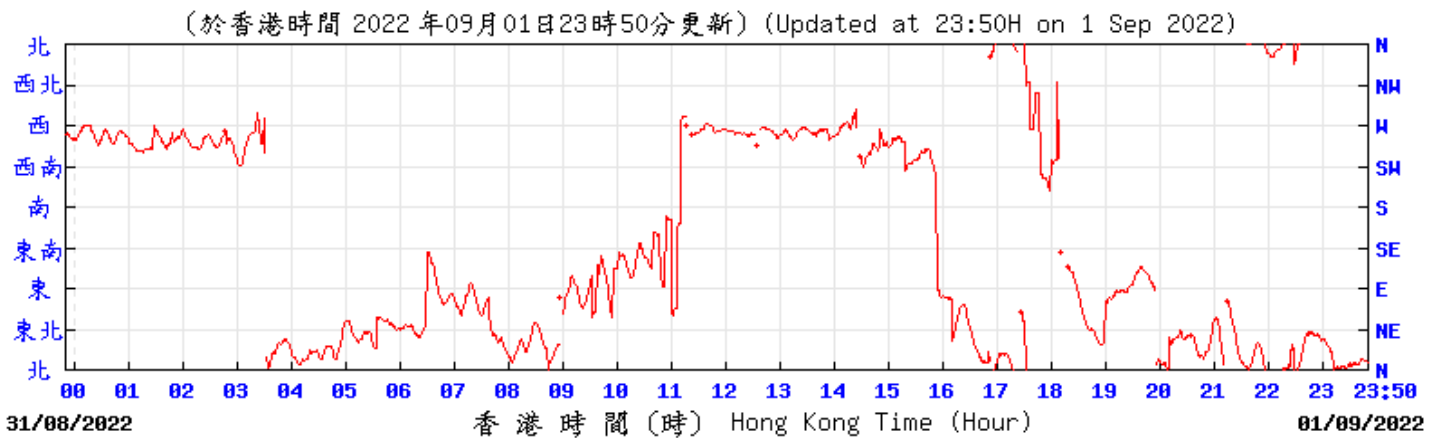
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Pressure:



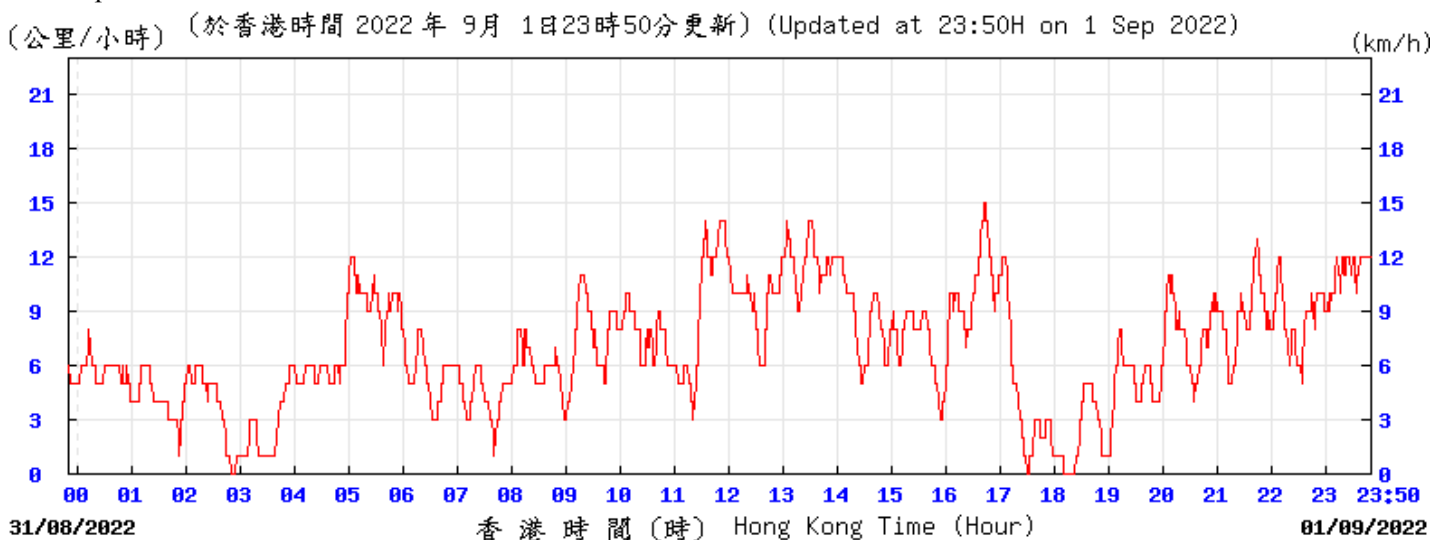
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Wind Direction:



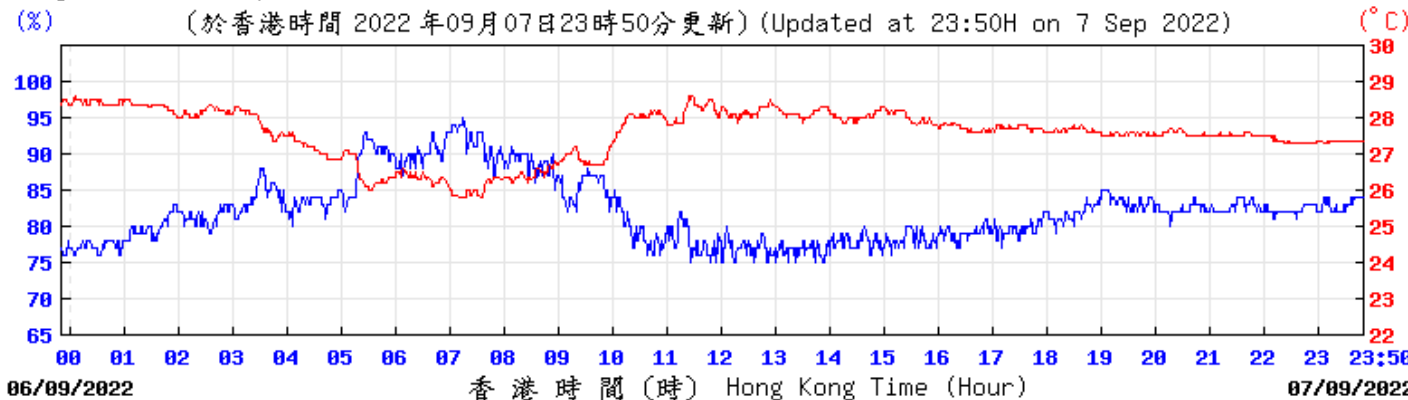
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Wind Speed:

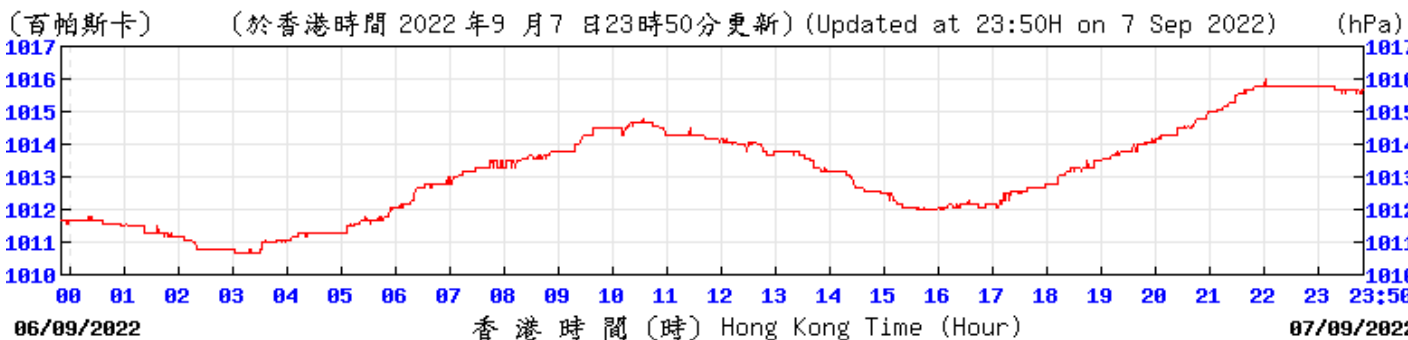


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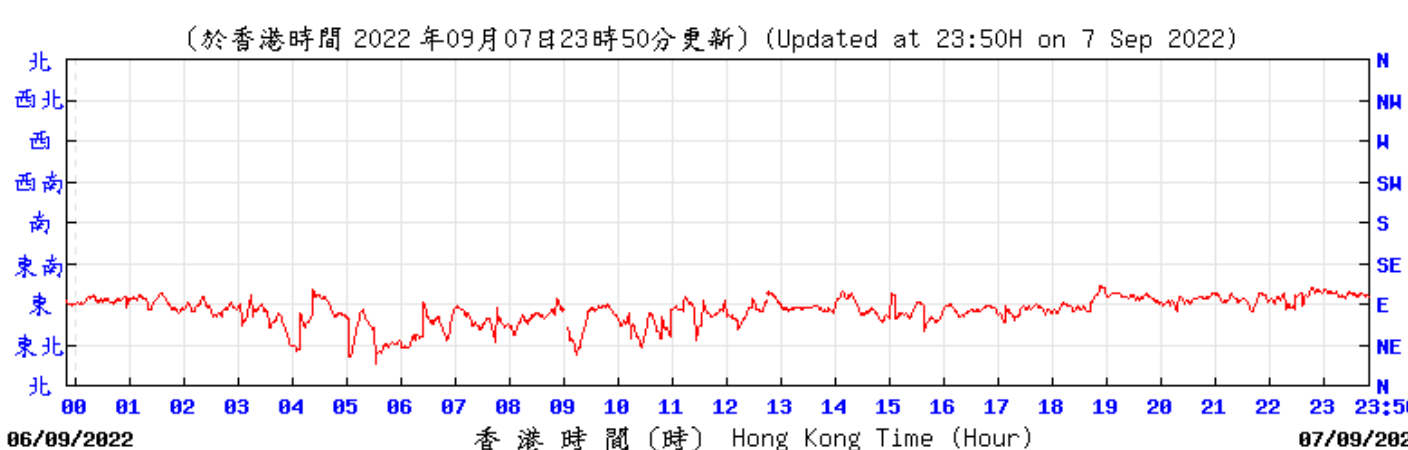
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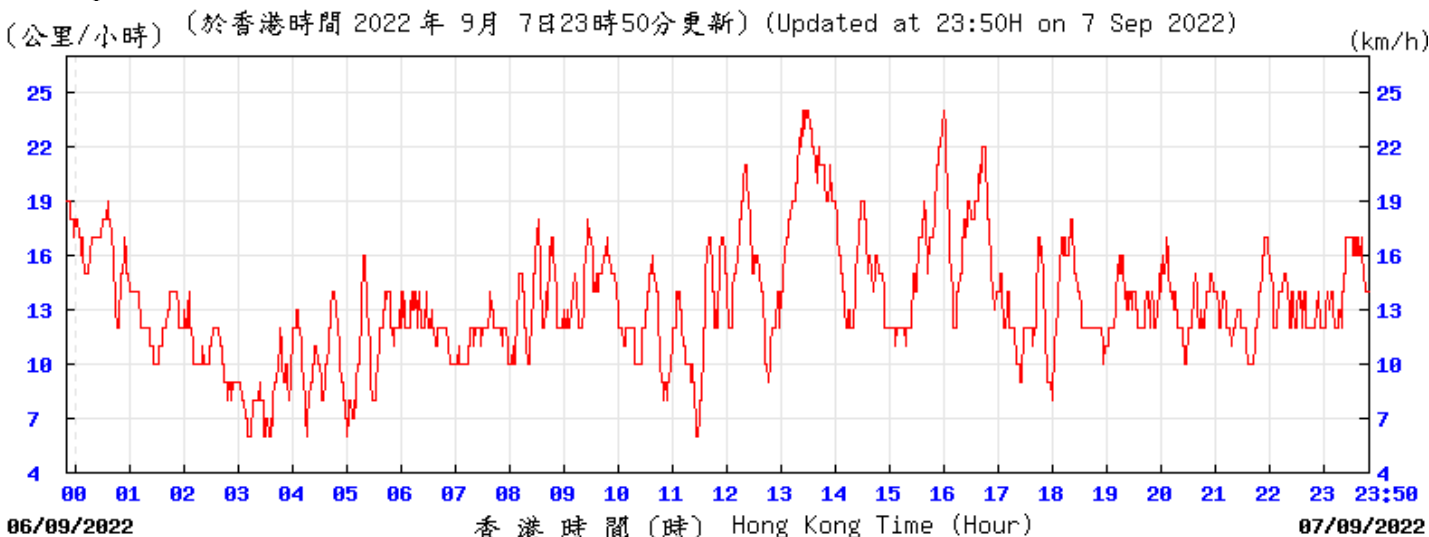
KPC
Pressure:



KPC
Wind Direction:



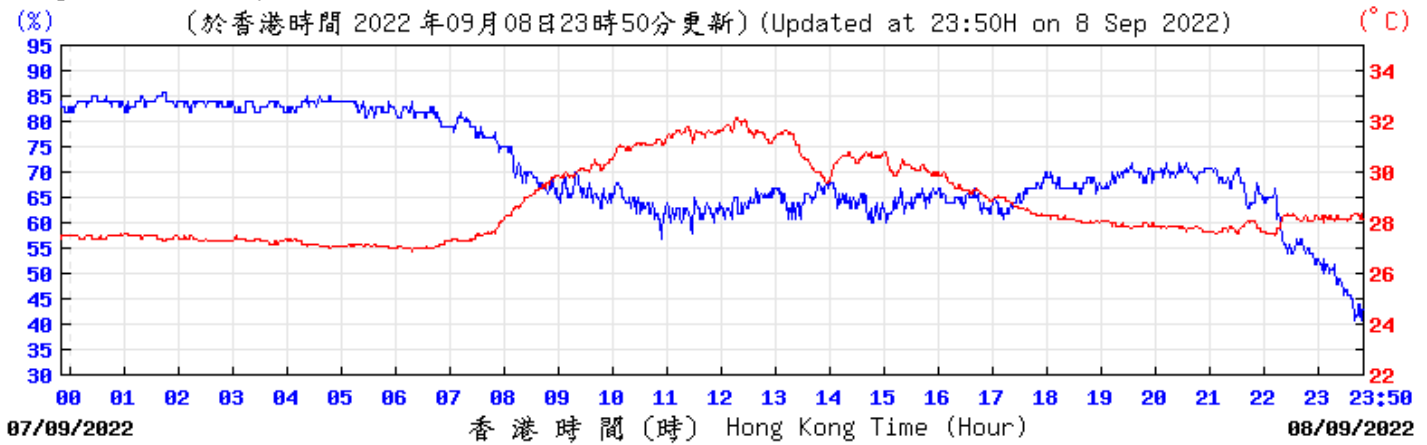
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Wind Speed:



KPC

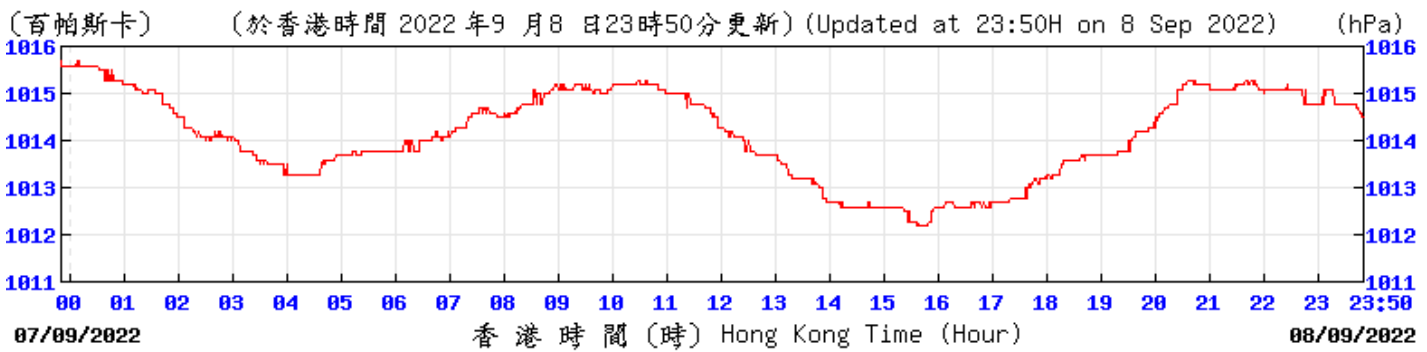
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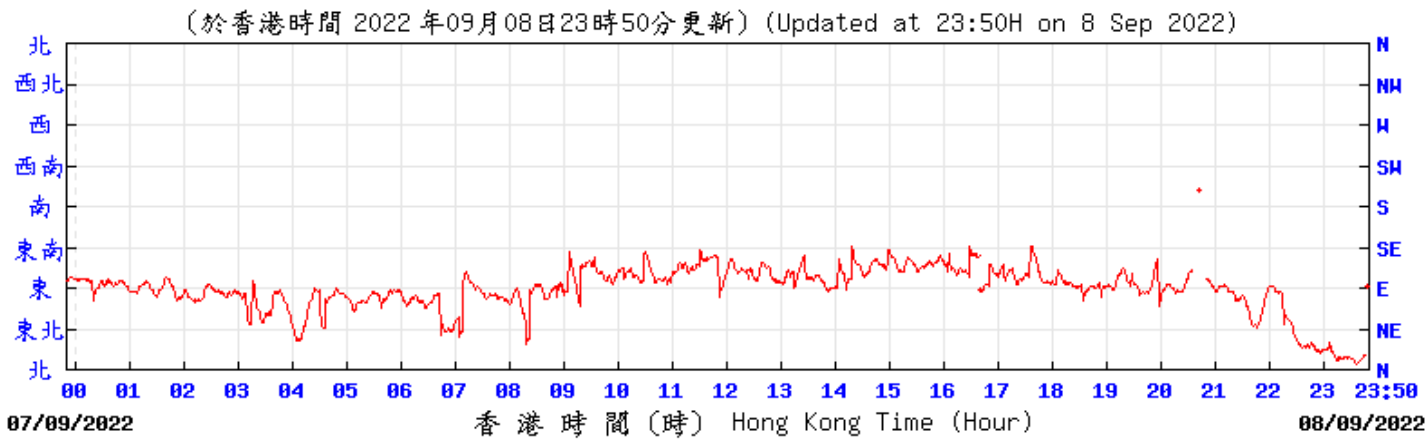
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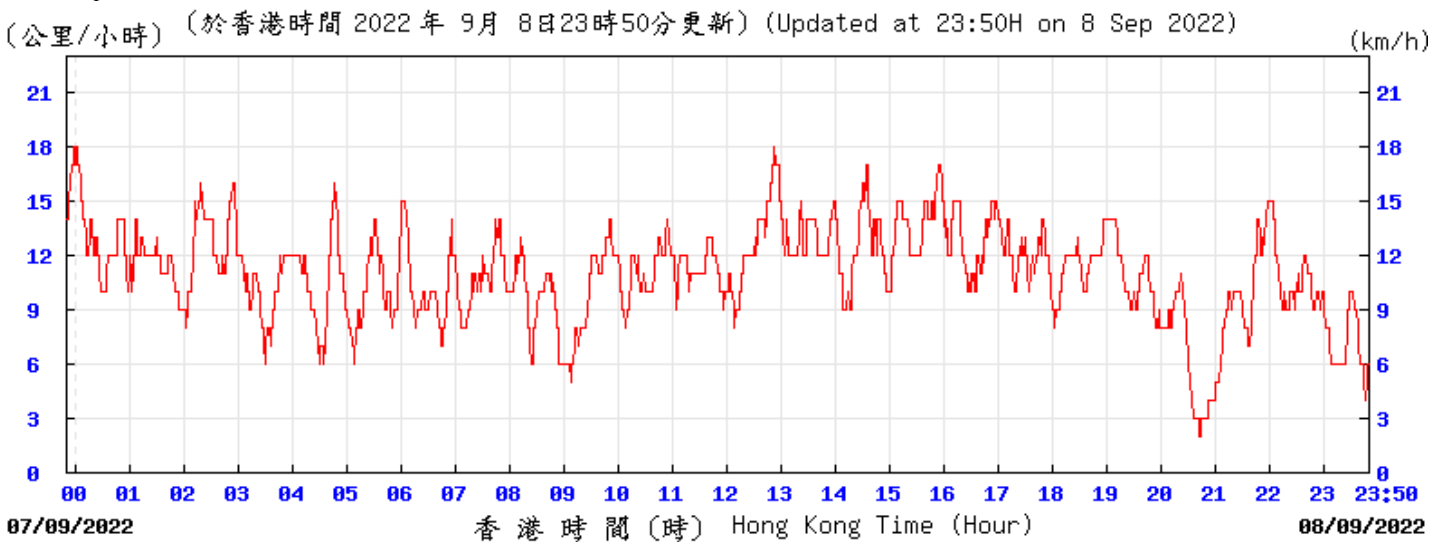
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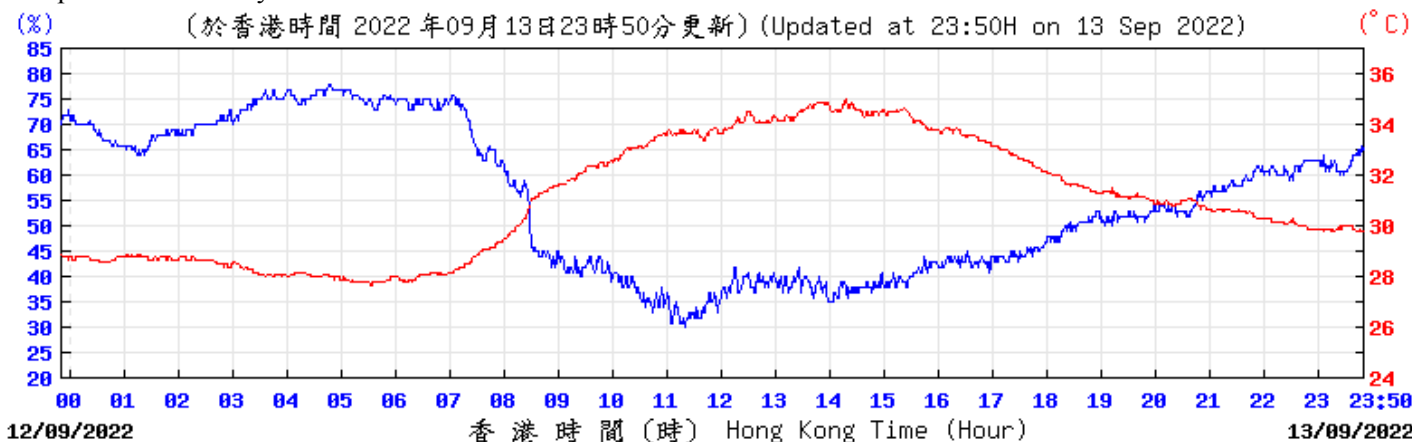
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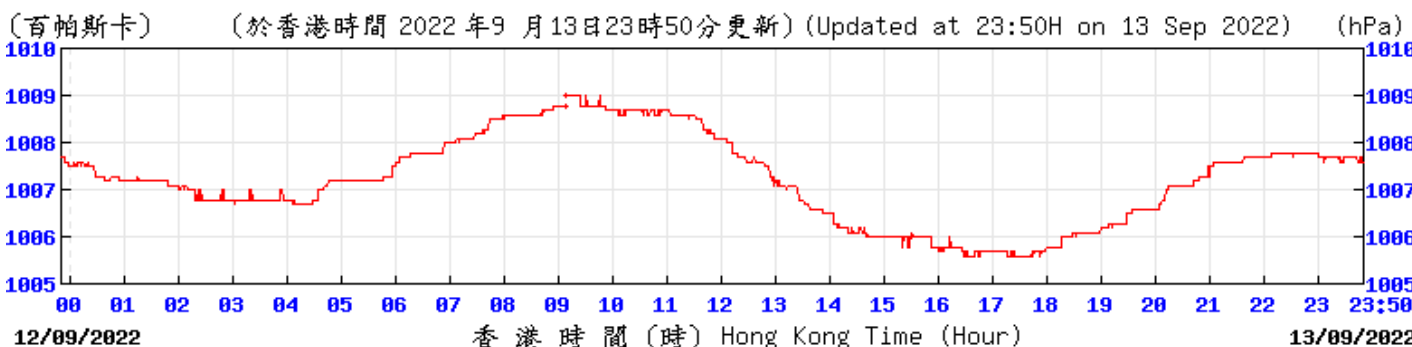
KPC © 香港天文台 Hong Kong Observatory

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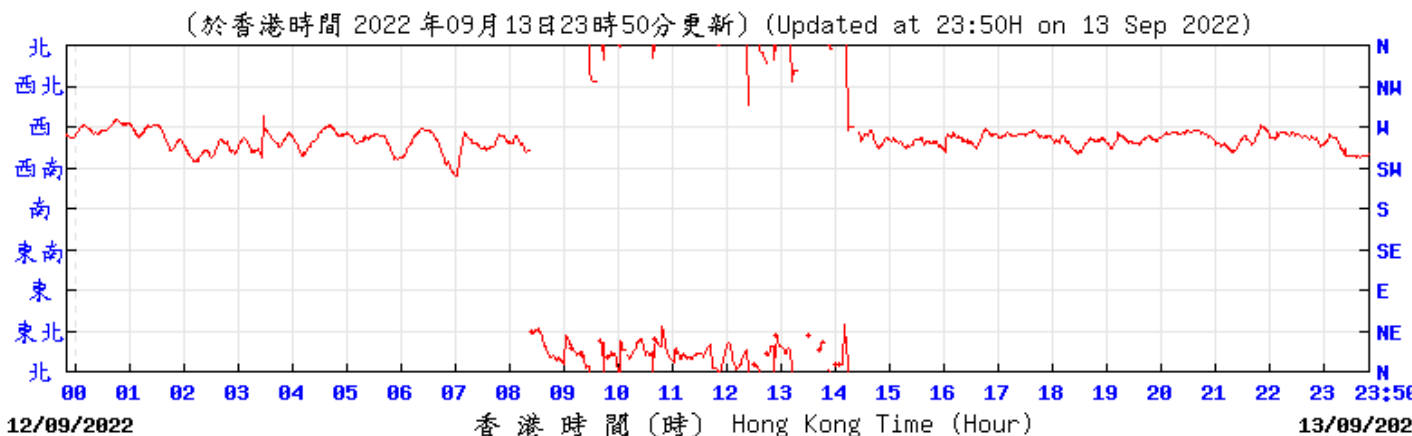
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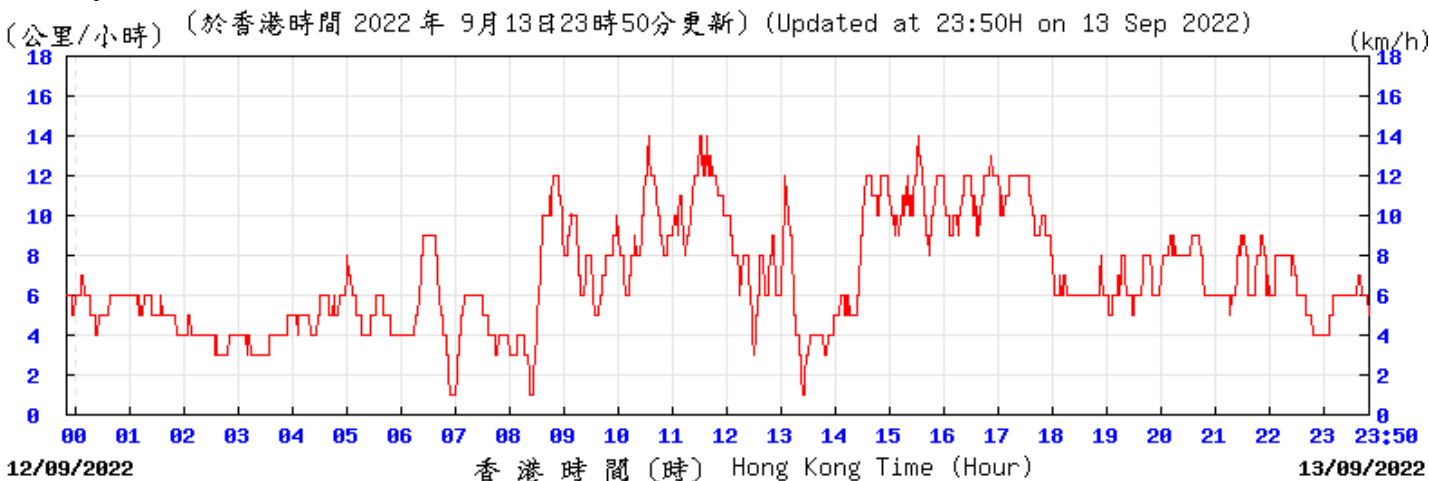
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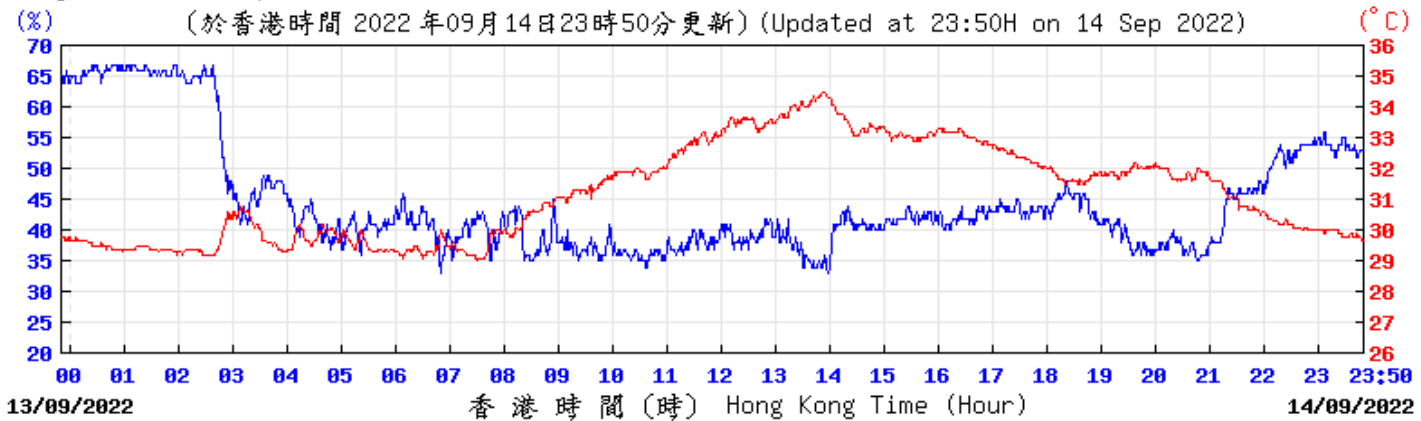
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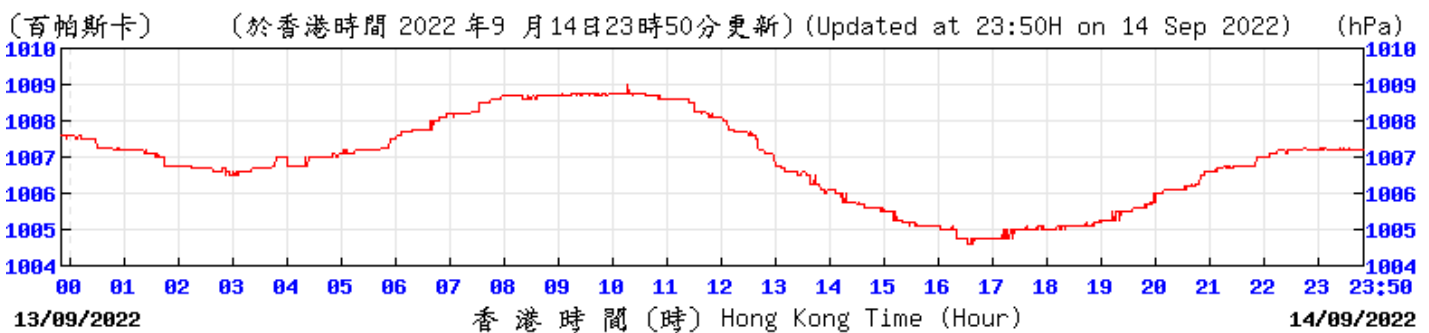
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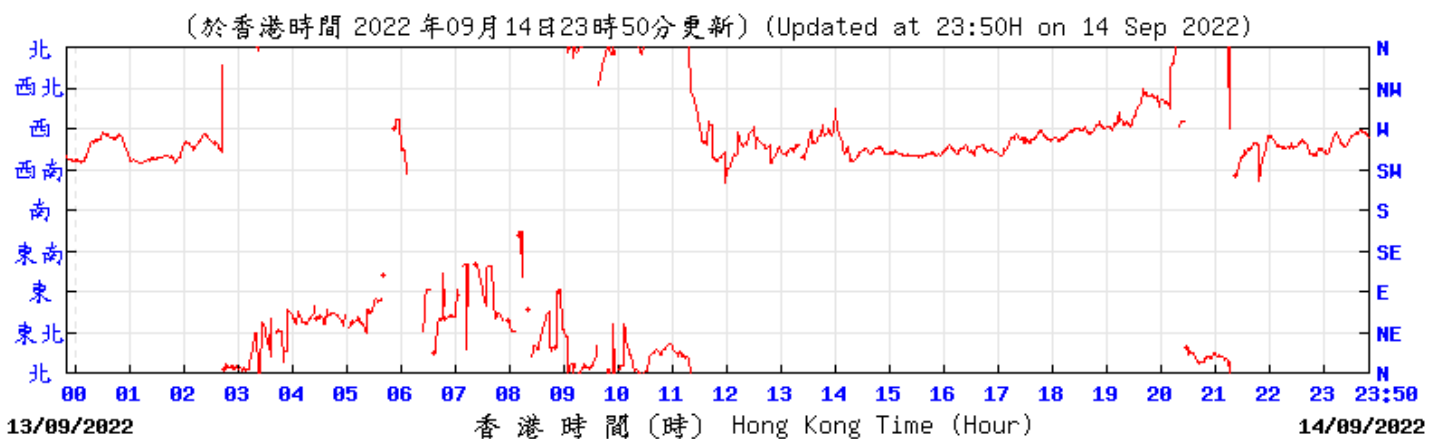
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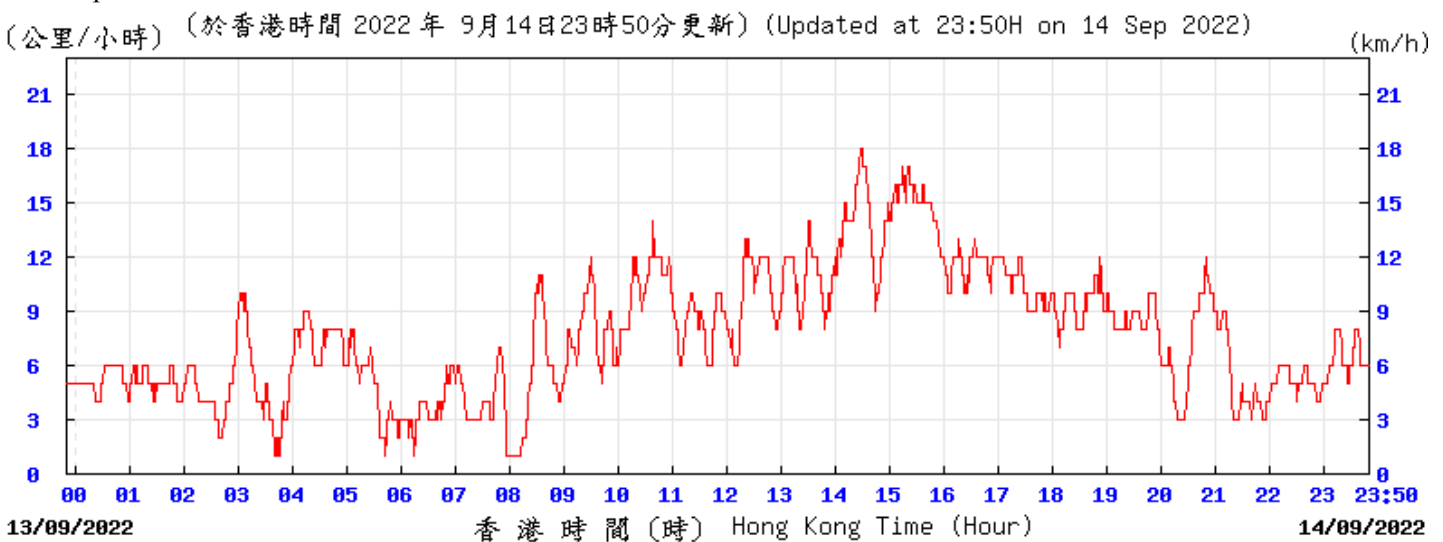
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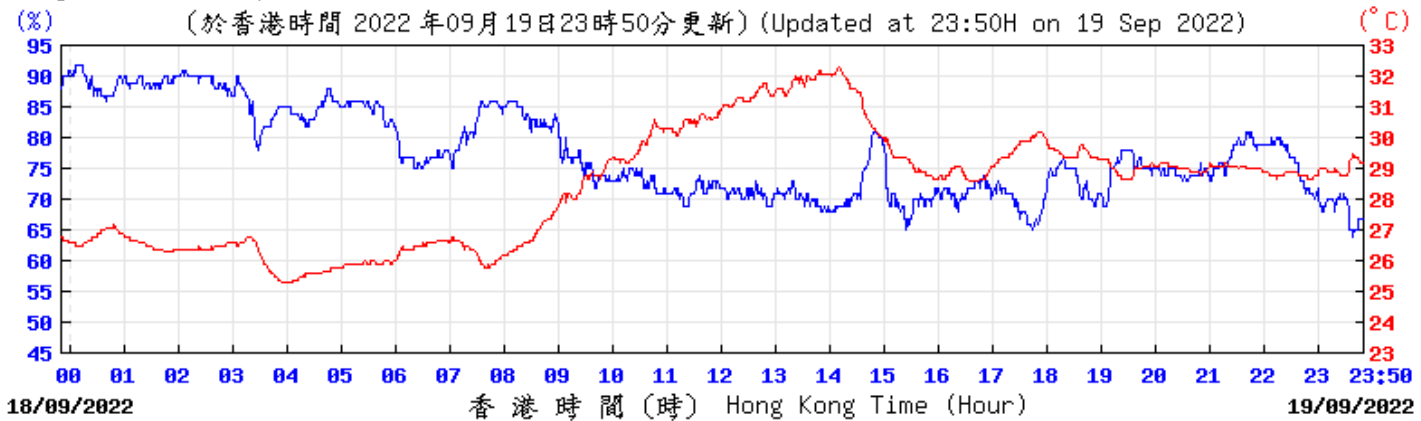
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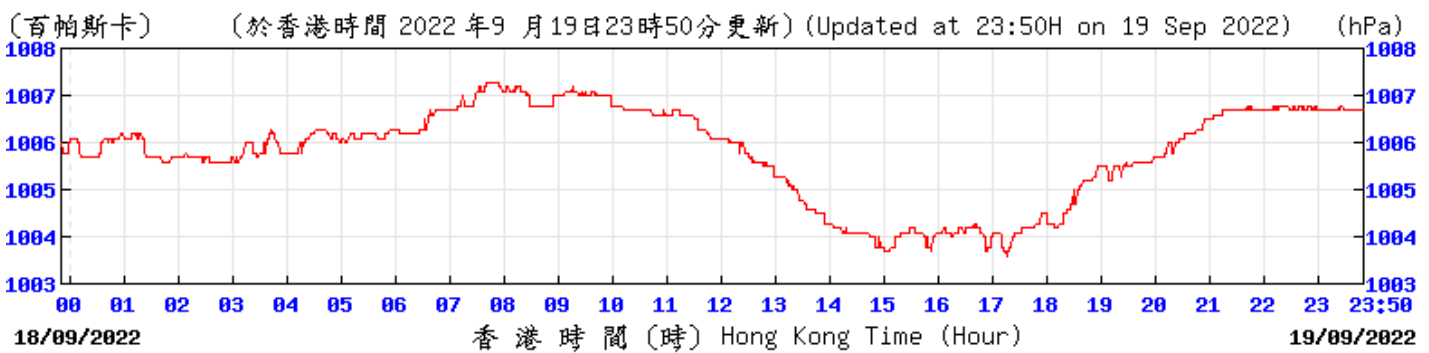
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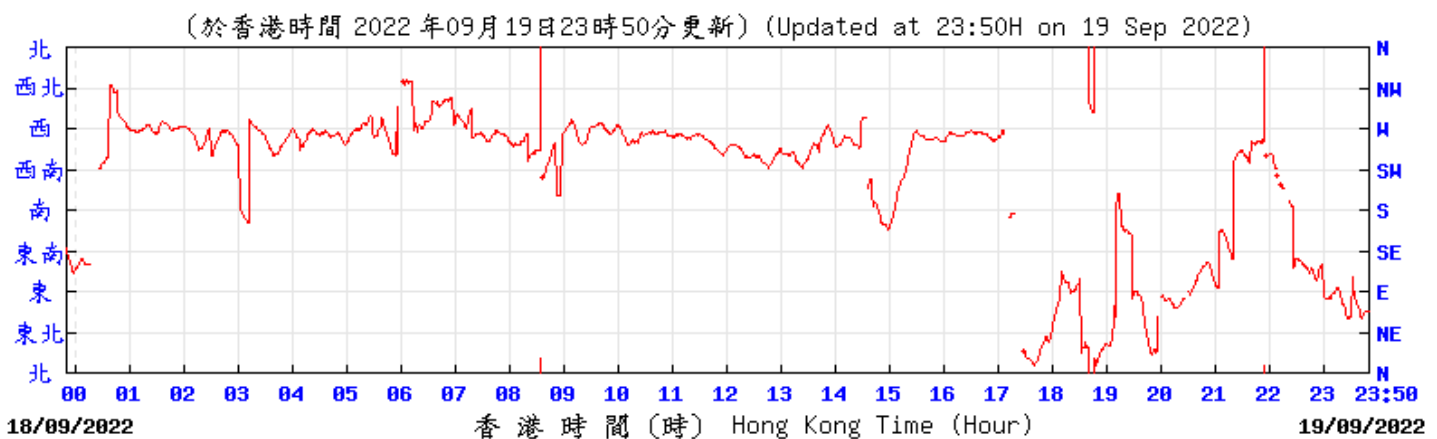
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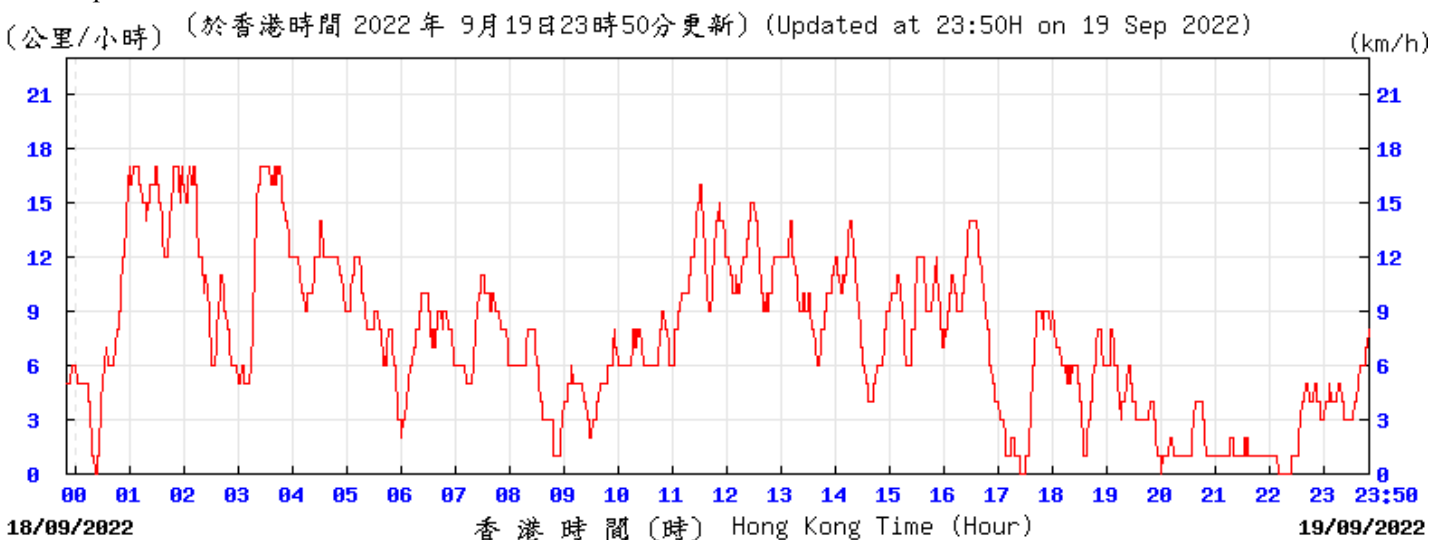
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Wind Direction:



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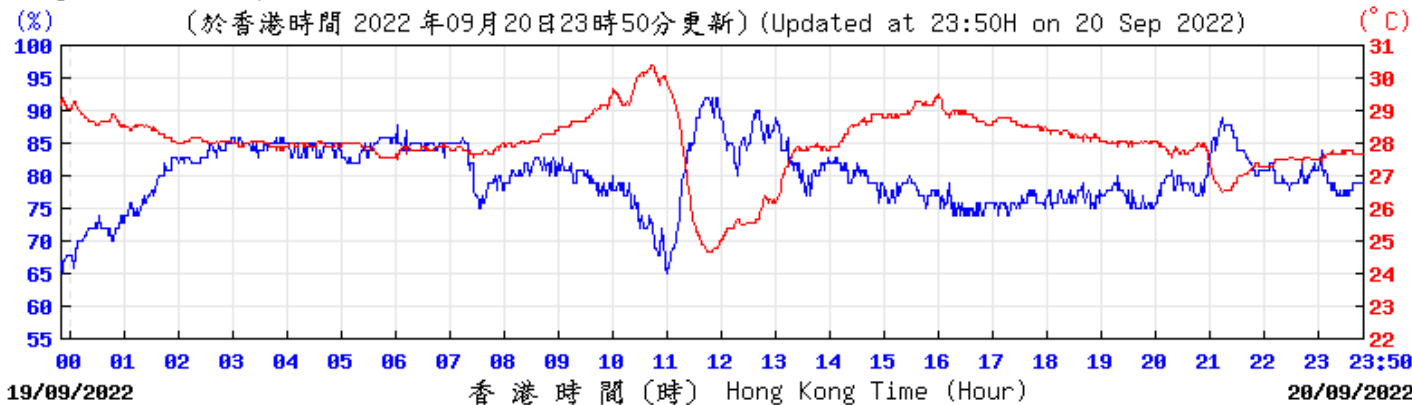
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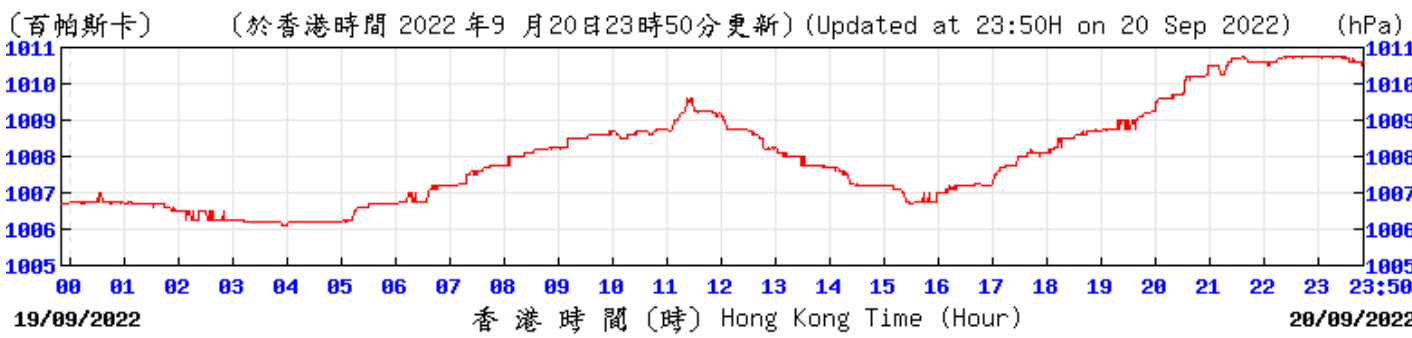
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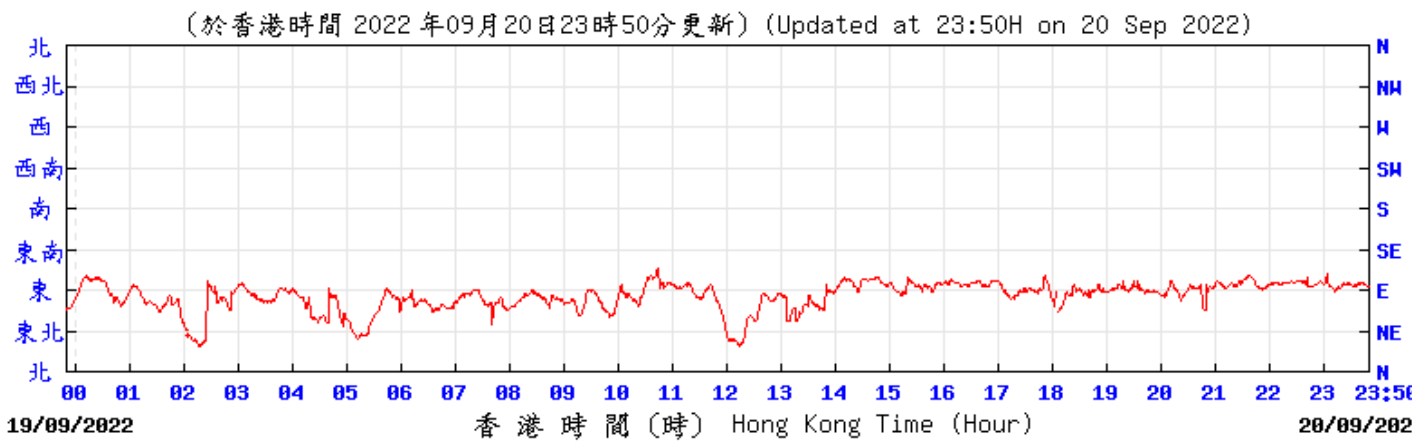
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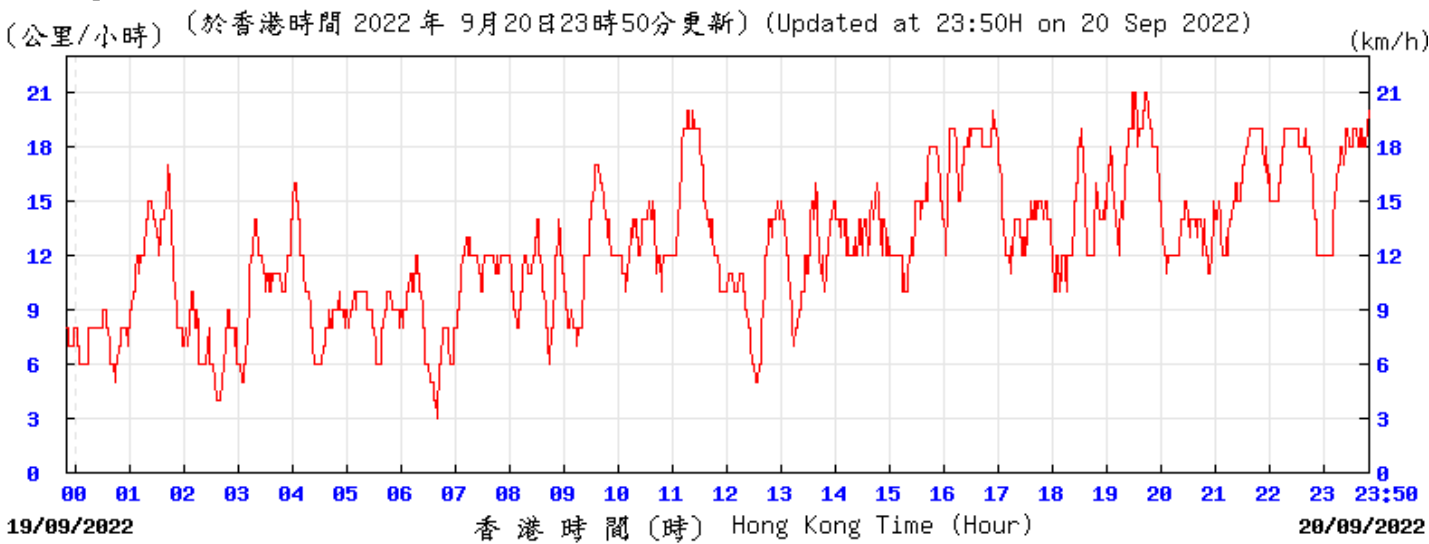
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Wind Direction:



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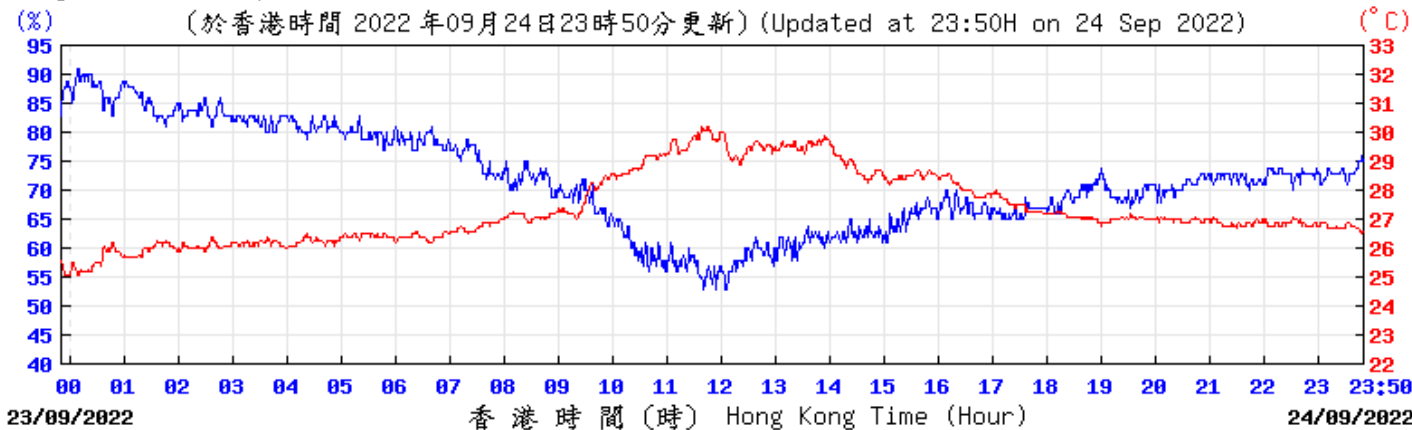
Wind Speed:



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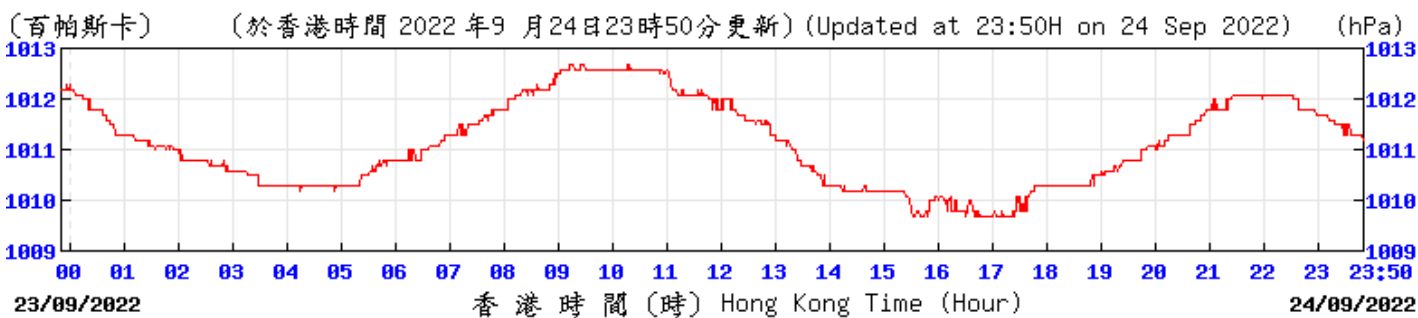
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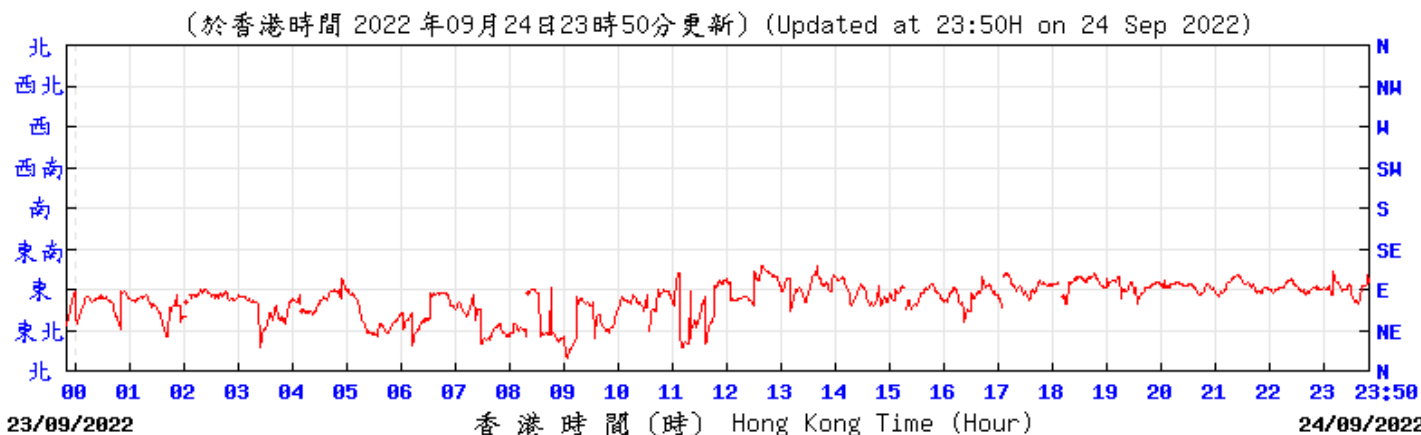
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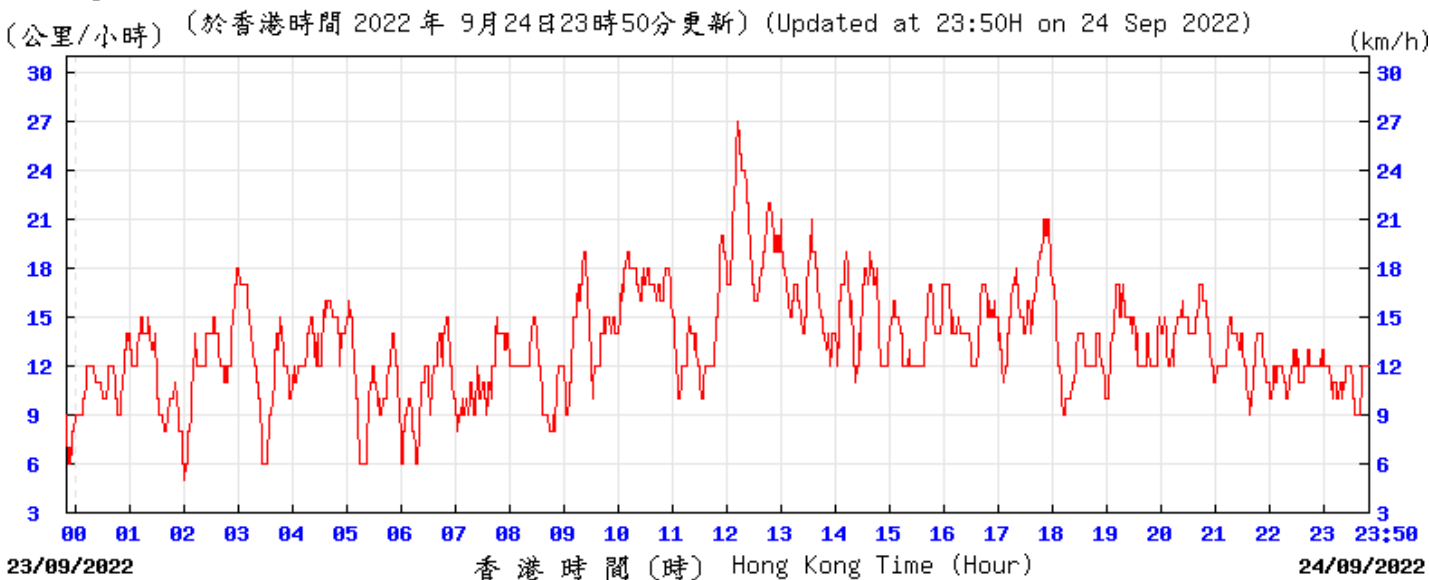
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Wind Direction:



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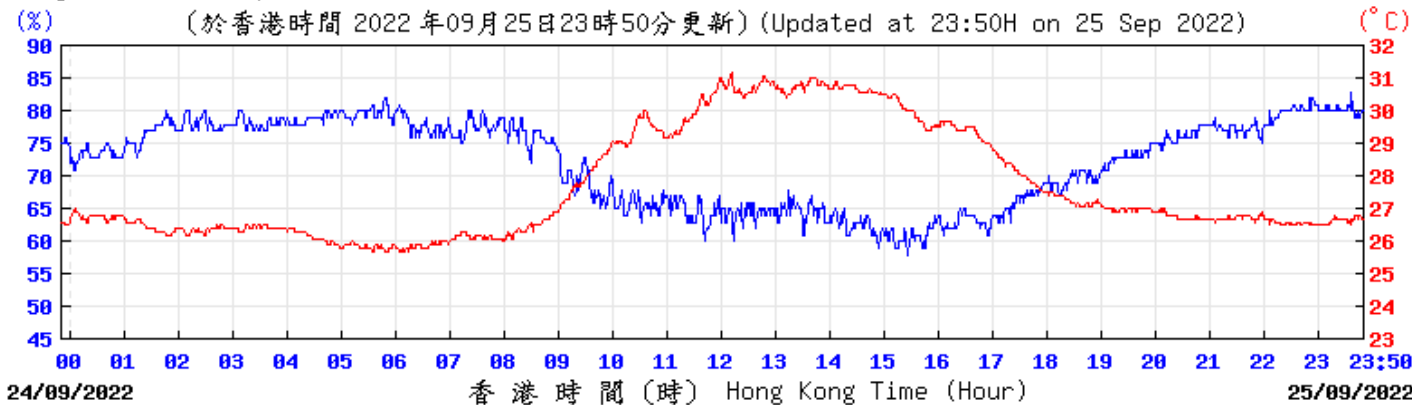
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KPC

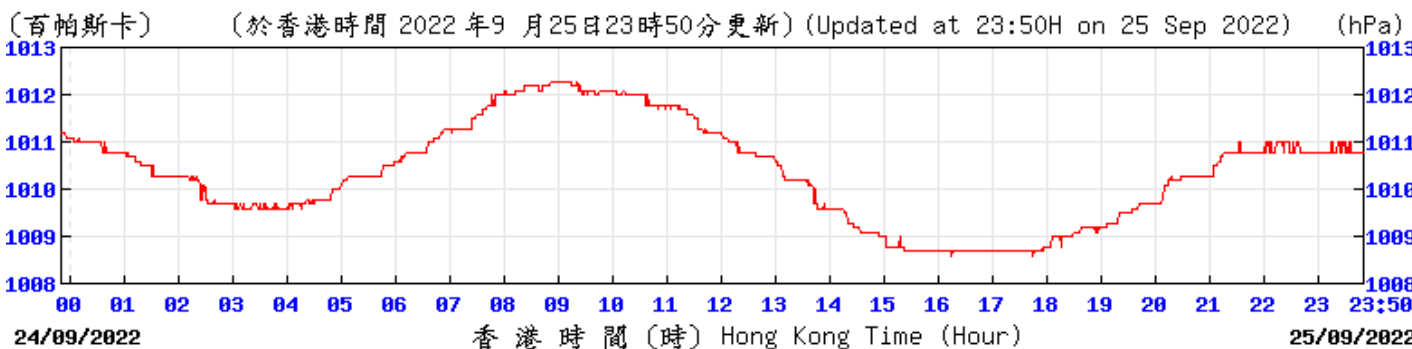
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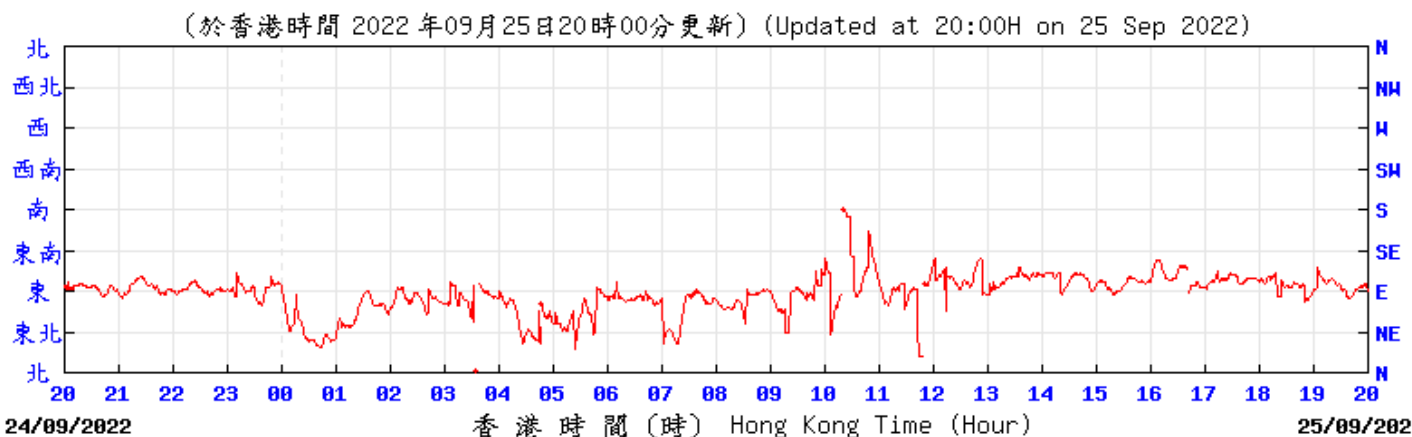
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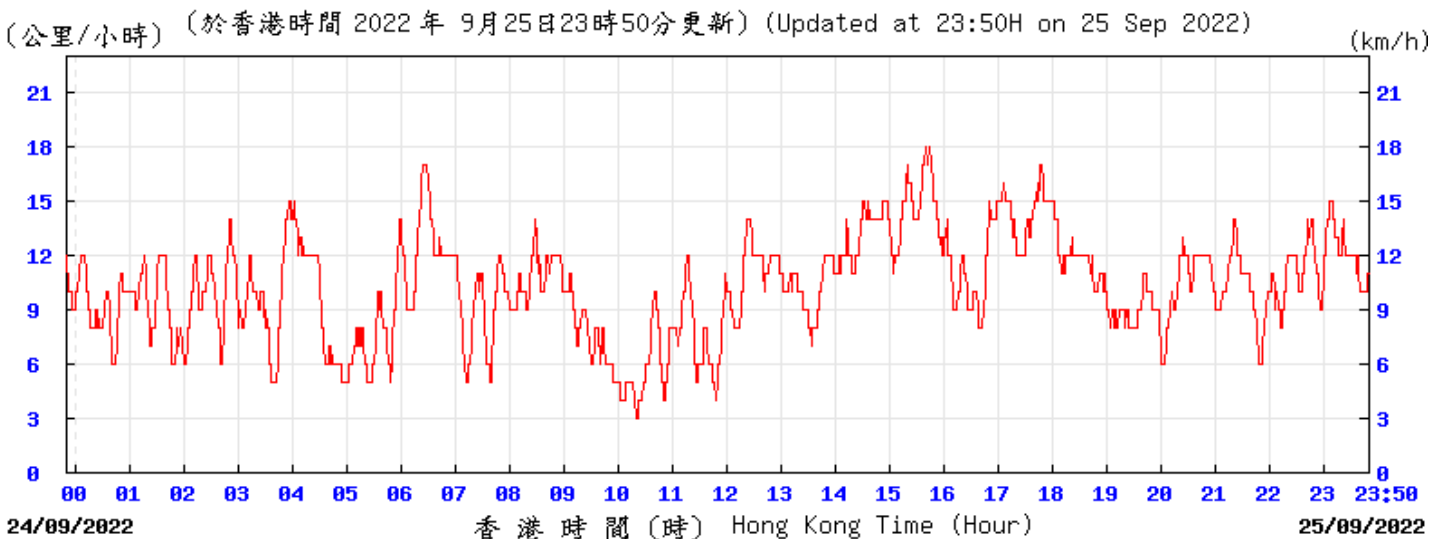
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Wind Direction:



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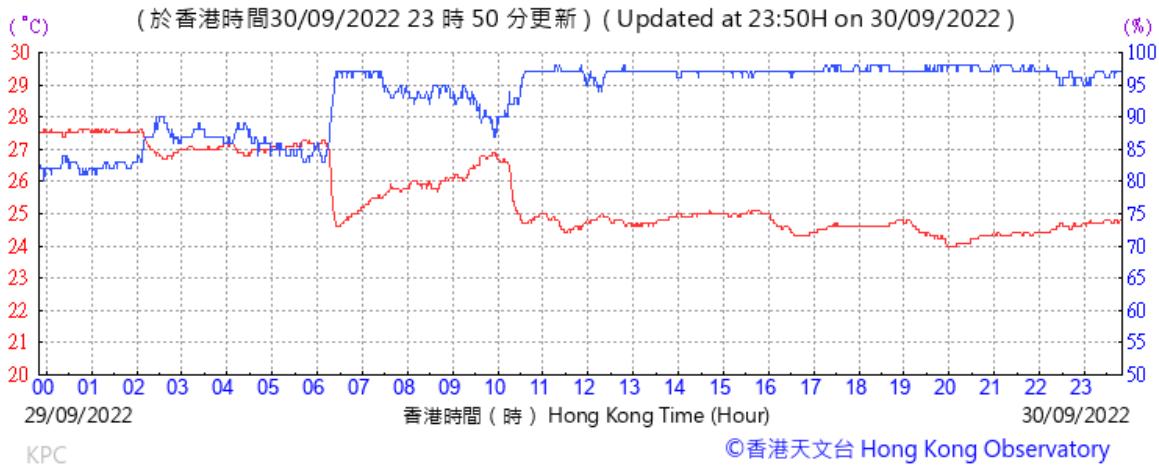
Wind Speed:



KPC

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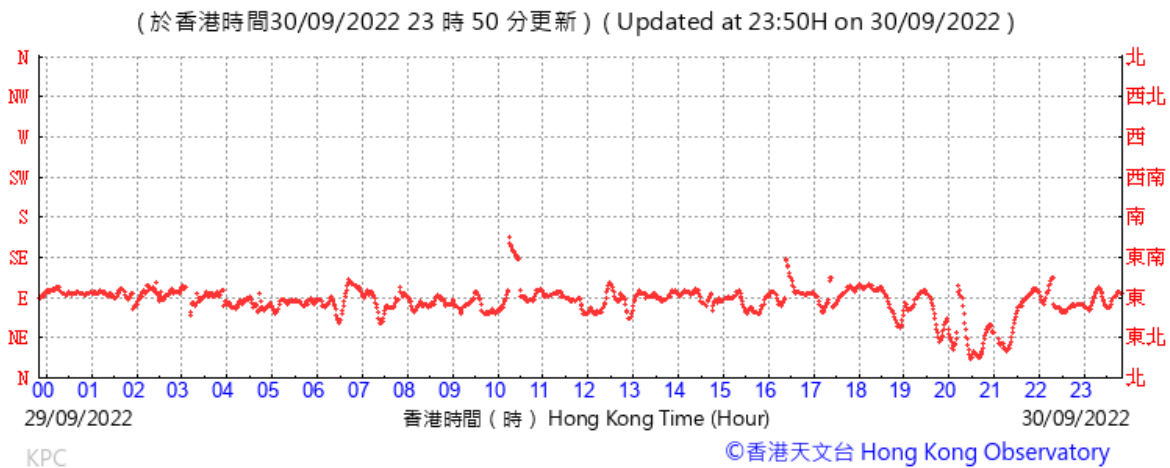
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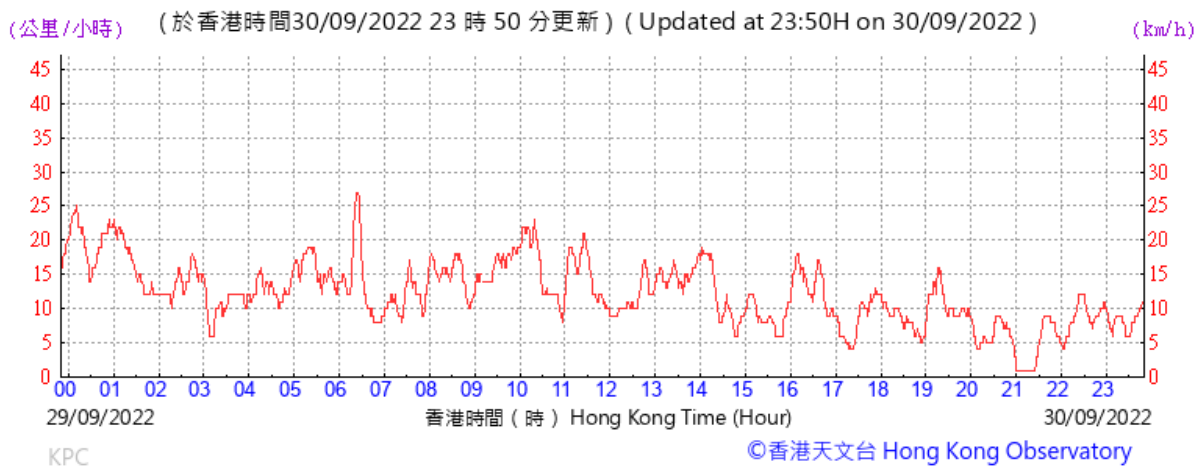
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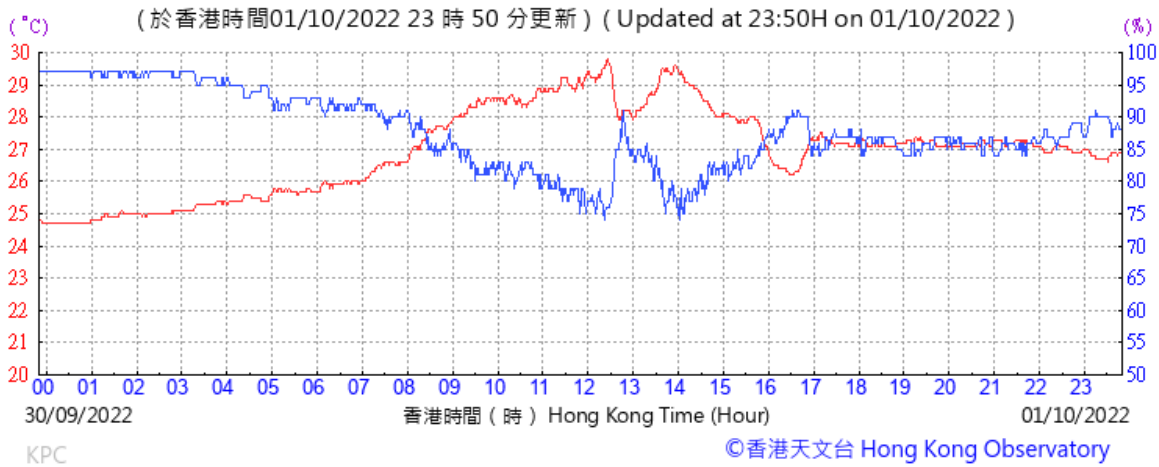
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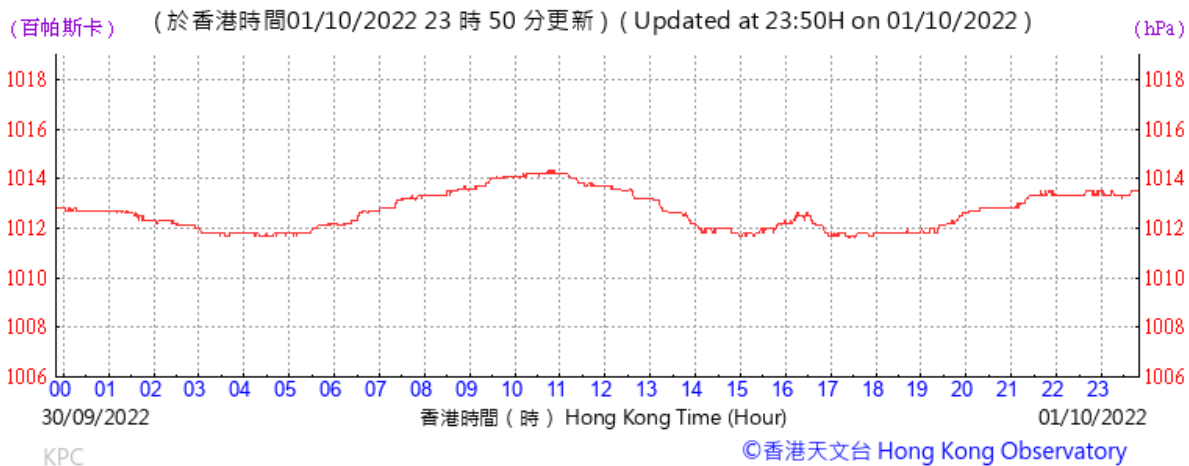
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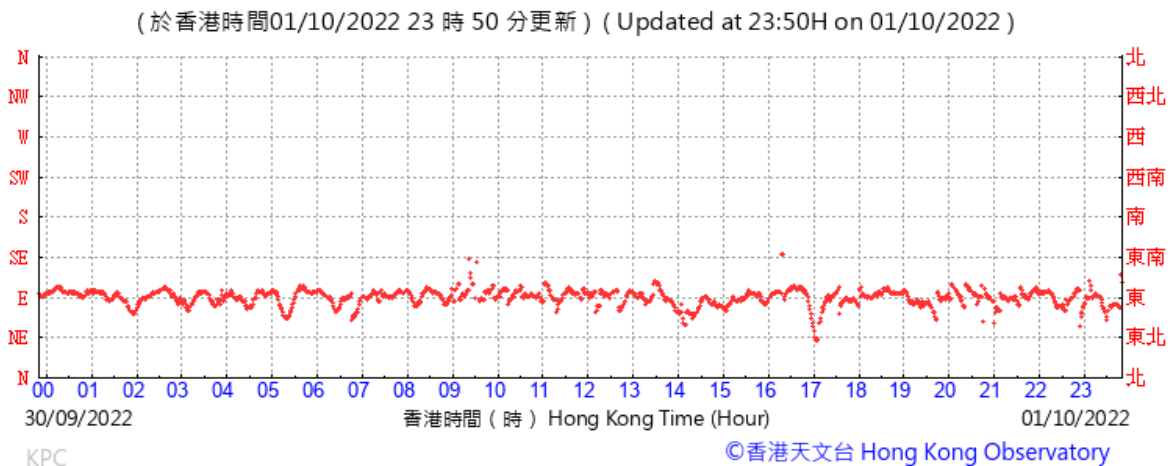
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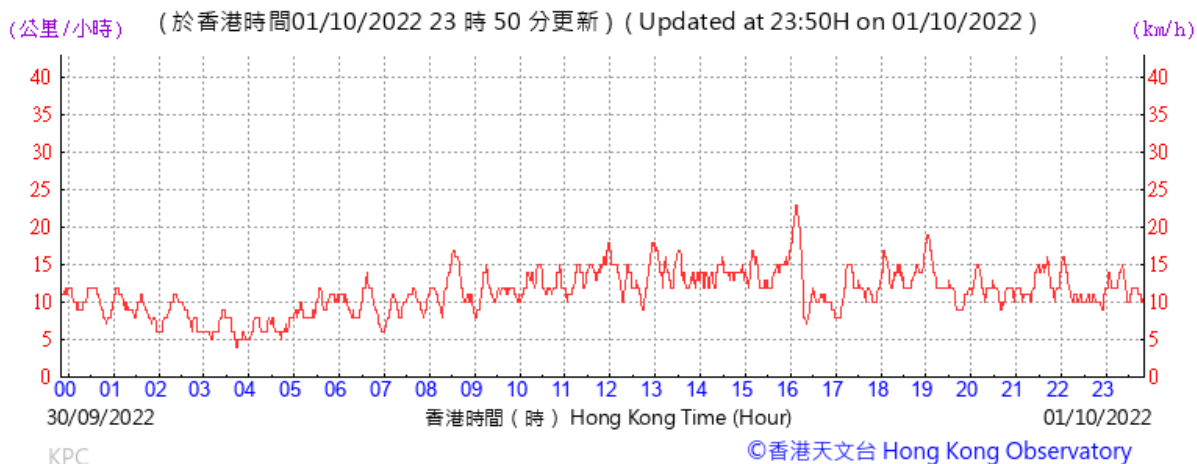
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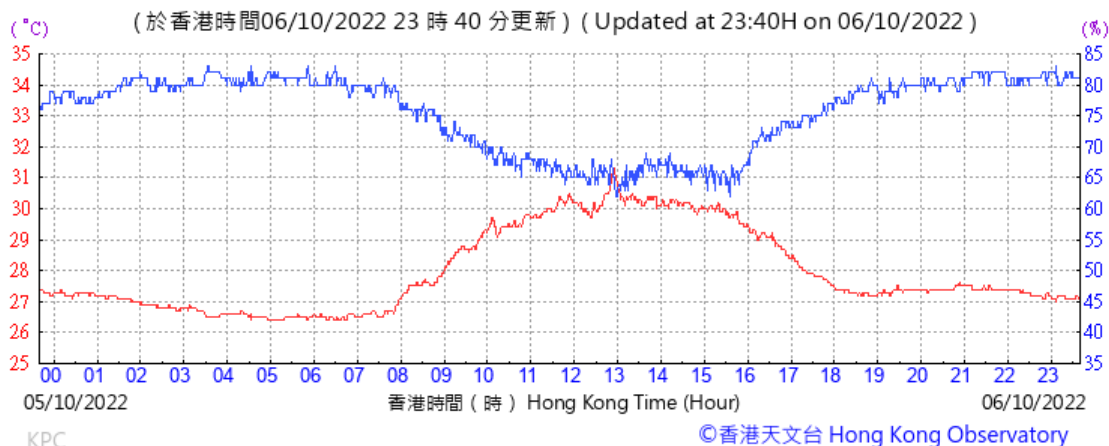


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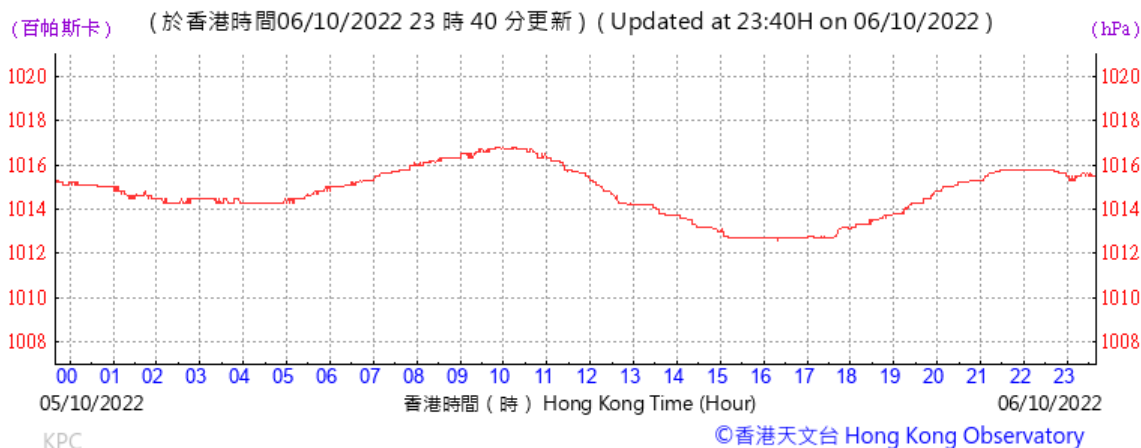


Extract of Meteorological Observations for King's Park Automatic Weather Station, October 2022

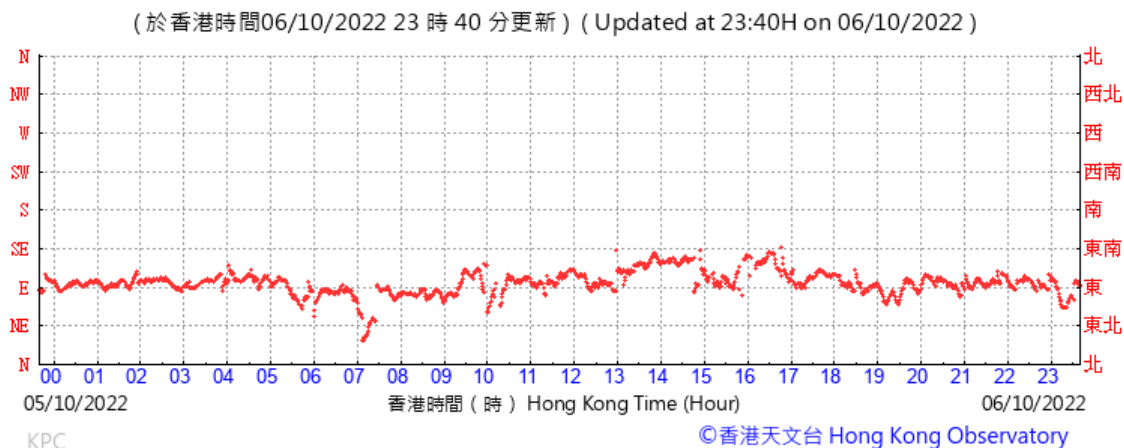
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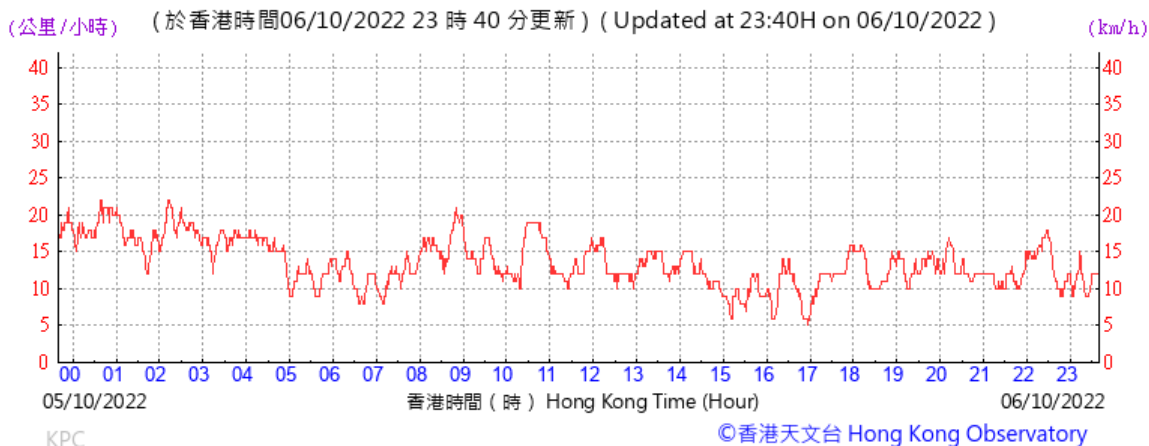
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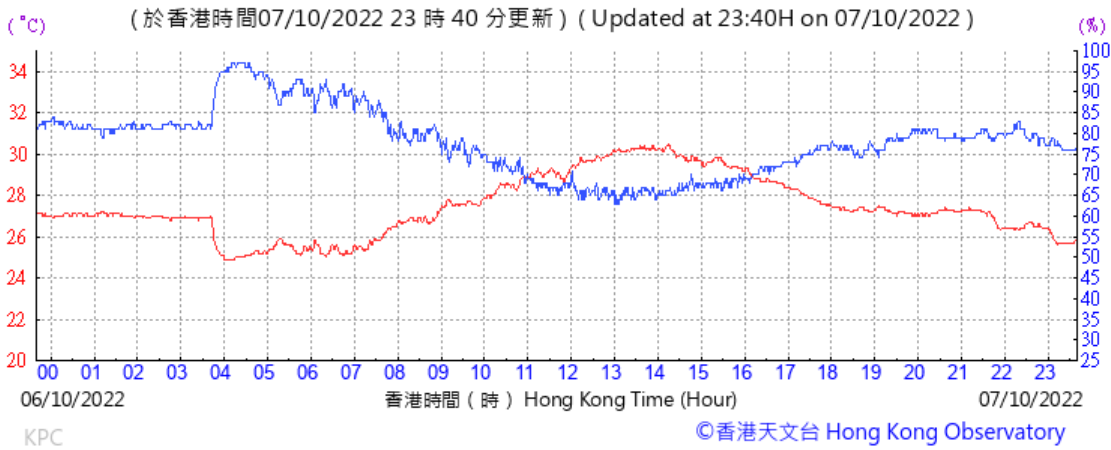
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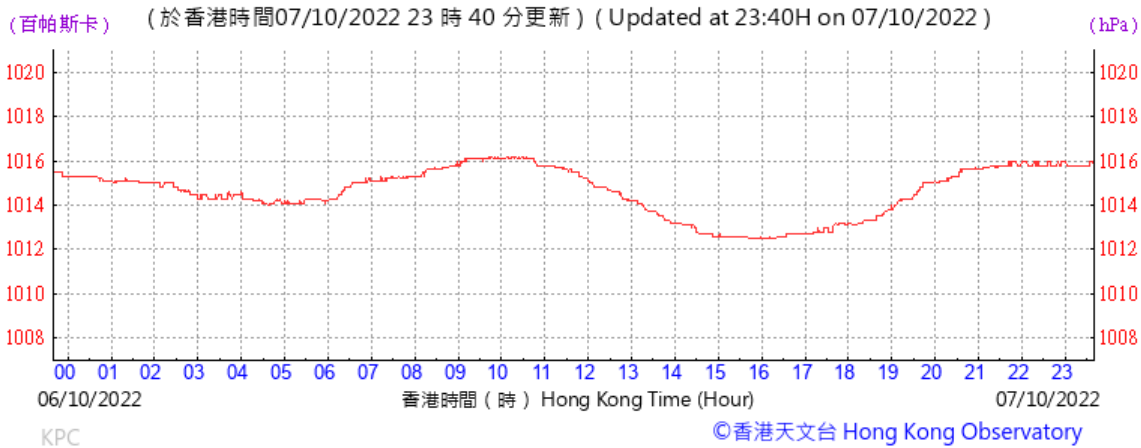
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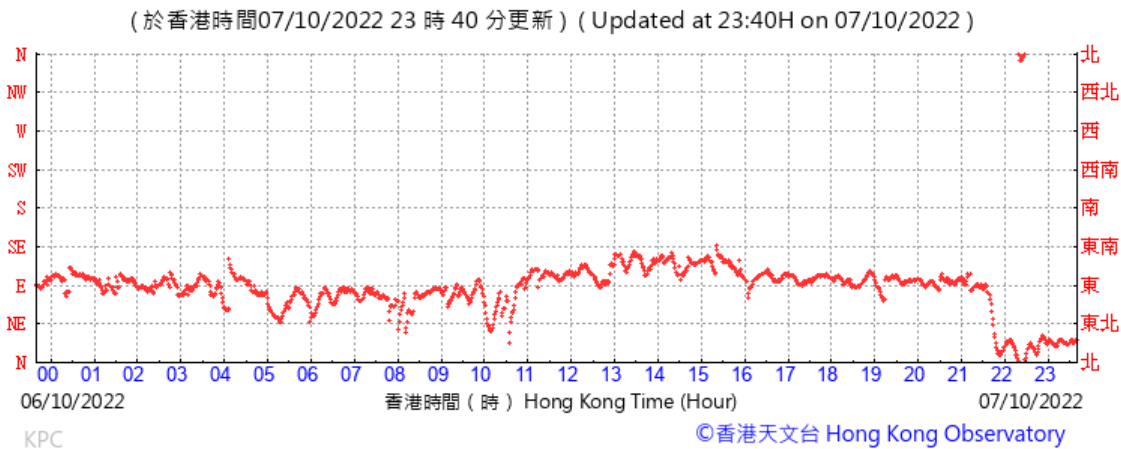
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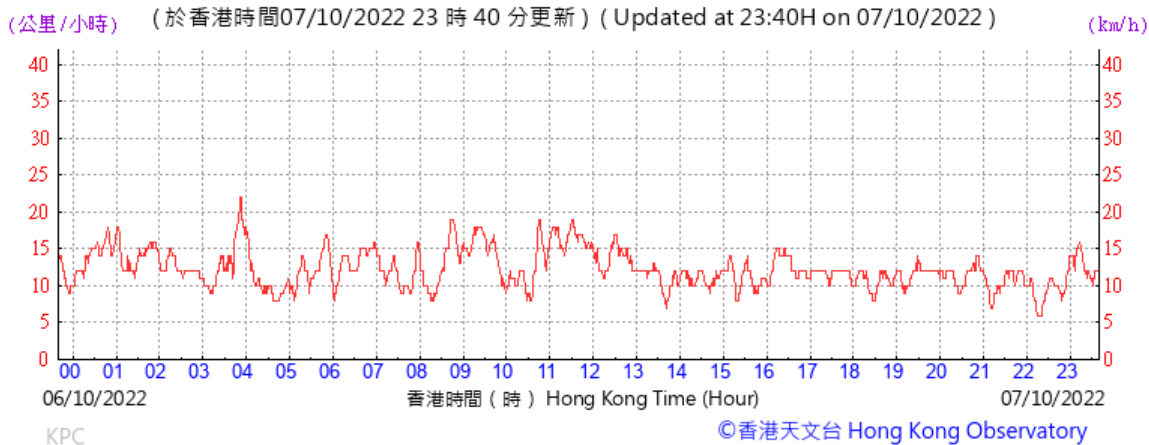
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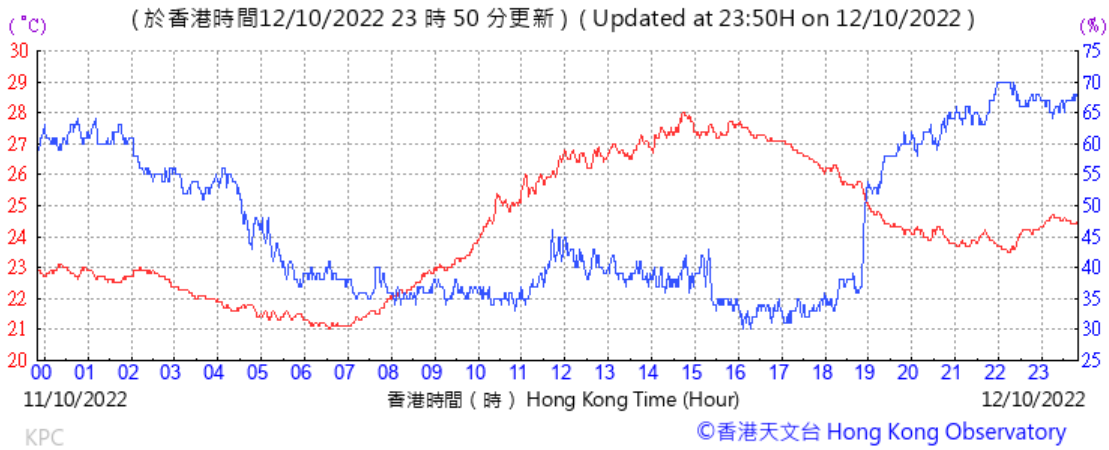
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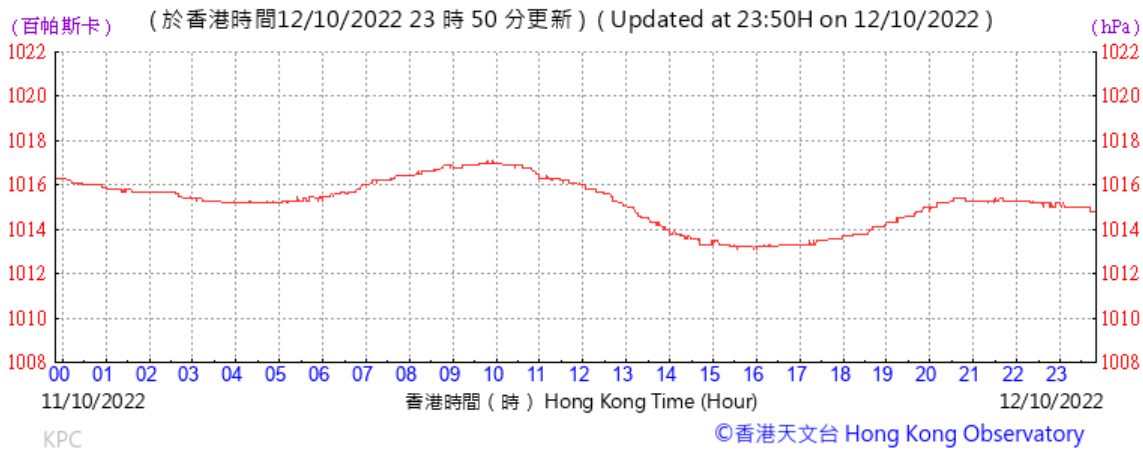
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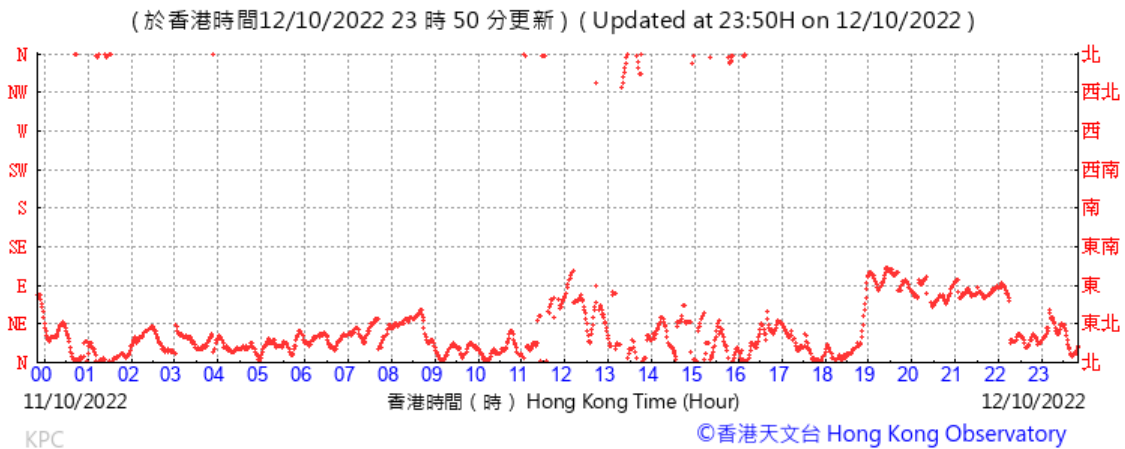
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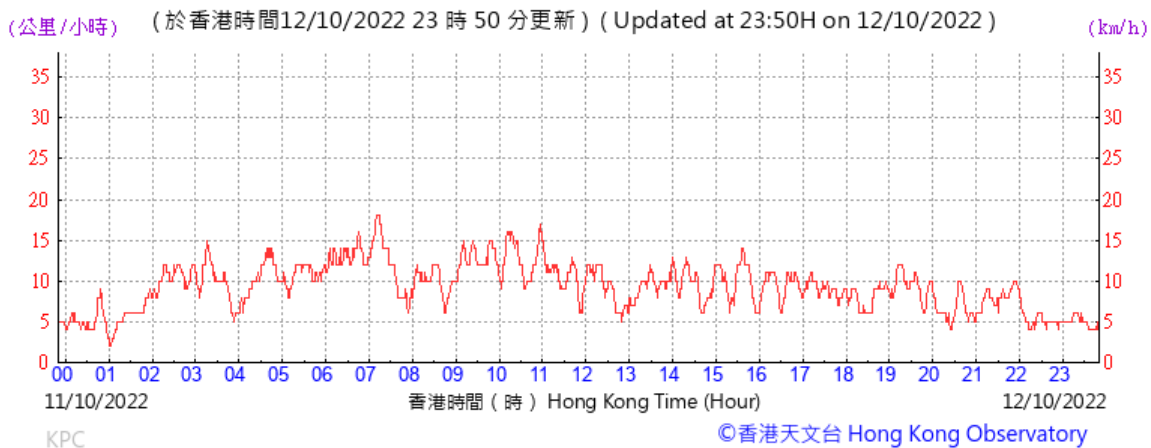
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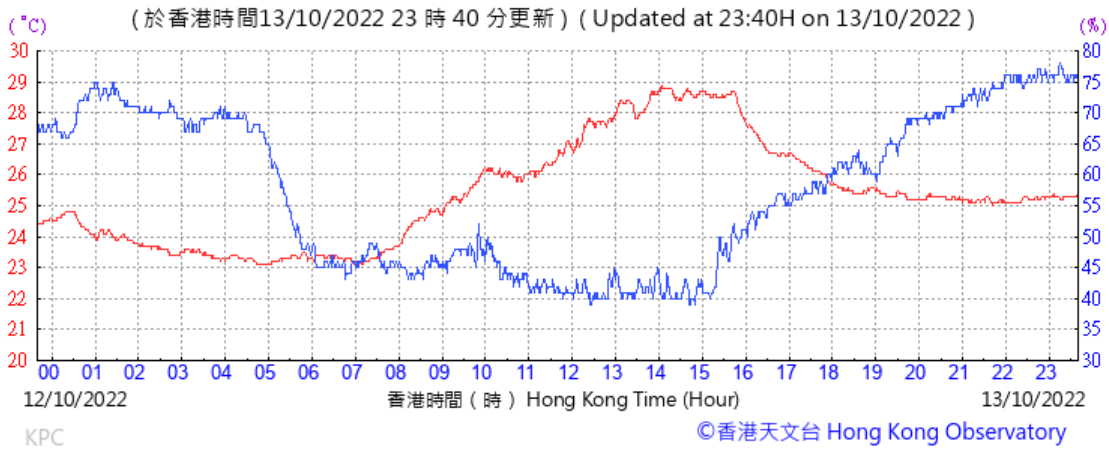
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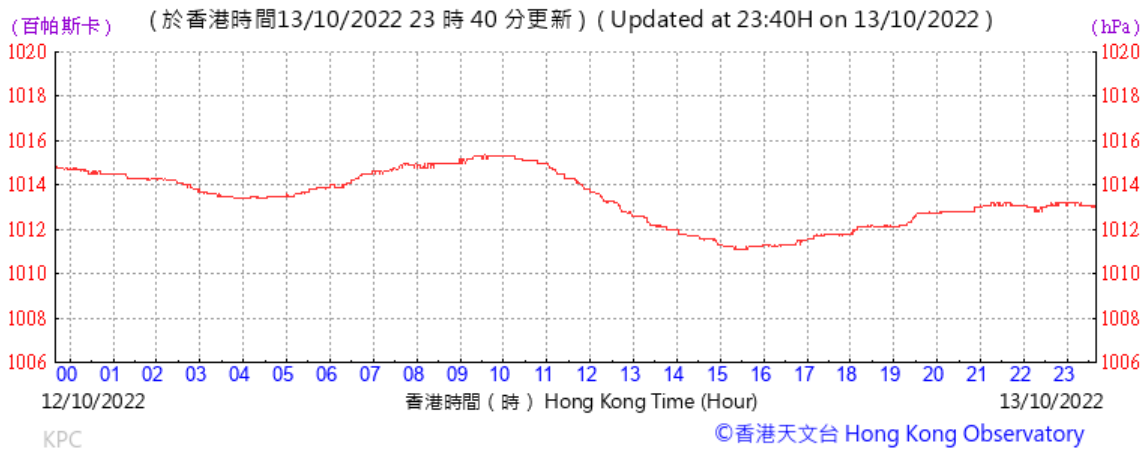
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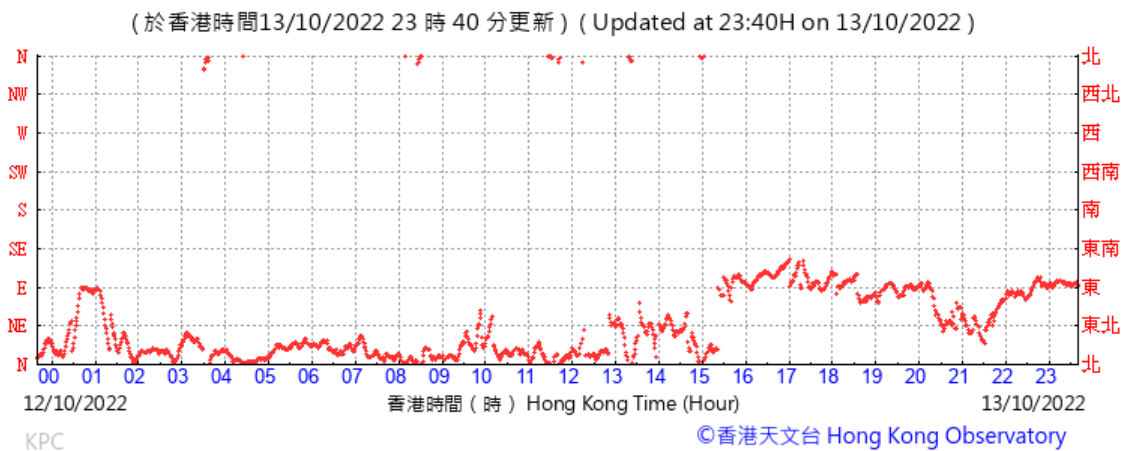
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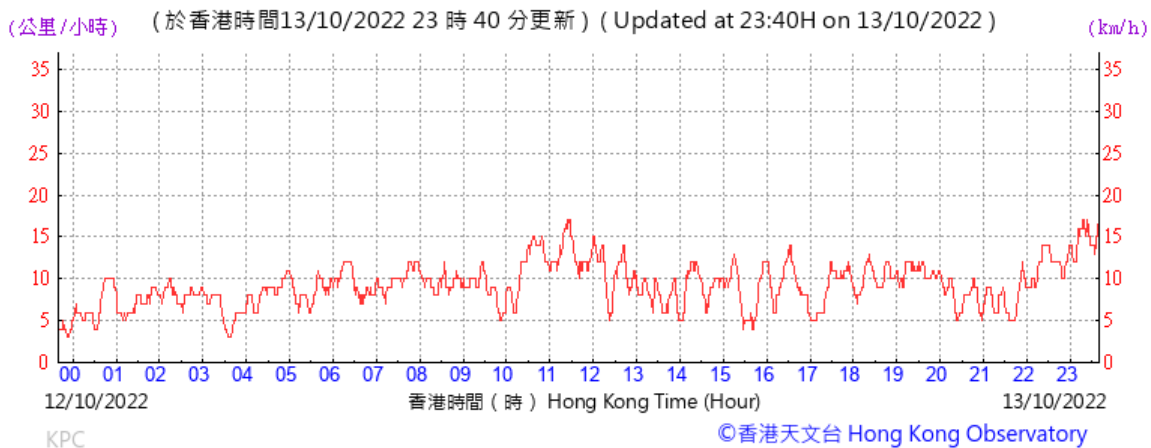
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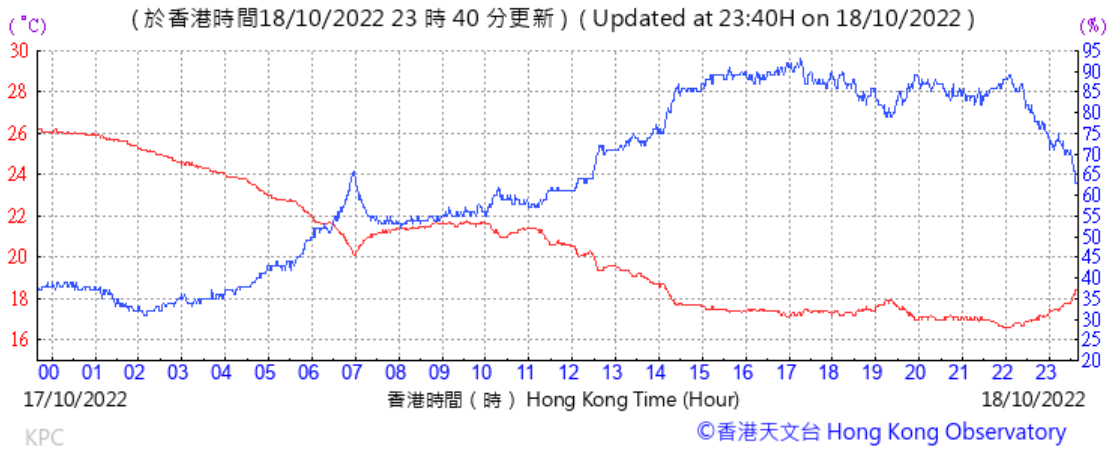
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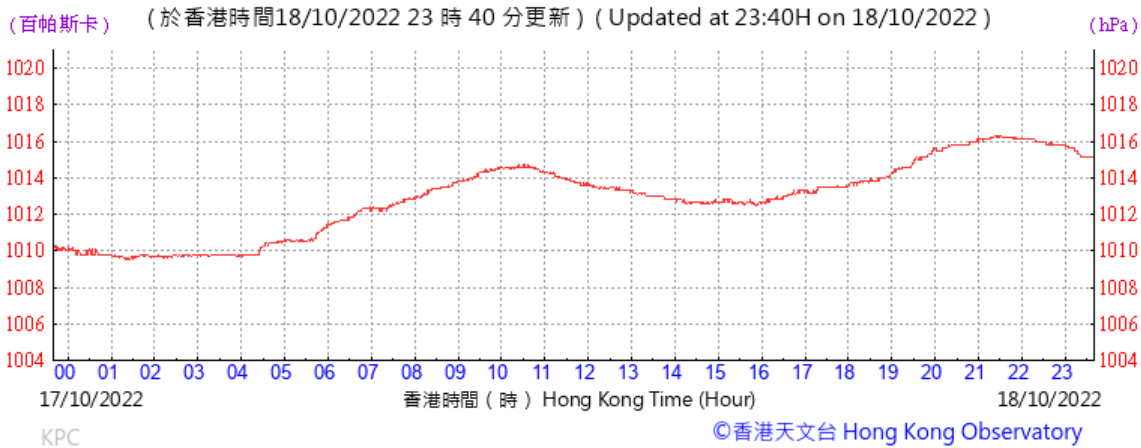
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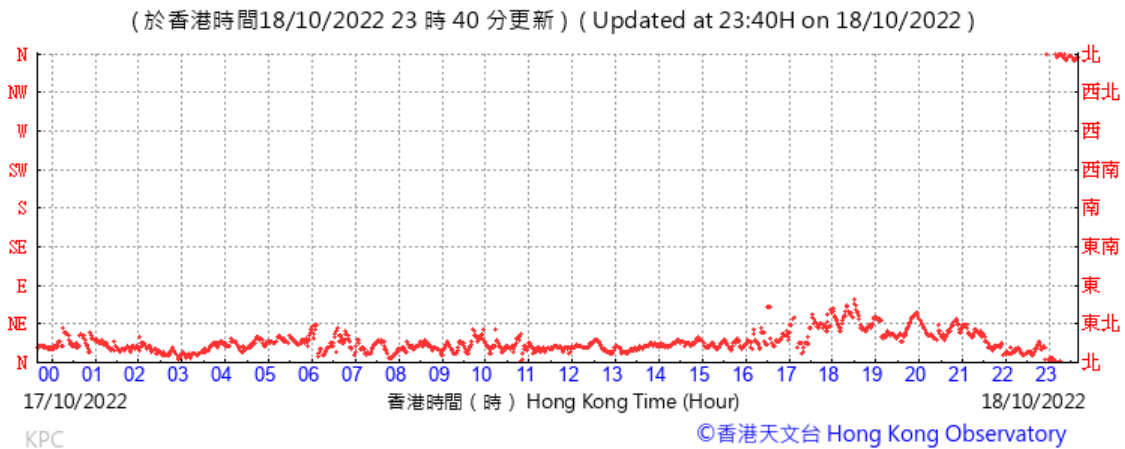
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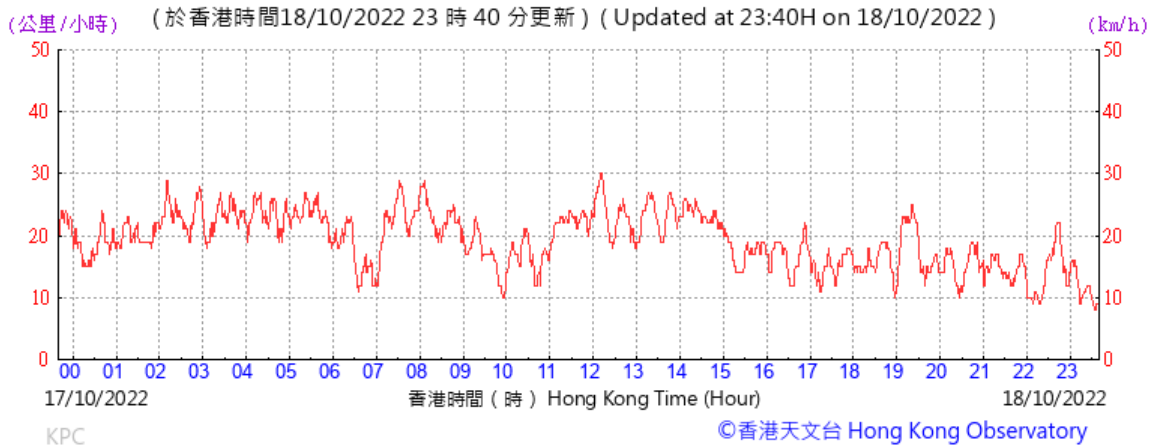
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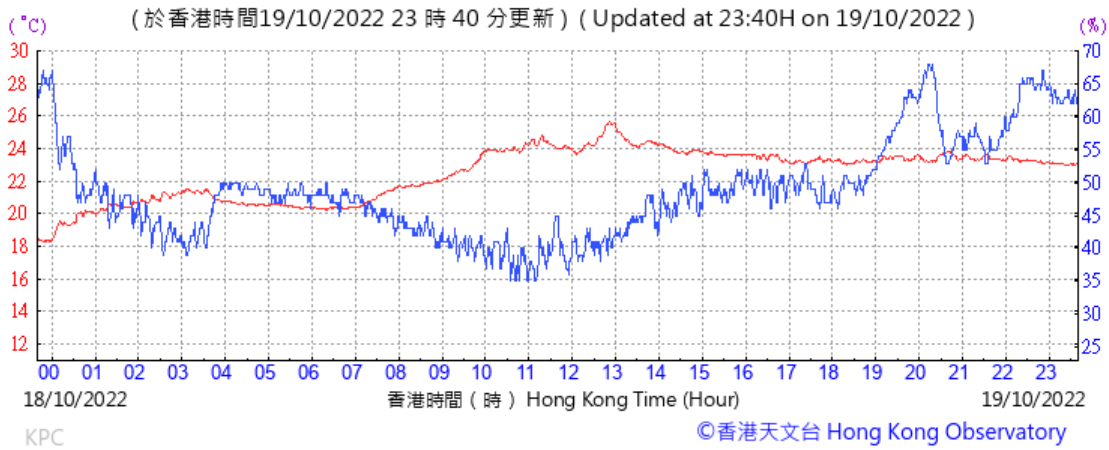
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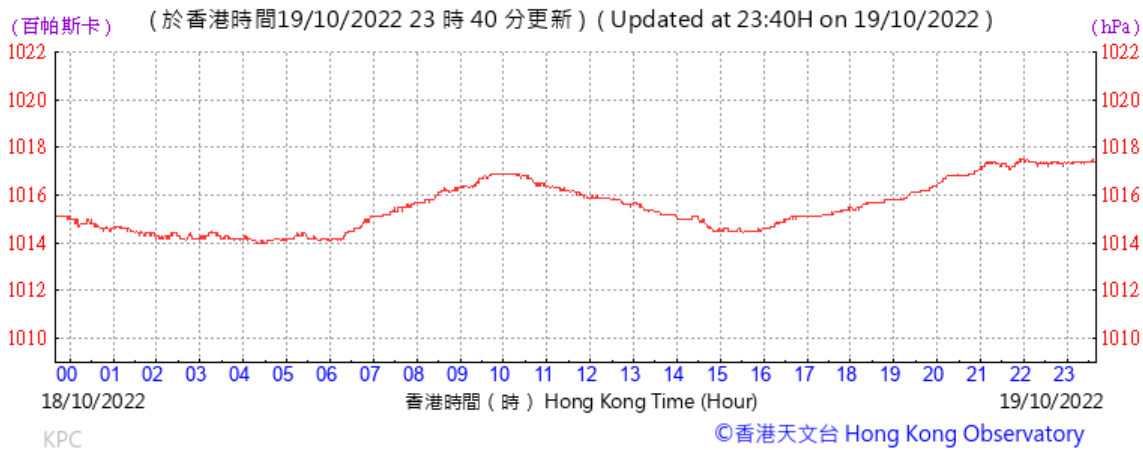
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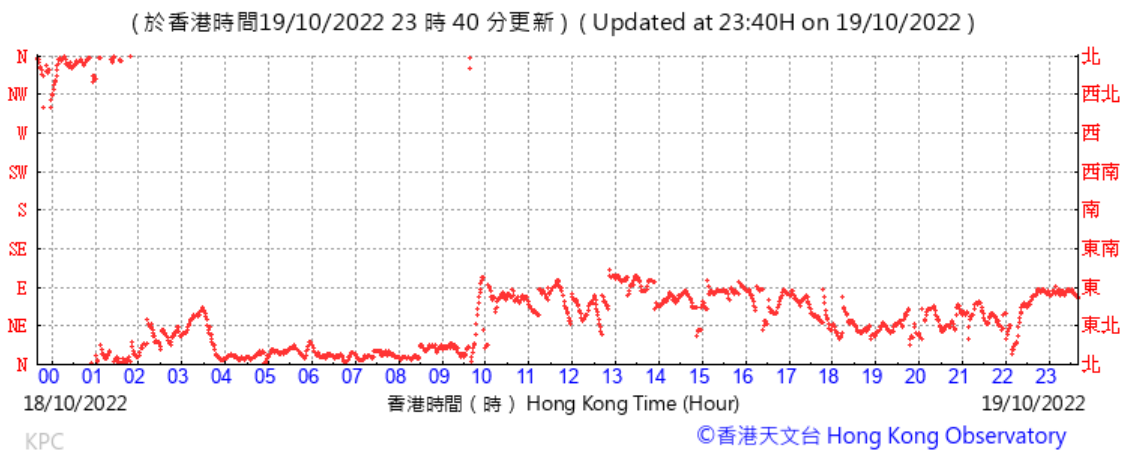
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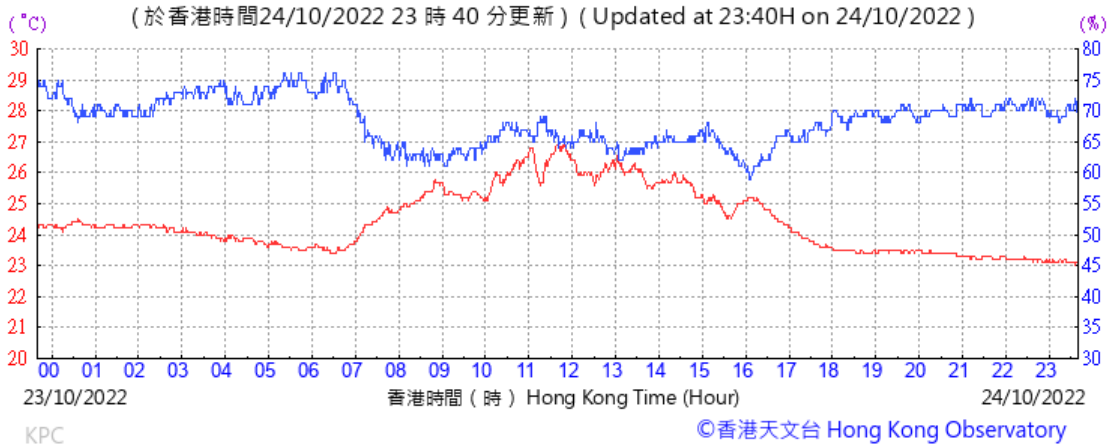
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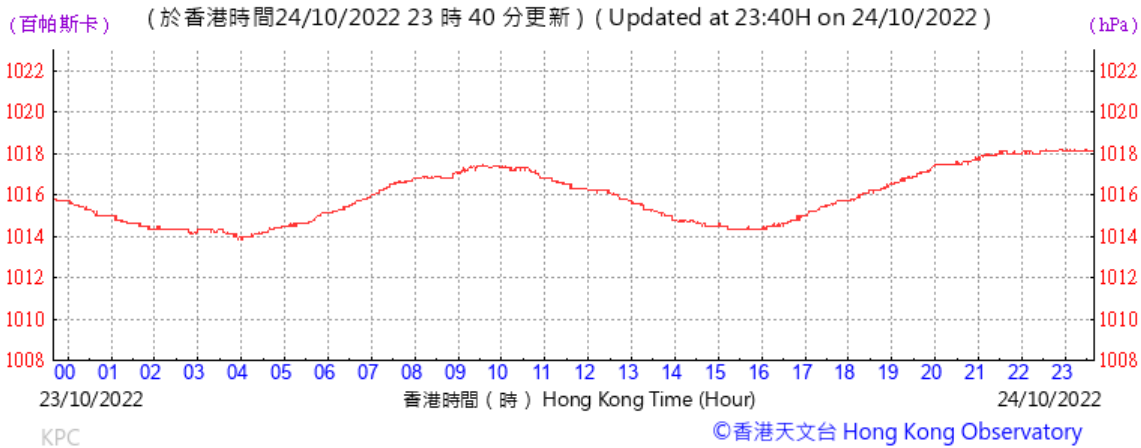
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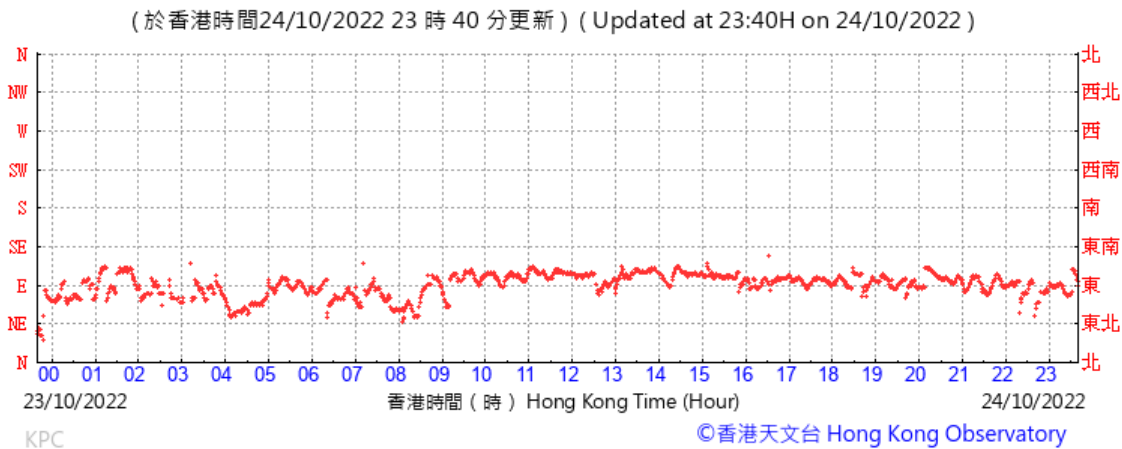
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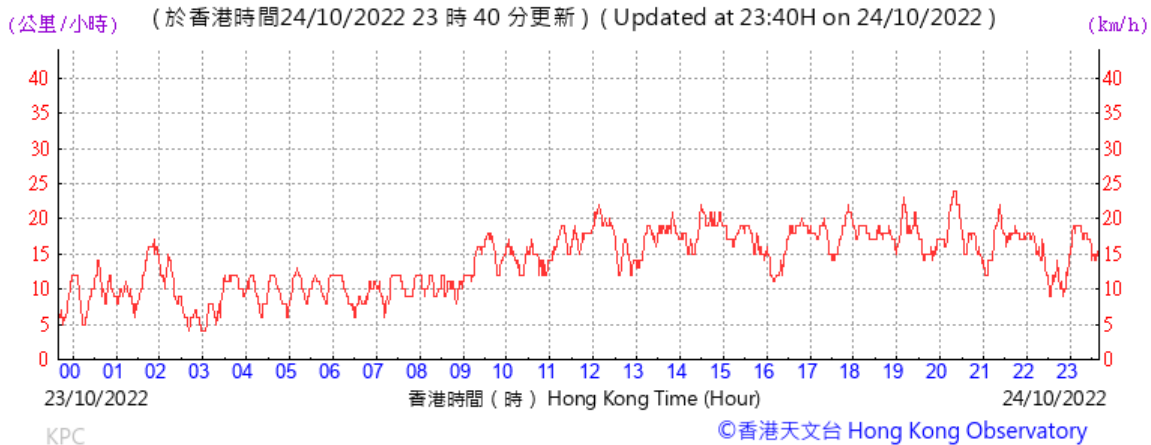
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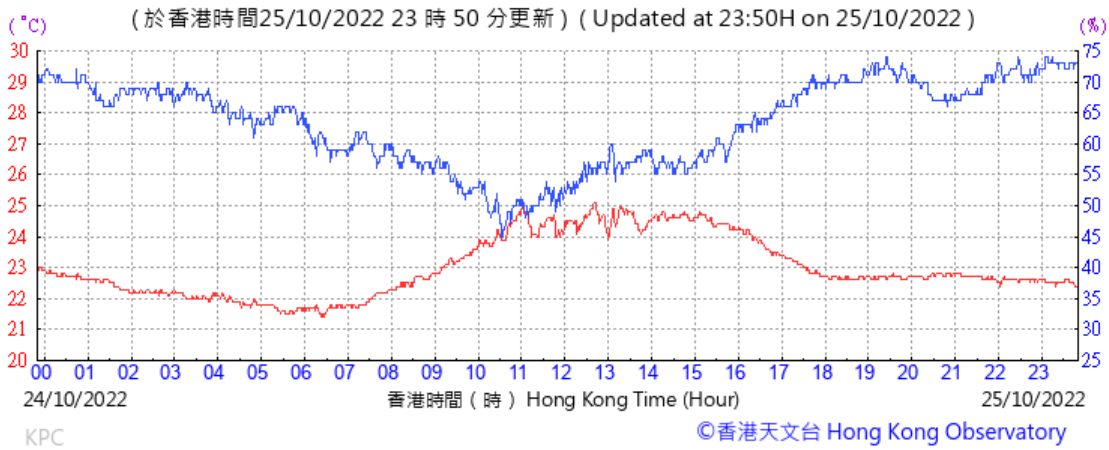
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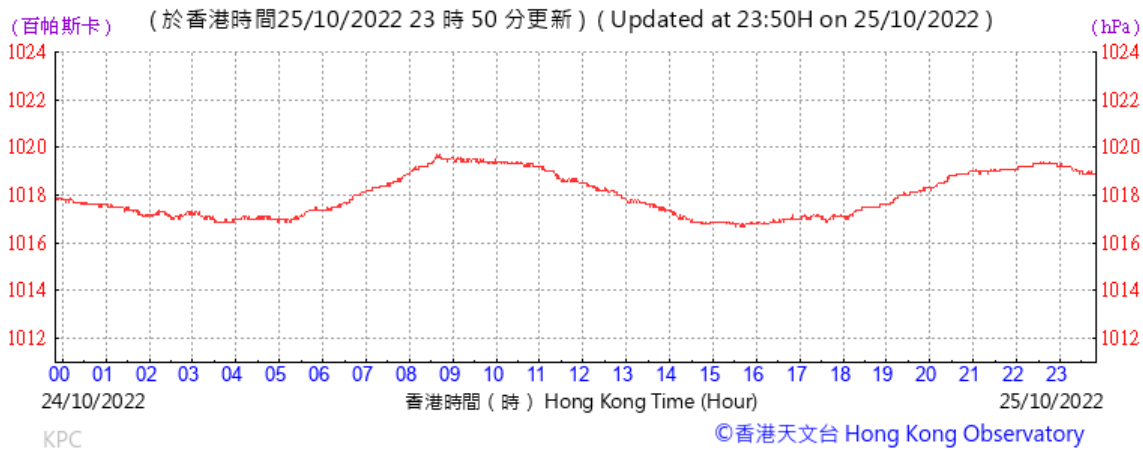
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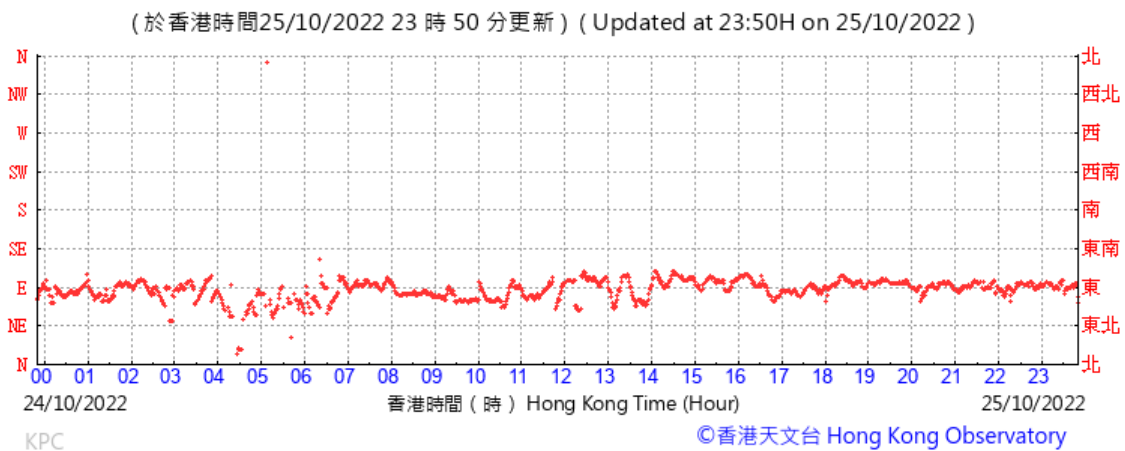
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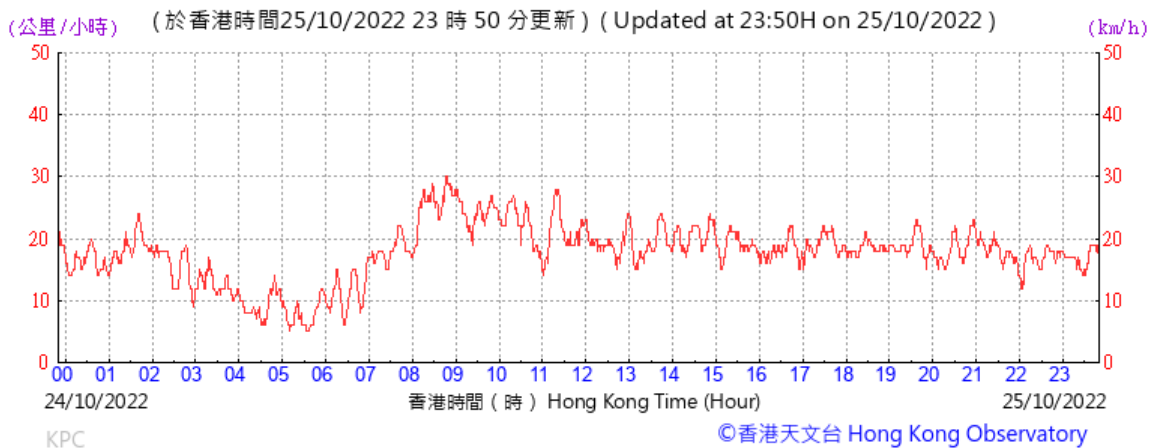
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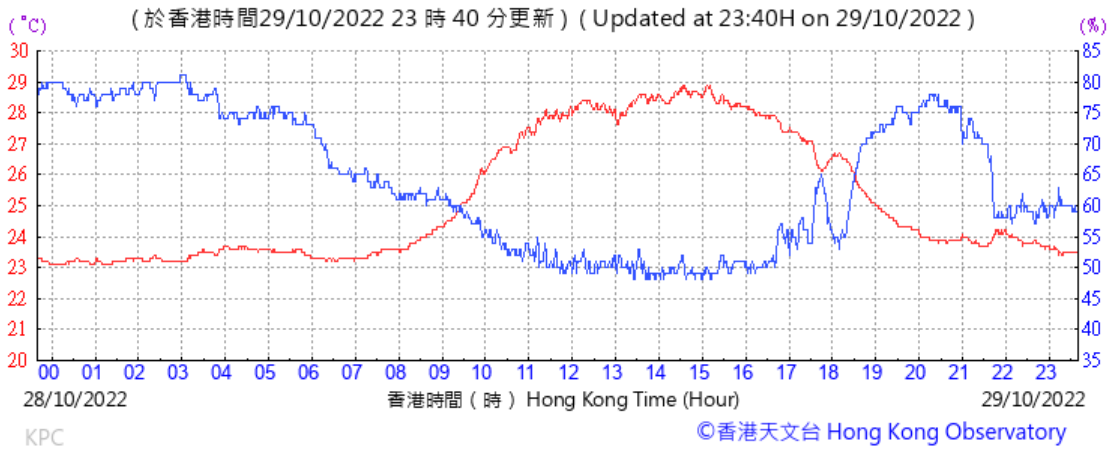
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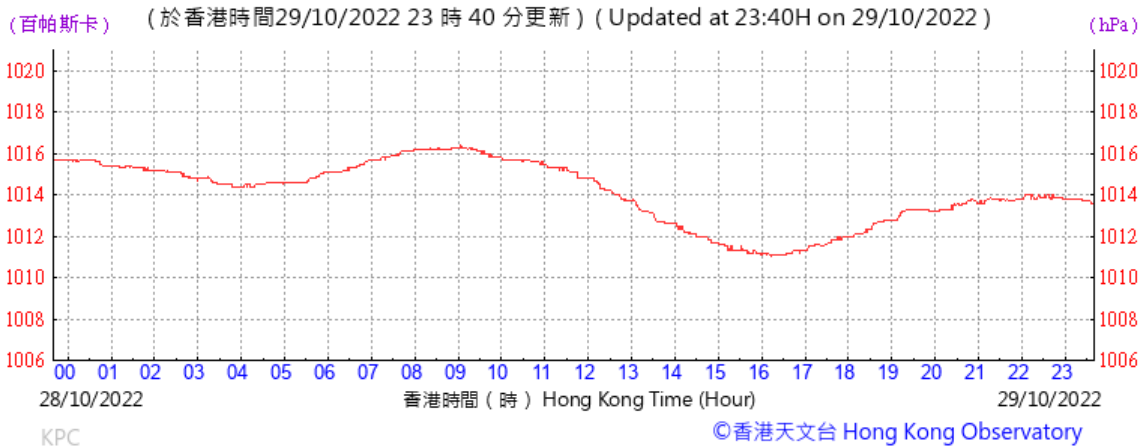
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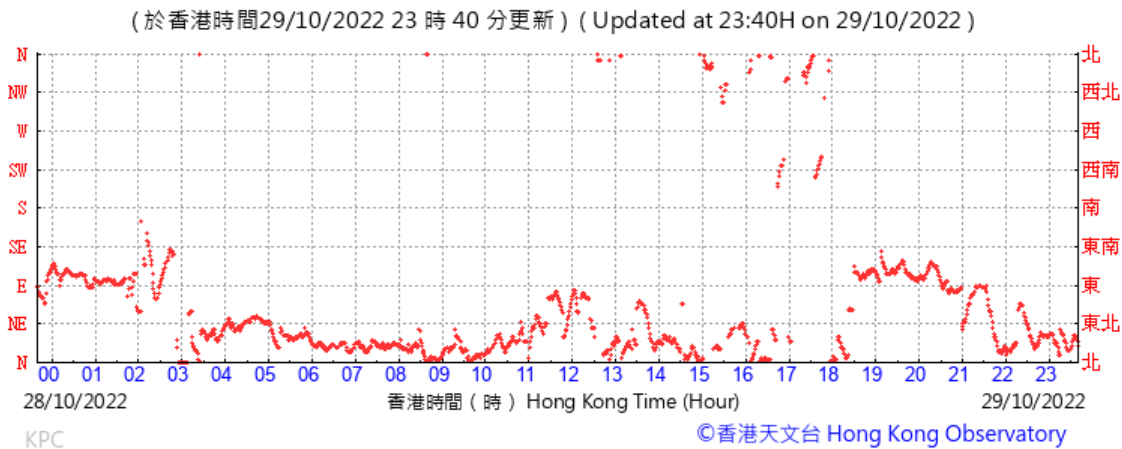
Temperature/Humidity:



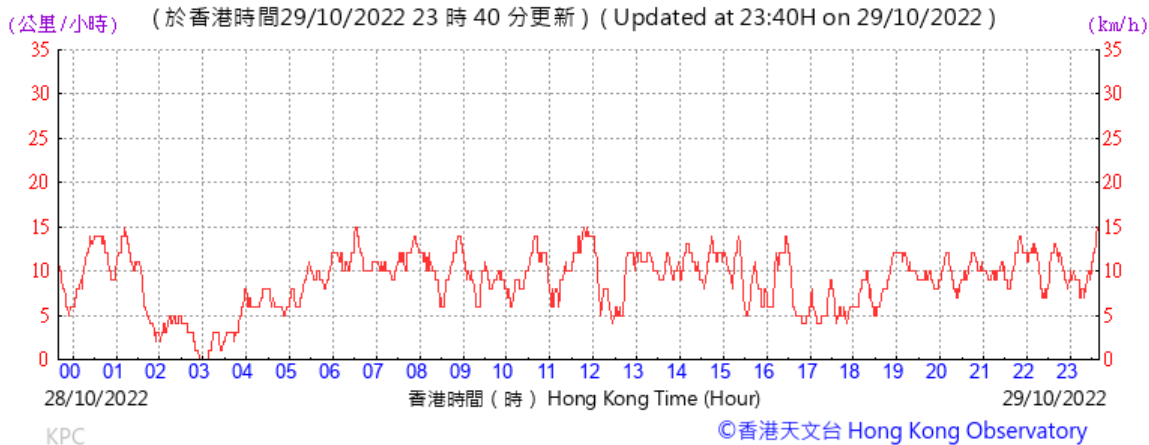
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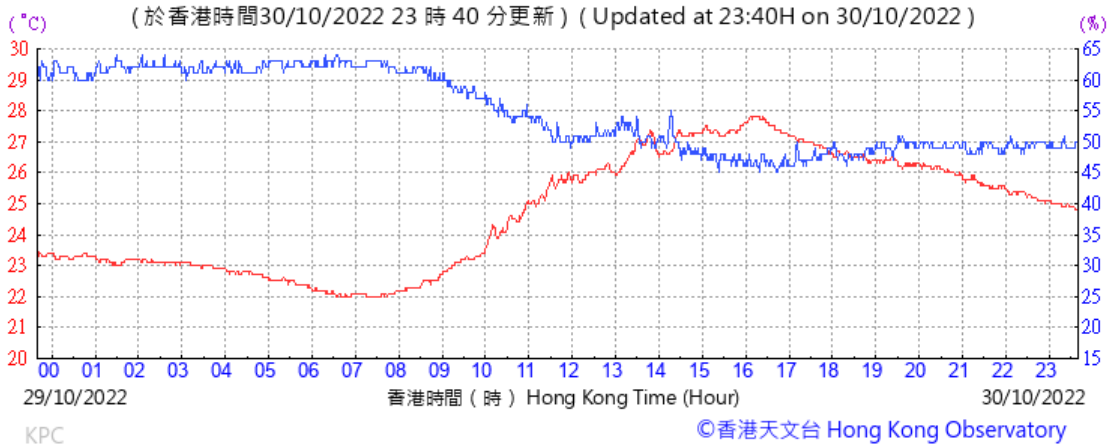
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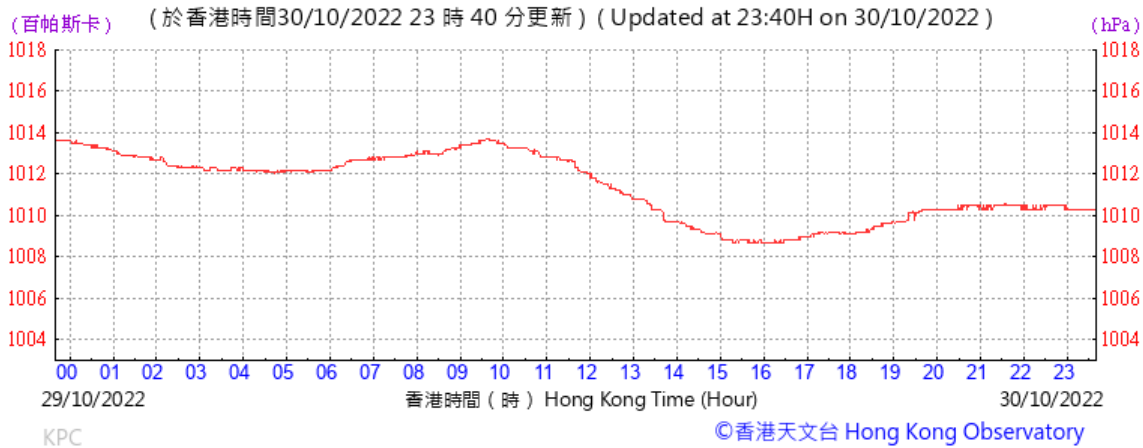
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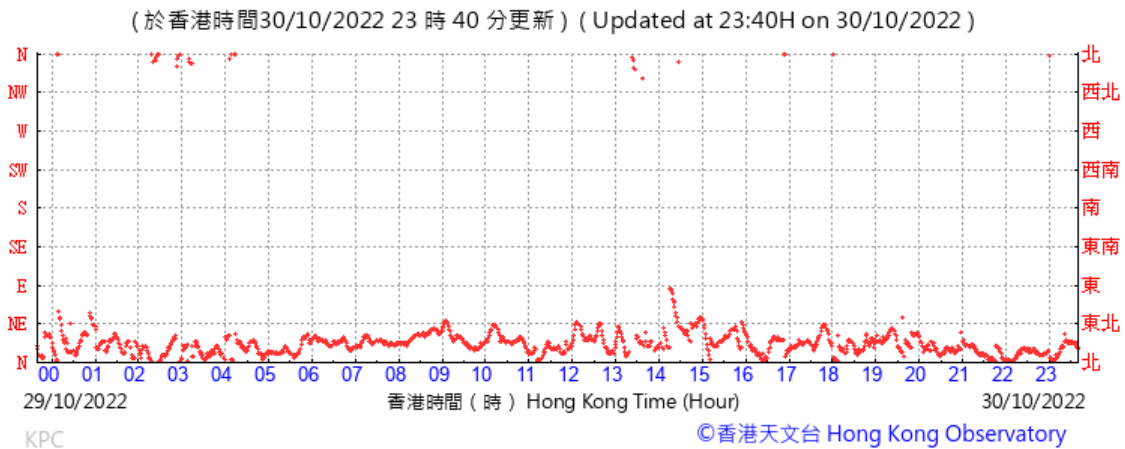
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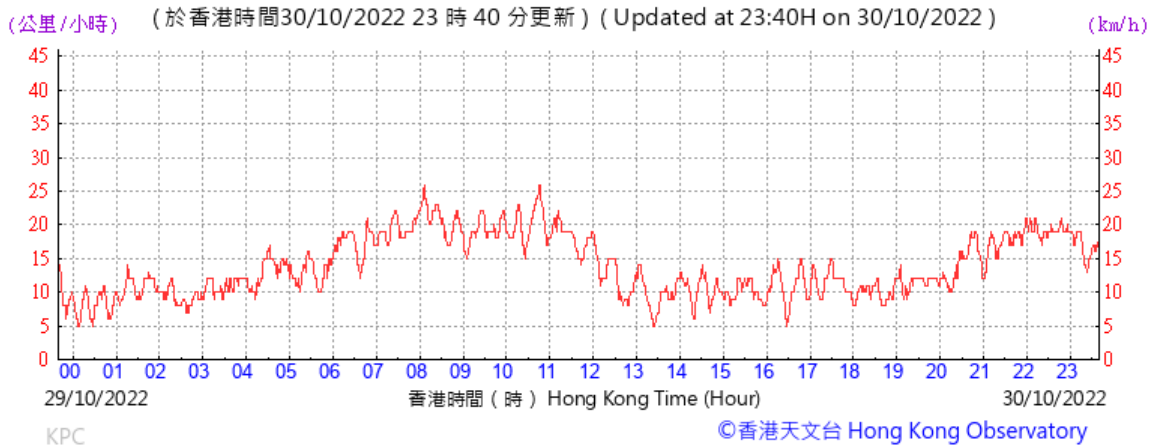
Pressure:



Wind Direction:



Wind Speed:

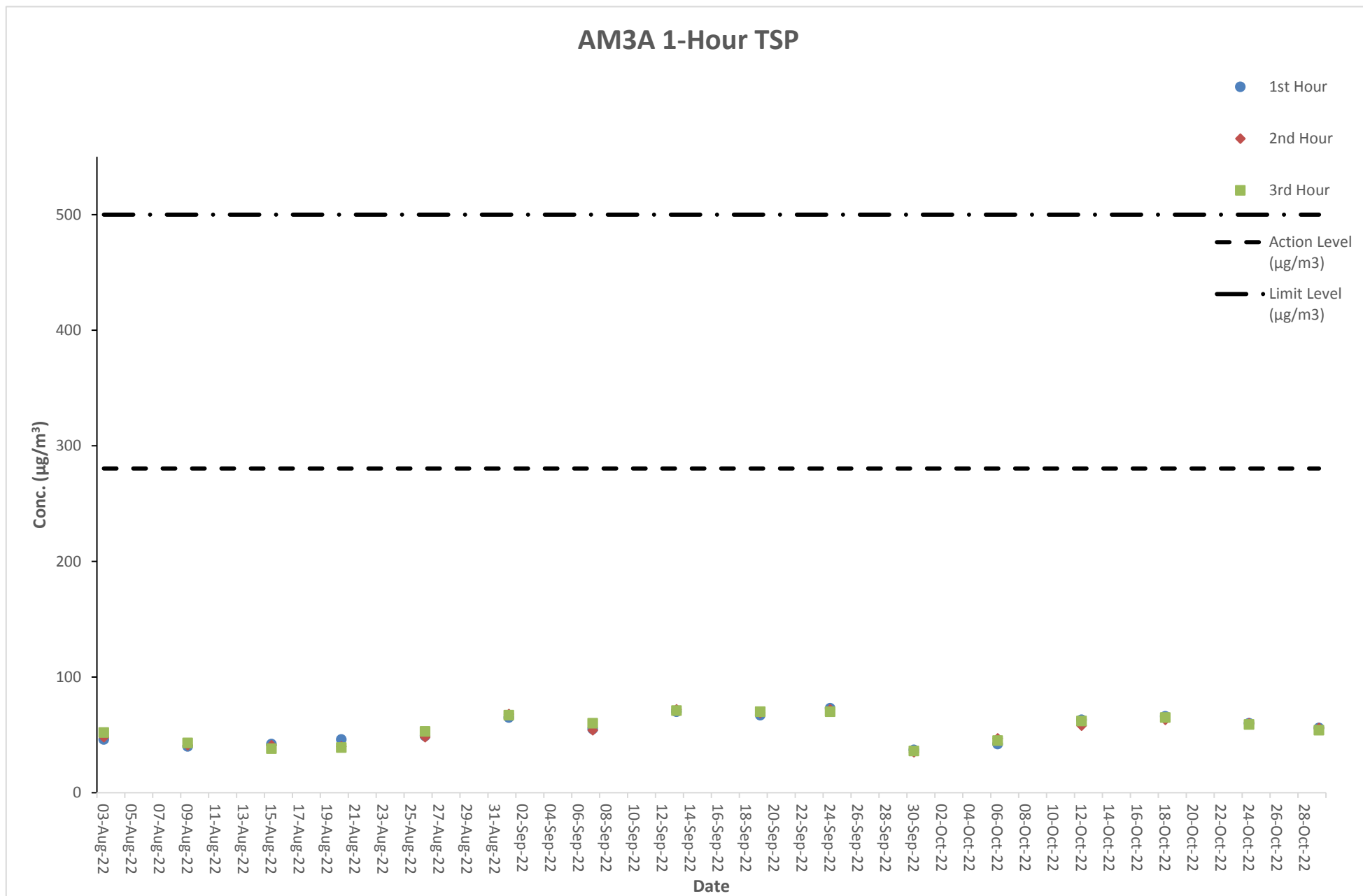


E. Graphical Plots of the Monitoring Results

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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
03-Aug-22	Cloudy	8:03 - 11:03	46	48	52	280.4	500
09-Aug-22	Cloudy	14:02 - 17:02	40	41	43	280.4	500
15-Aug-22	Fine	8:07 - 11:07	42	41	38	280.4	500
20-Aug-22	Cloudy	14:09 - 17:09	46	40	39	280.4	500
26-Aug-22	Cloudy	8:05 - 11:05	49	48	53	280.4	500
01-Sep-22	Cloudy	14:10 - 17:10	65	68	67	280.4	500
07-Sep-22	Cloudy	8:11 - 11:11	55	54	60	280.4	500
13-Sep-22	Fine	14:02 - 17:02	70	72	71	280.4	500
19-Sep-22	Cloudy	8:07 - 11:07	67	69	70	280.4	500
24-Sep-22	Fine	14:15 - 17:15	73	72	70	280.4	500
30-Sep-22	Cloudy	8:03 - 11:03	37	35	36	280.4	500
06-Oct-22	Cloudy	8:01 - 11:01	42	47	45	280.4	500
12-Oct-22	Fine	14:05 - 17:05	63	58	62	280.4	500
18-Oct-22	Cloudy	8:03 - 11:03	66	63	65	280.4	500
24-Oct-22	Fine	14:06 - 17:06	60	60	59	280.4	500
29-Oct-22	Fine	8:07 - 11:07	56	56	54	280.4	500

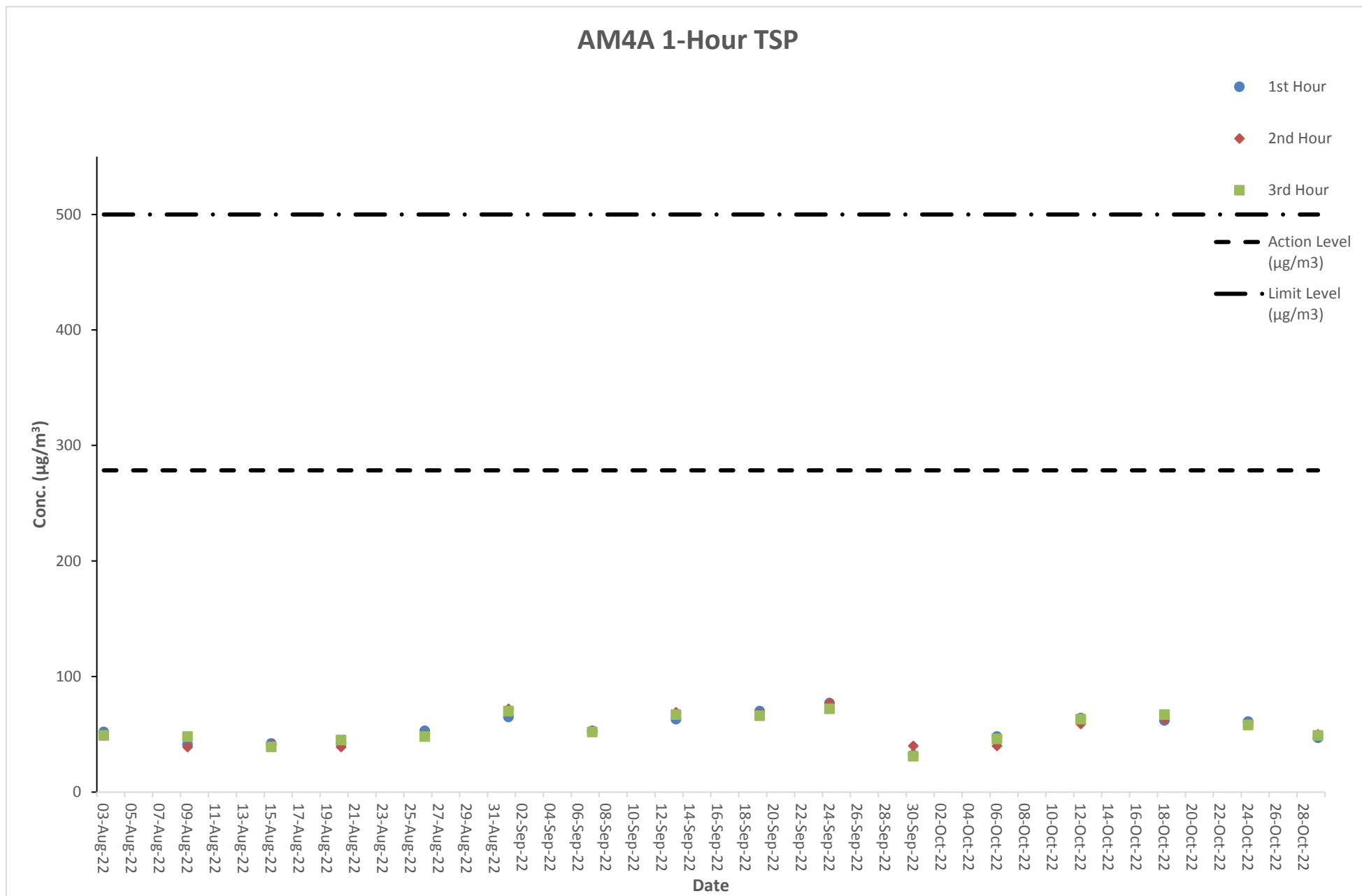
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (1-hour TSP)



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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
03-Aug-22	Cloudy	8:11 - 11:11	52	49	49	278.5	500
09-Aug-22	Cloudy	14:10 - 17:10	41	39	48	278.5	500
15-Aug-22	Fine	8:15 - 11:15	42	41	39	278.5	500
20-Aug-22	Cloudy	14:17 - 17:17	42	39	45	278.5	500
26-Aug-22	Cloudy	8:13 - 11:13	53	49	48	278.5	500
01-Sep-22	Cloudy	14:18 - 17:18	65	72	70	278.5	500
07-Sep-22	Cloudy	8:19 - 11:19	53	53	52	278.5	500
13-Sep-22	Fine	14:10 - 17:10	63	69	67	278.5	500
19-Sep-22	Cloudy	8:15 - 11:15	70	68	66	278.5	500
24-Sep-22	Fine	14:23 - 17:23	77	77	72	278.5	500
30-Sep-22	Cloudy	8:11 - 11:11	32	40	31	278.5	500
06-Oct-22	Cloudy	8:09 - 11:09	48	40	46	278.5	500
12-Oct-22	Fine	14:13 - 17:13	64	59	63	278.5	500
18-Oct-22	Cloudy	8:11 - 11:11	62	63	67	278.5	500
24-Oct-22	Fine	14:14 - 17:14	61	58	58	278.5	500
29-Oct-22	Fine	8:15 - 11:15	47	50	49	278.5	500

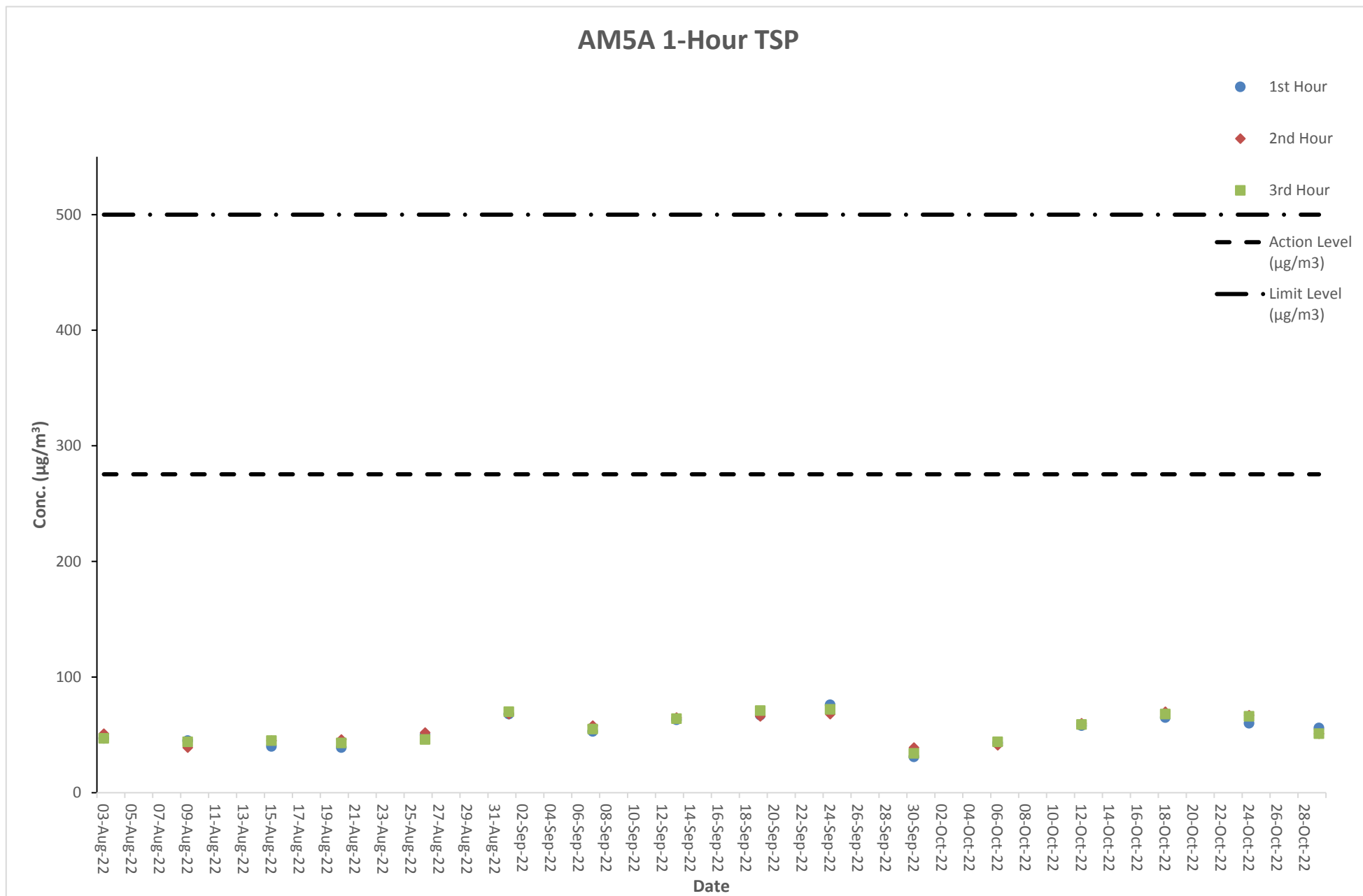
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (1-hour TSP)



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

Date	Weather Condition	Time	Conc. ($\mu\text{g}/\text{m}^3$)			Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
			1 st Hour	2 nd Hour	3 rd Hour		
03-Aug-22	Cloudy	8:26 - 11:26	47	51	47	275.4	500
09-Aug-22	Cloudy	14:27 - 17:27	45	39	44	275.4	500
15-Aug-22	Fine	8:30 - 11:30	40	45	45	275.4	500
20-Aug-22	Cloudy	14:34 - 17:34	39	46	43	275.4	500
26-Aug-22	Cloudy	8:28 - 11:28	50	52	46	275.4	500
01-Sep-22	Cloudy	14:33 - 17:33	68	68	70	275.4	500
07-Sep-22	Cloudy	8:36 - 11:36	53	58	55	275.4	500
13-Sep-22	Fine	14:25 - 17:25	63	65	64	275.4	500
19-Sep-22	Cloudy	8:32 - 11:32	67	66	71	275.4	500
24-Sep-22	Fine	14:38 - 17:38	76	68	72	275.4	500
30-Sep-22	Cloudy	8:19 - 11:19	31	39	34	275.4	500
06-Oct-22	Cloudy	8:24 - 11:24	43	41	44	275.4	500
12-Oct-22	Fine	14:30 - 17:30	58	60	59	275.4	500
18-Oct-22	Cloudy	8:26 - 11:26	65	70	68	275.4	500
24-Oct-22	Fine	14:31 - 17:31	60	67	66	275.4	500
29-Oct-22	Fine	8:30 - 11:30	56	51	51	275.4	500

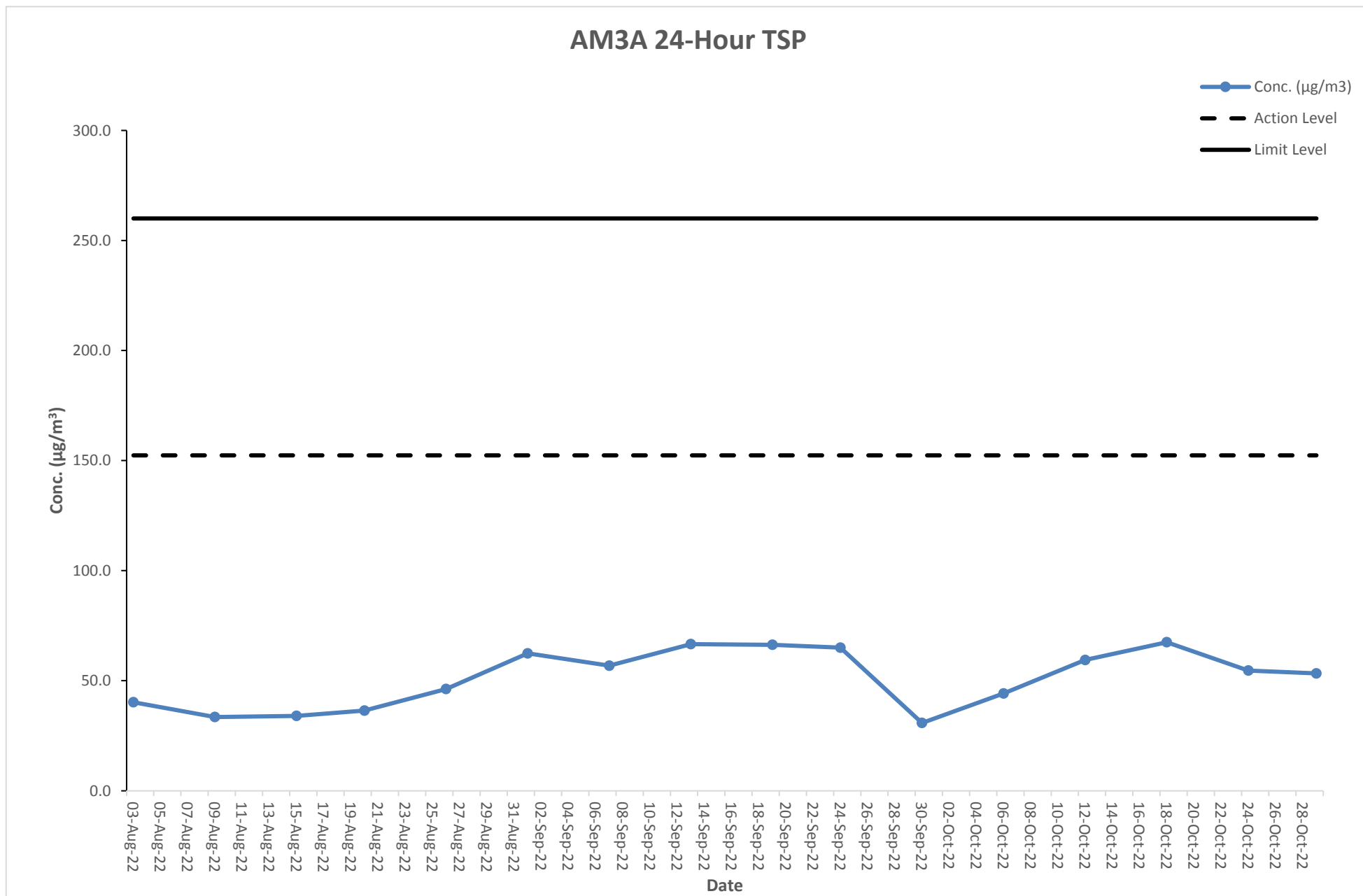
Graphical Presentation of Air Quality Monitoring Result at Station AM5A (1-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
03-Aug-22	10:00	04-Aug-22	10:00	2.8047	2.8694	3939.8	3963.8	24	1.12	1.12	1.12	40.2	Rainy	152.4	260
09-Aug-22	10:00	10-Aug-22	10:00	2.8024	2.8564	3963.8	3987.8	24	1.12	1.12	1.12	33.5	Rainy	152.4	260
15-Aug-22	10:00	16-Aug-22	10:00	2.8073	2.8620	3987.8	4011.8	24	1.12	1.12	1.12	34.0	Cloudy	152.4	260
20-Aug-22	10:00	21-Aug-22	10:00	2.8024	2.8610	4011.8	4035.8	24	1.12	1.12	1.12	36.4	Rainy	152.4	260
26-Aug-22	10:00	27-Aug-22	10:00	2.8082	2.8825	4035.8	4059.8	24	1.12	1.12	1.12	46.2	Cloudy	152.4	260
01-Sep-22	10:00	02-Sep-22	10:00	2.8016	2.9020	4060.8	4084.8	24	1.12	1.12	1.12	62.4	Sunny	152.4	260
07-Sep-22	10:00	08-Sep-22	10:00	2.8036	2.8949	4084.8	4108.8	24	1.12	1.12	1.12	56.8	Rainy	152.4	260
13-Sep-22	10:00	14-Sep-22	10:00	2.8085	2.9156	4108.8	4132.8	24	1.12	1.12	1.12	66.6	Sunny	152.4	260
19-Sep-22	10:00	20-Sep-22	10:00	2.8055	2.9123	4132.8	4156.8	24	1.12	1.12	1.12	66.3	Rainy	152.4	260
24-Sep-22	10:00	25-Sep-22	10:00	2.8017	2.9063	4156.8	4180.8	24	1.12	1.12	1.12	65.0	Cloudy	152.4	260
30-Sep-22	10:00	01-Oct-22	10:00	2.8062	2.8558	4180.8	4204.8	24	1.12	1.12	1.12	30.8	Rainy	152.4	260
06-Oct-22	10:00	07-Oct-22	10:00	2.8010	2.8722	4205.8	4229.8	24	1.12	1.12	1.12	44.2	Cloudy	152.4	260
12-Oct-22	10:00	13-Oct-22	10:00	2.8038	2.8994	4229.8	4253.8	24	1.12	1.12	1.12	59.4	Sunny	152.4	260
18-Oct-22	10:00	19-Oct-22	10:00	2.8018	2.9104	4253.8	4277.8	24	1.12	1.12	1.12	67.5	Rainy	152.4	260
24-Oct-22	10:00	25-Oct-22	10:00	2.8064	2.8943	4277.8	4301.8	24	1.12	1.12	1.12	54.6	Sunny	152.4	260
29-Oct-22	10:00	30-Oct-22	10:00	2.8039	2.8897	4301.8	4325.8	24	1.12	1.12	1.12	53.3	Sunny	152.4	260

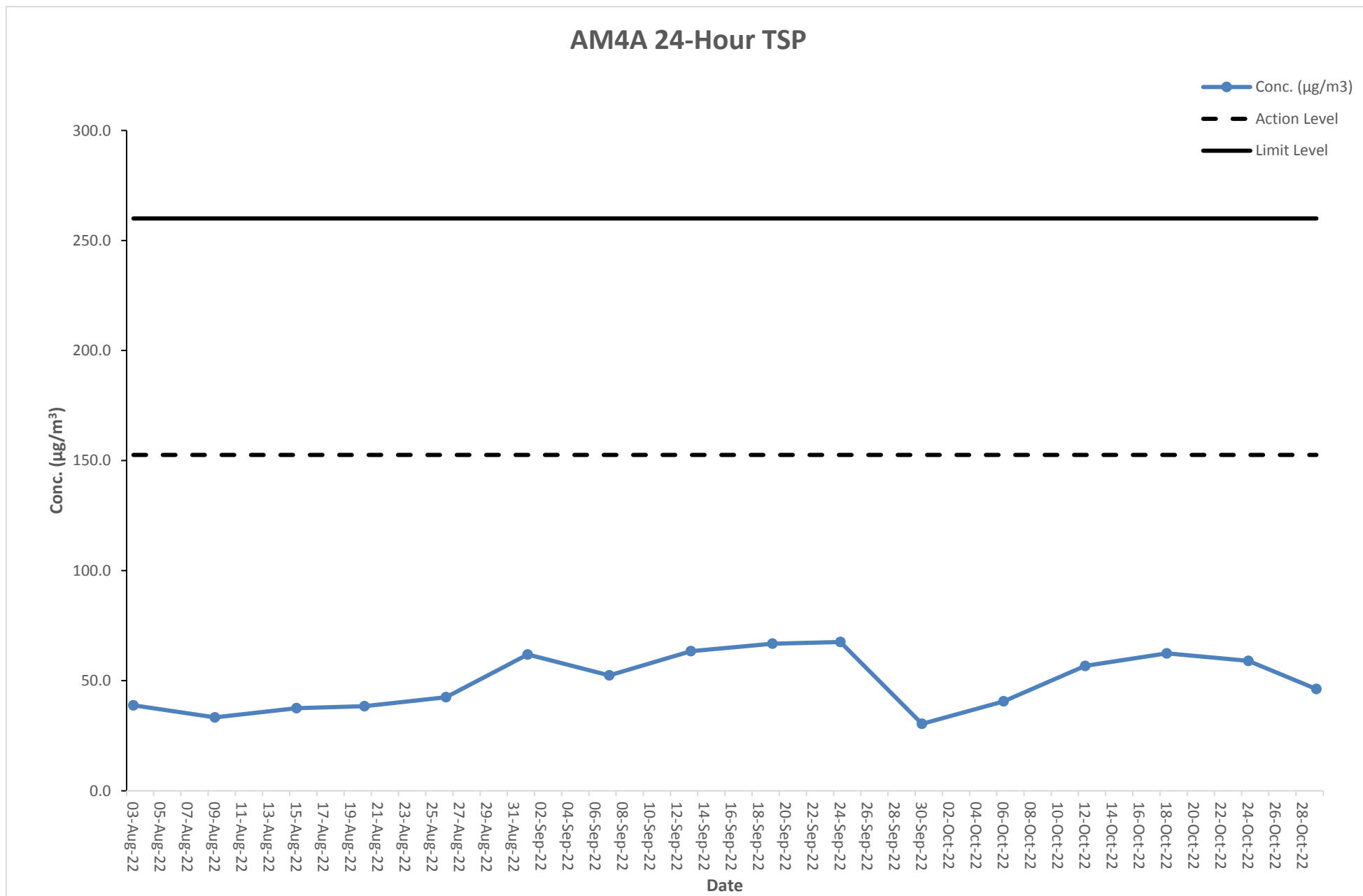
Graphical Presentation of Air Quality Monitoring Result at Station AM3A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
03-Aug-22	10:00	04-Aug-22	10:00	2.8073	2.8696	4359.4	4383.4	24	1.12	1.12	1.12	38.8	Rainy	152.6	260
09-Aug-22	10:00	10-Aug-22	10:00	2.8028	2.8563	4383.4	4407.4	24	1.12	1.12	1.12	33.3	Rainy	152.6	260
15-Aug-22	10:00	16-Aug-22	10:00	2.8055	2.8659	4407.4	4431.4	24	1.12	1.12	1.12	37.5	Cloudy	152.6	260
20-Aug-22	10:00	21-Aug-22	10:00	2.8030	2.8648	4431.4	4455.4	24	1.12	1.12	1.12	38.4	Rainy	152.6	260
26-Aug-22	10:00	27-Aug-22	10:00	2.8047	2.8732	4455.4	4479.4	24	1.12	1.12	1.12	42.5	Cloudy	152.6	260
01-Sep-22	10:00	02-Sep-22	10:00	2.8026	2.9023	4480.4	4504.4	24	1.12	1.12	1.12	61.9	Sunny	152.6	260
07-Sep-22	10:00	08-Sep-22	10:00	2.8064	2.8908	4504.4	4528.4	24	1.12	1.12	1.12	52.4	Rainy	152.6	260
13-Sep-22	10:00	14-Sep-22	10:00	2.8086	2.9106	4528.4	4552.4	24	1.12	1.12	1.12	63.4	Sunny	152.6	260
19-Sep-22	10:00	20-Sep-22	10:00	2.8046	2.9122	4552.4	4576.4	24	1.12	1.12	1.12	66.8	Rainy	152.6	260
24-Sep-22	10:00	25-Sep-22	10:00	2.8071	2.9160	4576.4	4600.4	24	1.12	1.12	1.12	67.6	Cloudy	152.6	260
30-Sep-22	10:00	01-Oct-22	10:00	2.8081	2.8569	4600.4	4624.4	24	1.12	1.12	1.12	30.4	Rainy	152.6	260
06-Oct-22	10:00	07-Oct-22	10:00	2.8045	2.8699	4625.4	4649.4	24	1.12	1.12	1.12	40.6	Cloudy	152.6	260
12-Oct-22	10:00	13-Oct-22	10:00	2.8016	2.8929	4649.4	4673.4	24	1.12	1.12	1.12	56.7	Sunny	152.6	260
18-Oct-22	10:00	19-Oct-22	10:00	2.8062	2.9066	4673.4	4697.4	24	1.12	1.12	1.12	62.4	Rainy	152.6	260
24-Oct-22	10:00	25-Oct-22	10:00	2.8081	2.9030	4697.4	4721.4	24	1.12	1.12	1.12	59.0	Sunny	152.6	260
29-Oct-22	10:00	30-Oct-22	10:00	2.8012	2.8755	4721.4	4745.4	24	1.12	1.12	1.12	46.2	Sunny	152.6	260

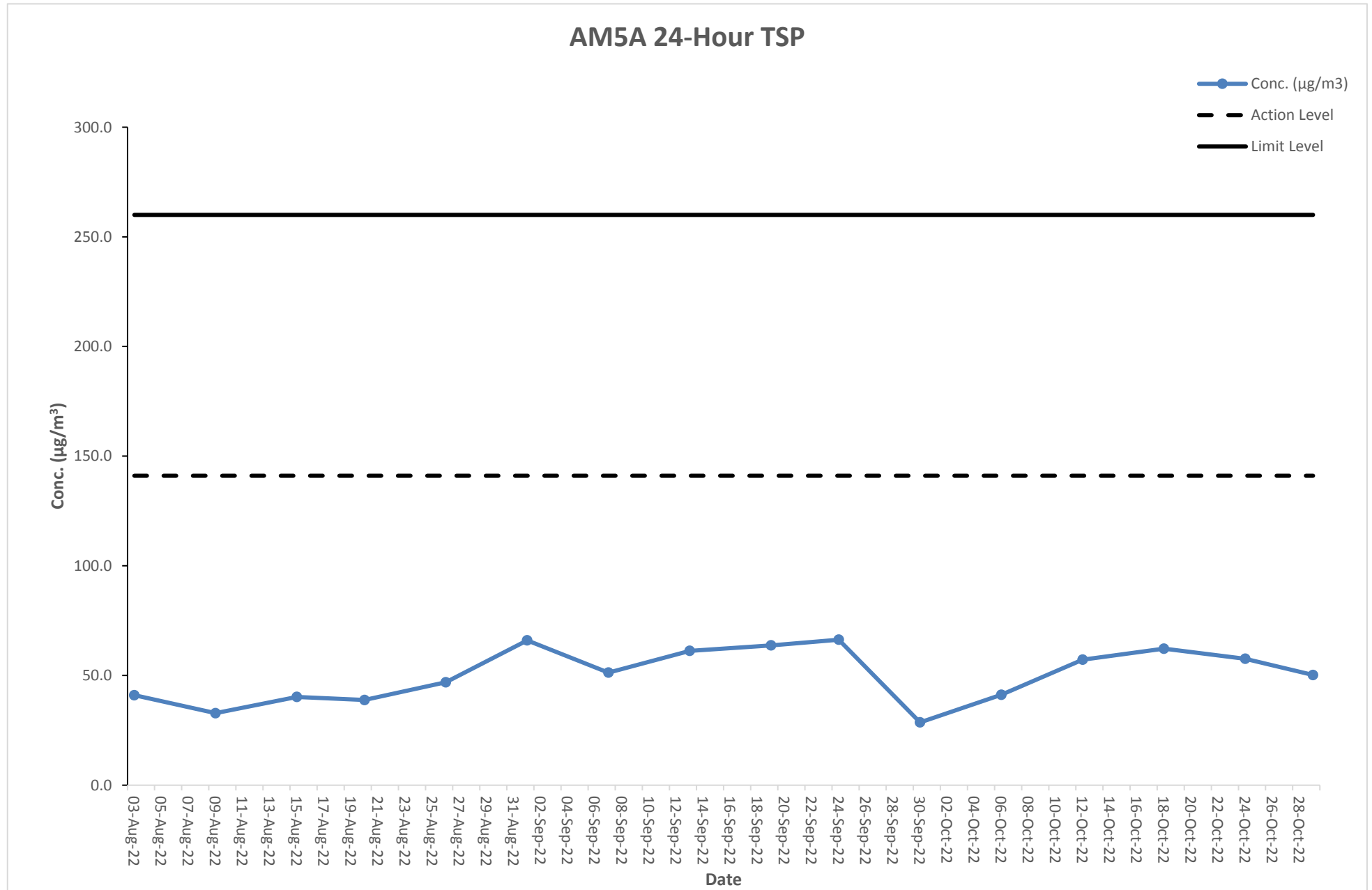
Graphical Presentation of Air Quality Monitoring Result at Station AM4A (24-hour TSP)



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

Start		Finish		Filter Weight (g)		Elapsed Time Reading		Sampling Time (hrs)	Flow Rate (m ³ /min)			Conc. (µg/m ³)	Weather Condition	Action Level	Limit Level
Date	Time	Date	Time	Initial	Final	Initial	Final		Initial	Final	Average				
03-Aug-22	10:00	04-Aug-22	10:00	2.8032	2.8692	4499.6	4523.6	24	1.12	1.12	1.12	41.0	Rainy	141.1	260
09-Aug-22	10:00	10-Aug-22	10:00	2.8060	2.8587	4523.6	4547.6	24	1.12	1.12	1.12	32.8	Rainy	141.1	260
15-Aug-22	10:00	16-Aug-22	10:00	2.8023	2.8670	4547.6	4571.6	24	1.12	1.12	1.12	40.2	Cloudy	141.1	260
20-Aug-22	10:00	21-Aug-22	10:00	2.8067	2.8690	4571.6	4595.6	24	1.12	1.12	1.12	38.8	Rainy	141.1	260
26-Aug-22	10:00	27-Aug-22	10:00	2.8029	2.8784	4595.6	4619.6	24	1.12	1.12	1.12	46.9	Cloudy	141.1	260
01-Sep-22	10:00	02-Sep-22	10:00	2.8018	2.9080	4620.6	4644.6	24	1.12	1.12	1.12	66.0	Sunny	141.1	260
07-Sep-22	10:00	08-Sep-22	10:00	2.8086	2.8911	4644.6	4668.6	24	1.12	1.12	1.12	51.3	Rainy	141.1	260
13-Sep-22	10:00	14-Sep-22	10:00	2.8056	2.9041	4668.6	4692.6	24	1.12	1.12	1.12	61.2	Sunny	141.1	260
19-Sep-22	10:00	20-Sep-22	10:00	2.8035	2.9061	4692.6	4716.6	24	1.12	1.12	1.12	63.7	Rainy	141.1	260
24-Sep-22	10:00	25-Sep-22	10:00	2.8079	2.9146	4716.6	4740.6	24	1.12	1.12	1.12	66.3	Cloudy	141.1	260
30-Sep-22	10:00	01-Oct-22	10:00	2.8019	2.8479	4740.6	4764.6	24	1.12	1.12	1.12	28.6	Rainy	141.1	260
06-Oct-22	10:00	07-Oct-22	10:00	2.8019	2.8683	4765.6	4789.6	24	1.12	1.12	1.12	41.2	Cloudy	141.1	260
12-Oct-22	10:00	13-Oct-22	10:00	2.8051	2.8971	4789.6	4813.6	24	1.12	1.12	1.12	57.2	Sunny	141.1	260
18-Oct-22	10:00	19-Oct-22	10:00	2.8021	2.9023	4813.6	4837.6	24	1.12	1.12	1.12	62.2	Rainy	141.1	260
24-Oct-22	10:00	25-Oct-22	10:00	2.8039	2.8966	4837.6	4861.6	24	1.12	1.12	1.12	57.6	Sunny	141.1	260
29-Oct-22	10:00	30-Oct-22	10:00	2.8046	2.8853	4861.6	4885.6	24	1.12	1.12	1.12	50.2	Sunny	141.1	260

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

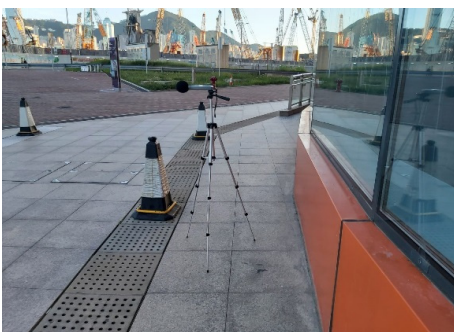


Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Aug-22	8:33	64.2	59.8	61.5
03-Aug-22	8:38	63.6	59.7	
03-Aug-22	8:43	64.1	58.7	
03-Aug-22	8:48	63.0	60.2	
03-Aug-22	8:53	63.6	60.4	
03-Aug-22	8:58	64.3	59.2	
09-Aug-22	14:32	63.8	58.9	61.6
09-Aug-22	14:37	64.5	59.2	
09-Aug-22	14:42	62.9	60.1	
09-Aug-22	14:47	63.4	60.1	
09-Aug-22	14:52	64.7	60.3	
09-Aug-22	14:57	64.7	60.0	
15-Aug-22	8:37	63.5	58.6	62.0
15-Aug-22	8:42	63.5	60.1	
15-Aug-22	8:47	64.0	58.9	
15-Aug-22	8:52	63.6	60.0	
15-Aug-22	8:57	63.8	58.8	
15-Aug-22	9:02	64.5	58.8	
20-Aug-22	14:39	63.1	59.5	61.6
20-Aug-22	14:44	63.9	59.3	
20-Aug-22	14:49	62.9	60.3	
20-Aug-22	14:54	63.4	60.0	
20-Aug-22	14:59	64.1	59.7	
20-Aug-22	15:04	63.9	58.8	
26-Aug-22	8:35	64.3	58.9	61.3
26-Aug-22	8:40	64.7	59.9	
26-Aug-22	8:45	64.0	60.4	
26-Aug-22	8:50	62.9	58.9	
26-Aug-22	8:55	64.2	59.6	
26-Aug-22	9:00	64.5	59.8	
01-Sep-22	14:40	64.0	58.8	61.3
01-Sep-22	14:45	64.7	58.9	
01-Sep-22	14:50	64.3	58.8	
01-Sep-22	14:55	64.8	59.5	
01-Sep-22	15:00	64.3	58.8	
01-Sep-22	15:05	63.3	59.2	
07-Sep-22	8:41	63.3	59.3	61.6
07-Sep-22	8:46	63.2	58.8	
07-Sep-22	8:51	63.9	58.7	
07-Sep-22	8:56	64.3	59.1	
07-Sep-22	9:01	63.3	58.7	
07-Sep-22	9:06	63.5	58.9	
13-Sep-22	14:32	64.1	58.6	61.7
13-Sep-22	14:37	63.3	58.8	
13-Sep-22	14:42	63.7	60.3	
13-Sep-22	14:47	64.0	58.8	
13-Sep-22	14:52	63.2	59.6	
13-Sep-22	14:57	63.9	60.4	
19-Sep-22	8:37	64.0	59.9	61.5
19-Sep-22	8:42	63.6	58.7	
19-Sep-22	8:47	63.9	59.9	
19-Sep-22	8:52	62.9	59.8	
19-Sep-22	8:57	63.2	59.0	
19-Sep-22	9:02	63.2	59.3	
24-Sep-22	14:45	63.6	59.0	62.2
24-Sep-22	14:50	62.9	59.6	
24-Sep-22	14:55	64.7	59.6	
24-Sep-22	15:00	63.2	59.2	
24-Sep-22	15:05	63.1	58.8	
24-Sep-22	15:10	64.6	59.8	

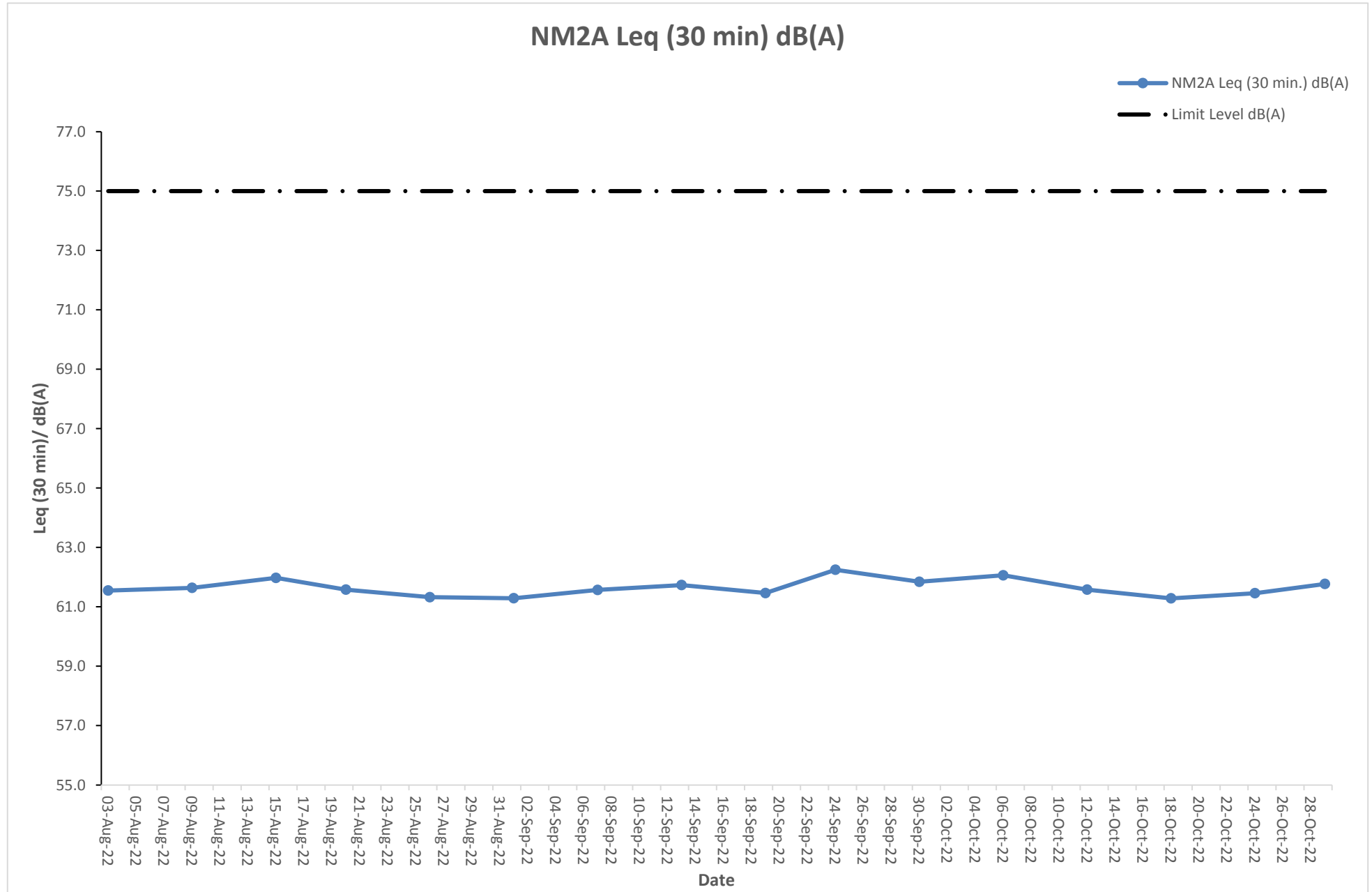
Noise Monitoring Result at Station NM2A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Sep-22	8:03	63.2	60.5	61.8
30-Sep-22	8:08	63.7	59.7	
30-Sep-22	8:13	63.8	60.5	
30-Sep-22	8:18	64.1	60.5	
30-Sep-22	8:23	64.1	60.2	
30-Sep-22	8:28	63.0	60.5	
06-Oct-22	8:31	64.5	59.1	62.1
06-Oct-22	8:36	64.0	60.2	
06-Oct-22	8:41	65.0	59.9	
06-Oct-22	8:46	65.6	60.9	
06-Oct-22	8:51	65.8	59.9	
06-Oct-22	8:56	65.6	60.7	
12-Oct-22	14:35	63.9	60.1	61.6
12-Oct-22	14:40	63.5	58.7	
12-Oct-22	14:45	64.0	59.7	
12-Oct-22	14:50	62.9	59.3	
12-Oct-22	14:55	63.5	58.9	
12-Oct-22	15:00	63.7	60.3	
18-Oct-22	8:33	62.8	59.5	61.3
18-Oct-22	8:38	62.9	58.9	
18-Oct-22	8:43	62.8	59.4	
18-Oct-22	8:48	63.1	59.7	
18-Oct-22	8:53	63.4	59.8	
18-Oct-22	8:58	63.6	59.6	
24-Oct-22	14:36	63.0	60.2	61.5
24-Oct-22	14:41	63.0	59.6	
24-Oct-22	14:46	63.0	59.7	
24-Oct-22	14:51	64.3	59.7	
24-Oct-22	14:56	63.3	60.5	
24-Oct-22	15:01	63.8	60.0	
29-Oct-22	8:37	63.6	60.3	61.8
29-Oct-22	8:42	64.2	58.6	
29-Oct-22	8:47	63.2	60.4	
29-Oct-22	8:52	64.4	58.7	
29-Oct-22	8:57	63.9	60.4	
29-Oct-22	9:02	63.7	59.4	



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

Graphical Presentation of Noise Monitoring Result at Station NM2A

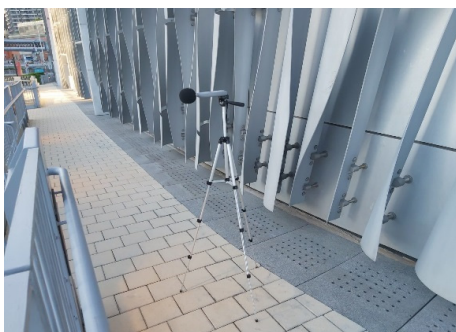


Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Aug-22	10:03	67.3	61.3	65.2
03-Aug-22	10:08	66.6	61.4	
03-Aug-22	10:13	66.0	62.2	
03-Aug-22	10:18	66.2	61.1	
03-Aug-22	10:23	67.4	61.9	
03-Aug-22	10:28	66.4	60.9	
09-Aug-22	16:05	67.2	60.5	64.9
09-Aug-22	16:10	67.1	61.3	
09-Aug-22	16:15	67.0	60.7	
09-Aug-22	16:20	66.8	61.3	
09-Aug-22	16:25	66.4	61.8	
09-Aug-22	16:30	66.5	61.9	
15-Aug-22	10:07	67.8	60.6	64.9
15-Aug-22	10:12	67.0	61.4	
15-Aug-22	10:17	67.8	61.1	
15-Aug-22	10:22	67.1	60.7	
15-Aug-22	10:27	67.4	61.6	
15-Aug-22	10:32	67.6	60.8	
20-Aug-22	16:12	66.8	61.6	65.2
20-Aug-22	16:17	66.7	61.3	
20-Aug-22	16:22	67.4	62.1	
20-Aug-22	16:27	67.1	60.8	
20-Aug-22	16:32	67.5	62.0	
20-Aug-22	16:37	66.5	61.5	
26-Aug-22	10:05	67.8	61.9	64.8
26-Aug-22	10:10	66.6	61.6	
26-Aug-22	10:15	67.2	62.1	
26-Aug-22	10:20	66.8	60.8	
26-Aug-22	10:25	66.2	61.2	
26-Aug-22	10:30	66.3	61.6	
01-Sep-22	16:10	65.9	61.9	64.9
01-Sep-22	16:15	67.0	61.4	
01-Sep-22	16:20	66.1	61.3	
01-Sep-22	16:25	66.2	61.2	
01-Sep-22	16:30	65.5	60.5	
01-Sep-22	16:35	66.5	60.4	
07-Sep-22	10:14	66.3	61.3	65.2
07-Sep-22	10:19	65.7	60.6	
07-Sep-22	10:24	66.1	60.5	
07-Sep-22	10:29	66.9	61.3	
07-Sep-22	10:34	66.1	61.7	
07-Sep-22	10:39	66.0	60.8	
13-Sep-22	16:02	66.4	60.3	64.4
13-Sep-22	16:07	66.9	61.8	
13-Sep-22	16:12	66.8	61.0	
13-Sep-22	16:17	65.9	60.7	
13-Sep-22	16:22	67.1	61.1	
13-Sep-22	16:27	65.5	61.2	
19-Sep-22	10:10	64.6	59.2	63.5
19-Sep-22	10:15	64.6	60.7	
19-Sep-22	10:20	66.4	59.0	
19-Sep-22	10:25	64.8	59.9	
19-Sep-22	10:30	66.2	59.7	
19-Sep-22	10:35	64.8	60.9	
24-Sep-22	16:15	65.7	60.9	63.7
24-Sep-22	16:20	65.0	61.1	
24-Sep-22	16:25	65.1	61.3	
24-Sep-22	16:30	66.6	60.6	
24-Sep-22	16:35	65.5	60.4	
24-Sep-22	16:40	66.0	61.3	

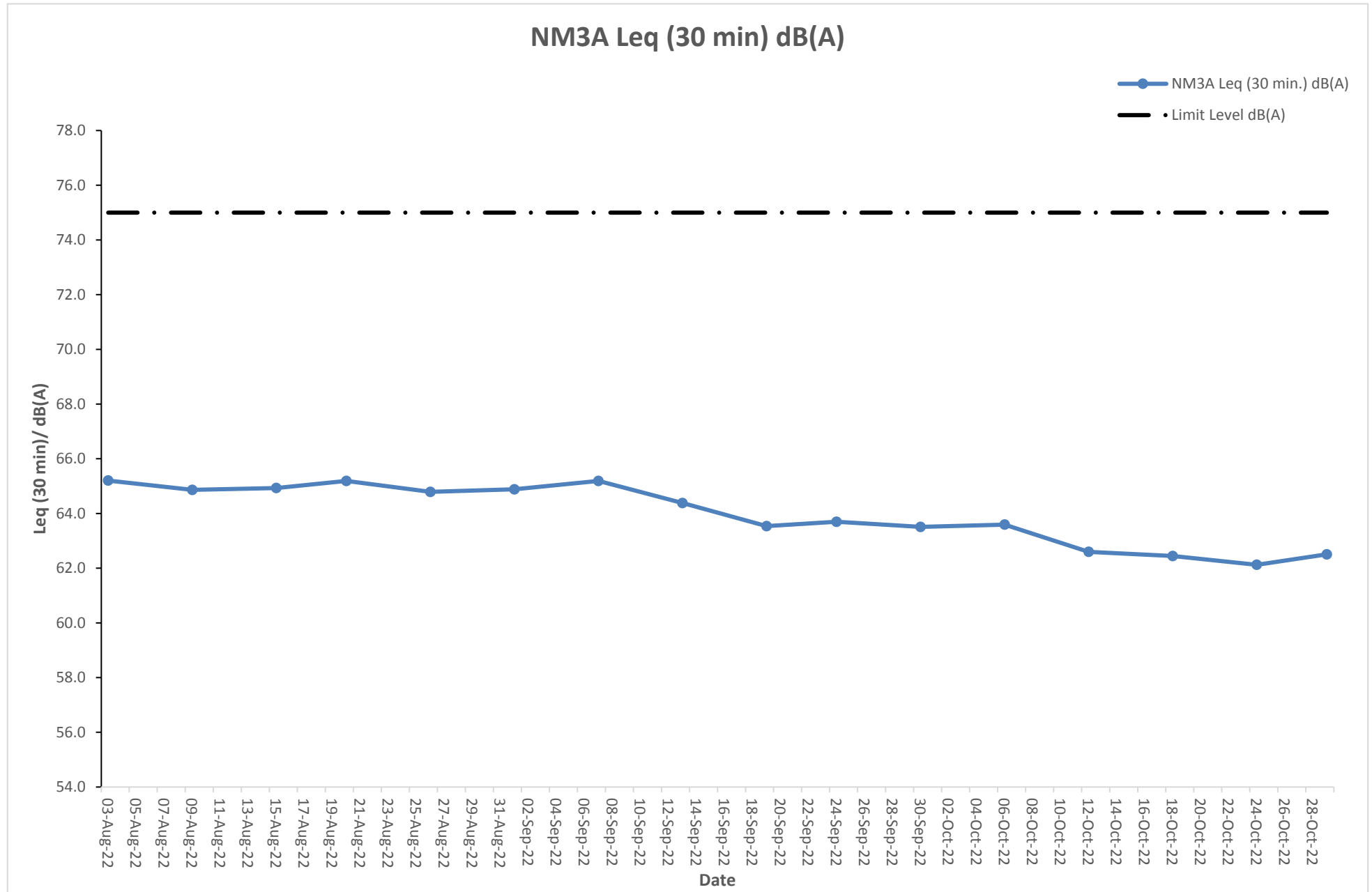
Noise Monitoring Result at Station NM3A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Sep-22	9:45	65.5	60.2	63.5
30-Sep-22	9:50	65.8	60.6	
30-Sep-22	9:55	64.5	60.9	
30-Sep-22	10:00	64.9	60.3	
30-Sep-22	10:05	65.0	59.8	
30-Sep-22	10:10	64.8	60.3	
06-Oct-22	10:01	65.4	59.8	63.6
06-Oct-22	10:06	64.1	60.3	
06-Oct-22	10:11	65.4	59.1	
06-Oct-22	10:16	65.7	60.4	
06-Oct-22	10:21	65.2	60.0	
06-Oct-22	10:26	65.0	60.9	
12-Oct-22	16:08	64.3	58.4	62.6
12-Oct-22	16:13	63.7	59.3	
12-Oct-22	16:18	63.5	58.9	
12-Oct-22	16:23	64.7	59.0	
12-Oct-22	16:28	64.2	58.0	
12-Oct-22	16:33	65.2	58.9	
18-Oct-22	10:03	63.6	59.9	62.4
18-Oct-22	10:08	64.9	58.5	
18-Oct-22	10:13	63.6	59.0	
18-Oct-22	10:18	64.8	58.3	
18-Oct-22	10:23	63.7	58.6	
18-Oct-22	10:28	65.2	59.5	
24-Oct-22	16:09	63.9	58.9	62.1
24-Oct-22	16:14	64.4	59.6	
24-Oct-22	16:19	64.8	59.8	
24-Oct-22	16:24	65.2	58.8	
24-Oct-22	16:29	64.9	58.8	
24-Oct-22	16:34	64.4	58.3	
29-Oct-22	10:07	64.3	58.6	62.5
29-Oct-22	10:12	65.0	58.9	
29-Oct-22	10:17	63.9	58.4	
29-Oct-22	10:22	65.4	58.6	
29-Oct-22	10:27	65.1	58.7	
29-Oct-22	10:32	64.8	58.5	



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

Graphical Presentation of Noise Monitoring Result at Station NM3A



Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
03-Aug-22	10:38	66.2	63.2	64.2
03-Aug-22	10:43	66.0	62.1	
03-Aug-22	10:48	65.5	61.8	
03-Aug-22	10:53	65.6	61.4	
03-Aug-22	10:58	65.2	61.6	
03-Aug-22	11:03	65.0	61.8	
09-Aug-22	16:40	65.9	63.0	64.5
09-Aug-22	16:45	65.5	62.1	
09-Aug-22	16:50	66.9	62.6	
09-Aug-22	16:55	66.7	63.2	
09-Aug-22	17:00	66.9	63.0	
09-Aug-22	17:05	66.8	62.9	
15-Aug-22	10:42	65.2	61.3	64.0
15-Aug-22	10:47	65.4	62.6	
15-Aug-22	10:52	65.2	62.1	
15-Aug-22	10:57	66.8	63.2	
15-Aug-22	11:02	66.4	62.5	
15-Aug-22	11:07	66.0	63.1	
20-Aug-22	16:47	65.0	62.9	64.1
20-Aug-22	16:52	66.5	62.4	
20-Aug-22	16:57	66.4	63.2	
20-Aug-22	17:02	66.9	61.9	
20-Aug-22	17:07	66.5	62.5	
20-Aug-22	17:12	65.0	63.0	
26-Aug-22	10:40	65.1	62.3	63.8
26-Aug-22	10:45	66.8	62.7	
26-Aug-22	10:50	66.6	61.4	
26-Aug-22	10:55	65.0	62.3	
26-Aug-22	11:00	66.6	62.8	
26-Aug-22	11:05	66.9	62.8	
01-Sep-22	16:45	67.0	63.5	64.5
01-Sep-22	16:50	65.7	62.6	
01-Sep-22	16:55	66.4	62.3	
01-Sep-22	17:00	65.8	62.8	
01-Sep-22	17:05	66.5	63.2	
01-Sep-22	17:10	66.9	63.9	
07-Sep-22	10:49	66.3	63.8	65.0
07-Sep-22	10:54	65.5	62.4	
07-Sep-22	10:59	66.8	63.6	
07-Sep-22	11:04	66.8	63.4	
07-Sep-22	11:09	65.3	62.3	
07-Sep-22	11:14	66.4	62.7	
13-Sep-22	16:37	66.8	63.2	63.9
13-Sep-22	16:42	66.9	61.9	
13-Sep-22	16:47	66.8	63.1	
13-Sep-22	16:52	66.8	61.3	
13-Sep-22	16:57	66.7	62.7	
13-Sep-22	17:02	65.5	62.5	
19-Sep-22	10:45	65.7	61.5	62.9
19-Sep-22	10:50	65.0	60.9	
19-Sep-22	10:55	64.8	61.5	
19-Sep-22	11:00	64.5	61.6	
19-Sep-22	11:05	65.0	60.8	
19-Sep-22	11:10	64.8	61.5	
24-Sep-22	16:50	65.5	62.0	63.1
24-Sep-22	16:55	65.0	61.3	
24-Sep-22	17:00	65.6	60.9	
24-Sep-22	17:05	65.2	62.1	
24-Sep-22	17:10	64.1	61.7	
24-Sep-22	17:15	65.1	62.1	

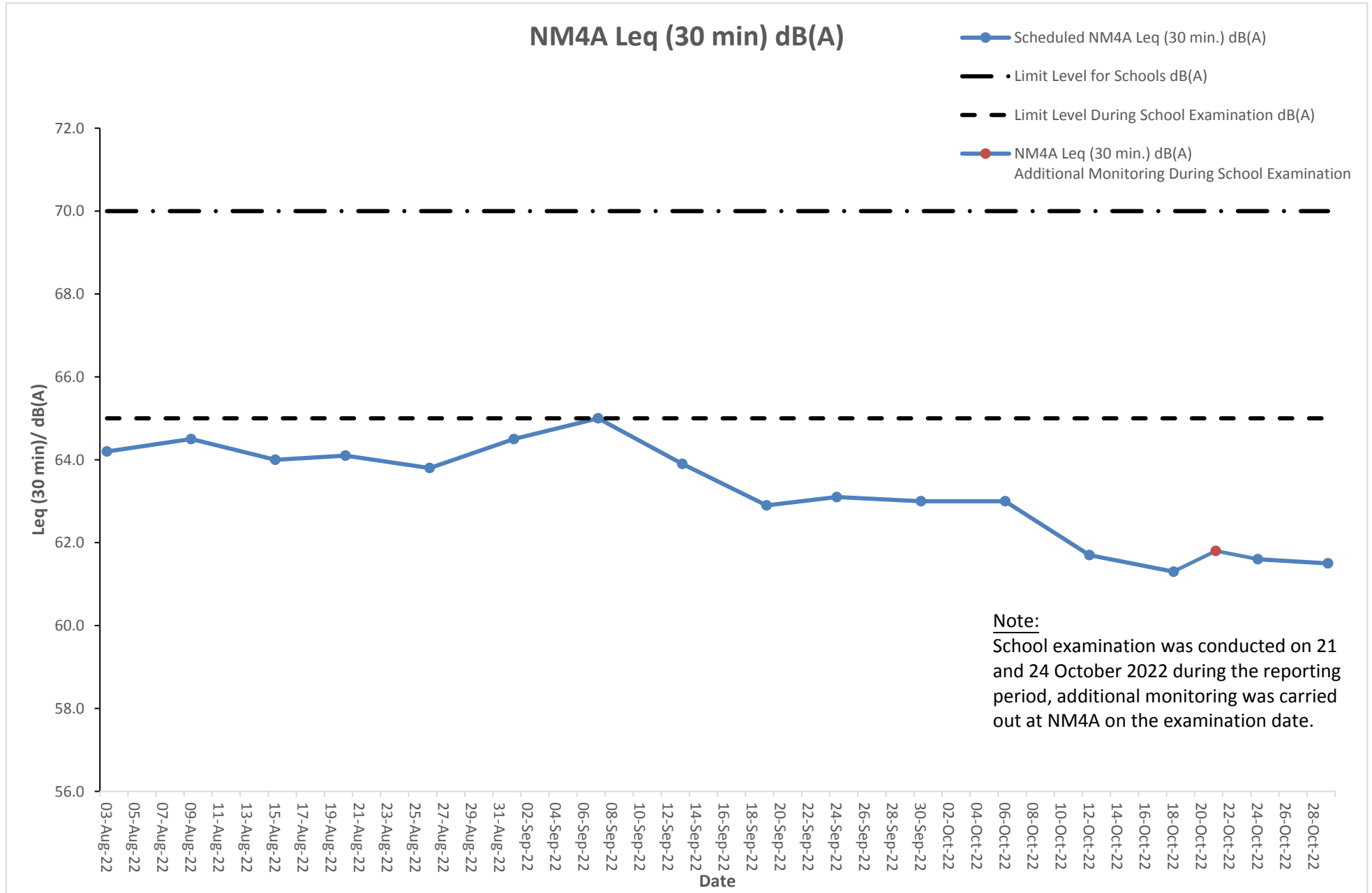
Noise Monitoring Result at Station NM4A

Date	Time	Measured L10 dB(A)	Measured L90 dB(A)	Leq (30 min.) dB(A)
30-Sep-22	10:20	64.2	60.7	63.0
30-Sep-22	10:25	65.5	60.8	
30-Sep-22	10:30	64.1	60.3	
30-Sep-22	10:35	64.7	61.7	
30-Sep-22	10:40	64.6	62.1	
30-Sep-22	10:45	64.2	62.2	
06-Oct-22	10:36	63.8	60.4	63.0
06-Oct-22	10:41	63.8	60.8	
06-Oct-22	10:46	63.9	59.6	
06-Oct-22	10:51	63.3	61.2	
06-Oct-22	10:56	64.7	60.5	
06-Oct-22	11:01	64.4	61.4	
12-Oct-22	16:43	63.8	60.5	61.7
12-Oct-22	16:48	63.0	59.8	
12-Oct-22	16:53	64.4	59.9	
12-Oct-22	16:58	64.0	59.8	
12-Oct-22	17:03	63.2	59.3	
12-Oct-22	17:08	64.0	59.4	
18-Oct-22	10:38	63.5	60.1	61.3
18-Oct-22	10:43	64.2	60.1	
18-Oct-22	10:48	63.1	60.0	
18-Oct-22	10:53	62.9	60.2	
18-Oct-22	10:58	62.6	59.0	
18-Oct-22	11:03	62.7	60.3	
24-Oct-22	16:44	64.3	58.8	61.6
24-Oct-22	16:49	63.2	60.4	
24-Oct-22	16:54	62.9	59.4	
24-Oct-22	16:59	63.4	60.0	
24-Oct-22	17:04	63.9	59.9	
24-Oct-22	17:09	63.8	59.8	
29-Oct-22	10:42	62.7	60.4	61.5
29-Oct-22	10:47	64.3	60.6	
29-Oct-22	10:52	63.2	59.0	
29-Oct-22	10:57	63.7	59.0	
29-Oct-22	11:02	63.4	59.5	
29-Oct-22	11:07	62.5	59.3	



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

Graphical Presentation of Noise Monitoring Result 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)
03-Aug-22	9:23	64.1	58.7	61.3	64.3
03-Aug-22	9:28	63.8	59.7		
03-Aug-22	9:33	62.3	59.1		
03-Aug-22	9:38	62.8	58.6		
03-Aug-22	9:43	62.9	59.4		
03-Aug-22	9:48	63.7	57.9		
09-Aug-22	15:24	63.0	57.8	61.3	64.3
09-Aug-22	15:29	63.6	58.2		
09-Aug-22	15:34	63.5	58.9		
09-Aug-22	15:39	64.1	59.4		
09-Aug-22	15:44	62.6	57.9		
09-Aug-22	15:49	63.1	59.5		
15-Aug-22	9:27	62.9	59.4	61.4	64.4
15-Aug-22	9:32	63.9	59.1		
15-Aug-22	9:37	62.3	58.2		
15-Aug-22	9:42	62.4	58.5		
15-Aug-22	9:47	62.8	58.6		
15-Aug-22	9:52	62.9	58.4		
20-Aug-22	15:31	63.3	59.2	61.9	64.9
20-Aug-22	15:36	63.6	59.6		
20-Aug-22	15:41	63.0	59.6		
20-Aug-22	15:46	64.2	58.6		
20-Aug-22	15:51	62.9	59.3		
20-Aug-22	15:56	62.7	58.8		
26-Aug-22	9:25	62.3	58.9	61.0	64.0
26-Aug-22	9:30	64.2	59.6		
26-Aug-22	9:35	63.1	58.5		
26-Aug-22	9:40	62.9	58.4		
26-Aug-22	9:45	64.2	59.3		
26-Aug-22	9:50	63.4	58.6		
01-Sep-22	15:30	63.1	58.3	62.1	65.1
01-Sep-22	15:35	64.2	59.6		
01-Sep-22	15:40	62.8	58.5		
01-Sep-22	15:45	62.9	58.3		
01-Sep-22	15:50	63.1	58.7		
01-Sep-22	15:55	63.3	58.9		
07-Sep-22	9:33	63.6	58.5	61.6	64.6
07-Sep-22	9:38	62.6	58.6		
07-Sep-22	9:43	63.3	59.1		
07-Sep-22	9:48	63.9	58.5		
07-Sep-22	9:53	63.1	58.6		
07-Sep-22	9:58	63.1	58.8		
13-Sep-22	15:22	63.9	58.9	61.6	64.6
13-Sep-22	15:27	63.3	58.0		
13-Sep-22	15:32	62.3	58.0		
13-Sep-22	15:37	64.2	58.5		
13-Sep-22	15:42	63.0	58.5		
13-Sep-22	15:47	63.0	59.5		
19-Sep-22	9:29	63.1	58.2	61.4	64.4
19-Sep-22	9:34	63.7	58.6		
19-Sep-22	9:39	62.9	58.2		
19-Sep-22	9:44	63.5	59.0		
19-Sep-22	9:49	63.7	59.1		
19-Sep-22	9:54	63.9	59.4		
24-Sep-22	15:35	63.0	58.1	61.7	64.7
24-Sep-22	15:40	63.9	59.5		
24-Sep-22	15:45	64.0	57.9		
24-Sep-22	15:50	64.2	58.8		
24-Sep-22	15:55	63.2	59.6		
24-Sep-22	16:00	63.2	59.1		

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)
30-Sep-22	9:04	62.3	58.1	61.5	64.5
30-Sep-22	9:09	63.3	59.1		
30-Sep-22	9:14	62.4	58.5		
30-Sep-22	9:19	63.4	59.3		
30-Sep-22	9:24	64.1	58.0		
30-Sep-22	9:29	62.3	59.1		
06-Oct-22	9:21	63.6	59.5	62.8	65.8
06-Oct-22	9:26	64.8	60.1		
06-Oct-22	9:31	63.6	60.3		
06-Oct-22	9:36	64.4	59.6		
06-Oct-22	9:41	64.4	59.0		
06-Oct-22	9:46	64.4	58.5		
12-Oct-22	15:27	64.0	57.8	61.5	64.5
12-Oct-22	15:32	64.1	58.7		
12-Oct-22	15:37	63.4	59.7		
12-Oct-22	15:42	63.3	58.6		
12-Oct-22	15:47	62.3	57.8		
12-Oct-22	15:52	62.6	58.0		
18-Oct-22	9:23	64.2	58.9	61.4	64.4
18-Oct-22	9:28	62.3	58.7		
18-Oct-22	9:33	63.9	59.7		
18-Oct-22	9:38	63.8	57.8		
18-Oct-22	9:43	63.7	58.0		
18-Oct-22	9:48	63.8	59.6		
24-Oct-22	15:28	64.1	59.5	61.2	64.2
24-Oct-22	15:33	62.6	58.3		
24-Oct-22	15:38	63.3	58.4		
24-Oct-22	15:43	62.6	58.4		
24-Oct-22	15:48	63.0	58.3		
24-Oct-22	15:53	63.0	58.2		
29-Oct-22	9:27	63.3	58.9	61.2	64.2
29-Oct-22	9:32	63.7	59.1		
29-Oct-22	9:37	62.9	58.3		
29-Oct-22	9:42	62.8	59.1		
29-Oct-22	9:47	63.8	59.6		
29-Oct-22	9:52	63.4	59.7		

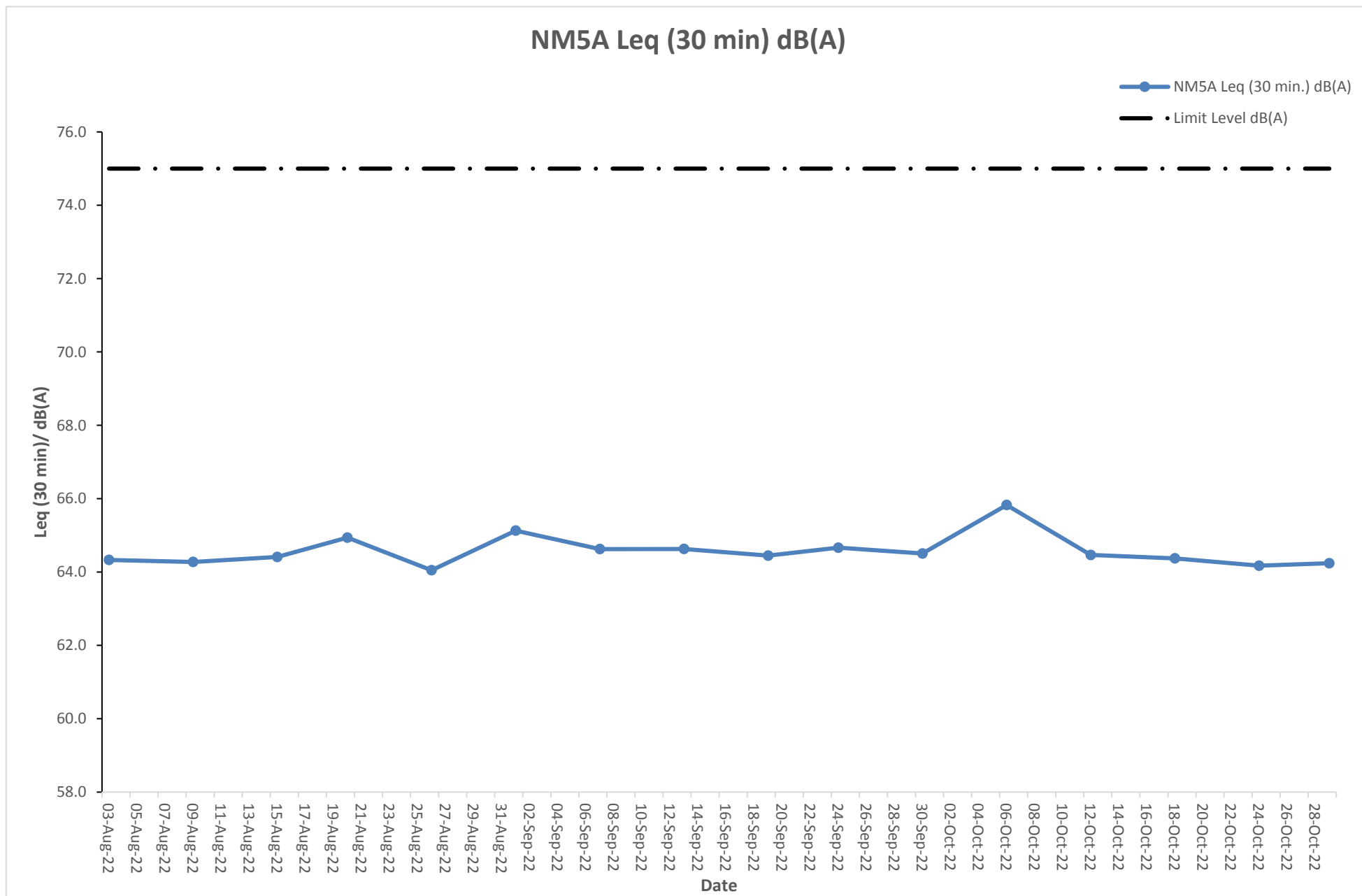
Remarks:

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



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

Graphical Presentation of Noise Monitoring Result at Station NM5A



F. Waste Flow table

Zone 2A

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

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Materials Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Srotng 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)
Aug	113.62	0.00	0.00	0.00	113.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.20
Sep	142.39	0.00	37.09	0.00	99.55	5.75	0.00	0.00	0.00	0.00	0.00	0.00	13.82
Oct	67.20	0.00	67.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.68
Nov													
Dec													
Sub-total (2022)	7880.60	0.00	224.29	1077.83	6572.73	5.75	0.00	19.88	0.00	0.00	0.00	0.80	98.69
Total	96436.80	0.00	1497.01	11808.81	83125.23	5.75	1246.44	240.28	0.00	0.00	0.00	3.40	488.21

Note:

- 56.64 tonnes and 156.53 tonnes of inert C&D material were disposed of as public fill to Tseung Kwan O Area 137 Public Fill and Tuen Mun Area 38 respectively in the reporting quarter.

Zone 2B & 2C

Table I-1: Monthly Waste Flow Table for Zone 2B & 2C

Month	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Materials Generated Monthly					
	Total Quantity Generated	Hard Rocks and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Disposed to Srotng 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	22.58	22.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.19
Nov	9265.04	10.45	125.93	0.00	9128.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.12
Dec	13462.30	62.94	1041.17	0.00	12358.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.62
Sub-total (2021)	22749.92	95.97	1167.10	0.00	21486.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.93
2022													
Jan	17427.64	0.00	2091.32	100.04	15236.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.60
Feb	18230.98	0.00	991.53	1719.99	15519.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90
Mar	24777.12	0.00	2176.32	11721.21	10879.59	0.00	0.00	0.00	0.00	0.00	0.00	1.40	16.15
Apr	32749.58	0.00	2409.00	22393.87	7946.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.79
May	31115.05	0.00	3141.32	15121.57	12852.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.31
Jun	30747.96	0.00	3120.62	14645.87	12981.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.84
Jul	34017.48	0.00	3444.43	10214.91	20358.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.43
Aug	38065.92	0.00	3272.46	3610.61	31182.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.99
Sep	38896.62	0.00	3664.45	2790.24	32441.93	0.00	0.00	15.80	0.00	0.00	0.00	0.00	29.88
Oct	41174.38	0.00	4340.02	2447.22	34387.14	0.00	0.00	86.63	0.00	0.00	0.00	0.00	28.50
Nov													
Dec													
Sub-total (2022)	307202.72	0.00	28651.46	84765.53	193785.73	0.00	0.00	102.43	0.00	0.00	0.00	1.40	182.39
Total	329952.63	95.97	29818.55	84765.53	215272.58	0.00	0.00	102.43	0.00	0.00	0.00	1.40	226.32

- Note:
- 20.40 tonnes, 26353.06 tonnes and 71638.46 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) Sai Sha (Site B) and (2) Poly U

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
This reporting quarter (Aug 22 – Oct 22)	6	0	0
From 03 October 2020 to end of the reporting quarter	41	0	0

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

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of summons	Successful prosecutions
This reporting quarter (Aug 22 – Oct 22)	6	0	0
From 30 September 2021 to end of the reporting quarter	26	0	0

END OF THE REPORT