Vol. 5 of 5

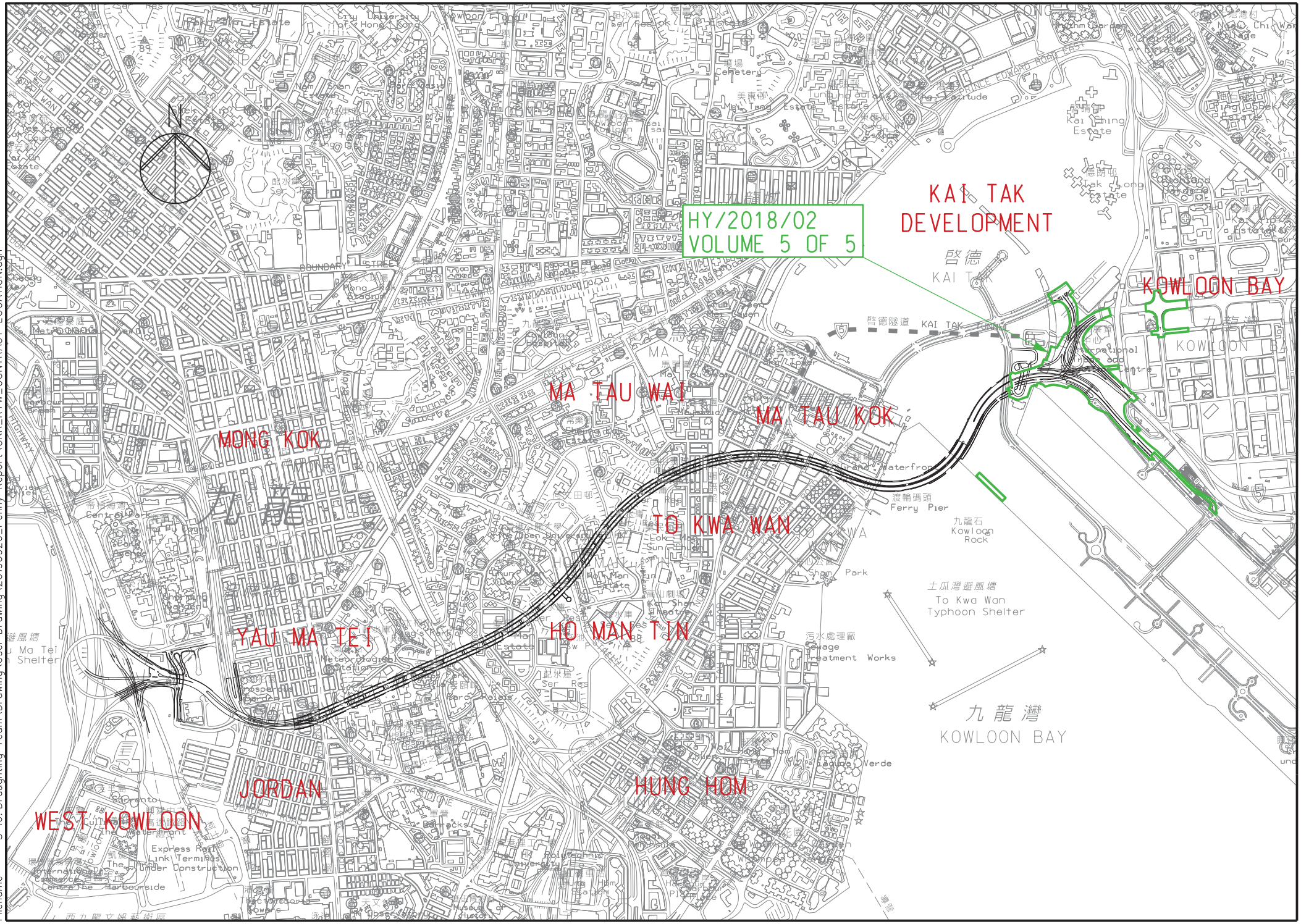
EP-457/2013/C

Central Kowloon Route

Kai Tak East

Contract No. HY/2018/02

August 2020



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路政署
HIGHWAYS DEPARTMENT
主要工程管理處
MAJOR WORKS PROJECT MANAGEMENT OFFICE

ERM

Environmental Permit No. EP-457/2013/C

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	**Kai Tak East (HY/2018/02)**

Reference Document/Plan

Document/~~Plan~~ to be ~~Certified~~/ Verified:	Monthly EM&A Report No.12 (August 2020)
Date of Report:	9 September 2020 (Rev. 1)
Date received by IEC:	9 September 2020

Reference EP Condition

Environmental Permit Condition: 3.4

Submission of Monthly EM&A Report of the Project

3.4 Four hard copies and one electronic copy of monthly EM&A Report shall be submitted to the Director within 2 weeks after the end of each reporting month throughout the entire construction period. The EM&A Reports shall include a summary of all non-compliance. The submissions shall be certified by the ET Leader and verified by the IEC as complying with the requirements as set out in the EM&A Manual before submission to the Director. Additional copies of the submission shall be provided to the Director upon request by the Director.

IEC Verification

I hereby verify that the above referenced document/~~plan~~ complies with the above referenced condition of EP-457/2013/C.

Ms Mandy To Date: 9 September 2020

Independent Environmental Checker

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.12.docx

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Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

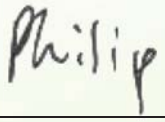
Section of Kai Tak East

Monthly EM&A Report No. 12

(Period from 1 to 31 August 2020)

Rev. 1

(9 Sep 2020)

	Name	**Signature**
Prepared by	Philip Y. N. Chan (Assistant Environmental Consultant)	
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Approved & Certified by	Kevin W. M. Li (Environmental Team Leader)	

TABLE OF CONTENTS

LIST OF APPENDICES

EXECUTIVE SUMMARY

A.1 Alchmex – Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This is the 12th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 Aug 2020 to 31 Aug 2020.

A.2 A summary of major Construction activities by Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Ground Investigation at Portion 2B & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
- Bored Pile at Portion 1A, 2B, 3B & Kai Cheung Loop Road.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah.

A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (24-hour TSP) monitoring	
E-A1	5 times
Construction dust (1-hour TSP) monitoring	
E-A1	15 times

A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 4, 12, 20 and 26 August 2020. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 12 August 2020. Details of the audit findings and implementation status are presented in Section 5.

A.5 Bi-weekly inspection of the implementation of landscape and visual mitigation measures by ET was conducted on 4 and 20 August 2020. Details of the audit findings and implementation status are presented in Section 5.

A.6 Details of waste management are presented in Section 3.

A.7 No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring were recorded during the reporting month.

A.8 No complaint or non-compliance was received in the reporting month.

A.9 No notification of summons and prosecution was received in the reporting period.

A.10 A summary of Construction Activities provided by Contractor in next reporting month is listed below:

Construction Activities to be undertaken
• Bored Pile at Portion 1A, 2B, 3B & Kai Cheung Loop Road.
• Foundation Work for the Foot Bridge at Kai Fuk Road.
• Sheetpiling Works for Adit at Area 1D3.
• Sheetpiling Works for Underpass at Portion 3B.
• Construction of Marine Platform at Kai Tak Nallah.
• Reconstruction of Box Culvert at Portion 2B.

1. BASIC PROJECT INFORMATION

1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.

1.2. The Central Kowloon Route – Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/C) was issued by EPD on 16 January 2017.

1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2018/02 – Section of Kai Tak East (KTE) covers part of the construction activities located at Kai Tak under the EP which includes:

- Section of Kai Tak East

i. construction of an approximately 700m long dual 2-lane Central Kowloon Route mainline at Kai Tak, including at-grade roads and bridges;

ii. construction of Kai Tak Interchange, including bridges, underpass, and associated at-grade slip roads, connecting the Central Kowloon Route with the existing road network;

iii. construction of a footbridge, and demolition/backfill of an existing subway across Kai Fuk Road;

iv. realignment of existing Kai Fuk Road, Kai Cheung Road and Kai Cheung Road/Kai Fuk Road loop road;

v. reconstruction of an approximately 30m long existing multi-cell box culvert;

vi. construction of an approximately 130m long underground ventilation and E&M audit;

vii. construction of Ring Road Underpass, connecting Central Kowloon Route mainline and Central Kowloon Route Administration Building;

viii. junction improvement works at existing Wang Kwong Road/Kai Cheung Road and Wang Kwong Road/Lam Hing Street junctions;

ix. arrangement and implementation of cross boundary disposal of construction and demolition materials; and

x. associated roadworks, drainage, waterworks, landscaping works, geotechnical works, and electrical and mechanical works.

The alignment and works area for the Contract No. HY/2018/02 - are shown in Appendix A.

1.4. A summary of major construction activities provided by the Contractor in this reporting period is shown in Table 1.1. The construction programme is presented in Appendix B.

Table 1.1 Summary of Construction Activities provided by Contractor during this Reporting Month.

Construction Activities undertaken
• Ground Investigation at Portion 2B & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
• Bored Pile at Portion 1A, 2B, 3B & Kai Cheung Loop Road.
• Foundation Work for the Foot Bridge at Kai Fuk Road.
• Sheetpiling Works for Adit at Area 1D3.
• Sheetpiling Works for Underpass at Portion 3B.
• Construction of Marine Platform at Kai Tak Nallah.

1.5. The project organisational chart specifying management structure and contact details are shown in Appendix C.

1.6. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.2

Table 1.2 Summary of the Status of Valid Environmental Licence, Notification, Permit and Documentations

Permit/ Licences/ Notification /Reference No.	Valid Period		Status	Remark
	From	To		
Environmental Permit				
EP-457/2013/C	23 Apr 2019	End of Project	Valid	-
Wastewater Discharge License				
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Producer Registration				
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Disposal of Construction Waste				
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permit				
GW-RE0298-20	5-May-20	5-Aug-20	Superseded by GW-RE0398-20	Central Divider Removal
GW-RE0398-20	21-May-20	18-Aug-20	Valid until 18-Aug-20	
GW-RE0160-20	16-Mar-20	15-Sep-20	Superseded by GW-RE0415-20	General Work for Area A
GW-RE0415-20	29-May-20	15-Sep-20	Valid	
GW-RE0097-20	24-Feb-20	11-Aug-20	Superseded by GW-RE0321-20	General Work for Area B and Site Office
GW-RE0321-20	6-May-20	28-Oct-20	Valid	
GW-RE0551-20	4-Jul-20	3-Jan-21	Valid	Kai Cheung U Turns
GW-RE0600-20	26-Jul-20	25-Nov-20	Valid	Portion 2B
GW-RE0352-20	16-May-20	9-Aug-20	Valid until 9-Aug-20	Temporary Decking at Kai Fuk Road
GW-RE0511-20	16-Jun-20	10-Aug-20	Valid until 10-Aug-20	Watermain Diversion
GW-RE0528-20	27-Jun-20	26-Sep-20	Valid	BEM Office
GW-RE0608-20	27-Jul-20	29-Aug-20	Valid until 29-Aug-20	Street Light Relocation
GW-RE0620-20	28-Jul-20	29-Aug-20	Valid until 29-Aug-20	High Mast CCTV
GW-RE0632-20	31-Jul-20	29-Aug-20	Valid until 29-Aug-20	Road Paving at Kai Fuk Road
GW-RE0625-20	25-Aug-20	13-Sep-20	Valid	Night work at KITEC bus stop

2. ENVIRONMENTAL STATUS

2.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (EP-457/2013/C) as of the reporting period for the Project are summarised in Table 2.1

Table 2.1 Summary of Status of Required Submission for EP-457/2013/C for the Project

EP Condition (EP-457/2013/C)	Submission	Submission date
Condition 1.12	Notification of Commencement Date of Construction of the Project	26 Jul 2019
Condition 2.4	Management organisation of the main construction companies	26 Jul 2019
Condition 2.5	Construction Programme and EP Submission Schedule	26 Jul 2019
Condition 2.6	Design Drawing	26 Jul 2019
Condition 2.8	Landscape Mitigation Plan	26 Jul 2019
Condition 3.3	Baseline Monitoring Report	21 Aug 2019
Condition 3.4	Monthly EM&A Report (July 2020)	14 Aug 2020

2.2. Details of the major construction activities provided by the Contractor in this reporting period are shown in Table 2.2.

Table 2.2 Summary of Construction Activities provided by Contractor during the Reporting Month.

Construction Activities undertaken

- Ground Investigation at Portion 2B & 3B & Kai Cheung U Turn & Kai Cheung Loop Road.
- Bored Pile at Portion 1A, 2B, 3B & Kai Cheung Loop Road.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah.

2.3. The drawing showing the the project layout and the location of the monitoring station and environmental sensitive receivers are attached in Appendix A and Appendix J. Co-ordinates of the monitoring location is shown in below:

Table 2.3 Summary for the location of monitoring station

Monitoring Location	Location ID	Latitude	Longitude
Hong Kong International Trade and Exhibition Centre	E-A1	22.323912	114.203512

3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

3.1.1. The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.

3.1.2. The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.

3.1.3. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

3.2. Monitoring Equipment

Air Quality

3.2.1. 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).

3.2.2. The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in Appendix H.

3.2.3. A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 3.1. The TSP monitoring was conducted as per the schedule presented in Appendix G.

3.2.4. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Table 3.1 Construction Dust Monitoring Equipment

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	882106	22 Jul 2020
	TE-5170X High Volume Sampler	1049	22 Jul 2020, 6 and 21 Aug 2020
	TE-5028A Calibration Kit	3702	10 Oct 2019

3.3. Monitoring Methodology and QA/QC results

Air Quality

3.3.1. The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.

3.3.2. The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170x High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:

- The HVS was set at the monitoring location, with electricity supply connected and secured;
- HVS was calibrated before commencing the 1st measurement;
- The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix I;
- The airflow over time during sampling process was recorded by the HVS.

3.3.3. HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:

- Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
- A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
- No furnace or incinerator flues was nearby;
- Airflow around the sampler was unrestricted; and
- Permission could be obtained to set up the samplers and gain access to the monitoring station.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring
- A secured supply of electricity is needed to operate the samplers.

3.3.4. Preparation of Filter Papers

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25℃ and not varied by more than ±3℃; the relative humidity (RH)was 40%; and

- Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Limited, as HOKLAS accredited laboratory, implemented comprehensive quality assurance and quality control programmes on the filters.

3.3.5. Field Monitoring

- The power supply was checked to ensure that the HVS was working properly;
- The filter holder and area surrounding the filter were cleaned;
- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 1.10-1.13 m^3min^{-1}, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m^3min^{-1});
- The programmable timer was set for a sampling period of 24 hours ±hour, and the starting time, weather condition and filter number were recorded;
- The initial elapsed time was recorded;
- At the end of sampling, the sampled filter was removed carefully and folded in half so that only surfaces with collected particulate matter were in contact;
- The filter paper was placed in a clean plastic envelope and sealed; all monitoring information was recorded on a standard data sheet and
- The filters were sent to (Acumen Laboratory and Testing Ltd and ALS Technichem (HK) Pty Ltd) for analysis.

3.3.6. Maintenance and Calibration

- The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
- The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five- point calibration was carried out for HVS using TE-5028A Calibration Kit. HVS is calibrated in fortnightly Intervals. The calibration records for the HVS is given in Appendix H.

3.3.7. Wind Data Monitoring

- The wind speed has been recorded from Hong Kong Observatory- King's Park meteorological station, along with portable wind speed meter stand by as back up if malfunction occurred or data was not recorded from HKO

3.4. Monitoring Locations

Air Quality

3.4.1. During the site visit, air monitoring station Hong Kong International Trade and Exhibition Centre had been recommended in the approved EM&A Manual and approved by IEC. A designated air monitoring location was identified and agreed with IEC and EPD. Detail of the air monitoring station is described in Table 3.2. The location plan of air quality monitoring stations is shown in Appendix J.

Table 3.2 Location of the Dust Monitoring Stations

Air Quality Monitoring Station	Dust Monitoring Station
E-A1	Hong Kong International Trade and Exhibition Centre

3.5. Monitoring date, time, frequency and duration

3.5.1. A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 3.3.

Table 3.3: Summary of Impact Monitoring Programme

Impact Monitoring	Duration	Sampling Parameter	Frequency
Dust	1-hour continuous measurement	1-hour TSP	3 times per six days
Dust	24-hour continuous sampling	24-hour TSP	Once per six days

3.6. Result Summary

Air Quality

3.6.1. According to our field observations, the major dust source identified at the designated air quality monitoring station in the reporting month are summarised in Table 3.4

Table 3.4 Observation at Dust Monitoring Station

Monitoring Station	Major Dust Source
E-A1	Nearby traffic

3.6.2. Air quality impact monitoring for the reporting month was carried out on 4, 10, 15, 21 and 27 August 2020 at E-A1.

3.6.3. The results for 1-hour TSP and 24-hour TSP are summarized in Table 3.5 and Table 3.6. The measurement data and details of influencing factors such as weather conditions and site observation are presented in Appendix K.

Table 3.5 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range(μg/m^3)	Action Level(μg/m^3)	Limit Level(μg/m^3)
E-A1	36 - 54	279	500

Table 3.6 Summary of 24-hour TSP Monitoring Results

Monitoring Location	Range(μg/m^3)	Action Level(μg/m^3)	Limit Level(μg/m^3)
E-A1	12 - 52	142	260

Waste management

3.6.4. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.7. Details of cumulative waste management data are presented as a waste flow table in Appendix L.

Table 3.7 Quantities of waste generated from the Project

Reporting period	Quantity					
	Inert C&D Materials (in 'tonnes)	Chemical Waste (in'000 Kg)	Non-inert C&D Materials			
			Others, e.g. General Refuse disposed at Landfill (in 'tonnes)	Recycled materials		
				Paper/card board (in '000 Kg)	Plastics (in '000 Kg)	Metals (in '000 Kg)
Aug-2020	11,316.5	0.0	38.8	0.1	0.0	0.0

4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

4.1. The Environmental Complaint Handling Procedure is shown in below Table 4.1:

Table 4.1 Environmental Complaint Handling Procedure

Complaint Received via Project Hotline	Complaint Received via 1823 or from other government departments
Contractor notify ER, ET and IEC	ER notify Contractor, ET and IEC
Contractor log complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint	
If complaint is considered not valid	If complaint is found valid
ET or ER to reply the complainant if necessary	Contractor to identify and implement remedial measures in consultation with the IEC, ET and ER.
	The ER, ET and IEC to review the effectiveness of the Contractor's remedial measures and the updated situation; ET to undertake additional monitoring and audit to verify the situation if necessary, and oversee that circumstances leading to the complaint do not recur. ER to conduct further inspection as necessary.
If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the complaint investigation and follow-up actions stipulated above, including the details of the remedial measures and additional monitoring identified or already taken, for submission to EPD within the time frame assigned by the EPD	
The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, supported by regular and additional monitoring results in the monthly EM&A reports	

4.2. Should non-compliance of the criteria occur, action in accordance with the Action Plan in Appendix D and Appendix E shall be carried out.

4.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded during the reporting month.

4.4. No complaint and non-compliance were received in the reporting month.

4.5. No notification of summons and successful prosecution was received in the reporting period.

4.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix M.

5. EM&A SITE INSPECTION

5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 4, 12, 20 and 26 Aug 2020, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 4 and 20 Aug 2020.

5.2. One joint site inspection with IEC also undertaken on 12 Aug 2020. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Table 5.1 Site Observations

Date	Environmental Observations	Follow-up Status
4 Aug 2020	1. Stockpile of dusty material was observed being stored without covering by impervious sheeting completely at Portion 2B and BEM office.	1. Stockpile of dusty material was covered by impervious sheeting.
12 Aug 2020	1. Wastewater should be treated before discharge near the gate of Portion 3B. 2. NRMM label should be displayed on crane lorry at Portion 3B next to Kai Tak River.	1. Sand bags were provided to block the untreated water run-off. 2. NRMM label was provided.
20 Aug 2020	1. Stagnant water was found on drip tray at KITEC.	1. Stagnant water was removed.
26 Aug 2020	1. Cleaning should be provided to the gate of Portion 3B. 2. Water barriers should be sealed to prevent muddy water runoff at Kai Fuk Road Loop Road.	1. The road was maintained clean. 2. Sand bags were provided.

5.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.

5.4. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents had been implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in Appendix F.

6. FUTURE KEY ISSUES

6.1. The construction activities provided by Contractor in the next reporting month are:

- Bored Pile at Portion 1A, 2B, 3B & Kai Cheung Loop Road.
- Foundation Work for the Foot Bridge at Kai Fuk Road.
- Sheetpiling Works for Adit at Area 1D3.
- Sheetpiling Works for Underpass at Portion 3B.
- Construction of Marine Platform at Kai Tak Nallah.
- Reconstruction of Box Culvert at Portion 2B.

6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.

6.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix N.

6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

7. CONCLUSION AND RECOMMENDATIONS

7.1. This 12th monthly EM&A Report presents the EM&A works undertaken during the period from 1 Aug 2020 to 31 Aug 2020 in accordance with the EM&A Manual and the requirement under EP- 457/2013/C.

7.2. Air quality (including 1-hour TSP and 24-hour TSP) was carried out in the reporting period. No exceedance of the Action and Limit Level was recorded for air quality impact monitoring during the reporting month.

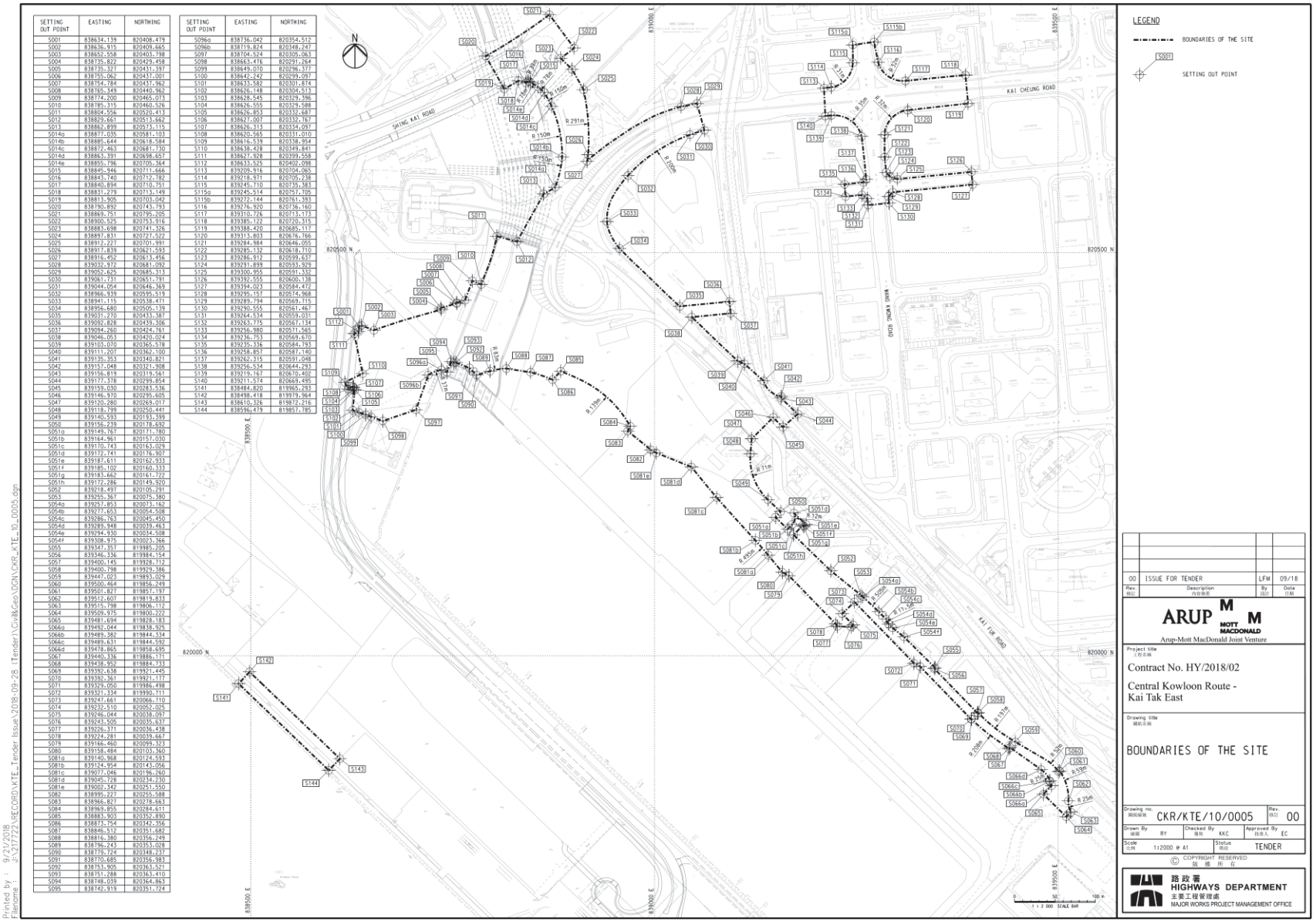
7.3. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. Joint site inspection with IEC were carried out on 12 Aug 2020. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.

7.4. No complaint and non-compliance situation were received in the reporting month.

7.5. No notification of summons or prosecution was received since commencement of the Contract.

7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix A
Alignment and Works Area for the Contract No. HY/2018/02



SETTING OUT POINT	EASTING	NORTHING
S001	838634.139	820408.479
S002	838636.915	820409.665
S003	838652.558	820403.798
S004	838735.822	820429.458
S005	838735.327	820431.397
S006	838755.062	820437.001
S007	838754.784	820437.962
S008	838765.349	820440.962
S009	838774.200	820465.073
S010	838785.315	820460.526
S011	838804.556	820520.413
S012	838829.661	820513.662
S013	838862.899	820573.115
S014g	838877.035	820581.103
S014b	838885.644	820618.584
S014c	838872.463	820681.730
S014d	838863.391	820698.657
S014e	838855.796	820705.364
S015	838845.946	820711.666
S016	838843.740	820717.782
S017	838840.894	820710.751
S018	838831.278	820713.149
S019	838813.905	820703.047
S020	838790.892	820745.793
S021	838869.751	820795.205
S022	838900.525	820753.916
S023	838883.698	820741.326
S024	838897.831	820727.522
S025	838912.227	820701.981
S026	838917.639	820621.593
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S029	839052.625	820685.313
S030	839061.731	820651.791
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S034	838956.680	820505.139
S035	839031.270	820433.387
S036	839092.828	820439.306
S037	839094.260	820424.761
S038	839046.053	820420.024
S039	839103.070	820365.578
S040	839111.207	820362.100
S041	839135.353	820340.821
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S043	839156.819	820319.561
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S045	839159.030	820283.536
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S051a	839149.767	820171.780
S051b	839164.961	820157.030
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S054a	839257.853	820073.162
S054b	839277.653	820054.508
S054c	839286.763	820045.450
S054d	839289.948	820039.463
S054e	839294.930	820034.508
S054f	839308.975	820023.366
S055	839347.357	819985.205
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S066b	839489.382	819844.334
S066c	839489.631	819844.592
S066d	839478.865	819858.695
S067	839440.336	819886.171
S068	839438.952	819884.733
S069	839392.638	819921.445
S070	839392.361	819921.177
S071	839329.050	819986.498
S072	839321.354	819990.711
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S093	838751.288	820363.410
S094	838748.039	820364.863
S095	838742.919	820351.724

SETTING OUT POINT	EASTING	NORTHING
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S098	838663.476	820291.264
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S100	838642.242	820299.097
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S102	838626.148	820304.513
S103	838628.545	820329.396
S104	838626.555	820329.588
S105	838626.853	820332.687
S106	838627.007	820332.767
S107	838626.313	820334.097
S108	838620.565	820331.010
S109	838616.539	820338.954
S110	838638.428	820349.841
S111	838627.928	820389.558
S112	838633.525	820402.098
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S115b	839272.144	820761.393
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S117	839310.726	820713.173
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S120	839313.803	820676.766
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S137	839262.315	820591.048
S138	839256.534	820644.293
S139	839219.167	820670.402
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S141	838484.820	819965.293
S142	838498.418	819979.964
S143	838610.326	819872.216
S144	838596.479	819857.785

LEGEND

BOUNDARIES OF THE SITE

S001 SETTING OUT POINT

Rev. 修訂	Description 內容簡要	By 經辦	Date 日期
00	ISSUE FOR TENDER	LFM	09/18

ARUP MOTT MACDONALD
Arup-Mott MacDonald Joint Venture

Project title 工程名稱
Contract No. HY/2018/02
Central Kowloon Route - Kai Tak East

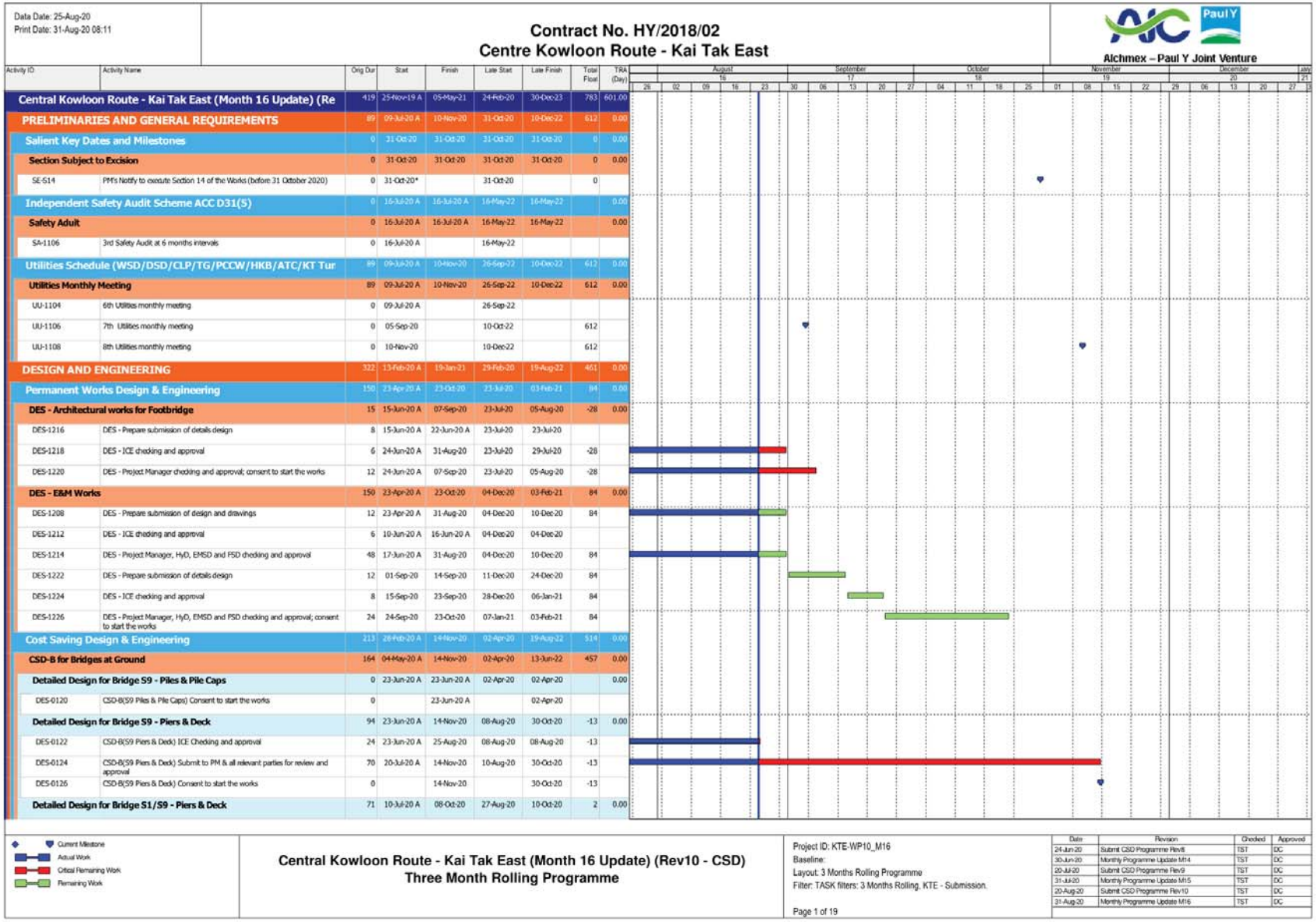
Drawing title 圖紙名稱
BOUNDARIES OF THE SITE

Drawing no. 圖紙編號	CKR/KTE/10/0005	Rev. 修訂	00
Drawn By 繪圖	RY	Checked By 複核	KKC
Approved By 批准人	EC		
Scale 比例	1:2000 @ A1	Status 狀況	TENDER

路政署 HIGHWAYS DEPARTMENT
主要工程管理處 MAJOR WORKS PROJECT MANAGEMENT OFFICE

Printed by : 9/21/2018
Filename : J:\217723\RECORD\KTE_Tender Issue\2018-09-28 (Tender)\Civil&Geo\DGN\CKR_KTE_10_0005.dgn

Appendix B
Construction Programme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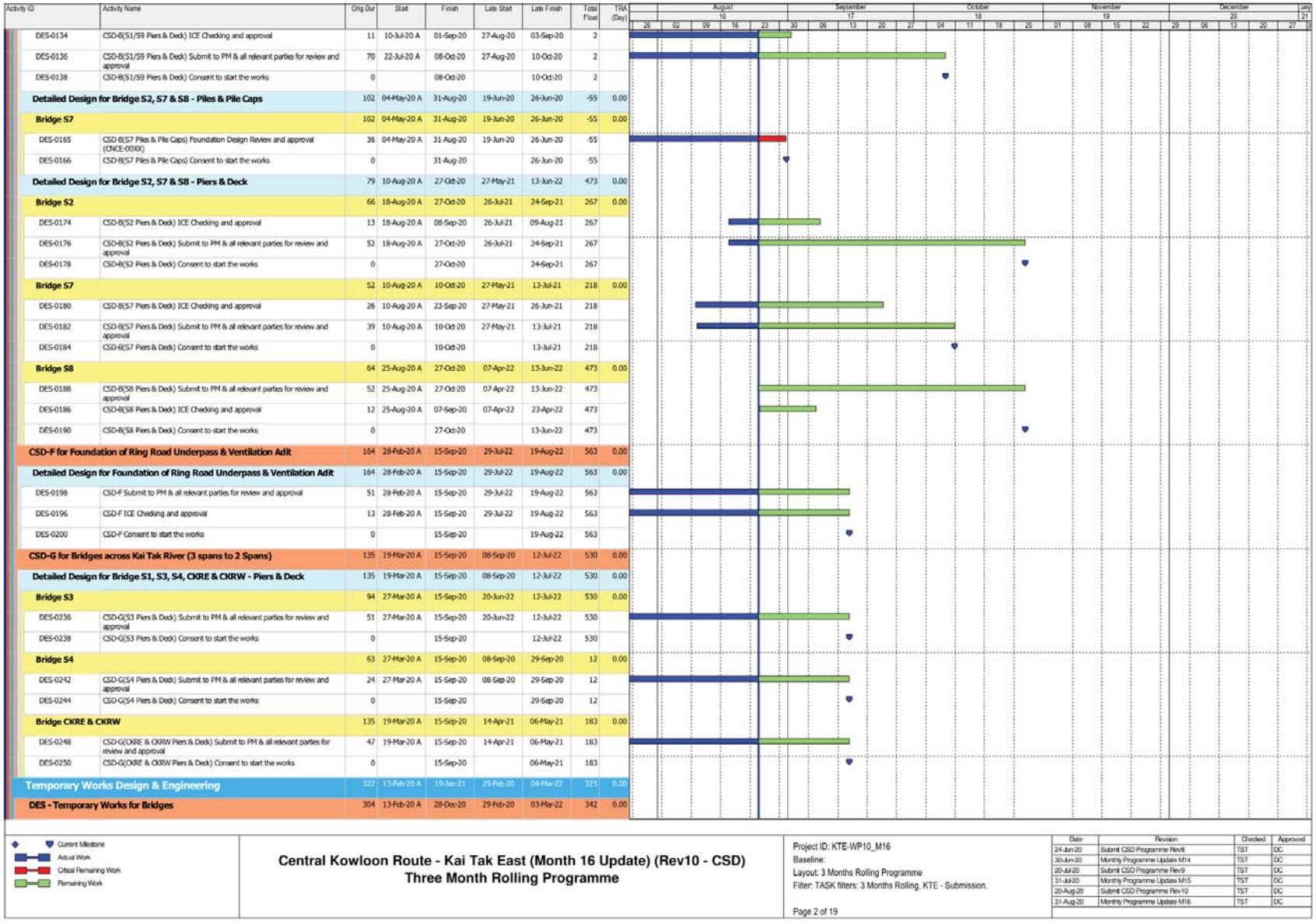
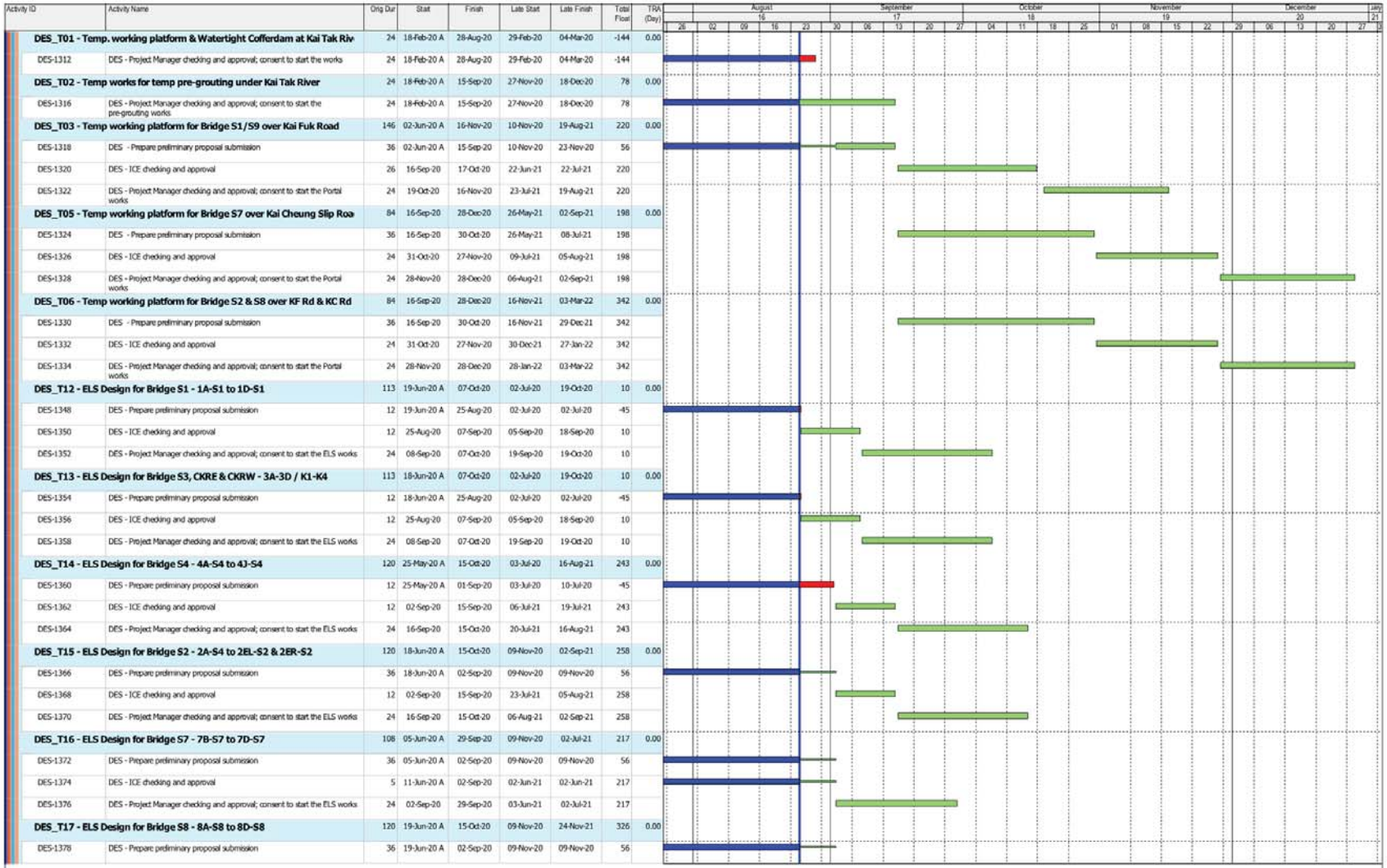
Print Date: 31-Aug-20 08:11
Contract No. HY/2018/02
Centre Kowloon Route - Kai Tak East
Alchmex – Paul Y Joint Venture
Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme
Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.
Page 1 of 19



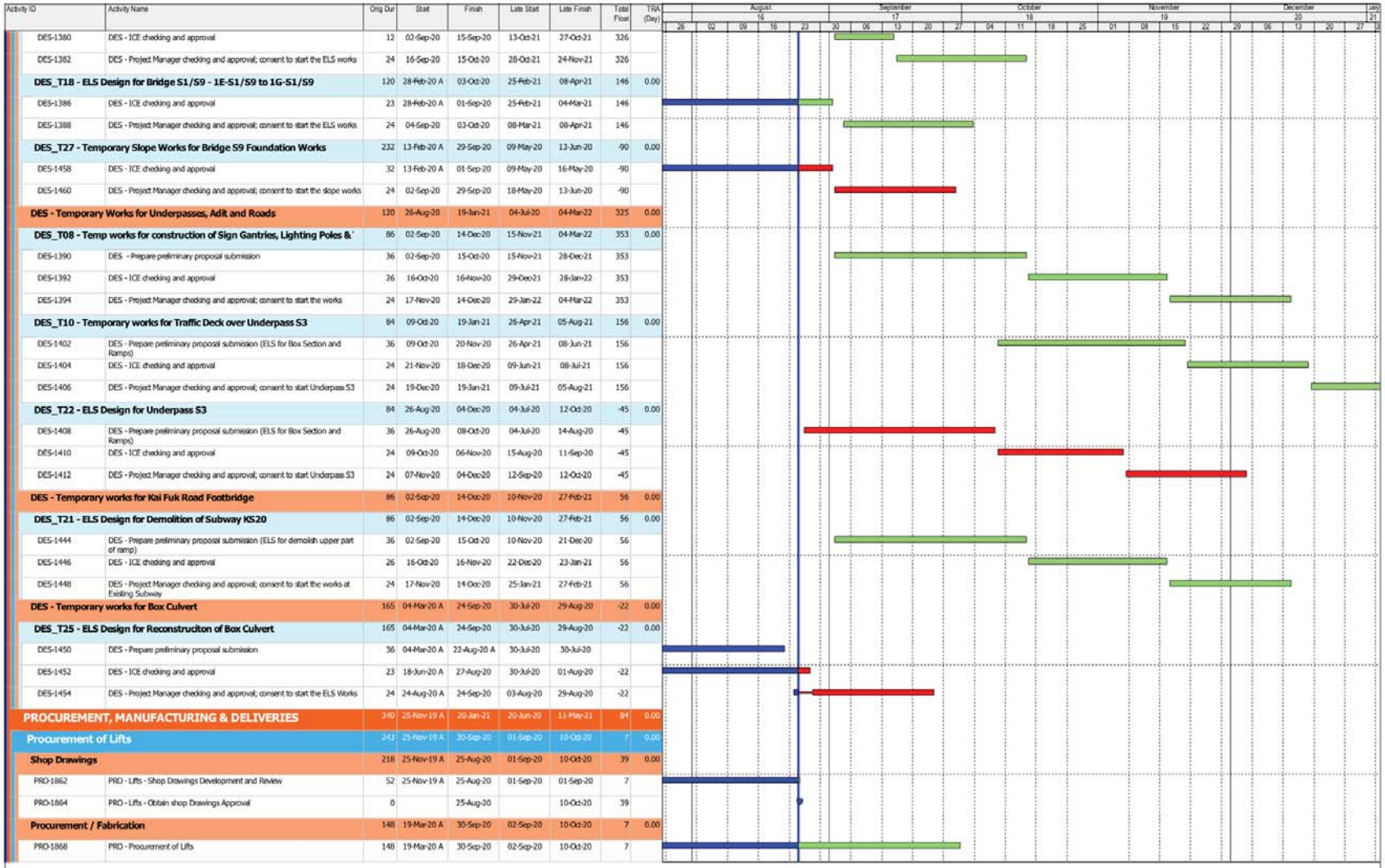
Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
DES-0134	CSD-B(S1/S9 Piers & Deck) ICE Checking and approval	11	10-Jul-20 A	01-Sep-20	27-Aug-20	03-Sep-20	2	
DES-0136	CSD-B(S1/S9 Piers & Deck) Submit to PM & all relevant parties for review and approval	70	22-Jul-20 A	08-Oct-20	27-Aug-20	10-Oct-20	2	
DES-0138	CSD-B(S1/S9 Piers & Deck) Consent to start the works	0		08-Oct-20		10-Oct-20	2	
Detailed Design for Bridge S2, S7 & S8 - Piles & Pile Caps		102	04-May-20 A	31-Aug-20	19-Jun-20	26-Jun-20	-55	0.00
Bridge S7		102	04-May-20 A	31-Aug-20	19-Jun-20	26-Jun-20	-55	0.00
DES-0165	CSD-B(S7 Piles & Pile Caps) Foundation Design Review and approval (CNCE-0010)	36	04-May-20 A	31-Aug-20	19-Jun-20	26-Jun-20	-55	
DES-0166	CSD-B(S7 Piles & Pile Caps) Consent to start the works	0		31-Aug-20		26-Jun-20	-55	
Detailed Design for Bridge S2, S7 & S8 - Piers & Deck		79	10-Aug-20 A	27-Oct-20	27-May-21	13-Jun-22	473	0.00
Bridge S2		66	18-Aug-20 A	27-Oct-20	26-Jul-21	24-Sep-21	267	0.00
DES-0174	CSD-B(S2 Piers & Deck) ICE Checking and approval	13	18-Aug-20 A	08-Sep-20	26-Jul-21	09-Aug-21	267	
DES-0176	CSD-B(S2 Piers & Deck) Submit to PM & all relevant parties for review and approval	52	18-Aug-20 A	27-Oct-20	26-Jul-21	24-Sep-21	267	
DES-0178	CSD-B(S2 Piers & Deck) Consent to start the works	0		27-Oct-20		24-Sep-21	267	
Bridge S7		52	10-Aug-20 A	10-Oct-20	27-May-21	13-Jul-21	218	0.00
DES-0180	CSD-B(S7 Piers & Deck) ICE Checking and approval	26	10-Aug-20 A	23-Sep-20	27-May-21	26-Jun-21	218	
DES-0182	CSD-B(S7 Piers & Deck) Submit to PM & all relevant parties for review and approval	39	10-Aug-20 A	10-Oct-20	27-May-21	13-Jul-21	218	
DES-0184	CSD-B(S7 Piers & Deck) Consent to start the works	0		10-Oct-20		13-Jul-21	218	
Bridge S8		64	25-Aug-20 A	27-Oct-20	07-Apr-22	13-Jun-22	473	0.00
DES-0188	CSD-B(S8 Piers & Deck) Submit to PM & all relevant parties for review and approval	52	25-Aug-20 A	27-Oct-20	07-Apr-22	13-Jun-22	473	
DES-0186	CSD-B(S8 Piers & Deck) ICE Checking and approval	12	25-Aug-20 A	07-Sep-20	07-Apr-22	23-Apr-22	473	
DES-0190	CSD-B(S8 Piers & Deck) Consent to start the works	0		27-Oct-20		13-Jun-22	473	
CSD-F for Foundation of Ring Road Underpass & Ventilation Adit		164	28-Feb-20 A	15-Sep-20	29-Jul-22	19-Aug-22	563	0.00
Detailed Design for Foundation of Ring Road Underpass & Ventilation Adit		164	28-Feb-20 A	15-Sep-20	29-Jul-22	19-Aug-22	563	0.00
DES-0198	CSD-F Submit to PM & all relevant parties for review and approval	51	28-Feb-20 A	15-Sep-20	29-Jul-22	19-Aug-22	563	
DES-0196	CSD-F ICE Checking and approval	13	28-Feb-20 A	15-Sep-20	29-Jul-22	19-Aug-22	563	
DES-0200	CSD-F Consent to start the works	0		15-Sep-20		19-Aug-22	563	
CSD-G for Bridges across Kai Tak River (3 spans to 2 Spans)		135	19-Mar-20 A	15-Sep-20	08-Sep-20	12-Jul-22	530	0.00
Detailed Design for Bridge S1, S3, S4, CKRE & CKRW - Piers & Deck		135	19-Mar-20 A	15-Sep-20	08-Sep-20	12-Jul-22	530	0.00
Bridge S3		94	27-Mar-20 A	15-Sep-20	20-Jun-22	12-Jul-22	530	0.00
DES-0236	CSD-G(S3 Piers & Deck) Submit to PM & all relevant parties for review and approval	51	27-Mar-20 A	15-Sep-20	20-Jun-22	12-Jul-22	530	
DES-0238	CSD-G(S3 Piers & Deck) Consent to start the works	0		15-Sep-20		12-Jul-22	530	
Bridge S4		63	27-Mar-20 A	15-Sep-20	08-Sep-20	29-Sep-20	12	0.00
DES-0242	CSD-G(S4 Piers & Deck) Submit to PM & all relevant parties for review and approval	24	27-Mar-20 A	15-Sep-20	08-Sep-20	29-Sep-20	12	
DES-0244	CSD-G(S4 Piers & Deck) Consent to start the works	0		15-Sep-20		29-Sep-20	12	
Bridge CKRE & CKRW		135	19-Mar-20 A	15-Sep-20	14-Apr-21	06-May-21	183	0.00
DES-0248	CSD-G(CKRE & CKRW Piers & Deck) Submit to PM & all relevant parties for review and approval	47	19-Mar-20 A	15-Sep-20	14-Apr-21	06-May-21	183	
DES-0250	CSD-G(CKRE & CKRW Piers & Deck) Consent to start the works	0		15-Sep-20		06-May-21	183	
Temporary Works Design & Engineering		322	13-Feb-20 A	19-Jan-21	29-Feb-20	04-Mar-22	325	0.00
DES - Temporary Works for Bridges		304	13-Feb-20 A	28-Dec-20	29-Feb-20	03-Mar-22	342	0.00

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
DES_T01 - Temp. working platform & Watertight Cofferdam at Kai Tak Riv		24	18-Feb-20 A	28-Aug-20	29-Feb-20	04-Mar-20	-144	0.00
DES-1312	DES - Project Manager checking and approval; consent to start the works	24	18-Feb-20 A	28-Aug-20	29-Feb-20	04-Mar-20	-144	
DES_T02 - Temp works for temp pre-grouting under Kai Tak River		24	18-Feb-20 A	15-Sep-20	27-Nov-20	18-Dec-20	78	0.00
DES-1316	DES - Project Manager checking and approval; consent to start the pre-grouting works	24	18-Feb-20 A	15-Sep-20	27-Nov-20	18-Dec-20	78	
DES_T03 - Temp working platform for Bridge S1/S9 over Kai Fuk Road		146	02-Jun-20 A	16-Nov-20	10-Nov-20	19-Aug-21	220	0.00
DES-1318	DES - Prepare preliminary proposal submission	36	02-Jun-20 A	15-Sep-20	10-Nov-20	23-Nov-20	56	
DES-1320	DES - ICE checking and approval	26	16-Sep-20	17-Oct-20	22-Jun-21	22-Jul-21	220	
DES-1322	DES - Project Manager checking and approval; consent to start the Portal works	24	19-Oct-20	16-Nov-20	23-Jul-21	19-Aug-21	220	
DES_T05 - Temp working platform for Bridge S7 over Kai Cheung Slip Roa		84	16-Sep-20	28-Dec-20	26-May-21	02-Sep-21	198	0.00
DES-1324	DES - Prepare preliminary proposal submission	36	16-Sep-20	30-Oct-20	26-May-21	08-Jul-21	198	
DES-1326	DES - ICE checking and approval	24	31-Oct-20	27-Nov-20	09-Jul-21	05-Aug-21	198	
DES-1328	DES - Project Manager checking and approval; consent to start the Portal works	24	28-Nov-20	28-Dec-20	06-Aug-21	02-Sep-21	198	
DES_T06 - Temp working platform for Bridge S2 & S8 over KF Rd & KC Rd		84	16-Sep-20	28-Dec-20	16-Nov-21	03-Mar-22	342	0.00
DES-1330	DES - Prepare preliminary proposal submission	36	16-Sep-20	30-Oct-20	16-Nov-21	29-Dec-21	342	
DES-1332	DES - ICE checking and approval	24	31-Oct-20	27-Nov-20	30-Dec-21	27-Jan-22	342	
DES-1334	DES - Project Manager checking and approval; consent to start the Portal works	24	28-Nov-20	28-Dec-20	28-Jan-22	03-Mar-22	342	
DES_T12 - ELS Design for Bridge S1 - 1A-S1 to 1D-S1		113	19-Jun-20 A	07-Oct-20	02-Jul-20	19-Oct-20	10	0.00
DES-1348	DES - Prepare preliminary proposal submission	12	19-Jun-20 A	25-Aug-20	02-Jul-20	02-Jul-20	-45	
DES-1350	DES - ICE checking and approval	12	25-Aug-20	07-Sep-20	05-Sep-20	18-Sep-20	10	
DES-1352	DES - Project Manager checking and approval; consent to start the ELS works	24	08-Sep-20	07-Oct-20	19-Sep-20	19-Oct-20	10	
DES_T13 - ELS Design for Bridge S3, CKRE & CKRW - 3A-3D / K1-K4		113	18-Jun-20 A	07-Oct-20	02-Jul-20	19-Oct-20	10	0.00
DES-1354	DES - Prepare preliminary proposal submission	12	18-Jun-20 A	25-Aug-20	02-Jul-20	02-Jul-20	-45	
DES-1356	DES - ICE checking and approval	12	25-Aug-20	07-Sep-20	05-Sep-20	18-Sep-20	10	
DES-1358	DES - Project Manager checking and approval; consent to start the ELS works	24	08-Sep-20	07-Oct-20	19-Sep-20	19-Oct-20	10	
DES_T14 - ELS Design for Bridge S4 - 4A-S4 to 4J-S4		120	25-May-20 A	15-Oct-20	03-Jul-20	16-Aug-21	243	0.00
DES-1360	DES - Prepare preliminary proposal submission	12	25-May-20 A	01-Sep-20	03-Jul-20	10-Jul-20	-45	
DES-1362	DES - ICE checking and approval	12	02-Sep-20	15-Sep-20	06-Jul-21	19-Jul-21	243	
DES-1364	DES - Project Manager checking and approval; consent to start the ELS works	24	16-Sep-20	15-Oct-20	20-Jul-21	16-Aug-21	243	
DES_T15 - ELS Design for Bridge S2 - 2A-S4 to 2EL-S2 & 2ER-S2		120	18-Jun-20 A	15-Oct-20	09-Nov-20	02-Sep-21	258	0.00
DES-1366	DES - Prepare preliminary proposal submission	36	18-Jun-20 A	02-Sep-20	09-Nov-20	09-Nov-20	56	
DES-1368	DES - ICE checking and approval	12	02-Sep-20	15-Sep-20	23-Jul-21	05-Aug-21	258	
DES-1370	DES - Project Manager checking and approval; consent to start the ELS works	24	16-Sep-20	15-Oct-20	06-Aug-21	02-Sep-21	258	
DES_T16 - ELS Design for Bridge S7 - 7B-S7 to 7D-S7		108	05-Jun-20 A	29-Sep-20	09-Nov-20	02-Jul-21	217	0.00
DES-1372	DES - Prepare preliminary proposal submission	36	05-Jun-20 A	02-Sep-20	09-Nov-20	09-Nov-20	56	
DES-1374	DES - ICE checking and approval	5	11-Jun-20 A	02-Sep-20	02-Jun-21	02-Jun-21	217	
DES-1376	DES - Project Manager checking and approval; consent to start the ELS works	24	02-Sep-20	29-Sep-20	03-Jun-21	02-Jul-21	217	
DES_T17 - ELS Design for Bridge S8 - 8A-S8 to 8D-S8		120	19-Jun-20 A	15-Oct-20	09-Nov-20	24-Nov-21	326	0.00
DES-1378	DES - Prepare preliminary proposal submission	36	19-Jun-20 A	02-Sep-20	09-Nov-20	09-Nov-20	56	

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
DES-1380	DES - ICE checking and approval	12	02-Sep-20	15-Sep-20	13-Oct-21	27-Oct-21	326	
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24	16-Sep-20	15-Oct-20	28-Oct-21	24-Nov-21	326	
DES_T18 - ELS Design for Bridge S1/S9 - 1E-S1/S9 to 1G-S1/S9		120	28-Feb-20 A	03-Oct-20	25-Feb-21	08-Apr-21	146	0.00
DES-1386	DES - ICE checking and approval	23	28-Feb-20 A	01-Sep-20	25-Feb-21	04-Mar-21	146	
DES-1388	DES - Project Manager checking and approval; consent to start the ELS works	24	04-Sep-20	03-Oct-20	08-Mar-21	08-Apr-21	146	
DES_T27 - Temporary Slope Works for Bridge S9 Foundation Works		232	13-Feb-20 A	29-Sep-20	09-May-20	13-Jun-20	-90	0.00
DES-1458	DES - ICE checking and approval	32	13-Feb-20 A	01-Sep-20	09-May-20	16-May-20	-90	
DES-1460	DES - Project Manager checking and approval; consent to start the slope works	24	02-Sep-20	29-Sep-20	18-May-20	13-Jun-20	-90	
DES - Temporary Works for Underpasses, Adit and Roads		120	26-Aug-20	19-Jan-21	04-Jul-20	04-Mar-22	325	0.00
DES_T08 - Temp works for construction of Sign Gantries, Lighting Poles &'		86	02-Sep-20	14-Dec-20	15-Nov-21	04-Mar-22	353	0.00
DES-1390	DES - Prepare preliminary proposal submission	36	02-Sep-20	15-Oct-20	15-Nov-21	28-Dec-21	353	
DES-1392	DES - ICE checking and approval	26	16-Oct-20	16-Nov-20	29-Dec-21	28-Jan-22	353	
DES-1394	DES - Project Manager checking and approval; consent to start the works	24	17-Nov-20	14-Dec-20	29-Jan-22	04-Mar-22	353	
DES_T10 - Temporary works for Traffic Deck over Underpass S3		84	09-Oct-20	19-Jan-21	26-Apr-21	05-Aug-21	156	0.00
DES-1402	DES - Prepare preliminary proposal submission (ELS for Box Section and Ramps)	36	09-Oct-20	20-Nov-20	26-Apr-21	08-Jun-21	156	
DES-1404	DES - ICE checking and approval	24	21-Nov-20	18-Dec-20	09-Jun-21	08-Jul-21	156	
DES-1406	DES - Project Manager checking and approval; consent to start Underpass S3	24	19-Dec-20	19-Jan-21	09-Jul-21	05-Aug-21	156	
DES_T22 - ELS Design for Underpass S3		84	26-Aug-20	04-Dec-20	04-Jul-20	12-Oct-20	-45	0.00
DES-1408	DES - Prepare preliminary proposal submission (ELS for Box Section and Ramps)	36	26-Aug-20	08-Oct-20	04-Jul-20	14-Aug-20	-45	
DES-1410	DES - ICE checking and approval	24	09-Oct-20	06-Nov-20	15-Aug-20	11-Sep-20	-45	
DES-1412	DES - Project Manager checking and approval; consent to start Underpass S3	24	07-Nov-20	04-Dec-20	12-Sep-20	12-Oct-20	-45	
DES - Temporary works for Kai Fuk Road Footbridge		86	02-Sep-20	14-Dec-20	10-Nov-20	27-Feb-21	56	0.00
DES_T21 - ELS Design for Demolition of Subway KS20		86	02-Sep-20	14-Dec-20	10-Nov-20	27-Feb-21	56	0.00
DES-1444	DES - Prepare preliminary proposal submission (ELS for demolish upper part of ramp)	36	02-Sep-20	15-Oct-20	10-Nov-20	21-Dec-20	56	
DES-1446	DES - ICE checking and approval	26	16-Oct-20	16-Nov-20	22-Dec-20	23-Jan-21	56	
DES-1448	DES - Project Manager checking and approval; consent to start the works at Existing Subway	24	17-Nov-20	14-Dec-20	25-Jan-21	27-Feb-21	56	
DES - Temporary works for Box Culvert		165	04-Mar-20 A	24-Sep-20	30-Jul-20	29-Aug-20	-22	0.00
DES_T25 - ELS Design for Reconstruciton of Box Culvert		165	04-Mar-20 A	24-Sep-20	30-Jul-20	29-Aug-20	-22	0.00
DES-1450	DES - Prepare preliminary proposal submission	36	04-Mar-20 A	22-Aug-20 A	30-Jul-20	30-Jul-20		
DES-1452	DES - ICE checking and approval	23	18-Jun-20 A	27-Aug-20	30-Jul-20	01-Aug-20	-22	
DES-1454	DES - Project Manager checking and approval; consent to start the ELS Works	24	24-Aug-20 A	24-Sep-20	03-Aug-20	29-Aug-20	-22	
PROCUREMENT, MANUFACTURING & DELIVERIES		340	25-Nov-19 A	20-Jan-21	20-Jun-20	11-May-21	84	0.00
Procurement of Lifts		243	25-Nov-19 A	30-Sep-20	01-Sep-20	10-Oct-20	7	0.00
Shop Drawings		218	25-Nov-19 A	25-Aug-20	01-Sep-20	10-Oct-20	39	0.00
PRO-1862	PRO - Lifts - Shop Drawings Development and Review	52	25-Nov-19 A	25-Aug-20	01-Sep-20	01-Sep-20	7	
PRO-1864	PRO - Lifts - Obtain shop Drawings Approval	0		25-Aug-20		10-Oct-20	39	
Procurement / Fabrication		148	19-Mar-20 A	30-Sep-20	02-Sep-20	10-Oct-20	7	0.00
PRO-1868	PRO - Procurement of Lifts	148	19-Mar-20 A	30-Sep-20	02-Sep-20	10-Oct-20	7	

August 16 | September 17 | October 18 | November 19 | December 20 | Jan 21

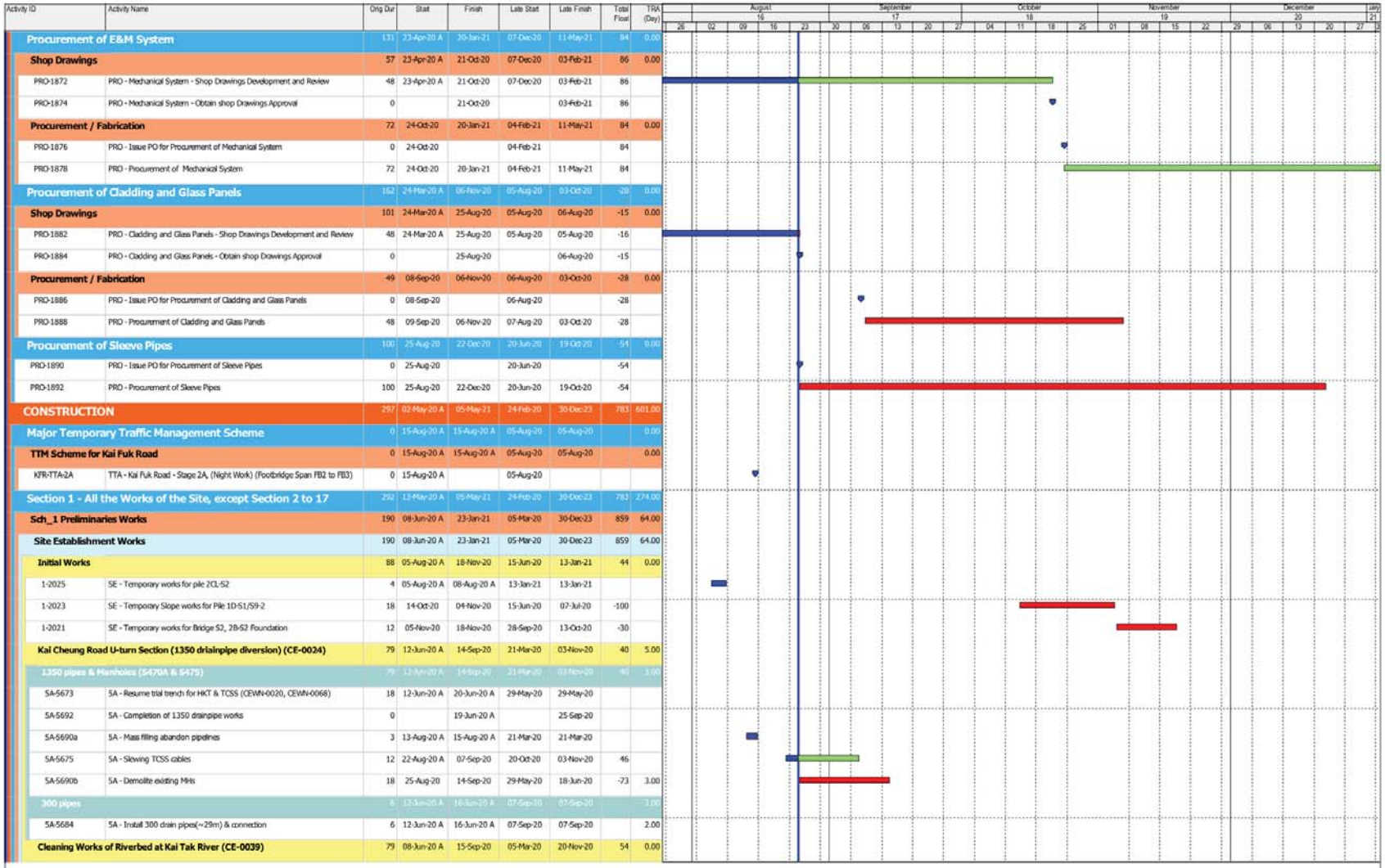
Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

Page 4 of 19

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
Procurement of E&M System		131	23-Apr-20 A	20-Jan-21	07-Dec-20	11-May-21	84	0.00
Shop Drawings		57	23-Apr-20 A	21-Oct-20	07-Dec-20	03-Feb-21	86	0.00
PRO-1872	PRO - Mechanical System - Shop Drawings Development and Review	48	23-Apr-20 A	21-Oct-20	07-Dec-20	03-Feb-21	86	
PRO-1874	PRO - Mechanical System - Obtain shop Drawings Approval	0		21-Oct-20		03-Feb-21	86	
Procurement / Fabrication		72	24-Oct-20	20-Jan-21	04-Feb-21	11-May-21	84	0.00
PRO-1876	PRO - Issue PO for Procurement of Mechanical System	0	24-Oct-20		04-Feb-21		84	
PRO-1878	PRO - Procurement of Mechanical System	72	24-Oct-20	20-Jan-21	04-Feb-21	11-May-21	84	
Procurement of Cladding and Glass Panels		162	24-Mar-20 A	06-Nov-20	05-Aug-20	03-Oct-20	-28	0.00
Shop Drawings		101	24-Mar-20 A	25-Aug-20	05-Aug-20	06-Aug-20	-15	0.00
PRO-1882	PRO - Cladding and Glass Panels - Shop Drawings Development and Review	48	24-Mar-20 A	25-Aug-20	05-Aug-20	05-Aug-20	-16	
PRO-1884	PRO - Cladding and Glass Panels - Obtain shop Drawings Approval	0		25-Aug-20		06-Aug-20	-15	
Procurement / Fabrication		49	08-Sep-20	06-Nov-20	06-Aug-20	03-Oct-20	-28	0.00
PRO-1886	PRO - Issue PO for Procurement of Cladding and Glass Panels	0	08-Sep-20		06-Aug-20		-28	
PRO-1888	PRO - Procurement of Cladding and Glass Panels	48	09-Sep-20	06-Nov-20	07-Aug-20	03-Oct-20	-28	
Procurement of Sleeve Pipes		100	25-Aug-20	22-Dec-20	20-Jun-20	19-Oct-20	-54	0.00
PRO-1890	PRO - Issue PO for Procurement of Sleeve Pipes	0	25-Aug-20		20-Jun-20		-54	
PRO-1892	PRO - Procurement of Sleeve Pipes	100	25-Aug-20	22-Dec-20	20-Jun-20	19-Oct-20	-54	
CONSTRUCTION		297	02-May-20 A	05-May-21	24-Feb-20	30-Dec-23	783	601.00
Major Temporary Traffic Management Scheme		0	15-Aug-20 A	15-Aug-20 A	05-Aug-20	05-Aug-20		0.00
TTM Scheme for Kai Fuk Road		0	15-Aug-20 A	15-Aug-20 A	05-Aug-20	05-Aug-20		0.00
KFR-TTA-2A	TTA - Kai Fuk Road - Stage 2A, (Night Work) (Footbridge Span FB2 to FB3)	0	15-Aug-20 A		05-Aug-20			
Section 1 - All the Works of the Site, except Section 2 to 17		292	13-May-20 A	05-May-21	24-Feb-20	30-Dec-23	783	274.00
Sch_1 Preliminaries Works		190	08-Jun-20 A	23-Jan-21	05-Mar-20	30-Dec-23	859	64.00
Site Establishment Works		190	08-Jun-20 A	23-Jan-21	05-Mar-20	30-Dec-23	859	64.00
Initial Works		88	05-Aug-20 A	18-Nov-20	15-Jun-20	13-Jan-21	44	0.00
1-2025	SE - Temporary works for pile 2CL-S2	4	05-Aug-20 A	08-Aug-20 A	13-Jan-21	13-Jan-21		
1-2023	SE - Temporary Slope works for Pile 1D-S1/S9-2	18	14-Oct-20	04-Nov-20	15-Jun-20	07-Jul-20	-100	
1-2021	SE - Temporary works for Bridge S2, 2B-S2 Foundation	12	05-Nov-20	18-Nov-20	28-Sep-20	13-Oct-20	-30	
Kai Cheung Road U-turn Section (1350 drainpipe diversion) (CE-0024)		79	12-Jun-20 A	14-Sep-20	21-Mar-20	03-Nov-20	40	5.00
1350 pipes & Manholes (S470A & S475)		79	12-Jun-20 A	14-Sep-20	21-Mar-20	03-Nov-20	40	3.00
5A-5673	5A - Resume trial trench for HKT & TCSS (CEWN-0020, CEWN-0068)	18	12-Jun-20 A	20-Jun-20 A	29-May-20	29-May-20		
5A-5692	5A - Completion of 1350 drainpipe works	0		19-Jun-20 A		25-Sep-20		
5A-5690a	5A - Mass filling abandon pipelines	3	13-Aug-20 A	15-Aug-20 A	21-Mar-20	21-Mar-20		
5A-5675	5A - Slewing TCSS cables	12	22-Aug-20 A	07-Sep-20	20-Oct-20	03-Nov-20	46	
5A-5690b	5A - Demolite existing MHs	18	25-Aug-20	14-Sep-20	29-May-20	18-Jun-20	-73	3.00
300 pipes		6	12-Jun-20 A	16-Jun-20 A	07-Sep-20	07-Sep-20		3.00
5A-5684	5A - Install 300 drain pipes(=29m) & connection	6	12-Jun-20 A	16-Jun-20 A	07-Sep-20	07-Sep-20		2.00
Cleaning Works of Riverbed at Kai Tak River (CE-0039)		79	08-Jun-20 A	15-Sep-20	05-Mar-20	20-Nov-20	54	0.00

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Page 5 of 19

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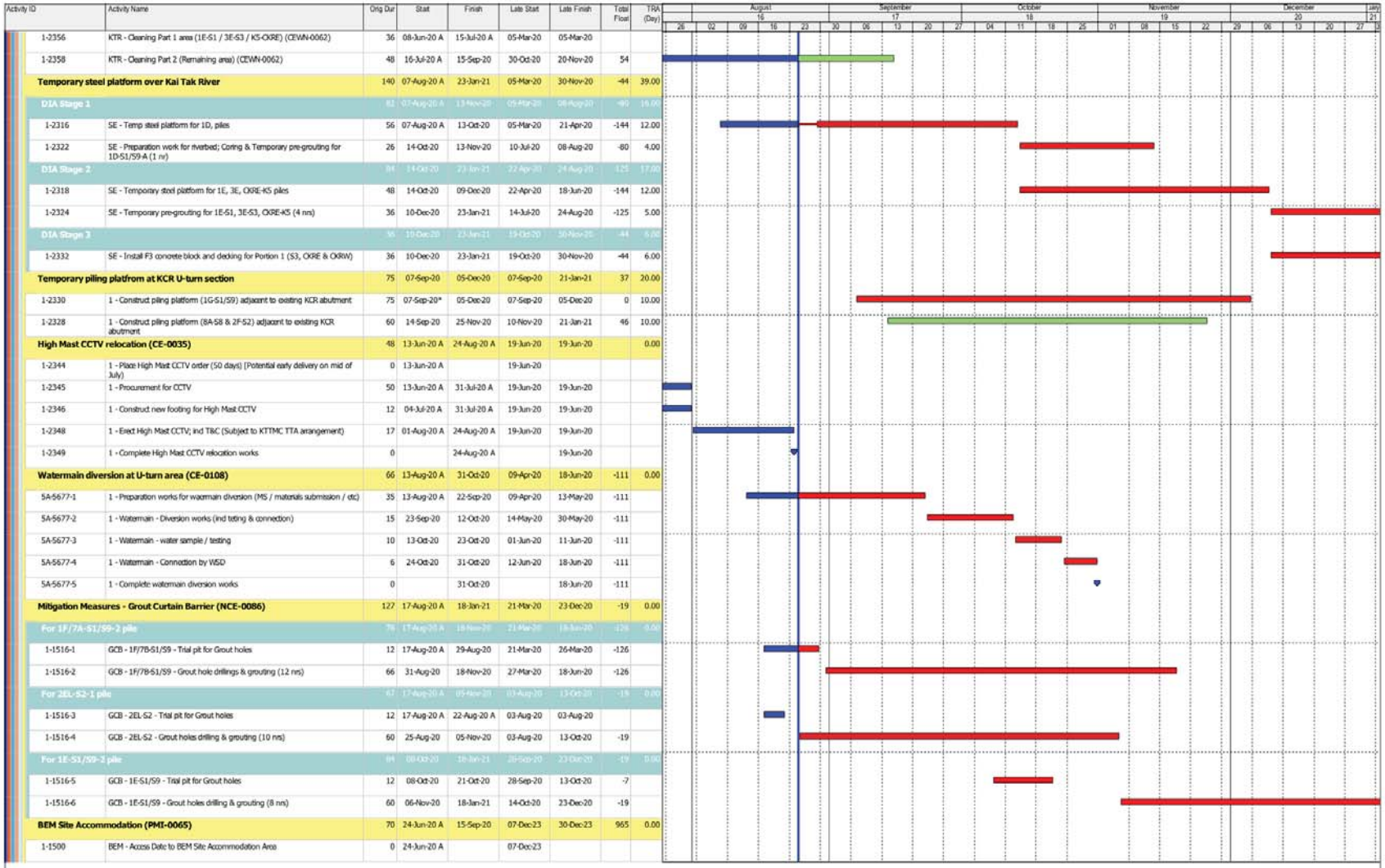

Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
1-2356	KTR - Cleaning Part 1 area (1E-S1 / 3E-S3 / K5-CKRE) (CEWN-0062)	36	08-Jun-20 A	15-Jul-20 A	05-Mar-20	05-Mar-20		
1-2358	KTR - Cleaning Part 2 (Remaining area) (CEWN-0062)	48	16-Jul-20 A	15-Sep-20	30-Oct-20	20-Nov-20	54	
Temporary steel platform over Kai Tak River		140	07-Aug-20 A	23-Jan-21	05-Mar-20	30-Nov-20	-44	39.00
D1A Stage 1		82	07-Aug-20 A	13-Nov-20	05-Mar-20	08-Aug-20	-80	16.00
1-2316	SE - Temp steel platform for 1D, piles	56	07-Aug-20 A	13-Oct-20	05-Mar-20	21-Apr-20	-144	12.00
1-2322	SE - Preparation work for riverbed; Coring & Temporary pre-grouting for 1D-S1/S9-A (1 nr)	26	14-Oct-20	13-Nov-20	10-Jul-20	08-Aug-20	-80	4.00
D1A Stage 2		84	14-Oct-20	23-Jan-21	22-Apr-20	24-Aug-20	-125	17.00
1-2318	SE - Temporary steel platform for 1E, 3E, CKRE-K5 piles	48	14-Oct-20	09-Dec-20	22-Apr-20	18-Jun-20	-144	12.00
1-2324	SE - Temporary pre-grouting for 1E-S1, 3E-S3, CKRE-K5 (4 nrs)	36	10-Dec-20	23-Jan-21	14-Jul-20	24-Aug-20	-125	5.00
D1A Stage 3		56	10-Dec-20	23-Jan-21	19-Oct-20	30-Nov-20	-44	6.00
1-2332	SE - Install F3 concrete block and decking for Portion 1 (S3, CKRE & CKRW)	36	10-Dec-20	23-Jan-21	19-Oct-20	30-Nov-20	-44	6.00
Temporary piling platfrom at KCR U-turn section		75	07-Sep-20	05-Dec-20	07-Sep-20	21-Jan-21	37	20.00
1-2330	1 - Construct piling platform (1G-S1/S9) adjacent to existing KCR abutment	75	07-Sep-20*	05-Dec-20	07-Sep-20	05-Dec-20	0	10.00
1-2328	1 - Construct piling platform (8A-S8 & 2F-S2) adjacent to existing KCR abutment	60	14-Sep-20	25-Nov-20	10-Nov-20	21-Jan-21	46	10.00
High Mast CCTV relocation (CE-0035)		48	13-Jun-20 A	24-Aug-20 A	19-Jun-20	19-Jun-20		0.00
1-2344	1 - Place High Mast CCTV order (50 days) [Potential early delivery on mid of July)	0	13-Jun-20 A		19-Jun-20			
1-2345	1 - Procurement for CCTV	50	13-Jun-20 A	31-Jul-20 A	19-Jun-20	19-Jun-20		
1-2346	1 - Construct new footing for High Mast CCTV	12	04-Jul-20 A	31-Jul-20 A	19-Jun-20	19-Jun-20		
1-2348	1 - Erect High Mast CCTV; ind T&C (Subject to KTTMC TTA arrangement)	17	01-Aug-20 A	24-Aug-20 A	19-Jun-20	19-Jun-20		
1-2349	1 - Complete High Mast CCTV relocation works	0		24-Aug-20 A		19-Jun-20		
Watermain diversion at U-turn area (CE-0108)		66	13-Aug-20 A	31-Oct-20	09-Apr-20	18-Jun-20	-111	0.00
5A-5677-1	1 - Preparation works for waermain diversion (MS / materials submission / etc)	35	13-Aug-20 A	22-Sep-20	09-Apr-20	13-May-20	-111	
5A-5677-2	1 - Watermain - Diversion works (ind teting & connection)	15	23-Sep-20	12-Oct-20	14-May-20	30-May-20	-111	
5A-5677-3	1 - Watermain - water sample / testing	10	13-Oct-20	23-Oct-20	01-Jun-20	11-Jun-20	-111	
5A-5677-4	1 - Watermain - Connection by WSD	6	24-Oct-20	31-Oct-20	12-Jun-20	18-Jun-20	-111	
5A-5677-5	1 - Complete watermain diversion works	0		31-Oct-20		18-Jun-20	-111	
Mitigation Measures - Grout Curtain Barrier (NCE-0086)		127	17-Aug-20 A	18-Jan-21	21-Mar-20	23-Dec-20	-19	0.00
For 1F/7A-S1/S9-2 pile		76	17-Aug-20 A	18-Nov-20	21-Mar-20	18-Jun-20	-126	0.00
1-1516-1	GCB - 1F/7B-S1/S9 - Trial pit for Grout holes	12	17-Aug-20 A	29-Aug-20	21-Mar-20	26-Mar-20	-126	
1-1516-2	GCB - 1F/7B-S1/S9 - Grout hole drillings & grouting (12 nrs)	66	31-Aug-20	18-Nov-20	27-Mar-20	18-Jun-20	-126	
For 2EL-S2-1 pile		67	17-Aug-20 A	05-Nov-20	03-Aug-20	13-Oct-20	-19	0.00
1-1516-3	GCB - 2EL-S2 - Trial pit for Grout holes	12	17-Aug-20 A	22-Aug-20 A	03-Aug-20	03-Aug-20		
1-1516-4	GCB - 2EL-S2 - Grout holes drilling & grouting (10 nrs)	60	25-Aug-20	05-Nov-20	03-Aug-20	13-Oct-20	-19	
For 1E-S1/S9-2 pile		84	08-Oct-20	18-Jan-21	28-Sep-20	23-Dec-20	-19	0.00
1-1516-5	GCB - 1E-S1/S9 - Trial pit for Grout holes	12	08-Oct-20	21-Oct-20	28-Sep-20	13-Oct-20	-7	
1-1516-6	GCB - 1E-S1/S9 - Grout holes drilling & grouting (8 nrs)	60	06-Nov-20	18-Jan-21	14-Oct-20	23-Dec-20	-19	
BEM Site Accommodation (PMI-0065)		70	24-Jun-20 A	15-Sep-20	07-Dec-23	30-Dec-23	965	0.00
1-1500	BEM - Access Date to BEM Site Accommodation Area	0	24-Jun-20 A		07-Dec-23			

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Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
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24-Jun-20	Submit CSD Programme Rev8	TST	DC
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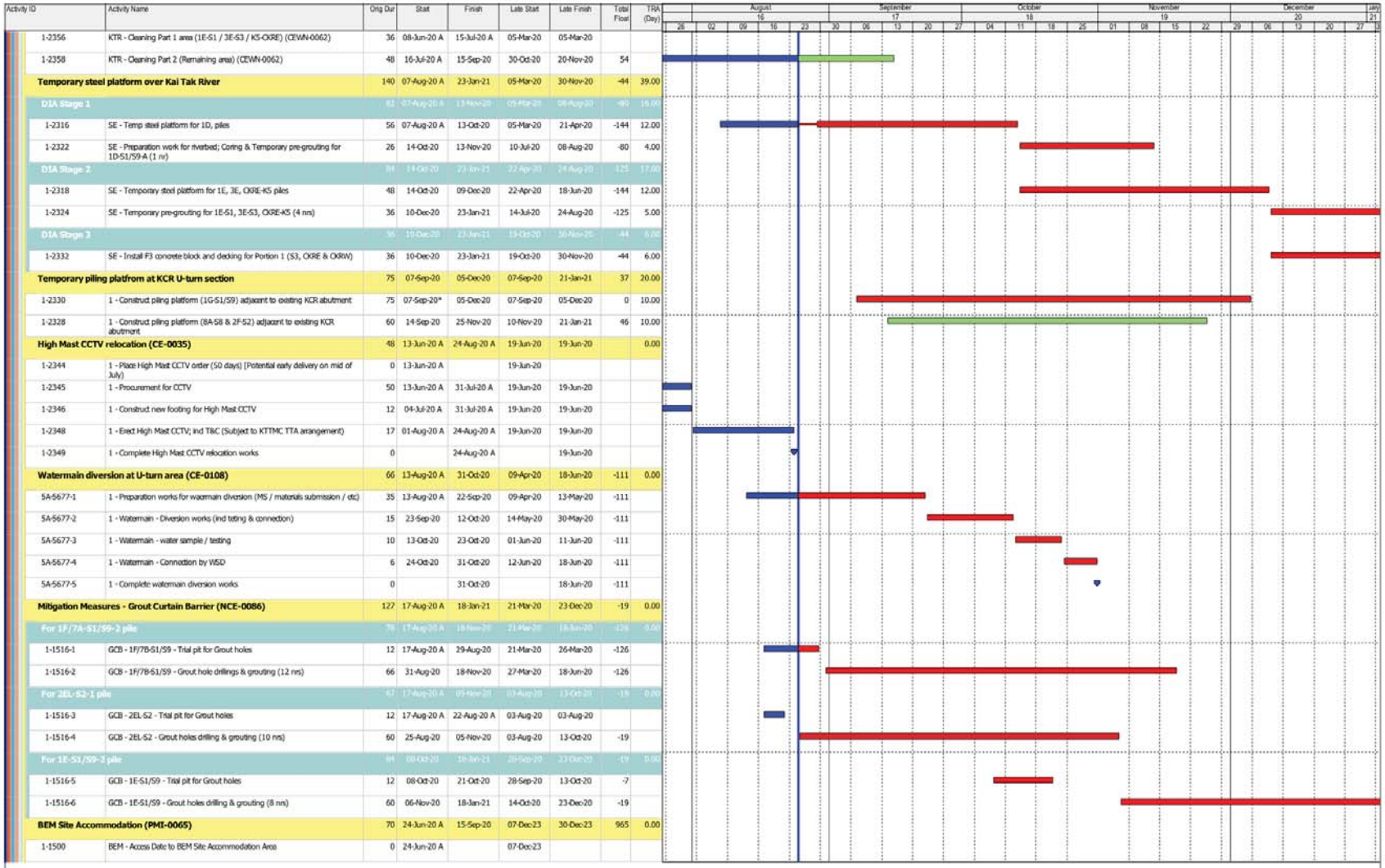
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



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1-2356	KTR - Cleaning Part 1 area (1E-S1 / 3E-S3 / K5-CKRE) (CEWN-0062)	36	08-Jun-20 A	15-Jul-20 A	05-Mar-20	05-Mar-20		
1-2358	KTR - Cleaning Part 2 (Remaining area) (CEWN-0062)	48	16-Jul-20 A	15-Sep-20	30-Oct-20	20-Nov-20	54	
Temporary steel platform over Kai Tak River		140	07-Aug-20 A	23-Jan-21	05-Mar-20	30-Nov-20	-44	39.00
D1A Stage 1		82	07-Aug-20 A	13-Nov-20	05-Mar-20	08-Aug-20	-80	16.00
1-2316	SE - Temp steel platform for 1D, piles	56	07-Aug-20 A	13-Oct-20	05-Mar-20	21-Apr-20	-144	12.00
1-2322	SE - Preparation work for riverbed; Coring & Temporary pre-grouting for 1D-S1/S9-A (1 nr)	26	14-Oct-20	13-Nov-20	10-Jul-20	08-Aug-20	-80	4.00
D1A Stage 2		84	14-Oct-20	23-Jan-21	22-Apr-20	24-Aug-20	-125	17.00
1-2318	SE - Temporary steel platform for 1E, 3E, CKRE-K5 piles	48	14-Oct-20	09-Dec-20	22-Apr-20	18-Jun-20	-144	12.00
1-2324	SE - Temporary pre-grouting for 1E-S1, 3E-S3, CKRE-K5 (4 nrs)	36	10-Dec-20	23-Jan-21	14-Jul-20	24-Aug-20	-125	5.00
D1A Stage 3		56	10-Dec-20	23-Jan-21	19-Oct-20	30-Nov-20	-44	6.00
1-2332	SE - Install F3 concrete block and decking for Portion 1 (S3, CKRE & CKRW)	36	10-Dec-20	23-Jan-21	19-Oct-20	30-Nov-20	-44	6.00
Temporary piling platfrom at KCR U-turn section		75	07-Sep-20	05-Dec-20	07-Sep-20	21-Jan-21	37	20.00
1-2330	1 - Construct piling platform (1G-S1/S9) adjacent to existing KCR abutment	75	07-Sep-20*	05-Dec-20	07-Sep-20	05-Dec-20	0	10.00
1-2328	1 - Construct piling platform (8A-S8 & 2F-S2) adjacent to existing KCR abutment	60	14-Sep-20	25-Nov-20	10-Nov-20	21-Jan-21	46	10.00
High Mast CCTV relocation (CE-0035)		48	13-Jun-20 A	24-Aug-20 A	19-Jun-20	19-Jun-20		0.00
1-2344	1 - Place High Mast CCTV order (50 days) [Potential early delivery on mid of July)	0	13-Jun-20 A		19-Jun-20			
1-2345	1 - Procurement for CCTV	50	13-Jun-20 A	31-Jul-20 A	19-Jun-20	19-Jun-20		
1-2346	1 - Construct new footing for High Mast CCTV	12	04-Jul-20 A	31-Jul-20 A	19-Jun-20	19-Jun-20		
1-2348	1 - Erect High Mast CCTV; ind T&C (Subject to KTTMC TTA arrangement)	17	01-Aug-20 A	24-Aug-20 A	19-Jun-20	19-Jun-20		
1-2349	1 - Complete High Mast CCTV relocation works	0		24-Aug-20 A		19-Jun-20		
Watermain diversion at U-turn area (CE-0108)		66	13-Aug-20 A	31-Oct-20	09-Apr-20	18-Jun-20	-111	0.00
5A-5677-1	1 - Preparation works for waermain diversion (MS / materials submission / etc)	35	13-Aug-20 A	22-Sep-20	09-Apr-20	13-May-20	-111	
5A-5677-2	1 - Watermain - Diversion works (ind teting & connection)	15	23-Sep-20	12-Oct-20	14-May-20	30-May-20	-111	
5A-5677-3	1 - Watermain - water sample / testing	10	13-Oct-20	23-Oct-20	01-Jun-20	11-Jun-20	-111	
5A-5677-4	1 - Watermain - Connection by WSD	6	24-Oct-20	31-Oct-20	12-Jun-20	18-Jun-20	-111	
5A-5677-5	1 - Complete watermain diversion works	0		31-Oct-20		18-Jun-20	-111	
Mitigation Measures - Grout Curtain Barrier (NCE-0086)		127	17-Aug-20 A	18-Jan-21	21-Mar-20	23-Dec-20	-19	0.00
For 1F/7A-S1/S9-2 pile		76	17-Aug-20 A	18-Nov-20	21-Mar-20	18-Jun-20	-126	0.00
1-1516-1	GCB - 1F/7B-S1/S9 - Trial pit for Grout holes	12	17-Aug-20 A	29-Aug-20	21-Mar-20	26-Mar-20	-126	
1-1516-2	GCB - 1F/7B-S1/S9 - Grout hole drillings & grouting (12 nrs)	66	31-Aug-20	18-Nov-20	27-Mar-20	18-Jun-20	-126	
For 2EL-S2-1 pile		67	17-Aug-20 A	05-Nov-20	03-Aug-20	13-Oct-20	-19	0.00
1-1516-3	GCB - 2EL-S2 - Trial pit for Grout holes	12	17-Aug-20 A	22-Aug-20 A	03-Aug-20	03-Aug-20		
1-1516-4	GCB - 2EL-S2 - Grout holes drilling & grouting (10 nrs)	60	25-Aug-20	05-Nov-20	03-Aug-20	13-Oct-20	-19	
For 1E-S1/S9-2 pile		84	08-Oct-20	18-Jan-21	28-Sep-20	23-Dec-20	-19	0.00
1-1516-5	GCB - 1E-S1/S9 - Trial pit for Grout holes	12	08-Oct-20	21-Oct-20	28-Sep-20	13-Oct-20	-7	
1-1516-6	GCB - 1E-S1/S9 - Grout holes drilling & grouting (8 nrs)	60	06-Nov-20	18-Jan-21	14-Oct-20	23-Dec-20	-19	
BEM Site Accommodation (PMI-0065)		70	24-Jun-20 A	15-Sep-20	07-Dec-23	30-Dec-23	965	0.00
1-1500	BEM - Access Date to BEM Site Accommodation Area	0	24-Jun-20 A		07-Dec-23			

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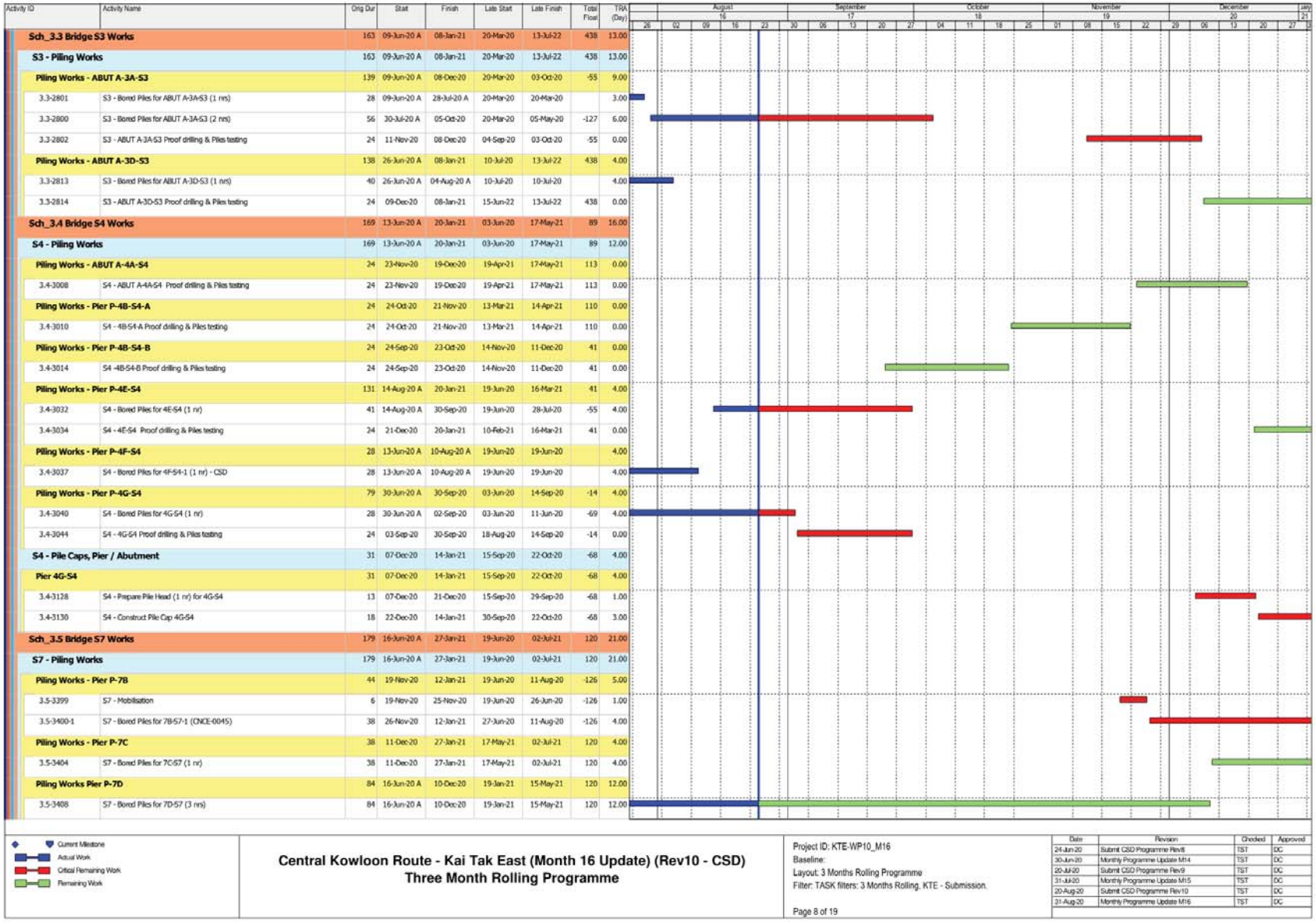
Remaining Work

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
Sch_3.3 Bridge S3 Works		163	09-Jun-20 A	08-Jan-21	20-Mar-20	13-Jul-22	438	13.00
S3 - Piling Works		163	09-Jun-20 A	08-Jan-21	20-Mar-20	13-Jul-22	438	13.00
Piling Works - ABUT A-3A-S3		139	09-Jun-20 A	08-Dec-20	20-Mar-20	03-Oct-20	-55	9.00
3.3-2801	S3 - Bored Piles for ABUT A-3A-S3 (1 nrs)	28	09-Jun-20 A	28-Jul-20 A	20-Mar-20	20-Mar-20		3.00
3.3-2800	S3 - Bored Piles for ABUT A-3A-S3 (2 nrs)	56	30-Jul-20 A	05-Oct-20	20-Mar-20	05-May-20	-127	6.00
3.3-2802	S3 - ABUT A-3A-S3 Proof drilling & Piles testing	24	11-Nov-20	08-Dec-20	04-Sep-20	03-Oct-20	-55	0.00
Piling Works - ABUT A-3D-S3		138	26-Jun-20 A	08-Jan-21	10-Jul-20	13-Jul-22	438	4.00
3.3-2813	S3 - Bored Piles for ABUT A-3D-S3 (1 nrs)	40	26-Jun-20 A	04-Aug-20 A	10-Jul-20	10-Jul-20		4.00
3.3-2814	S3 - ABUT A-3D-S3 Proof drilling & Piles testing	24	09-Dec-20	08-Jan-21	15-Jun-22	13-Jul-22	438	0.00
Sch_3.4 Bridge S4 Works		169	13-Jun-20 A	20-Jan-21	03-Jun-20	17-May-21	89	16.00
S4 - Piling Works		169	13-Jun-20 A	20-Jan-21	03-Jun-20	17-May-21	89	12.00
Piling Works - ABUT A-4A-S4		24	23-Nov-20	19-Dec-20	19-Apr-21	17-May-21	113	0.00
3.4-3008	S4 - ABUT A-4A-S4 Proof drilling & Piles testing	24	23-Nov-20	19-Dec-20	19-Apr-21	17-May-21	113	0.00
Piling Works - Pier P-4B-S4-A		24	24-Oct-20	21-Nov-20	13-Mar-21	14-Apr-21	110	0.00
3.4-3010	S4 - 4B-S4-A Proof drilling & Piles testing	24	24-Oct-20	21-Nov-20	13-Mar-21	14-Apr-21	110	0.00
Piling Works - Pier P-4B-S4-B		24	24-Sep-20	23-Oct-20	14-Nov-20	11-Dec-20	41	0.00
3.4-3014	S4 -4B-S4-B Proof drilling & Piles testing	24	24-Sep-20	23-Oct-20	14-Nov-20	11-Dec-20	41	0.00
Piling Works - Pier P-4E-S4		131	14-Aug-20 A	20-Jan-21	19-Jun-20	16-Mar-21	41	4.00
3.4-3032	S4 - Bored Piles for 4E-S4 (1 nr)	41	14-Aug-20 A	30-Sep-20	19-Jun-20	28-Jul-20	-55	4.00
3.4-3034	S4 - 4E-S4 Proof drilling & Piles testing	24	21-Dec-20	20-Jan-21	10-Feb-21	16-Mar-21	41	0.00
Piling Works - Pier P-4F-S4		28	13-Jun-20 A	10-Aug-20 A	19-Jun-20	19-Jun-20		4.00
3.4-3037	S4 - Bored Piles for 4F-S4-1 (1 nr) - CSD	28	13-Jun-20 A	10-Aug-20 A	19-Jun-20	19-Jun-20		4.00
Piling Works - Pier P-4G-S4		79	30-Jun-20 A	30-Sep-20	03-Jun-20	14-Sep-20	-14	4.00
3.4-3040	S4 - Bored Piles for 4G-S4 (1 nr)	28	30-Jun-20 A	02-Sep-20	03-Jun-20	11-Jun-20	-69	4.00
3.4-3044	S4 - 4G-S4 Proof drilling & Piles testing	24	03-Sep-20	30-Sep-20	18-Aug-20	14-Sep-20	-14	0.00
S4 - Pile Caps, Pier / Abutment		31	07-Dec-20	14-Jan-21	15-Sep-20	22-Oct-20	-68	4.00
Pier 4G-S4		31	07-Dec-20	14-Jan-21	15-Sep-20	22-Oct-20	-68	4.00
3.4-3128	S4 - Prepare Pile Head (1 nr) for 4G-S4	13	07-Dec-20	21-Dec-20	15-Sep-20	29-Sep-20	-68	1.00
3.4-3130	S4 - Construct Pile Cap 4G-S4	18	22-Dec-20	14-Jan-21	30-Sep-20	22-Oct-20	-68	3.00
Sch_3.5 Bridge S7 Works		179	16-Jun-20 A	27-Jan-21	19-Jun-20	02-Jul-21	120	21.00
S7 - Piling Works		179	16-Jun-20 A	27-Jan-21	19-Jun-20	02-Jul-21	120	21.00
Piling Works - Pier P-7B		44	19-Nov-20	12-Jan-21	19-Jun-20	11-Aug-20	-126	5.00
3.5-3399	S7 - Mobilisation	6	19-Nov-20	25-Nov-20	19-Jun-20	26-Jun-20	-126	1.00
3.5-3400-1	S7 - Bored Piles for 7B-S7-1 (CNCE-0045)	38	26-Nov-20	12-Jan-21	27-Jun-20	11-Aug-20	-126	4.00
Piling Works - Pier P-7C		38	11-Dec-20	27-Jan-21	17-May-21	02-Jul-21	120	4.00
3.5-3404	S7 - Bored Piles for 7C-S7 (1 nr)	38	11-Dec-20	27-Jan-21	17-May-21	02-Jul-21	120	4.00
Piling Works Pier P-7D		84	16-Jun-20 A	10-Dec-20	19-Jan-21	15-May-21	120	12.00
3.5-3408	S7 - Bored Piles for 7D-S7 (3 nrs)	84	16-Jun-20 A	10-Dec-20	19-Jan-21	15-May-21	120	12.00

Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

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Page 8 of 19

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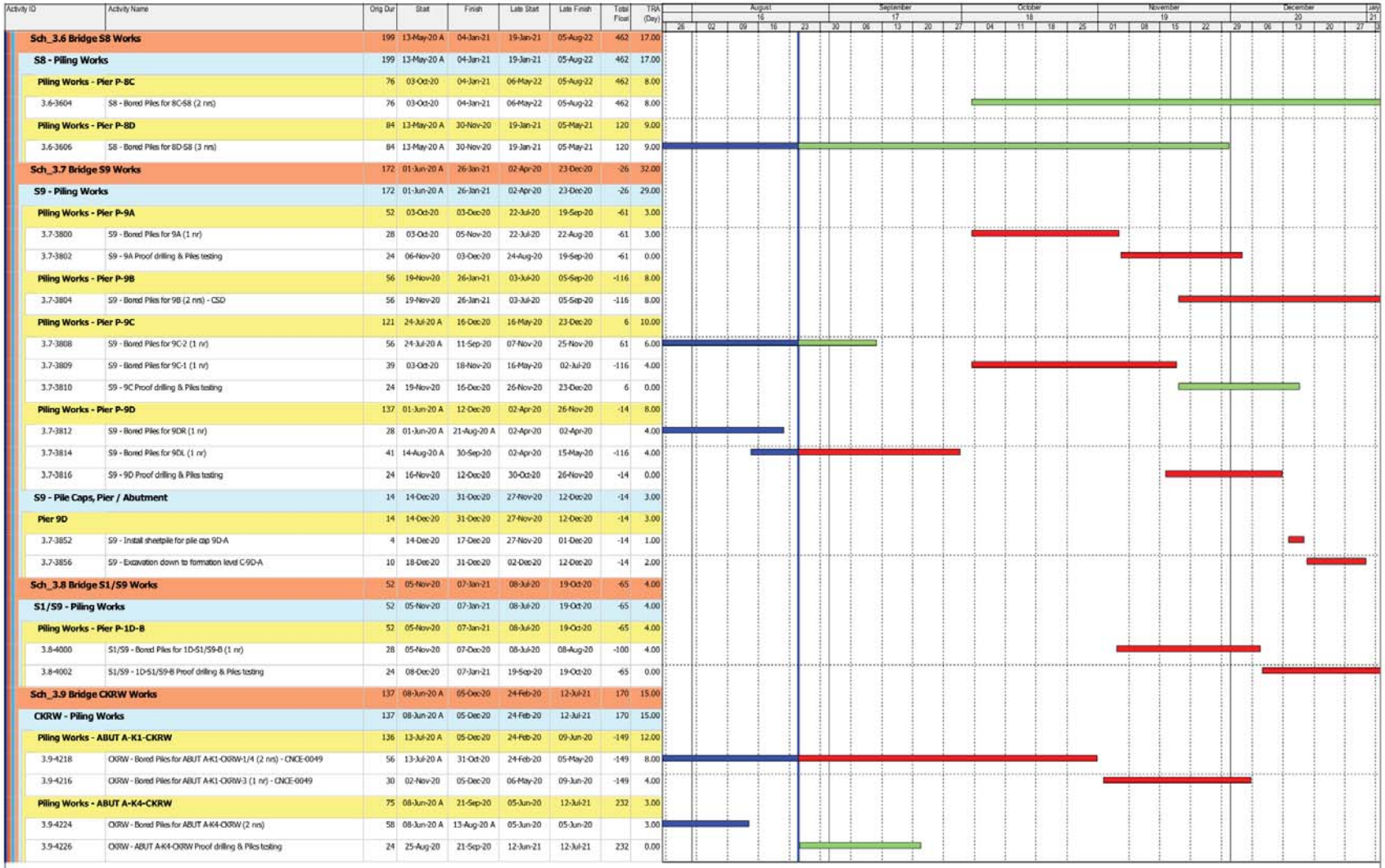
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



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Sch_3.6 Bridge S8 Works		199	13-May-20 A	04-Jan-21	19-Jan-21	05-Aug-22	462	17.00
S8 - Piling Works		199	13-May-20 A	04-Jan-21	19-Jan-21	05-Aug-22	462	17.00
Piling Works - Pier P-8C		76	03-Oct-20	04-Jan-21	06-May-22	05-Aug-22	462	8.00
3.6-3604	S8 - Bored Piles for 8C-S8 (2 nrs)	76	03-Oct-20	04-Jan-21	06-May-22	05-Aug-22	462	8.00
Piling Works - Pier P-8D		84	13-May-20 A	30-Nov-20	19-Jan-21	05-May-21	120	9.00
3.6-3606	S8 - Bored Piles for 8D-S8 (3 nrs)	84	13-May-20 A	30-Nov-20	19-Jan-21	05-May-21	120	9.00
Sch_3.7 Bridge S9 Works		172	01-Jun-20 A	26-Jan-21	02-Apr-20	23-Dec-20	-26	32.00
S9 - Piling Works		172	01-Jun-20 A	26-Jan-21	02-Apr-20	23-Dec-20	-26	29.00
Piling Works - Pier P-9A		52	03-Oct-20	03-Dec-20	22-Jul-20	19-Sep-20	-61	3.00
3.7-3800	S9 - Bored Piles for 9A (1 nr)	28	03-Oct-20	05-Nov-20	22-Jul-20	22-Aug-20	-61	3.00
3.7-3802	S9 - 9A Proof drilling & Piles testing	24	06-Nov-20	03-Dec-20	24-Aug-20	19-Sep-20	-61	0.00
Piling Works - Pier P-9B		56	19-Nov-20	26-Jan-21	03-Jul-20	05-Sep-20	-116	8.00
3.7-3804	S9 - Bored Piles for 9B (2 nrs) - CSD	56	19-Nov-20	26-Jan-21	03-Jul-20	05-Sep-20	-116	8.00
Piling Works - Pier P-9C		121	24-Jul-20 A	16-Dec-20	16-May-20	23-Dec-20	6	10.00
3.7-3808	S9 - Bored Piles for 9C-2 (1 nr)	56	24-Jul-20 A	11-Sep-20	07-Nov-20	25-Nov-20	61	6.00
3.7-3809	S9 - Bored Piles for 9C-1 (1 nr)	39	03-Oct-20	18-Nov-20	16-May-20	02-Jul-20	-116	4.00
3.7-3810	S9 - 9C Proof drilling & Piles testing	24	19-Nov-20	16-Dec-20	26-Nov-20	23-Dec-20	6	0.00
Piling Works - Pier P-9D		137	01-Jun-20 A	12-Dec-20	02-Apr-20	26-Nov-20	-14	8.00
3.7-3812	S9 - Bored Piles for 9DR (1 nr)	28	01-Jun-20 A	21-Aug-20 A	02-Apr-20	02-Apr-20		4.00
3.7-3814	S9 - Bored Piles for 9DL (1 nr)	41	14-Aug-20 A	30-Sep-20	02-Apr-20	15-May-20	-116	4.00
3.7-3816	S9 - 9D Proof drilling & Piles testing	24	16-Nov-20	12-Dec-20	30-Oct-20	26-Nov-20	-14	0.00
S9 - Pile Caps, Pier / Abutment		14	14-Dec-20	31-Dec-20	27-Nov-20	12-Dec-20	-14	3.00
Pier 9D		14	14-Dec-20	31-Dec-20	27-Nov-20	12-Dec-20	-14	3.00
3.7-3852	S9 - Install sheetpile for pile cap 9D-A	4	14-Dec-20	17-Dec-20	27-Nov-20	01-Dec-20	-14	1.00
3.7-3856	S9 - Excavation down to formation level C-9D-A	10	18-Dec-20	31-Dec-20	02-Dec-20	12-Dec-20	-14	2.00
Sch_3.8 Bridge S1/S9 Works		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
S1/S9 - Piling Works		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
Piling Works - Pier P-1D-8		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
3.8-4000	S1/S9 - Bored Piles for 1D-S1/S9-8 (1 nr)	28	05-Nov-20	07-Dec-20	08-Jul-20	08-Aug-20	-100	4.00
3.8-4002	S1/S9 - 1D-S1/S9-8 Proof drilling & Piles testing	24	08-Dec-20	07-Jan-21	19-Sep-20	19-Oct-20	-65	0.00
Sch_3.9 Bridge CKRW Works		137	08-Jun-20 A	05-Dec-20	24-Feb-20	12-Jul-21	170	15.00
CKRW - Piling Works		137	08-Jun-20 A	05-Dec-20	24-Feb-20	12-Jul-21	170	15.00
Piling Works - ABUT A-K1-CKRW		136	13-Jul-20 A	05-Dec-20	24-Feb-20	09-Jun-20	-149	12.00
3.9-4218	CKRW - Bored Piles for ABUT A-K1-CKRW-1/4 (2 nrs) - CNCE-0049	56	13-Jul-20 A	31-Oct-20	24-Feb-20	05-May-20	-149	8.00
3.9-4216	CKRW - Bored Piles for ABUT A-K1-CKRW-3 (1 nr) - CNCE-0049	30	02-Nov-20	05-Dec-20	06-May-20	09-Jun-20	-149	4.00
Piling Works - ABUT A-K4-CKRW		75	08-Jun-20 A	21-Sep-20	05-Jun-20	12-Jul-21	232	3.00
3.9-4224	CKRW - Bored Piles for ABUT A-K4-CKRW (2 nrs)	58	08-Jun-20 A	13-Aug-20 A	05-Jun-20	05-Jun-20		3.00
3.9-4226	CKRW - ABUT A-K4-CKRW Proof drilling & Piles testing	24	25-Aug-20	21-Sep-20	12-Jun-21	12-Jul-21	232	0.00

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

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Page 9 of 19

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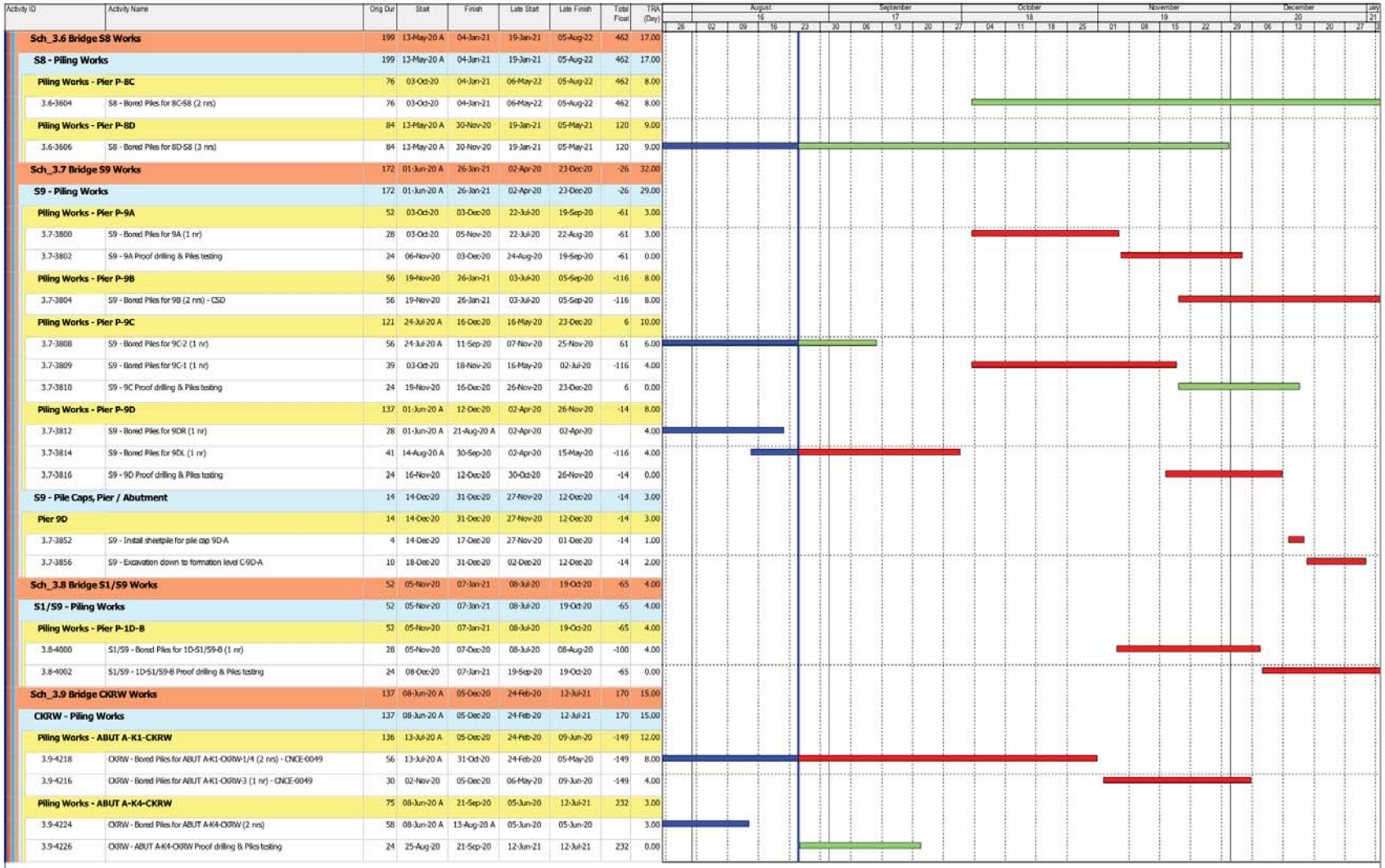
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
Sch_3.6 Bridge S8 Works		199	13-May-20 A	04-Jan-21	19-Jan-21	05-Aug-22	462	17.00
S8 - Piling Works		199	13-May-20 A	04-Jan-21	19-Jan-21	05-Aug-22	462	17.00
Piling Works - Pier P-8C		76	03-Oct-20	04-Jan-21	06-May-22	05-Aug-22	462	8.00
3.6-3604	S8 - Bored Piles for 8C-S8 (2 nrs)	76	03-Oct-20	04-Jan-21	06-May-22	05-Aug-22	462	8.00
Piling Works - Pier P-8D		84	13-May-20 A	30-Nov-20	19-Jan-21	05-May-21	120	9.00
3.6-3606	S8 - Bored Piles for 8D-S8 (3 nrs)	84	13-May-20 A	30-Nov-20	19-Jan-21	05-May-21	120	9.00
Sch_3.7 Bridge S9 Works		172	01-Jun-20 A	26-Jan-21	02-Apr-20	23-Dec-20	-26	32.00
S9 - Piling Works		172	01-Jun-20 A	26-Jan-21	02-Apr-20	23-Dec-20	-26	29.00
Piling Works - Pier P-9A		52	03-Oct-20	03-Dec-20	22-Jul-20	19-Sep-20	-61	3.00
3.7-3800	S9 - Bored Piles for 9A (1 nr)	28	03-Oct-20	05-Nov-20	22-Jul-20	22-Aug-20	-61	3.00
3.7-3802	S9 - 9A Proof drilling & Piles testing	24	06-Nov-20	03-Dec-20	24-Aug-20	19-Sep-20	-61	0.00
Piling Works - Pier P-9B		56	19-Nov-20	26-Jan-21	03-Jul-20	05-Sep-20	-116	8.00
3.7-3804	S9 - Bored Piles for 9B (2 nrs) - CSD	56	19-Nov-20	26-Jan-21	03-Jul-20	05-Sep-20	-116	8.00
Piling Works - Pier P-9C		121	24-Jul-20 A	16-Dec-20	16-May-20	23-Dec-20	6	10.00
3.7-3808	S9 - Bored Piles for 9C-2 (1 nr)	56	24-Jul-20 A	11-Sep-20	07-Nov-20	25-Nov-20	61	6.00
3.7-3809	S9 - Bored Piles for 9C-1 (1 nr)	39	03-Oct-20	18-Nov-20	16-May-20	02-Jul-20	-116	4.00
3.7-3810	S9 - 9C Proof drilling & Piles testing	24	19-Nov-20	16-Dec-20	26-Nov-20	23-Dec-20	6	0.00
Piling Works - Pier P-9D		137	01-Jun-20 A	12-Dec-20	02-Apr-20	26-Nov-20	-14	8.00
3.7-3812	S9 - Bored Piles for 9DR (1 nr)	28	01-Jun-20 A	21-Aug-20 A	02-Apr-20	02-Apr-20		4.00
3.7-3814	S9 - Bored Piles for 9DL (1 nr)	41	14-Aug-20 A	30-Sep-20	02-Apr-20	15-May-20	-116	4.00
3.7-3816	S9 - 9D Proof drilling & Piles testing	24	16-Nov-20	12-Dec-20	30-Oct-20	26-Nov-20	-14	0.00
S9 - Pile Caps, Pier / Abutment		14	14-Dec-20	31-Dec-20	27-Nov-20	12-Dec-20	-14	3.00
Pier 9D		14	14-Dec-20	31-Dec-20	27-Nov-20	12-Dec-20	-14	3.00
3.7-3852	S9 - Install sheetpile for pile cap 9D-A	4	14-Dec-20	17-Dec-20	27-Nov-20	01-Dec-20	-14	1.00
3.7-3856	S9 - Excavation down to formation level C-9D-A	10	18-Dec-20	31-Dec-20	02-Dec-20	12-Dec-20	-14	2.00
Sch_3.8 Bridge S1/S9 Works		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
S1/S9 - Piling Works		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
Piling Works - Pier P-1D-8		52	05-Nov-20	07-Jan-21	08-Jul-20	19-Oct-20	-65	4.00
3.8-4000	S1/S9 - Bored Piles for 1D-S1/S9-8 (1 nr)	28	05-Nov-20	07-Dec-20	08-Jul-20	08-Aug-20	-100	4.00
3.8-4002	S1/S9 - 1D-S1/S9-8 Proof drilling & Piles testing	24	08-Dec-20	07-Jan-21	19-Sep-20	19-Oct-20	-65	0.00
Sch_3.9 Bridge CKRW Works		137	08-Jun-20 A	05-Dec-20	24-Feb-20	12-Jul-21	170	15.00
CKRW - Piling Works		137	08-Jun-20 A	05-Dec-20	24-Feb-20	12-Jul-21	170	15.00
Piling Works - ABUT A-K1-CKRW		136	13-Jul-20 A	05-Dec-20	24-Feb-20	09-Jun-20	-149	12.00
3.9-4218	CKRW - Bored Piles for ABUT A-K1-CKRW-1/4 (2 nrs) - CNCE-0049	56	13-Jul-20 A	31-Oct-20	24-Feb-20	05-May-20	-149	8.00
3.9-4216	CKRW - Bored Piles for ABUT A-K1-CKRW-3 (1 nr) - CNCE-0049	30	02-Nov-20	05-Dec-20	06-May-20	09-Jun-20	-149	4.00
Piling Works - ABUT A-K4-CKRW		75	08-Jun-20 A	21-Sep-20	05-Jun-20	12-Jul-21	232	3.00
3.9-4224	CKRW - Bored Piles for ABUT A-K4-CKRW (2 nrs)	58	08-Jun-20 A	13-Aug-20 A	05-Jun-20	05-Jun-20		3.00
3.9-4226	CKRW - ABUT A-K4-CKRW Proof drilling & Piles testing	24	25-Aug-20	21-Sep-20	12-Jun-21	12-Jul-21	232	0.00

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
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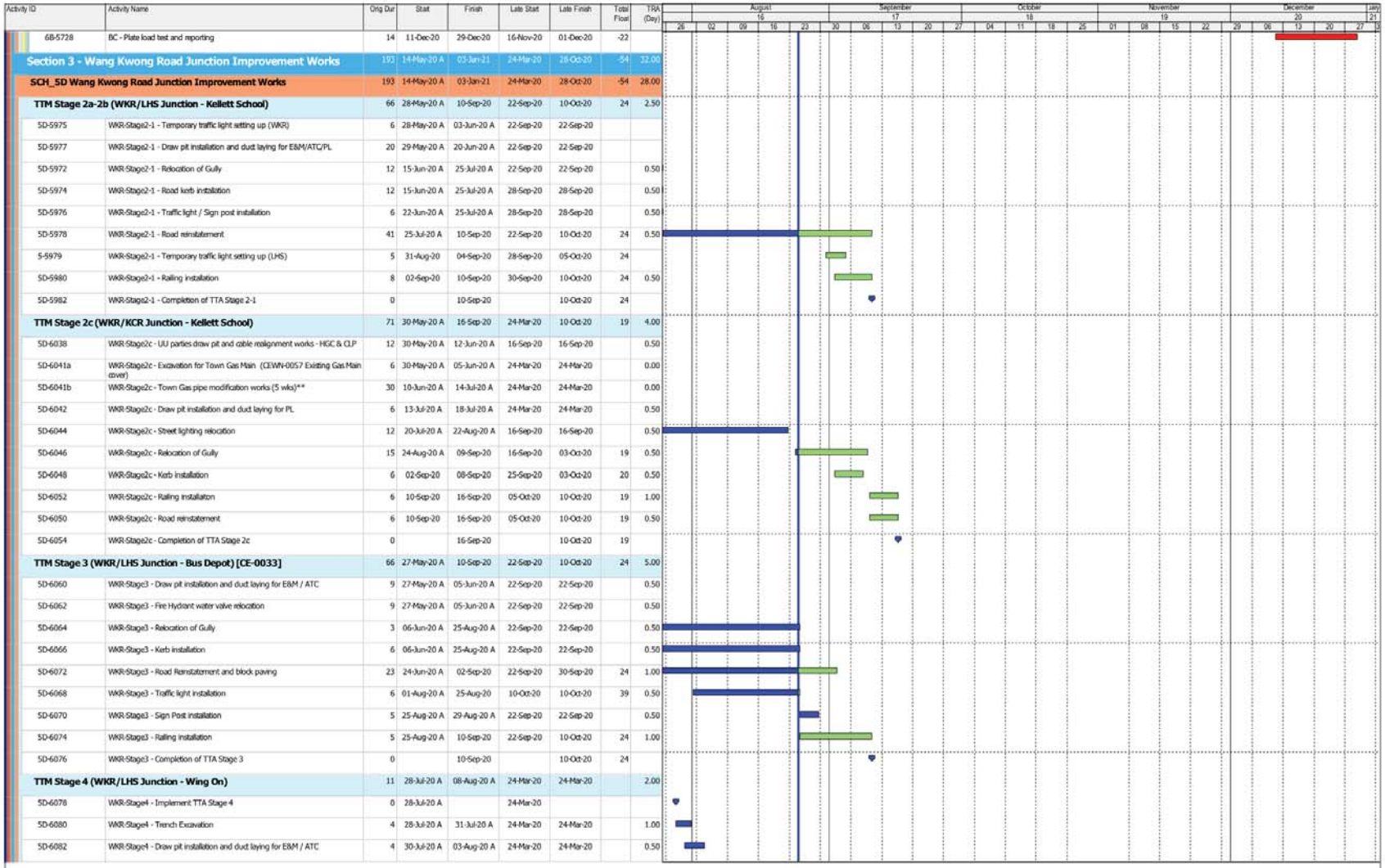

Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
6B-5728	BC - Plate load test and reporting	14	11-Dec-20	29-Dec-20	16-Nov-20	01-Dec-20	-22	
Section 3 - Wang Kwong Road Junction Improvement Works		193	14-May-20 A	03-Jun-21	24-Mar-20	28-Oct-20	-54	32.00
SCH_5D Wang Kwong Road Junction Improvement Works		193	14-May-20 A	03-Jun-21	24-Mar-20	28-Oct-20	-54	28.00
TTM Stage 2a-2b (WKR/LHS Junction - Kellett School)		66	28-May-20 A	10-Sep-20	22-Sep-20	10-Oct-20	24	2.50
5D-5975	WKR-Stage2-1 - Temporary traffic light setting up (WKR)	6	28-May-20 A	03-Jun-20 A	22-Sep-20	22-Sep-20		
5D-5977	WKR-Stage2-1 - Draw pit installation and duct laying for E&M/ATC/PL	20	29-May-20 A	20-Jun-20 A	22-Sep-20	22-Sep-20		
5D-5972	WKR-Stage2-1 - Relocation of Gully	12	15-Jun-20 A	25-Jul-20 A	22-Sep-20	22-Sep-20		0.50
5D-5974	WKR-Stage2-1 - Road kerb installation	12	15-Jun-20 A	25-Jul-20 A	28-Sep-20	28-Sep-20		0.50
5D-5976	WKR-Stage2-1 - Traffic light / Sign post installation	6	22-Jun-20 A	25-Jul-20 A	28-Sep-20	28-Sep-20		0.50
5D-5978	WKR-Stage2-1 - Road reinstatement	41	25-Jul-20 A	10-Sep-20	22-Sep-20	10-Oct-20	24	0.50
5-5979	WKR-Stage2-1 - Temporary traffic light setting up (LHS)	5	31-Aug-20	04-Sep-20	28-Sep-20	05-Oct-20	24	
5D-5980	WKR-Stage2-1 - Railing installation	8	02-Sep-20	10-Sep-20	30-Sep-20	10-Oct-20	24	0.50
5D-5982	WKR-Stage2-1 - Completion of TTA Stage 2-1	0		10-Sep-20		10-Oct-20	24	
TTM Stage 2c (WKR/KCR Junction - Kellett School)		71	30-May-20 A	16-Sep-20	24-Mar-20	10-Oct-20	19	4.00
5D-6038	WKR-Stage2c - UU parties draw pit and cable realignment works - HGC & CLP	12	30-May-20 A	12-Jun-20 A	16-Sep-20	16-Sep-20		0.50
5D-6041a	WKR-Stage2c - Excavation for Town Gas Main (CEWN-0057 Existing Gas Main cover)	6	30-May-20 A	05-Jun-20 A	24-Mar-20	24-Mar-20		0.00
5D-6041b	WKR-Stage2c - Town Gas pipe modification works (5 wks)**	30	10-Jun-20 A	14-Jul-20 A	24-Mar-20	24-Mar-20		0.00
5D-6042	WKR-Stage2c - Draw pit installation and duct laying for PL	6	13-Jul-20 A	18-Jul-20 A	24-Mar-20	24-Mar-20		0.50
5D-6044	WKR-Stage2c - Street lighting relocation	12	20-Jul-20 A	22-Aug-20 A	16-Sep-20	16-Sep-20		0.50
5D-6046	WKR-Stage2c - Relocation of Gully	15	24-Aug-20 A	09-Sep-20	16-Sep-20	03-Oct-20	19	0.50
5D-6048	WKR-Stage2c - Kerb installation	6	02-Sep-20	08-Sep-20	25-Sep-20	03-Oct-20	20	0.50
5D-6052	WKR-Stage2c - Railing installaton	6	10-Sep-20	16-Sep-20	05-Oct-20	10-Oct-20	19	1.00
5D-6050	WKR-Stage2c - Road reinstatement	6	10-Sep-20	16-Sep-20	05-Oct-20	10-Oct-20	19	0.50
5D-6054	WKR-Stage2c - Completion of TTA Stage 2c	0		16-Sep-20		10-Oct-20	19	
TTM Stage 3 (WKR/LHS Junction - Bus Depot) [CE-0033]		66	27-May-20 A	10-Sep-20	22-Sep-20	10-Oct-20	24	5.00
5D-6060	WKR-Stage3 - Draw pit installation and duct laying for E&M / ATC	9	27-May-20 A	05-Jun-20 A	22-Sep-20	22-Sep-20		0.50
5D-6062	WKR-Stage3 - Fire Hydrant water valve relocation	9	27-May-20 A	05-Jun-20 A	22-Sep-20	22-Sep-20		0.50
5D-6064	WKR-Stage3 - Relocation of Gully	3	06-Jun-20 A	25-Aug-20 A	22-Sep-20	22-Sep-20		0.50
5D-6066	WKR-Stage3 - Kerb installation	6	06-Jun-20 A	25-Aug-20 A	22-Sep-20	22-Sep-20		0.50
5D-6072	WKR-Stage3 - Road Reinstatement and block paving	23	24-Jun-20 A	02-Sep-20	22-Sep-20	30-Sep-20	24	1.00
5D-6068	WKR-Stage3 - Traffic light installation	6	01-Aug-20 A	25-Aug-20	10-Oct-20	10-Oct-20	39	0.50
5D-6070	WKR-Stage3 - Sign Post installation	5	25-Aug-20 A	29-Aug-20 A	22-Sep-20	22-Sep-20		0.50
5D-6074	WKR-Stage3 - Railing installation	5	25-Aug-20 A	10-Sep-20	22-Sep-20	10-Oct-20	24	1.00
5D-6076	WKR-Stage3 - Completion of TTA Stage 3	0		10-Sep-20		10-Oct-20	24	
TTM Stage 4 (WKR/LHS Junction - Wing On)		11	28-Jul-20 A	08-Aug-20 A	24-Mar-20	24-Mar-20		2.00
5D-6078	WKR-Stage4 - Implement TTA Stage 4	0	28-Jul-20 A		24-Mar-20			
5D-6080	WKR-Stage4 - Trench Excavation	4	28-Jul-20 A	31-Jul-20 A	24-Mar-20	24-Mar-20		1.00
5D-6082	WKR-Stage4 - Draw pit installation and duct laying for E&M / ATC	4	30-Jul-20 A	03-Aug-20 A	24-Mar-20	24-Mar-20		0.50

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24-Jun-20	Submit CSD Programme Rev8	TST	DC
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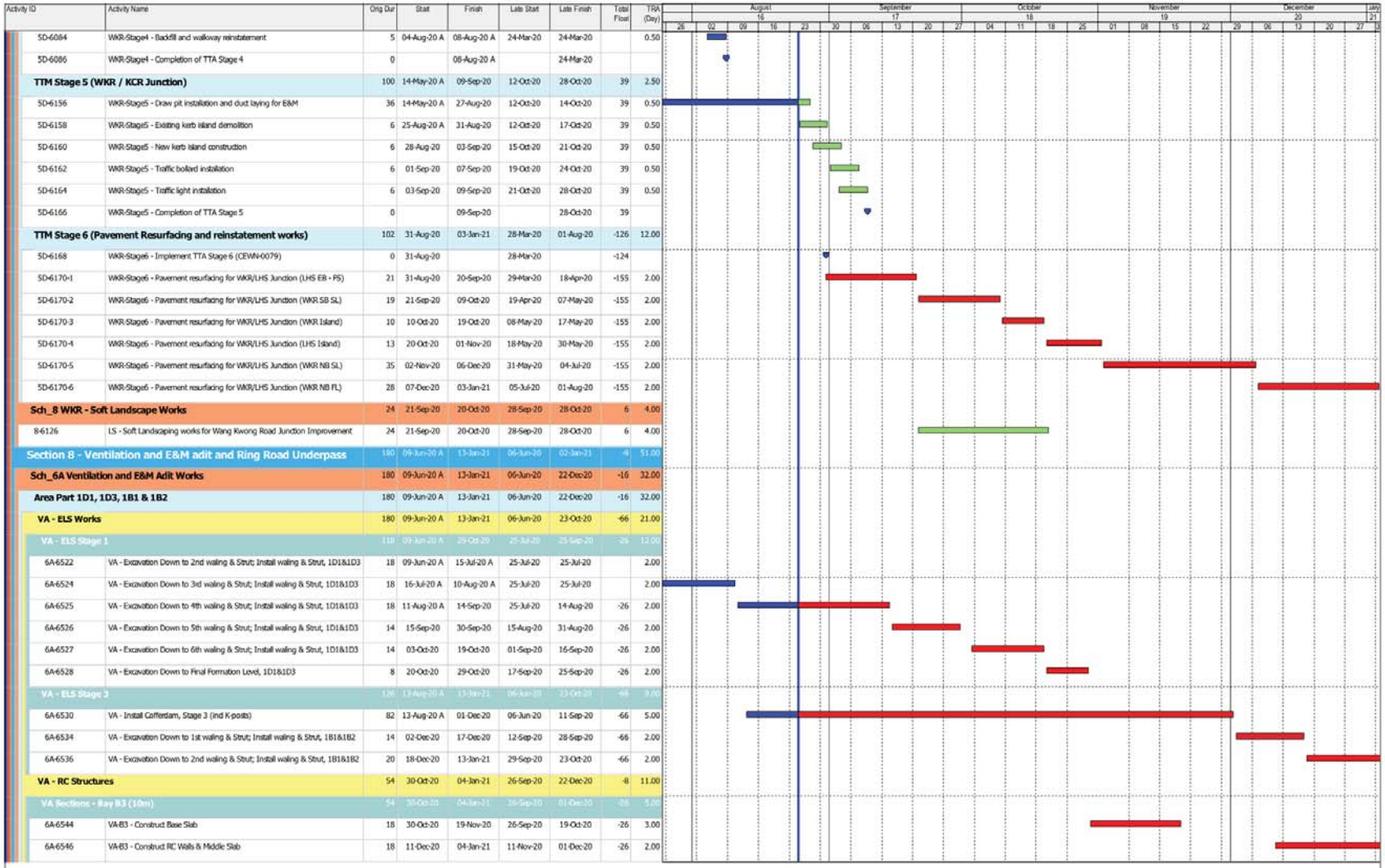
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
5D-6084	WKR-Stage4 - Backfill and walkway reinstatement	5	04-Aug-20 A	08-Aug-20 A	24-Mar-20	24-Mar-20		0.50
5D-6086	WKR-Stage4 - Completion of TTA Stage 4	0		08-Aug-20 A		24-Mar-20		
TTM Stage 5 (WKR / KCR Junction)		100	14-May-20 A	09-Sep-20	12-Oct-20	28-Oct-20	39	2.50
5D-6156	WKR-Stage5 - Draw pit installation and duct laying for E&M	36	14-May-20 A	27-Aug-20	12-Oct-20	14-Oct-20	39	0.50
5D-6158	WKR-Stage5 - Existing kerb island demolition	6	25-Aug-20 A	31-Aug-20	12-Oct-20	17-Oct-20	39	0.50
5D-6160	WKR-Stage5 - New kerb island construction	6	28-Aug-20	03-Sep-20	15-Oct-20	21-Oct-20	39	0.50
5D-6162	WKR-Stage5 - Traffic bollard installation	6	01-Sep-20	07-Sep-20	19-Oct-20	24-Oct-20	39	0.50
5D-6164	WKR-Stage5 - Traffic light installation	6	03-Sep-20	09-Sep-20	21-Oct-20	28-Oct-20	39	0.50
5D-6166	WKR-Stage5 - Completion of TTA Stage 5	0		09-Sep-20		28-Oct-20	39	
TTM Stage 6 (Pavement Resurfacing and reinstatement works)		102	31-Aug-20	03-Jan-21	28-Mar-20	01-Aug-20	-126	12.00
5D-6168	WKR-Stage6 - Implement TTA Stage 6 (CEWN-0079)	0	31-Aug-20		28-Mar-20		-124	
5D-6170-1	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (LHS ER - PS)	21	31-Aug-20	20-Sep-20	29-Mar-20	18-Apr-20	-155	2.00
5D-6170-2	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (WKR SB SL)	19	21-Sep-20	09-Oct-20	19-Apr-20	07-May-20	-155	2.00
5D-6170-3	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (WKR Island)	10	10-Oct-20	19-Oct-20	08-May-20	17-May-20	-155	2.00
5D-6170-4	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (LHS Island)	13	20-Oct-20	01-Nov-20	18-May-20	30-May-20	-155	2.00
5D-6170-5	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (WKR NB SL)	35	02-Nov-20	06-Dec-20	31-May-20	04-Jul-20	-155	2.00
5D-6170-6	WKR-Stage6 - Pavement resurfacing for WKR/LHS Junction (WKR NB FL)	28	07-Dec-20	03-Jan-21	05-Jul-20	01-Aug-20	-155	2.00
Sch_8 WKR - Soft Landscape Works		24	21-Sep-20	20-Oct-20	28-Sep-20	28-Oct-20	6	4.00
8-6126	LS - Soft Landscaping works for Wang Kwong Road Junction Improvement	24	21-Sep-20	20-Oct-20	28-Sep-20	28-Oct-20	6	4.00
Section 8 - Ventilation and E&M adit and Ring Road Underpass		180	09-Jun-20 A	13-Jan-21	06-Jun-20	02-Jan-21	-8	51.00
Sch_6A Ventilation and E&M Adit Works		180	09-Jun-20 A	13-Jan-21	06-Jun-20	22-Dec-20	-16	32.00
Area Part 1D1, 1D3, 1B1 & 1B2		180	09-Jun-20 A	13-Jan-21	06-Jun-20	22-Dec-20	-16	32.00
VA - ELS Works		180	09-Jun-20 A	13-Jan-21	06-Jun-20	23-Oct-20	-66	21.00
VA - ELS Stage 1		118	09-Jun-20 A	29-Oct-20	25-Jul-20	25-Sep-20	-26	12.00
6A-6522	VA - Excavation Down to 2nd waling & Strut; Install waling & Strut, 1D1&1D3	18	09-Jun-20 A	15-Jul-20 A	25-Jul-20	25-Jul-20		2.00
6A-6524	VA - Excavation Down to 3rd waling & Strut; Install waling & Strut, 1D1&1D3	18	16-Jul-20 A	10-Aug-20 A	25-Jul-20	25-Jul-20		2.00
6A-6525	VA - Excavation Down to 4th waling & Strut; Install waling & Strut, 1D1&1D3	18	11-Aug-20 A	14-Sep-20	25-Jul-20	14-Aug-20	-26	2.00
6A-6526	VA - Excavation Down to 5th waling & Strut; Install waling & Strut, 1D1&1D3	14	15-Sep-20	30-Sep-20	15-Aug-20	31-Aug-20	-26	2.00
6A-6527	VA - Excavation Down to 6th waling & Strut; Install waling & Strut, 1D1&1D3	14	03-Oct-20	19-Oct-20	01-Sep-20	16-Sep-20	-26	2.00
6A-6528	VA - Excavation Down to Final Formation Level, 1D1&1D3	8	20-Oct-20	29-Oct-20	17-Sep-20	25-Sep-20	-26	2.00
VA - ELS Stage 3		126	13-Aug-20 A	13-Jan-21	06-Jun-20	23-Oct-20	-66	9.00
6A-6530	VA - Install Cofferdam, Stage 3 (ind K-posts)	82	13-Aug-20 A	01-Dec-20	06-Jun-20	11-Sep-20	-66	5.00
6A-6534	VA - Excavation Down to 1st waling & Strut; Install waling & Strut, 1B1&1B2	14	02-Dec-20	17-Dec-20	12-Sep-20	28-Sep-20	-66	2.00
6A-6536	VA - Excavation Down to 2nd waling & Strut; Install waling & Strut, 1B1&1B2	20	18-Dec-20	13-Jan-21	29-Sep-20	23-Oct-20	-66	2.00
VA - RC Structures		54	30-Oct-20	04-Jan-21	26-Sep-20	22-Dec-20	-8	11.00
VA Sections - Bay B3 (10m)		54	30-Oct-20	04-Jan-21	26-Sep-20	01-Dec-20	-28	5.00
6A-6544	VA-B3 - Construct Base Slab	18	30-Oct-20	19-Nov-20	26-Sep-20	19-Oct-20	-26	3.00
6A-6546	VA-B3 - Construct RC Walls & Middle Slab	18	11-Dec-20	04-Jan-21	11-Nov-20	01-Dec-20	-26	2.00

Current Milestone
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Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

Page 12 of 19

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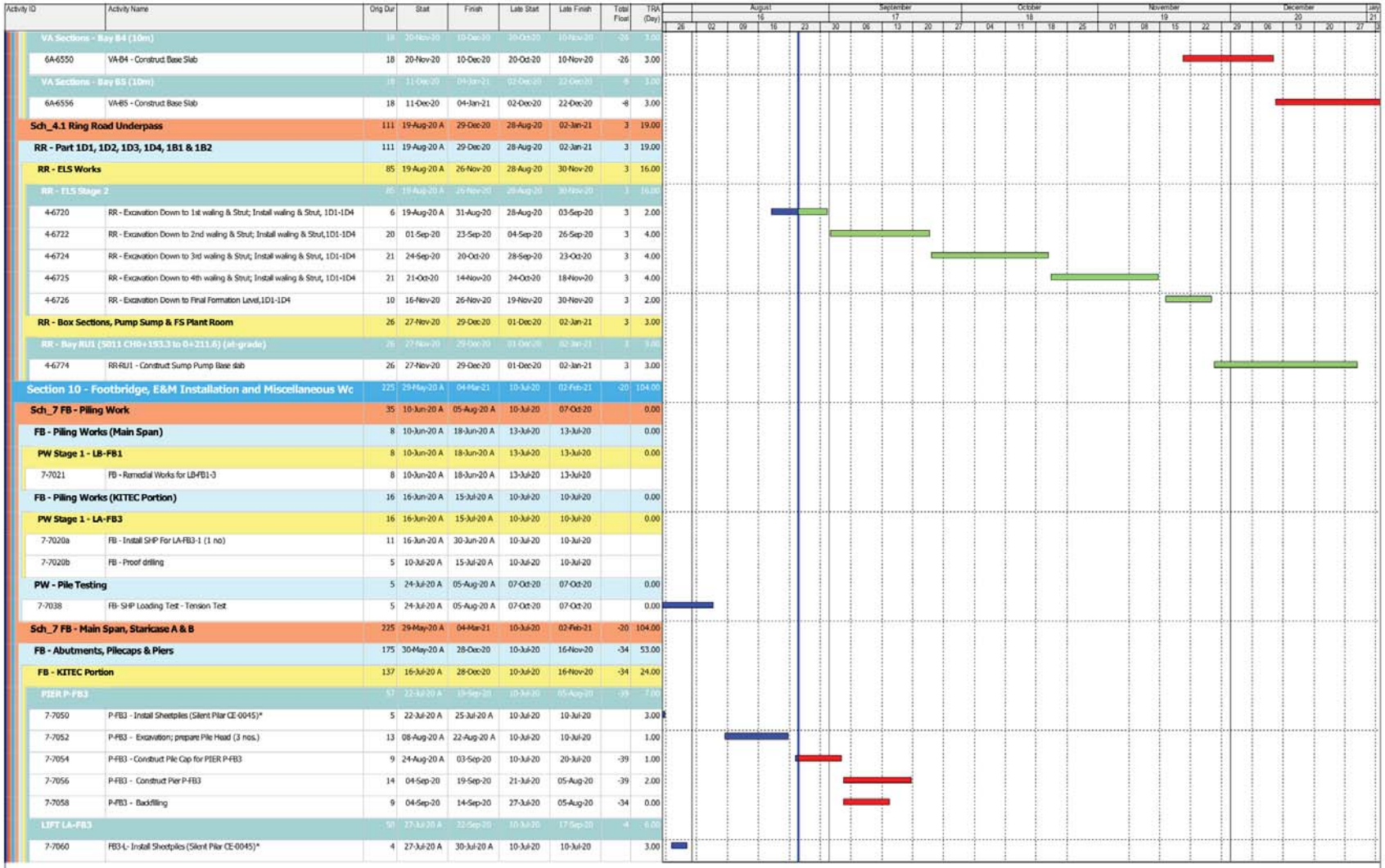

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VA Sections - Bay B4 (10m)		18	20-Nov-20	10-Dec-20	20-Oct-20	10-Nov-20	-26	3.00
6A-6550	VA-B4 - Construct Base Slab	18	20-Nov-20	10-Dec-20	20-Oct-20	10-Nov-20	-26	3.00
VA Sections - Bay B5 (10m)		18	11-Dec-20	04-Jan-21	02-Dec-20	22-Dec-20	-8	3.00
6A-6556	VA-B5 - Construct Base Slab	18	11-Dec-20	04-Jan-21	02-Dec-20	22-Dec-20	-8	3.00
Sch_4.1 Ring Road Underpass		111	19-Aug-20 A	29-Dec-20	28-Aug-20	02-Jan-21	3	19.00
RR - Part 1D1, 1D2, 1D3, 1D4, 1B1 & 1B2		111	19-Aug-20 A	29-Dec-20	28-Aug-20	02-Jan-21	3	19.00
RR - ELS Works		85	19-Aug-20 A	26-Nov-20	28-Aug-20	30-Nov-20	3	16.00
RR - ELS Stage 2		85	19-Aug-20 A	26-Nov-20	28-Aug-20	30-Nov-20	3	16.00
4-6720	RR - Excavation Down to 1st waling & Strut; Install waling & Strut, 1D1-1D4	6	19-Aug-20 A	31-Aug-20	28-Aug-20	03-Sep-20	3	2.00
4-6722	RR - Excavation Down to 2nd waling & Strut; Install waling & Strut,1D1-1D4	20	01-Sep-20	23-Sep-20	04-Sep-20	26-Sep-20	3	4.00
4-6724	RR - Excavation Down to 3rd waling & Strut; Install waling & Strut, 1D1-1D4	21	24-Sep-20	20-Oct-20	28-Sep-20	23-Oct-20	3	4.00
4-6725	RR - Excavation Down to 4th waling & Strut; Install waling & Strut, 1D1-1D4	21	21-Oct-20	14-Nov-20	24-Oct-20	18-Nov-20	3	4.00
4-6726	RR - Excavation Down to Final Formation Level,1D1-1D4	10	16-Nov-20	26-Nov-20	19-Nov-20	30-Nov-20	3	2.00
RR - Box Sections, Pump Sump & FS Plant Room		26	27-Nov-20	29-Dec-20	01-Dec-20	02-Jan-21	3	3.00
RR - Bay RU1 (S011 CH0+193.3 to 0+211.6) (at-grade)		26	27-Nov-20	29-Dec-20	01-Dec-20	02-Jan-21	3	3.00
4-6774	RR-RU1 - Construct Sump Pump Base slab	26	27-Nov-20	29-Dec-20	01-Dec-20	02-Jan-21	3	3.00
Section 10 - Footbridge, E&M Installation and Miscellaneous Wc		225	29-May-20 A	04-Mar-21	10-Jul-20	02-Feb-21	-20	104.00
Sch_7 FB - Piling Work		35	10-Jun-20 A	05-Aug-20 A	10-Jul-20	07-Oct-20		0.00
FB - Piling Works (Main Span)		8	10-Jun-20 A	18-Jun-20 A	13-Jul-20	13-Jul-20		0.00
PW Stage 1 - LB-FB1		8	10-Jun-20 A	18-Jun-20 A	13-Jul-20	13-Jul-20		0.00
7-7021	FB - Remedial Works for LB-FB1-3	8	10-Jun-20 A	18-Jun-20 A	13-Jul-20	13-Jul-20		
FB - Piling Works (KITEC Portion)		16	16-Jun-20 A	15-Jul-20 A	10-Jul-20	10-Jul-20		0.00
PW Stage 1 - LA-FB3		16	16-Jun-20 A	15-Jul-20 A	10-Jul-20	10-Jul-20		0.00
7-7020a	FB - Install SHP For LA-FB3-1 (1 no)	11	16-Jun-20 A	30-Jun-20 A	10-Jul-20	10-Jul-20		
7-7020b	FB - Proof drilling	5	10-Jul-20 A	15-Jul-20 A	10-Jul-20	10-Jul-20		
PW - Pile Testing		5	24-Jul-20 A	05-Aug-20 A	07-Oct-20	07-Oct-20		0.00
7-7038	FB- SHP Loading Test - Tension Test	5	24-Jul-20 A	05-Aug-20 A	07-Oct-20	07-Oct-20		0.00
Sch_7 FB - Main Span, Staricase A & B		225	29-May-20 A	04-Mar-21	10-Jul-20	02-Feb-21	-20	104.00
FB - Abutments, Pilecaps & Piers		175	30-May-20 A	28-Dec-20	10-Jul-20	16-Nov-20	-34	53.00
FB - KITEC Portion		137	16-Jul-20 A	28-Dec-20	10-Jul-20	16-Nov-20	-34	24.00
PIER P-FB3		57	22-Jul-20 A	19-Sep-20	10-Jul-20	05-Aug-20	-39	7.00
7-7050	P-FB3 - Install Sheetpiles (Silent Pilar CE-0045)*	5	22-Jul-20 A	25-Jul-20 A	10-Jul-20	10-Jul-20		3.00
7-7052	P-FB3 - Excavation; prepare Pile Head (3 nos.)	13	08-Aug-20 A	22-Aug-20 A	10-Jul-20	10-Jul-20		1.00
7-7054	P-FB3 - Construct Pile Cap for PIER P-FB3	9	24-Aug-20 A	03-Sep-20	10-Jul-20	20-Jul-20	-39	1.00
7-7056	P-FB3 - Construct Pier P-FB3	14	04-Sep-20	19-Sep-20	21-Jul-20	05-Aug-20	-39	2.00
7-7058	P-FB3 - Backfilling	9	04-Sep-20	14-Sep-20	27-Jul-20	05-Aug-20	-34	0.00
LIFT LA-FB3		50	27-Jul-20 A	22-Sep-20	10-Jul-20	17-Sep-20	-4	6.00
7-7060	FB3-L- Install Sheetpiles (Silent Pilar CE-0045)*	4	27-Jul-20 A	30-Jul-20 A	10-Jul-20	10-Jul-20		3.00

August 16 | September 17 | October 18 | November 19 | December 20 | January 21

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Page 13 of 19

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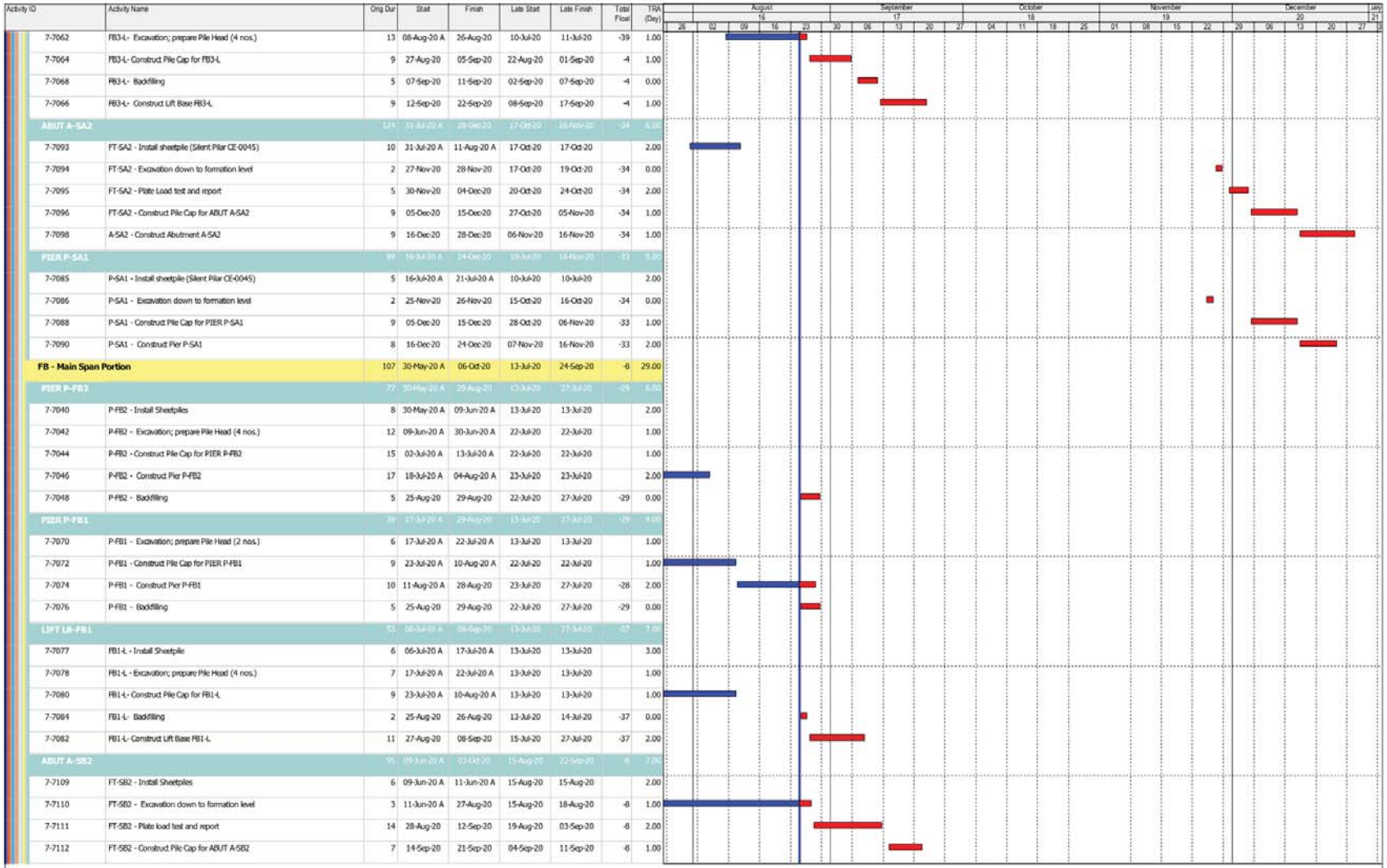

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7-7062	FB3-L- Excavation; prepare Pile Head (4 nos.)	13	08-Aug-20 A	26-Aug-20	10-Jul-20	11-Jul-20	-39	1.00
7-7064	FB3-L- Construct Pile Cap for FB3-L	9	27-Aug-20	05-Sep-20	22-Aug-20	01-Sep-20	-4	1.00
7-7068	FB3-L- Backfilling	5	07-Sep-20	11-Sep-20	02-Sep-20	07-Sep-20	-4	0.00
7-7066	FB3-L- Construct Lift Base FB3-L	9	12-Sep-20	22-Sep-20	08-Sep-20	17-Sep-20	-4	1.00
ABUT A-SA2		124	31-Jul-20 A	28-Dec-20	17-Oct-20	16-Nov-20	-34	5.00
7-7093	FT-SA2 - Install sheetpile (Silent Pilar CE-0045)	10	31-Jul-20 A	11-Aug-20 A	17-Oct-20	17-Oct-20		2.00
7-7094	FT-SA2 - Excavation down to formation level	2	27-Nov-20	28-Nov-20	17-Oct-20	19-Oct-20	-34	0.00
7-7095	FT-SA2 - Plate Load test and report	5	30-Nov-20	04-Dec-20	20-Oct-20	24-Oct-20	-34	2.00
7-7096	FT-SA2 - Construct Pile Cap for ABUT A-SA2	9	05-Dec-20	15-Dec-20	27-Oct-20	05-Nov-20	-34	1.00
7-7098	A-SA2 - Construct Abutment A-SA2	9	16-Dec-20	28-Dec-20	06-Nov-20	16-Nov-20	-34	1.00
PIER P-SA1		89	16-Jul-20 A	14-Dec-20	10-Jul-20	16-Nov-20	-33	3.00
7-7085	P-SA1 - Install sheetpile (Silent Pilar CE-0045)	5	16-Jul-20 A	21-Jul-20 A	10-Jul-20	10-Jul-20		2.00
7-7086	P-SA1 - Excavation down to formation level	2	25-Nov-20	26-Nov-20	15-Oct-20	16-Oct-20	-34	0.00
7-7088	P-SA1 - Construct Pile Cap for PIER P-SA1	9	05-Dec-20	15-Dec-20	28-Oct-20	06-Nov-20	-33	1.00
7-7090	P-SA1 - Construct Pier P-SA1	8	16-Dec-20	24-Dec-20	07-Nov-20	16-Nov-20	-33	2.00
FB - Main Span Portion		107	30-May-20 A	06-Oct-20	13-Jul-20	24-Sep-20	-8	29.00
PIER P-FB2		77	30-May-20 A	29-Aug-20	13-Jul-20	27-Jul-20	-29	6.00
7-7040	P-FB2 - Install Sheetpiles	8	30-May-20 A	09-Jun-20 A	13-Jul-20	13-Jul-20		2.00
7-7042	P-FB2 - Excavation; prepare Pile Head (4 nos.)	12	09-Jun-20 A	30-Jun-20 A	22-Jul-20	22-Jul-20		1.00
7-7044	P-FB2 - Construct Pile Cap for PIER P-FB2	15	02-Jul-20 A	13-Jul-20 A	22-Jul-20	22-Jul-20		1.00
7-7046	P-FB2 - Construct Pier P-FB2	17	18-Jul-20 A	04-Aug-20 A	23-Jul-20	23-Jul-20		2.00
7-7048	P-FB2 - Backfilling	5	25-Aug-20	29-Aug-20	22-Jul-20	27-Jul-20	-29	0.00
PIER P-FB1		89	17-Jul-20 A	29-Aug-20	13-Jul-20	27-Jul-20	-29	4.00
7-7070	P-FB1 - Excavation; prepare Pile Head (2 nos.)	6	17-Jul-20 A	22-Jul-20 A	13-Jul-20	13-Jul-20		1.00
7-7072	P-FB1 - Construct Pile Cap for PIER P-FB1	9	23-Jul-20 A	10-Aug-20 A	22-Jul-20	22-Jul-20		1.00
7-7074	P-FB1 - Construct Pier P-FB1	10	11-Aug-20 A	28-Aug-20	23-Jul-20	27-Jul-20	-28	2.00
7-7076	P-FB1 - Backfilling	5	25-Aug-20	29-Aug-20	22-Jul-20	27-Jul-20	-29	0.00
LIFT LB-FB1		53	06-Jul-20 A	08-Sep-20	13-Jul-20	27-Jul-20	-37	7.00
7-7077	FB1-L - Install Sheetpile	6	06-Jul-20 A	17-Jul-20 A	13-Jul-20	13-Jul-20		3.00
7-7078	FB1-L - Excavation; prepare Pile Head (4 nos.)	7	17-Jul-20 A	22-Jul-20 A	13-Jul-20	13-Jul-20		1.00
7-7080	FB1-L- Construct Pile Cap for FB1-L	9	23-Jul-20 A	10-Aug-20 A	13-Jul-20	13-Jul-20		1.00
7-7084	FB1-L- Backfilling	2	25-Aug-20	26-Aug-20	13-Jul-20	14-Jul-20	-37	0.00
7-7082	FB1-L- Construct Lift Base FB1-L	11	27-Aug-20	08-Sep-20	15-Jul-20	27-Jul-20	-37	2.00
ABUT A-SB2		95	09-Jun-20 A	03-Oct-20	15-Aug-20	22-Sep-20	8	7.00
7-7109	FT-SB2 - Install Sheetpiles	6	09-Jun-20 A	11-Jun-20 A	15-Aug-20	15-Aug-20		2.00
7-7110	FT-SB2 - Excavation down to formation level	3	11-Jun-20 A	27-Aug-20	15-Aug-20	18-Aug-20	-8	1.00
7-7111	FT-SB2 - Plate load test and report	14	28-Aug-20	12-Sep-20	19-Aug-20	03-Sep-20	-8	2.00
7-7112	FT-SB2 - Construct Pile Cap for ABUT A-SB2	7	14-Sep-20	21-Sep-20	04-Sep-20	11-Sep-20	-8	1.00

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Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP10_M16
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Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
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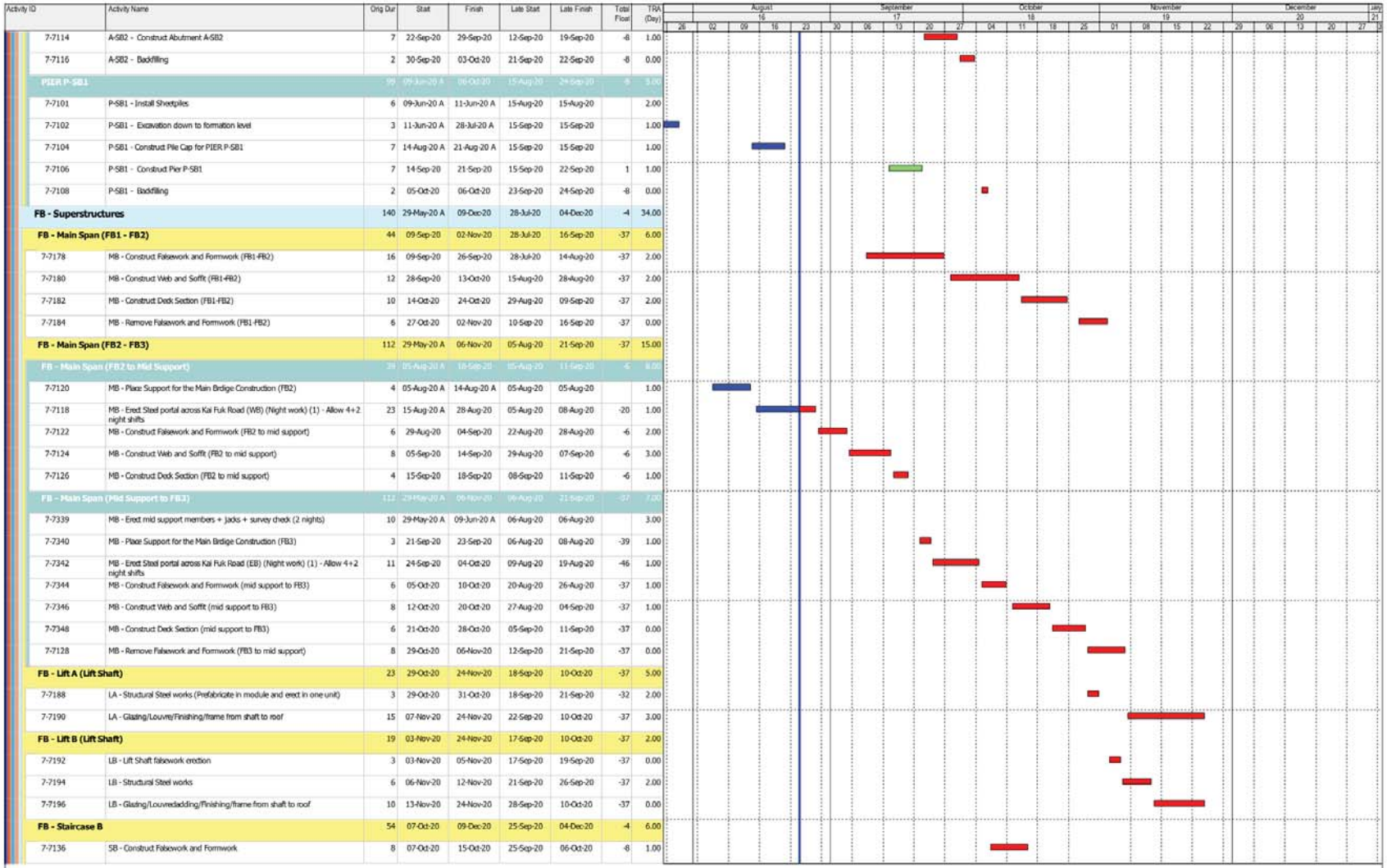
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC



Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
7-7114	A-SB2 - Construct Abutment A-SB2	7	22-Sep-20	29-Sep-20	12-Sep-20	19-Sep-20	-8	1.00
7-7116	A-SB2 - Backfilling	2	30-Sep-20	03-Oct-20	21-Sep-20	22-Sep-20	-8	0.00
PIER P-SB1		99	09-Jun-20 A	06-Oct-20	15-Aug-20	24-Sep-20	-8	3.00
7-7101	P-SB1 - Install Sheetpiles	6	09-Jun-20 A	11-Jun-20 A	15-Aug-20	15-Aug-20		2.00
7-7102	P-SB1 - Excavation down to formation level	3	11-Jun-20 A	28-Jul-20 A	15-Sep-20	15-Sep-20		1.00
7-7104	P-SB1 - Construct Pile Cap for PIER P-SB1	7	14-Aug-20 A	21-Aug-20 A	15-Sep-20	15-Sep-20		1.00
7-7106	P-SB1 - Construct Pier P-SB1	7	14-Sep-20	21-Sep-20	15-Sep-20	22-Sep-20	1	1.00
7-7108	P-SB1 - Backfilling	2	05-Oct-20	06-Oct-20	23-Sep-20	24-Sep-20	-8	0.00
FB - Superstructures		140	29-May-20 A	09-Dec-20	28-Jul-20	04-Dec-20	-4	34.00
FB - Main Span (FB1 - FB2)		44	09-Sep-20	02-Nov-20	28-Jul-20	16-Sep-20	-37	6.00
7-7178	MB - Construct Falsework and Formwork (FB1-FB2)	16	09-Sep-20	26-Sep-20	28-Jul-20	14-Aug-20	-37	2.00
7-7180	MB - Construct Web and Soffit (FB1-FB2)	12	28-Sep-20	13-Oct-20	15-Aug-20	28-Aug-20	-37	2.00
7-7182	MB - Construct Deck Section (FB1-FB2)	10	14-Oct-20	24-Oct-20	29-Aug-20	09-Sep-20	-37	2.00
7-7184	MB - Remove Falsework and Formwork (FB1-FB2)	6	27-Oct-20	02-Nov-20	10-Sep-20	16-Sep-20	-37	0.00
FB - Main Span (FB2 - FB3)		112	29-May-20 A	06-Nov-20	05-Aug-20	21-Sep-20	-37	15.00
FB - Main Span (FB2 to Mid Support)		39	05-Aug-20 A	18-Sep-20	05-Aug-20	11-Sep-20	-5	8.00
7-7120	MB - Place Support for the Main Bridge Construction (FB2)	4	05-Aug-20 A	14-Aug-20 A	05-Aug-20	05-Aug-20		1.00
7-7118	MB - Erect Steel portal across Kai Fuk Road (WB) (Night work) (1) - Allow 4+2 night shifts	23	15-Aug-20 A	28-Aug-20	05-Aug-20	08-Aug-20	-20	1.00
7-7122	MB - Construct Falsework and Formwork (FB2 to mid support)	6	29-Aug-20	04-Sep-20	22-Aug-20	28-Aug-20	-6	2.00
7-7124	MB - Construct Web and Soffit (FB2 to mid support)	8	05-Sep-20	14-Sep-20	29-Aug-20	07-Sep-20	-6	3.00
7-7126	MB - Construct Deck Section (FB2 to mid support)	4	15-Sep-20	18-Sep-20	08-Sep-20	11-Sep-20	-6	1.00
FB - Main Span (Mid Support to FB3)		112	29-May-20 A	06-Nov-20	06-Aug-20	21-Sep-20	-37	7.00
7-7339	MB - Erect mid support members + jacks + survey check (2 nights)	10	29-May-20 A	09-Jun-20 A	06-Aug-20	06-Aug-20		3.00
7-7340	MB - Place Support for the Main Bridge Construction (FB3)	3	21-Sep-20	23-Sep-20	06-Aug-20	08-Aug-20	-39	1.00
7-7342	MB - Erect Steel portal across Kai Fuk Road (EB) (Night work) (1) - Allow 4+2 night shifts	11	24-Sep-20	04-Oct-20	09-Aug-20	19-Aug-20	-46	1.00
7-7344	MB - Construct Falsework and Formwork (mid support to FB3)	6	05-Oct-20	10-Oct-20	20-Aug-20	26-Aug-20	-37	1.00
7-7346	MB - Construct Web and Soffit (mid support to FB3)	8	12-Oct-20	20-Oct-20	27-Aug-20	04-Sep-20	-37	1.00
7-7348	MB - Construct Deck Section (mid support to FB3)	6	21-Oct-20	28-Oct-20	05-Sep-20	11-Sep-20	-37	0.00
7-7128	MB - Remove Falsework and Formwork (FB3 to mid support)	8	29-Oct-20	06-Nov-20	12-Sep-20	21-Sep-20	-37	0.00
FB - Lift A (Lift Shaft)		23	29-Oct-20	24-Nov-20	18-Sep-20	10-Oct-20	-37	5.00
7-7188	LA - Structural Steel works (Prefabricate in module and erect in one unit)	3	29-Oct-20	31-Oct-20	18-Sep-20	21-Sep-20	-32	2.00
7-7190	LA - Glazing/Louvre/Finishing/frame from shaft to roof	15	07-Nov-20	24-Nov-20	22-Sep-20	10-Oct-20	-37	3.00
FB - Lift B (Lift Shaft)		19	03-Nov-20	24-Nov-20	17-Sep-20	10-Oct-20	-37	2.00
7-7192	LB - Lift Shaft falsework erection	3	03-Nov-20	05-Nov-20	17-Sep-20	19-Sep-20	-37	0.00
7-7194	LB - Structural Steel works	6	06-Nov-20	12-Nov-20	21-Sep-20	26-Sep-20	-37	2.00
7-7196	LB - Glazing/Louvredadding/Finishing/frame from shaft to roof	10	13-Nov-20	24-Nov-20	28-Sep-20	10-Oct-20	-37	0.00
FB - Staircase B		54	07-Oct-20	09-Dec-20	25-Sep-20	04-Dec-20	-4	6.00
7-7136	SB - Construct Falsework and Formwork	8	07-Oct-20	15-Oct-20	25-Sep-20	06-Oct-20	-8	1.00

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Page 15 of 19

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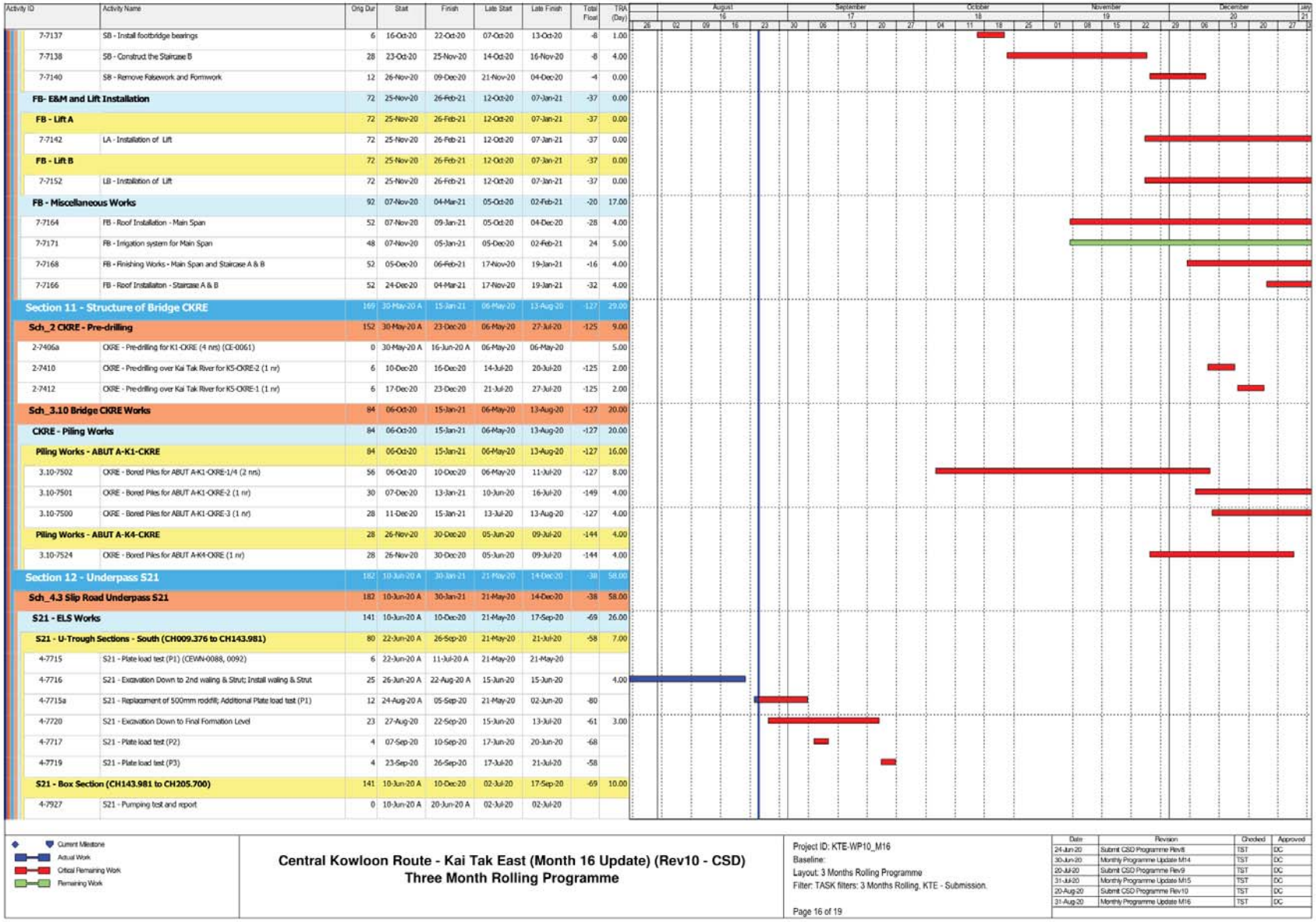

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7-7137	SB - Install footbridge bearings	6	16-Oct-20	22-Oct-20	07-Oct-20	13-Oct-20	-8	1.00
7-7138	SB - Construct the Staircase B	28	23-Oct-20	25-Nov-20	14-Oct-20	16-Nov-20	-8	4.00
7-7140	SB - Remove Falsework and Formwork	12	26-Nov-20	09-Dec-20	21-Nov-20	04-Dec-20	-4	0.00
FB- E&M and Lift Installation		72	25-Nov-20	26-Feb-21	12-Oct-20	07-Jan-21	-37	0.00
FB - Lift A		72	25-Nov-20	26-Feb-21	12-Oct-20	07-Jan-21	-37	0.00
7-7142	LA - Installation of Lift	72	25-Nov-20	26-Feb-21	12-Oct-20	07-Jan-21	-37	0.00
FB - Lift B		72	25-Nov-20	26-Feb-21	12-Oct-20	07-Jan-21	-37	0.00
7-7152	LB - Installation of Lift	72	25-Nov-20	26-Feb-21	12-Oct-20	07-Jan-21	-37	0.00
FB - Miscellaneous Works		92	07-Nov-20	04-Mar-21	05-Oct-20	02-Feb-21	-20	17.00
7-7164	FB - Roof Installation - Main Span	52	07-Nov-20	09-Jan-21	05-Oct-20	04-Dec-20	-28	4.00
7-7171	FB - Irrigation system for Main Span	48	07-Nov-20	05-Jan-21	05-Dec-20	02-Feb-21	24	5.00
7-7168	FB - Finishing Works - Main Span and Staircase A & B	52	05-Dec-20	06-Feb-21	17-Nov-20	19-Jan-21	-16	4.00
7-7166	FB - Roof Installaiton - Staircase A & B	52	24-Dec-20	04-Mar-21	17-Nov-20	19-Jan-21	-32	4.00
Section 11 - Structure of Bridge CKRE		169	30-May-20 A	15-Jan-21	06-May-20	13-Aug-20	-127	29.00
Sch_2 CKRE - Pre-drilling		152	30-May-20 A	23-Dec-20	06-May-20	27-Jul-20	-125	9.00
2-7406a	CKRE - Pre-drilling for K1-CKRE (4 nrs) (CE-0061)	0	30-May-20 A	16-Jun-20 A	06-May-20	06-May-20		5.00
2-7410	CKRE - Pre-drilling over Kai Tak River for K5-CKRE-2 (1 nr)	6	10-Dec-20	16-Dec-20	14-Jul-20	20-Jul-20	-125	2.00
2-7412	CKRE - Pre-drilling over Kai Tak River for K5-CKRE-1 (1 nr)	6	17-Dec-20	23-Dec-20	21-Jul-20	27-Jul-20	-125	2.00
Sch_3.10 Bridge CKRE Works		84	06-Oct-20	15-Jan-21	06-May-20	13-Aug-20	-127	20.00
CKRE - Piling Works		84	06-Oct-20	15-Jan-21	06-May-20	13-Aug-20	-127	20.00
Piling Works - ABUT A-K1-CKRE		84	06-Oct-20	15-Jan-21	06-May-20	13-Aug-20	-127	16.00
3.10-7502	CKRE - Bored Piles for ABUT A-K1-CKRE-1/4 (2 nrs)	56	06-Oct-20	10-Dec-20	06-May-20	11-Jul-20	-127	8.00
3.10-7501	CKRE - Bored Piles for ABUT A-K1-CKRE-2 (1 nr)	30	07-Dec-20	13-Jan-21	10-Jun-20	16-Jul-20	-149	4.00
3.10-7500	CKRE - Bored Piles for ABUT A-K1-CKRE-3 (1 nr)	28	11-Dec-20	15-Jan-21	13-Jul-20	13-Aug-20	-127	4.00
Piling Works - ABUT A-K4-CKRE		28	26-Nov-20	30-Dec-20	05-Jun-20	09-Jul-20	-144	4.00
3.10-7524	CKRE - Bored Piles for ABUT A-K4-CKRE (1 nr)	28	26-Nov-20	30-Dec-20	05-Jun-20	09-Jul-20	-144	4.00
Section 12 - Underpass S21		182	10-Jun-20 A	30-Jan-21	21-May-20	14-Dec-20	-38	58.00
Sch_4.3 Slip Road Underpass S21		182	10-Jun-20 A	30-Jan-21	21-May-20	14-Dec-20	-38	58.00
S21 - ELS Works		141	10-Jun-20 A	10-Dec-20	21-May-20	17-Sep-20	-69	26.00
S21 - U-Trough Sections - South (CH009.376 to CH143.981)		80	22-Jun-20 A	26-Sep-20	21-May-20	21-Jul-20	-58	7.00
4-7715	S21 - Plate load test (P1) (CEWN-0088, 0092)	6	22-Jun-20 A	11-Jul-20 A	21-May-20	21-May-20		
4-7716	S21 - Excavation Down to 2nd waling & Strut; Install waling & Strut	25	26-Jun-20 A	22-Aug-20 A	15-Jun-20	15-Jun-20		4.00
4-7715a	S21 - Replacement of 500mm rockfill; Additional Plate load test (P1)	12	24-Aug-20 A	05-Sep-20	21-May-20	02-Jun-20	-80	
4-7720	S21 - Excavation Down to Final Formation Level	23	27-Aug-20	22-Sep-20	15-Jun-20	13-Jul-20	-61	3.00
4-7717	S21 - Plate load test (P2)	4	07-Sep-20	10-Sep-20	17-Jun-20	20-Jun-20	-68	
4-7719	S21 - Plate load test (P3)	4	23-Sep-20	26-Sep-20	17-Jul-20	21-Jul-20	-58	
S21 - Box Section (CH143.981 to CH205.700)		141	10-Jun-20 A	10-Dec-20	02-Jul-20	17-Sep-20	-69	10.00
4-7927	S21 - Pumping test and report	0	10-Jun-20 A	20-Jun-20 A	02-Jul-20	02-Jul-20		

August 16 | September 17 | October 18 | November 19 | December 20 | Jan 21

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Page 16 of 19

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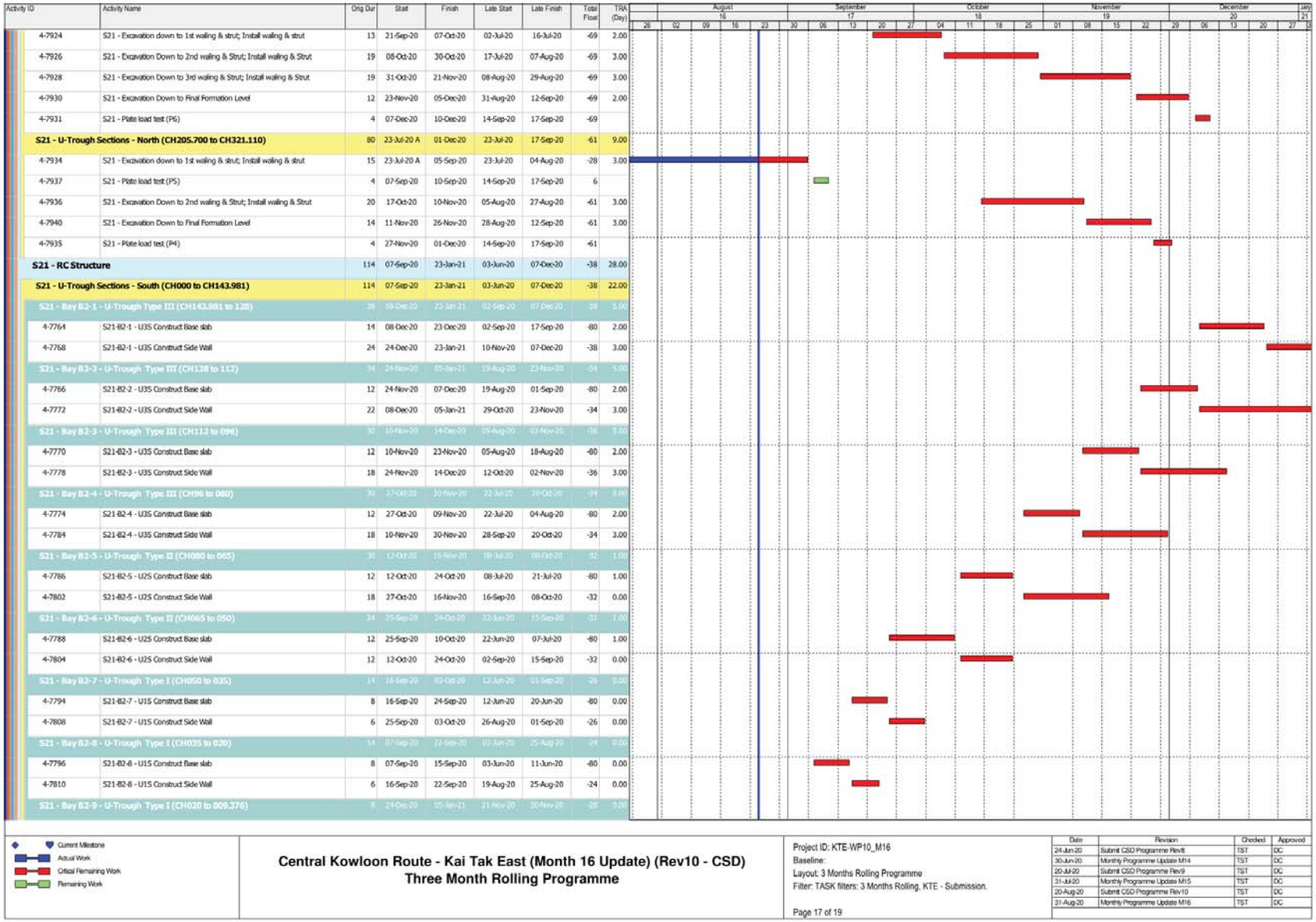

Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
4-7924	S21 - Excavation down to 1st waling & strut; Install waling & strut	13	21-Sep-20	07-Oct-20	02-Jul-20	16-Jul-20	-69	2.00
4-7926	S21 - Excavation Down to 2nd waling & Strut; Install waling & Strut	19	08-Oct-20	30-Oct-20	17-Jul-20	07-Aug-20	-69	3.00
4-7928	S21 - Excavation Down to 3rd waling & Strut; Install waling & Strut	19	31-Oct-20	21-Nov-20	08-Aug-20	29-Aug-20	-69	3.00
4-7930	S21 - Excavation Down to Final Formation Level	12	23-Nov-20	05-Dec-20	31-Aug-20	12-Sep-20	-69	2.00
4-7931	S21 - Plate load test (P6)	4	07-Dec-20	10-Dec-20	14-Sep-20	17-Sep-20	-69	
S21 - U-Trough Sections - North (CH205.700 to CH321.110)		80	23-Jul-20 A	01-Dec-20	23-Jul-20	17-Sep-20	-61	9.00
4-7934	S21 - Excavation down to 1st waling & strut; Install waling & strut	15	23-Jul-20 A	05-Sep-20	23-Jul-20	04-Aug-20	-28	3.00
4-7937	S21 - Plate load test (P5)	4	07-Sep-20	10-Sep-20	14-Sep-20	17-Sep-20	6	
4-7936	S21 - Excavation Down to 2nd waling & Strut; Install waling & Strut	20	17-Oct-20	10-Nov-20	05-Aug-20	27-Aug-20	-61	3.00
4-7940	S21 - Excavation Down to Final Formation Level	14	11-Nov-20	26-Nov-20	28-Aug-20	12-Sep-20	-61	3.00
4-7935	S21 - Plate load test (P4)	4	27-Nov-20	01-Dec-20	14-Sep-20	17-Sep-20	-61	
S21 - RC Structure		114	07-Sep-20	23-Jan-21	03-Jun-20	07-Dec-20	-38	28.00
S21 - U-Trough Sections - South (CH000 to CH143.981)		114	07-Sep-20	23-Jan-21	03-Jun-20	07-Dec-20	-38	22.00
S21 - Bay B2-1 - U-Trough Type III (CH143.981 to 128)		38	08-Dec-20	22-Jan-21	02-Sep-20	07-Dec-20	-38	5.00
4-7764	S21-B2-1 - U3S Construct Base slab	14	08-Dec-20	23-Dec-20	02-Sep-20	17-Sep-20	-80	2.00
4-7768	S21-B2-1 - U3S Construct Side Wall	24	24-Dec-20	23-Jan-21	10-Nov-20	07-Dec-20	-38	3.00
S21 - Bay B2-2 - U-Trough Type III (CH128 to 112)		34	24-Nov-20	05-Jan-21	19-Aug-20	23-Nov-20	-34	5.00
4-7766	S21-B2-2 - U3S Construct Base slab	12	24-Nov-20	07-Dec-20	19-Aug-20	01-Sep-20	-80	2.00
4-7772	S21-B2-2 - U3S Construct Side Wall	22	08-Dec-20	05-Jan-21	29-Oct-20	23-Nov-20	-34	3.00
S21 - Bay B2-3 - U-Trough Type III (CH112 to 096)		30	10-Nov-20	14-Dec-20	05-Aug-20	07-Nov-20	-56	5.00
4-7770	S21-B2-3 - U3S Construct Base slab	12	10-Nov-20	23-Nov-20	05-Aug-20	18-Aug-20	-80	2.00
4-7778	S21-B2-3 - U3S Construct Side Wall	18	24-Nov-20	14-Dec-20	12-Oct-20	02-Nov-20	-36	3.00
S21 - Bay B2-4 - U-Trough Type III (CH96 to 080)		30	27-Oct-20	30-Nov-20	22-Jul-20	20-Oct-20	-34	3.00
4-7774	S21-B2-4 - U3S Construct Base slab	12	27-Oct-20	09-Nov-20	22-Jul-20	04-Aug-20	-80	2.00
4-7784	S21-B2-4 - U3S Construct Side Wall	18	10-Nov-20	30-Nov-20	28-Sep-20	20-Oct-20	-34	3.00
S21 - Bay B2-5 - U-Trough Type II (CH080 to 065)		30	12-Oct-20	16-Nov-20	08-Jul-20	09-Oct-20	-32	1.00
4-7786	S21-B2-5 - U2S Construct Base slab	12	12-Oct-20	24-Oct-20	08-Jul-20	21-Jul-20	-80	1.00
4-7802	S21-B2-5 - U2S Construct Side Wall	18	27-Oct-20	16-Nov-20	16-Sep-20	08-Oct-20	-32	0.00
S21 - Bay B2-6 - U-Trough Type II (CH065 to 050)		34	25-Sep-20	24-Oct-20	23-Jun-20	15-Sep-20	-33	1.00
4-7788	S21-B2-6 - U2S Construct Base slab	12	25-Sep-20	10-Oct-20	22-Jun-20	07-Jul-20	-80	1.00
4-7804	S21-B2-6 - U2S Construct Side Wall	12	12-Oct-20	24-Oct-20	02-Sep-20	15-Sep-20	-32	0.00
S21 - Bay B2-7 - U-Trough Type I (CH050 to 035)		14	16-Sep-20	03-Oct-20	12-Jun-20	01-Sep-20	-26	0.00
4-7794	S21-B2-7 - U1S Construct Base slab	8	16-Sep-20	24-Sep-20	12-Jun-20	20-Jun-20	-80	0.00
4-7808	S21-B2-7 - U1S Construct Side Wall	6	25-Sep-20	03-Oct-20	26-Aug-20	01-Sep-20	-26	0.00
S21 - Bay B2-8 - U-Trough Type I (CH035 to 020)		14	07-Sep-20	22-Sep-20	03-Jun-20	25-Aug-20	-24	0.00
4-7796	S21-B2-8 - U1S Construct Base slab	8	07-Sep-20	15-Sep-20	03-Jun-20	11-Jun-20	-80	0.00
4-7810	S21-B2-8 - U1S Construct Side Wall	6	16-Sep-20	22-Sep-20	19-Aug-20	25-Aug-20	-24	0.00
S21 - Bay B2-9 - U-Trough Type I (CH020 to 009.376)		8	24-Dec-20	05-Jan-21	21-Nov-20	30-Nov-20	-28	0.00

August 16 | September 17 | October 18 | November 19 | December 20 | Jan 21

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Page 17 of 19

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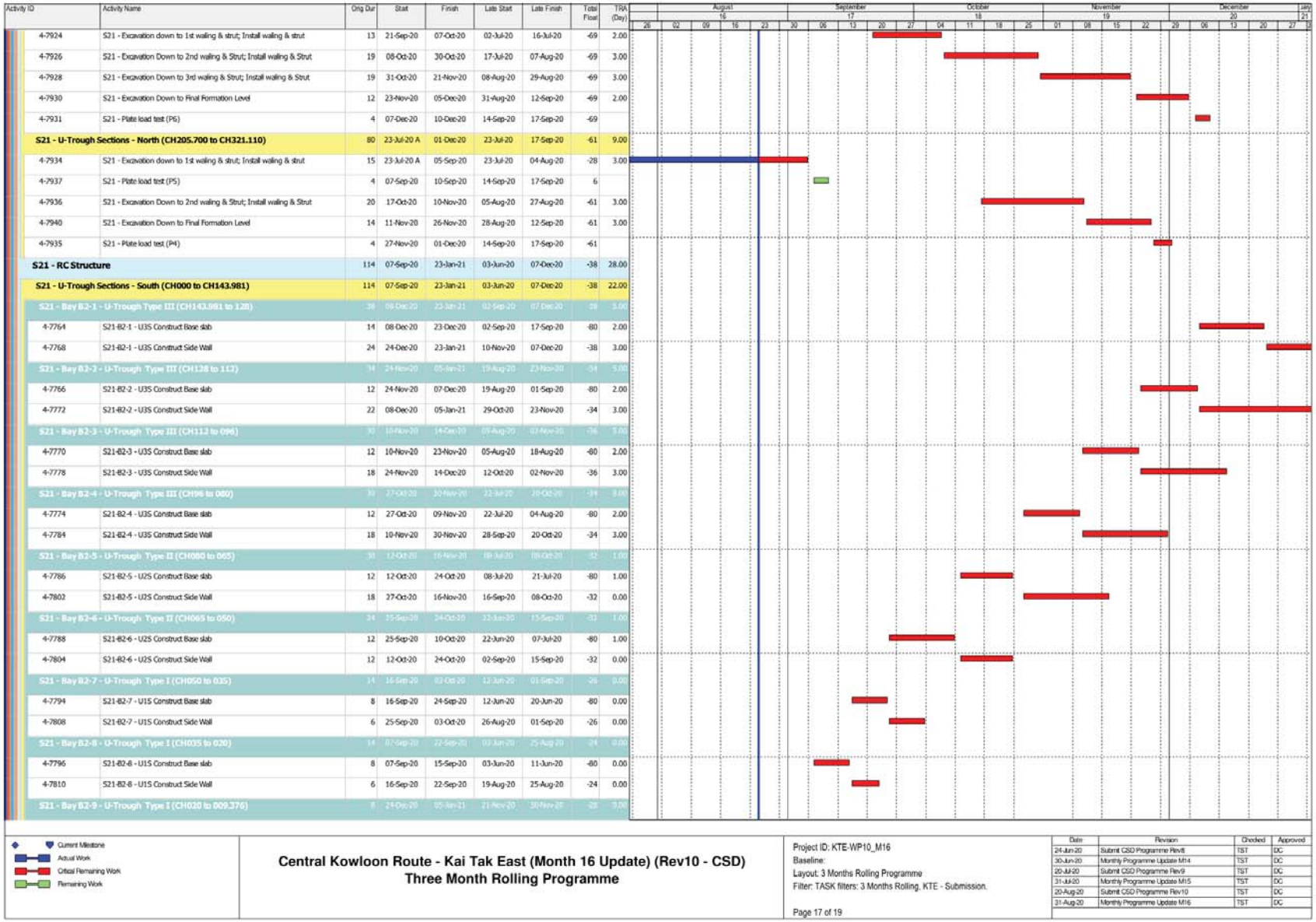

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4-7924	S21 - Excavation down to 1st waling & strut; Install waling & strut	13	21-Sep-20	07-Oct-20	02-Jul-20	16-Jul-20	-69	2.00
4-7926	S21 - Excavation Down to 2nd waling & Strut; Install waling & Strut	19	08-Oct-20	30-Oct-20	17-Jul-20	07-Aug-20	-69	3.00
4-7928	S21 - Excavation Down to 3rd waling & Strut; Install waling & Strut	19	31-Oct-20	21-Nov-20	08-Aug-20	29-Aug-20	-69	3.00
4-7930	S21 - Excavation Down to Final Formation Level	12	23-Nov-20	05-Dec-20	31-Aug-20	12-Sep-20	-69	2.00
4-7931	S21 - Plate load test (P6)	4	07-Dec-20	10-Dec-20	14-Sep-20	17-Sep-20	-69	
S21 - U-Trough Sections - North (CH205.700 to CH321.110)		80	23-Jul-20 A	01-Dec-20	23-Jul-20	17-Sep-20	-61	9.00
4-7934	S21 - Excavation down to 1st waling & strut; Install waling & strut	15	23-Jul-20 A	05-Sep-20	23-Jul-20	04-Aug-20	-28	3.00
4-7937	S21 - Plate load test (P5)	4	07-Sep-20	10-Sep-20	14-Sep-20	17-Sep-20	6	
4-7936	S21 - Excavation Down to 2nd waling & Strut; Install waling & Strut	20	17-Oct-20	10-Nov-20	05-Aug-20	27-Aug-20	-61	3.00
4-7940	S21 - Excavation Down to Final Formation Level	14	11-Nov-20	26-Nov-20	28-Aug-20	12-Sep-20	-61	3.00
4-7935	S21 - Plate load test (P4)	4	27-Nov-20	01-Dec-20	14-Sep-20	17-Sep-20	-61	
S21 - RC Structure		114	07-Sep-20	23-Jan-21	03-Jun-20	07-Dec-20	-38	28.00
S21 - U-Trough Sections - South (CH000 to CH143.981)		114	07-Sep-20	23-Jan-21	03-Jun-20	07-Dec-20	-38	22.00
S21 - Bay B2-1 - U-Trough Type III (CH143.981 to 128)		38	08-Dec-20	22-Jan-21	02-Sep-20	07-Dec-20	-38	5.00
4-7764	S21-B2-1 - U3S Construct Base slab	14	08-Dec-20	23-Dec-20	02-Sep-20	17-Sep-20	-80	2.00
4-7768	S21-B2-1 - U3S Construct Side Wall	24	24-Dec-20	23-Jan-21	10-Nov-20	07-Dec-20	-38	3.00
S21 - Bay B2-2 - U-Trough Type III (CH128 to 112)		34	24-Nov-20	05-Jan-21	19-Aug-20	23-Nov-20	-34	5.00
4-7766	S21-B2-2 - U3S Construct Base slab	12	24-Nov-20	07-Dec-20	19-Aug-20	01-Sep-20	-80	2.00
4-7772	S21-B2-2 - U3S Construct Side Wall	22	08-Dec-20	05-Jan-21	29-Oct-20	23-Nov-20	-34	3.00
S21 - Bay B2-3 - U-Trough Type III (CH112 to 096)		30	10-Nov-20	14-Dec-20	05-Aug-20	07-Nov-20	-56	5.00
4-7770	S21-B2-3 - U3S Construct Base slab	12	10-Nov-20	23-Nov-20	05-Aug-20	18-Aug-20	-80	2.00
4-7778	S21-B2-3 - U3S Construct Side Wall	18	24-Nov-20	14-Dec-20	12-Oct-20	02-Nov-20	-36	3.00
S21 - Bay B2-4 - U-Trough Type III (CH96 to 080)		30	27-Oct-20	30-Nov-20	22-Jul-20	20-Oct-20	-34	3.00
4-7774	S21-B2-4 - U3S Construct Base slab	12	27-Oct-20	09-Nov-20	22-Jul-20	04-Aug-20	-80	2.00
4-7784	S21-B2-4 - U3S Construct Side Wall	18	10-Nov-20	30-Nov-20	28-Sep-20	20-Oct-20	-34	3.00
S21 - Bay B2-5 - U-Trough Type II (CH080 to 065)		30	12-Oct-20	16-Nov-20	08-Jul-20	09-Oct-20	-32	1.00
4-7786	S21-B2-5 - U2S Construct Base slab	12	12-Oct-20	24-Oct-20	08-Jul-20	21-Jul-20	-80	1.00
4-7802	S21-B2-5 - U2S Construct Side Wall	18	27-Oct-20	16-Nov-20	16-Sep-20	08-Oct-20	-32	0.00
S21 - Bay B2-6 - U-Trough Type II (CH065 to 050)		34	25-Sep-20	24-Oct-20	23-Jun-20	15-Sep-20	-33	1.00
4-7788	S21-B2-6 - U2S Construct Base slab	12	25-Sep-20	10-Oct-20	22-Jun-20	07-Jul-20	-80	1.00
4-7804	S21-B2-6 - U2S Construct Side Wall	12	12-Oct-20	24-Oct-20	02-Sep-20	15-Sep-20	-32	0.00
S21 - Bay B2-7 - U-Trough Type I (CH050 to 035)		14	16-Sep-20	03-Oct-20	12-Jun-20	01-Sep-20	-26	0.00
4-7794	S21-B2-7 - U1S Construct Base slab	8	16-Sep-20	24-Sep-20	12-Jun-20	20-Jun-20	-80	0.00
4-7808	S21-B2-7 - U1S Construct Side Wall	6	25-Sep-20	03-Oct-20	26-Aug-20	01-Sep-20	-26	0.00
S21 - Bay B2-8 - U-Trough Type I (CH035 to 020)		14	07-Sep-20	22-Sep-20	03-Jun-20	25-Aug-20	-24	0.00
4-7796	S21-B2-8 - U1S Construct Base slab	8	07-Sep-20	15-Sep-20	03-Jun-20	11-Jun-20	-80	0.00
4-7810	S21-B2-8 - U1S Construct Side Wall	6	16-Sep-20	22-Sep-20	19-Aug-20	25-Aug-20	-24	0.00
S21 - Bay B2-9 - U-Trough Type I (CH020 to 009.376)		8	24-Dec-20	05-Jan-21	21-Nov-20	30-Nov-20	-28	0.00

August 16 | September 17 | October 18 | November 19 | December 20 | Jan 21

Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

Page 17 of 19

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC

Activity ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)
10-8540	DCS(W)_A - ELS consent to start	0	08-Sep-20		28-May-20		-86	
10-8542	DCS(W)_A - Land borrowed from BEM contract (Assume 1st of Oct)	0	03-Oct-20*		08-Apr-20		-144	
10-8456	DCS(W)_A - Mobilisation	6	03-Oct-20	09-Oct-20	08-Apr-20	17-Apr-20	-144	
10-8458	DCS(W)_A - Install 610 pipe piles (14 nos)	10	10-Oct-20	21-Oct-20	18-Apr-20	29-Apr-20	-144	3.00
10-8560	DCS(W)_A - Grout curtain behind pipepile (X00mm c/c)	10	22-Oct-20	03-Nov-20	02-May-20	13-May-20	-144	3.00
10-8462	DCS(W)_A - Removal of uncharted structure / Materials	12	04-Nov-20	17-Nov-20	14-May-20	27-May-20	-144	2.00
10-8461	DCS(W)_A - Install sheet piles (West)	10	18-Nov-20	28-Nov-20	19-Aug-20	29-Aug-20	-75	3.00
10-8463	DCS(W)_A - Install sheet piles (along nullah - preboring)	40	18-Nov-20	06-Jan-21	28-May-20	15-Jul-20	-144	3.00
DCS-West Section C (25m)		80	10-Oct-20	15-Jan-21	09-May-20	12-Aug-20	-128	19.00
10-8494	DCS(W)_C - Removal of uncharted structures / materials + 2m top layer of soil	12	10-Oct-20	23-Oct-20	09-May-20	22-May-20	-128	2.00
10-8497	DCS(W)_C - Install sheetpiles	10	24-Oct-20	05-Nov-20	23-May-20	03-Jun-20	-128	3.00
10-8498	DCS(W)_C - Install 610 pipe piles (13 nos)	12	06-Nov-20	19-Nov-20	04-Jun-20	17-Jun-20	-128	5.00
10-8499	DCS(W)_C - Grout curtain behind pipepile (500mm c/c)	12	13-Nov-20	26-Nov-20	11-Jun-20	24-Jun-20	-128	5.00
10-8500	DCS(W)_C - Install sheet piles (along nullash - preboring)	40	27-Nov-20	15-Jan-21	26-Jun-20	12-Aug-20	-128	4.00

Current Milestone
Actual Work
Critical Remaining Work
Remaining Work

Central Kowloon Route - Kai Tak East (Month 16 Update) (Rev10 - CSD)
Three Month Rolling Programme

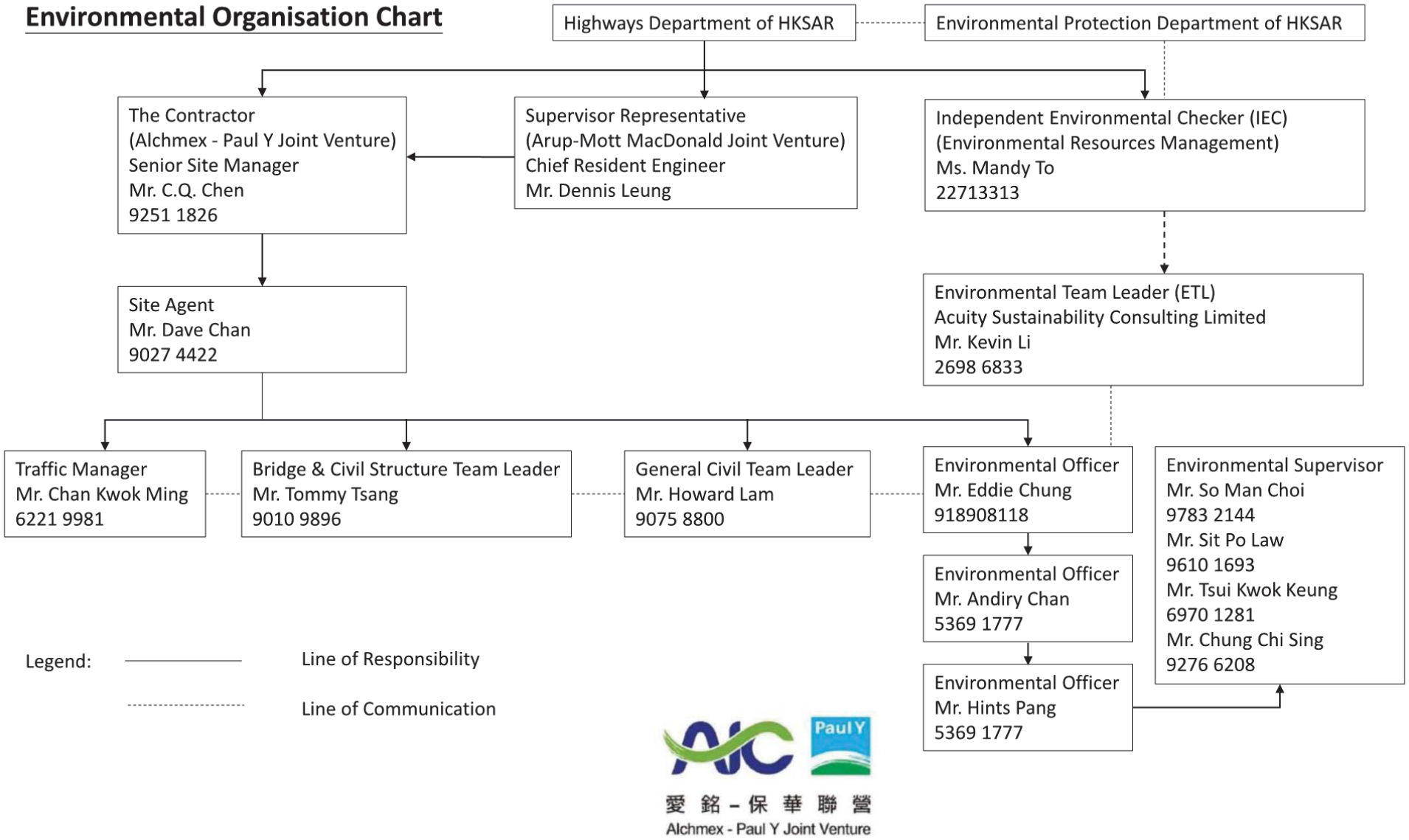
Project ID: KTE-WP10_M16
Baseline:
Layout: 3 Months Rolling Programme
Filter: TASK filters: 3 Months Rolling, KTE - Submission.

Page 19 of 19

Date	Revision	Checked	Approved
24-Jun-20	Submit CSD Programme Rev8	TST	DC
30-Jun-20	Monthly Programme Update M14	TST	DC
20-Jul-20	Submit CSD Programme Rev9	TST	DC
31-Jul-20	Monthly Programme Update M15	TST	DC
20-Aug-20	Submit CSD Programme Rev10	TST	DC
31-Aug-20	Monthly Programme Update M16	TST	DC

Appendix C
Project Organization Chart

Environmental Organisation Chart



Appendix D
Dust Event-Action Plan (EAP)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
ACTION LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2.Exceedance for two or more consecutive samples	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor and	1. Check monitoring data submitted by ET; 2. Check Contractor's working method;	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	3. Ensure remedial measures properly implemented.	within 3 working days of notification; Implement the agreed proposals; 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Note:

ET – Environmental Team

ER – Engineer's Representative

IEC – Independent Environmental Checker

Appendix E
Noise Event-Action Plan (EAP)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action Level	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Notify IEC and Contractor; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1.Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Appendix F
Environmental Mitigation Implementation Schedule (EMIS)

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction Dust Impact								
S4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented
S4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m^2 to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented
S4.3.10	D3	• Proper watering at exposed spoil should be undertaken throughout the construction phase; • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	• APCO • To control the dust impact To meet HKAQO and TM-EIA criteria	• Implemented and rectified after observation.

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		extended beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; • The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; • Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical						

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		continuously; • Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; • Any skip hoist for material transport should be totally enclosed by impervious sheeting; • Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system • Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						
S4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	• Implemented
Construction Noise (Airborne)								

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N1	Implement the following good site practices: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; • Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; • Mobile plant should be sited as far away from NSRs as possible and practicable; • Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented and rectified after observation.
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	• Implemented
Water Quality (Construction Phase)								

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1	W1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: <u>Construction Runoff</u> • 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 (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; • The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates; • The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN 1/94 • TM-EIAO • TM-DSS	• Implemented and rectified after observation.

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction; • All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means; • The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows; • 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 following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; • Measures should be taken to minimize the ingress						

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; • Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; • Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; • Precautions be taken at any time of year when rainstorms are likely, actions to 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 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; • 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 site wheel washing							

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis 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; • Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; • Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; • All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; • Adopt best management practices; • All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet						

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		season (April to September) as far as practicable.						
S6.9.1.2	W2	<u>Tunneling Works and Underground Works</u> • Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable. • Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; • The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater; • Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	• Water Pollution Control Ordinance • ProPECC PN 1/94 • TM-DSS • TM-EIAO	• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.3	W3	Sewage Effluent • Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	• Water Pollution Control Ordinance • TM-DSS	• Implemented
S6.9.1.5	W4	Groundwater from Potential Contaminated Area: • No direct discharge of groundwater from contaminated areas should be adopted. • A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The compliance to the Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters (TM-DSS) and the existence of prohibited substance should be confirmed. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, the contaminated groundwater should be either properly treated in compliance with the requirements of the TM-DSS or properly	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	• Water Pollution Control Ordinance • TM-DSS • TM-EIAO	• Implemented

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		recharged into the ground. • If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. • If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol						

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		interceptor.						
S6.9.1.6	W6	<u>Accidental Spillage</u> In order to prevent accidental spillage of chemicals, the following is recommended: • All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains; • The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN 1/94 • TM-EIAO • TM-DSS	• Implemented
Waste Management (Construction Waste)								
S7.4.1	WM1	<u>On-site sorting of C&D material</u> • Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.						
S7.5.1	WM2	<u>Construction and Demolition Material</u> • Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; • Carry out on-site sorting; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; • Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	• Land (Miscellaneous Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW No. 19/2005	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		• Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and • Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						
S7.5.1	WM3	C&D Waste • Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; • The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	• Land (Miscellaneous Provisions) Ordinance • Waste Disposal Ordinance • ETWB TCW No. 19/2005	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		sites should be considered for such segregation and storage.						
S7.5.1	WM4	Excavated Contaminated Soils • Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	• Practice Guide (PG) for Investigation and Remediation of Contaminated Land • GN/GM for land contamination	• Implemented
S7.5.1	WM5	Land-based Sediment • All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; • All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

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		approved locations; • Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. • The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; • The Contractors shall comply with the conditions in the dumping licence. • All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; • The material shall be placed into the disposal pit by bottom dumping; • Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; • Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. • For Type 3 special disposal treatment, sealing of						

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						
S7.5.1	WM6	Chemical Waste • Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; • Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; • The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	• Waste Disposal (Chemical Waste) (General) Regulation • Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	• Implemented and rectified after observation.

Environmental Mitigation Implementation Schedule –
Contract No. HY/2018/02 (Kai Tak East)

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		capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; • Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.						
S7.5.1	WM7	<u>General Refuse</u> • General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes; • A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. • Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible; • Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		collection. Participation in a local collection scheme should be considered by the Contractor.						
Land Contamination								
S8.9 & Appendix 8.4	LC2	<u>Excavation of the Contaminated Soil</u> • Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. • The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. • The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	• Practice Guide (PG) for Investigation and Remediation of Contaminated Land • Guidance Notes for Contaminated Land Assessment and Remediation • Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	• N/A
S8.9 & Appendix 8.4	LC3	• Following completion of the excavation to the specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below:						• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		<table><tr><td>Locations</td><td>Testing requirement</td><td>Acceptance Criteria</td></tr><tr><td>PBH4</td><td>PCBs</td><td>RBRGs (Public Park)</td></tr></table> • If the results of analysis below the RBRGs (Public Park), no further excavation will be required. If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist.						
Appendix 8.4	LC4	A Remediation Report (RR) to demonstrate adequate clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						• N/A
Hazard to Life								
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be	Construction stage	-	• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.			used			
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
Landscape & Visual								
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> • Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance. • Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented
S10.10.1 Table 10.11	LV4	<u>Screen Hoarding</u> • Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented
S10.10.1 Table 10.11	LV5	<u>Lighting Control during Construction</u> • All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		The Contractor shall consider other security measures, which shall minimize the visual impacts.						
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> • The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	• Implemented
S10.10.1 Table 10.11	LV7	<u>Tree Protection & Preservation</u> • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	• 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB • Latest recommended horticultural practices from GLTM Section, DEVB	• Implemented

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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S10.10.1 Table 10.11	LV8	Tree Transplantation • For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	• N/A
S10.10.1 Table 10.11	LV9	Compensatory Planting • For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006. • Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	• ETWB TCW 3/2006 • Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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		and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process.						
S10.10.1 Table 10.11	LV10	Screen Planting • Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	• Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB • ETWB TCW 2/2004	• N/A
S10.10.1 Table 10.11	LV12	Reinstatement • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	• N/A

Environmental Mitigation Implementation Schedule – Contract No. HY/2018/02 (Kai Tak East)

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Cultural Heritage Impact (Construction Phase)								
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	• AMOs requirements	• Implemented
EM&A Project								
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	• Implemented
S13.2-13.4	EM2	• An Environmental Team needs to be employed as per the EM&A Manual; • Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; • An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	• EIAO Guidance Note No. 4/2010 • TM-EIAO	• Implemented

Appendix G
Monitoring Schedule of the Reporting Month

August 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
26	27	28	29	30	31	1
2	3	4 Impact Dust monitoring (E-A1)	5	6	7	8
9	10 Impact Dust monitoring (E-A1)	11	12	13	14	15 Impact Dust monitoring (E-A1)
16	17	18	19	20	21 Impact Dust monitoring (E-A1)	22
23	24	25	26	27 Impact Dust monitoring (E-A1)	28	29
30	31					

Appendix H
Calibration Certificates
(Air Monitoring)

SIBATA

SIBATA SCIENTIFIC TECHNOLOGY LTD.
1-1-62, Nakane, Soka, Saitama, 340-0005 Japan
TEL : 048-933-1582 FAX : 048-933-1591

CALIBRATION CERTIFICATE

Date: August 1st, 2020

Equipment Name	:	Digital Dust Indicator, Model LD-5R
Code No.	:	080000-72
Quantity	:	1 unit
Serial No.	:	882106
Sensitivity	:	0.001 mg/m3
Sensitivity Adjustment	:	690
Scale Setting	:	July 22th, 2020

We hereby certify that the above mentioned instrument has been calibrated satisfactory.

Sincerely

SIBATA SCIENTIFIC TECHNOLOGY LTD.

Tong Zhang

Tong Zhang
Overseas & New Business Group
Overseas Sales Department

TISCH Environmental

RECALIBRATION DUE DATE:
October 10, 2020

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	October 10, 2019	**Rootsmeter S/N:** 438320	**Ta:** 296	°K
Operator:	Jim Tisch		**Pa:** 748.03	mm Hg
Calibration Model #:	TE-5028A	**Calibrator S/N:** **3702**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3100	4.1	1.50
2	3	4	1	1.0240	6.7	2.50
3	5	6	1	0.9260	8.0	3.00
4	7	8	1	0.8620	9.4	3.50
5	9	10	1	0.6540	16.2	6.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
0.9855	0.7523	1.2192	0.9945	0.7592	0.7704
0.9820	0.9590	1.5739	0.9910	0.9678	0.9946
0.9803	1.0586	1.7242	0.9893	1.0684	1.0895
0.9784	1.1351	1.8623	0.9874	1.1455	1.1768
0.9694	1.4823	2.4383	0.9783	1.4959	1.5409
QSTD	**m=**	**1.66723**	**QA**	**m=**	**1.04399**
	b=	**-0.03281**		**b=**	**-0.02074**
	r=	**0.99991**		**r=**	**0.99991**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	**Qa=**	$1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric pressure (mm Hg)
b: intercept
m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30.

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

InnoTech Instrumentation Co. Ltd.
創 新 科 儀 有 限 公 司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	22-Jul-2020
Serial No:	1049	Model:	TE-5170X	Operator:	Polar Chan

Ambient Condition

Corrected Pressure (mm Hg):	757.0	Temperature (deg K):	303.0

Calibration Orifice

Model:	TE-5028A	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or Test #	In,H2O (in)	Qa, X-Axis (m3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	1.95	0.849	32.4	32.03
2	2.34	0.928	34.0	33.61
3	2.72	0.999	35.1	34.74
4	3.06	1.058	36.2	35.85
5	3.30	1.098	37.0	36.61

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 18.1758 b= 16.6376 Corr. Coeff= 0.9995

Sampler set point(SSP) 39 CFM

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg
For subsequent calculation of sampler flow:
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

m = sampler slope
b = sampler intercept
I = chart response
Tav = average temperature
Pav = average pressure

Checked by: Date: 22-Jul-20

InnoTech Instrumentation Co. Ltd.
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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	06-Aug-2020
Serial No:	1049	Model:	TE-5170X	Operator:	Polar Chan

Ambient Condition

Corrected Pressure (mm Hg):	757.4	Temperature (deg K):	302.1

Calibration Orifice

Model:	TE-5028A	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or Test #	In,H2O (in)	Qa, X-Axis (m3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	2.01	0.863	31.6	31.32
2	2.31	0.924	33.0	32.71
3	2.64	0.986	34.4	34.11
4	3.00	1.050	35.7	35.43
5	3.33	1.105	36.8	36.47

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 21.3280 b= 12.9857 Corr. Coeff= 0.9992

Sampler set point(SSP) 39 CFM

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg

m = sampler slope
b = sampler intercept
I = chart response
Tav = average temperature
Pav = average pressure

For subsequent calculation of sampler flow:
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Checked by: Date: 6-Aug-20

InnoTech Instrumentation Co. Ltd.
創 新 科 儀 有 限 公 司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	21-Aug-2020
Serial No:	1049	Model:	TE-5170X	Operator:	Polar Chan

Ambient Condition

Corrected Pressure (mm Hg):	756.8	Temperature (deg K):	302.8

Calibration Orifice

Model:	TE-5028A	Slope:	1.66723
Serial No.:	3702	Intercept:	-0.03281
Calibration Due Date:	10-Oct-20	Corr. Coeff:	0.99991

Calibration Data

Plate or Test #	In,H2O (in)	Qa, X-Axis (m3/min)	I, CFM (chart)	IC, Y-Axis (corrected)
1	1.96	0.851	31.9	31.59
2	2.28	0.916	33.2	32.82
3	2.68	0.992	34.9	34.56
4	3.04	1.054	36.3	35.98
5	3.33	1.104	37.2	36.83

Sampler Calibtation Relationship (Qa on x-axis, IC on y-axis)

m= 21.2201 b= 13.4897 Corr. Coeff= 0.9991

Sampler set point(SSP) 40 CFM

Calculations

Qstd = 1/m[Sqrt(H2O(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart response
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pa = actual pressure during calibration (mm Hg)
Tstd = 298 deg K
Pstd = 760 mm Hg

m = sampler slope
b = sampler intercept
I = chart response
Tav = average temperature
Pav = average pressure

For subsequent calculation of sampler flow:
(1.21*m+b)/[Sqrt(298/Tav)(Pav/760)]

Checked by: Date: 21-Aug-20

Appendix I
The Certification of Laboratory with HOKLAS Accredited Analytical Tests

Hong Kong Accreditation Service
香港認可處

Certificate of Accreditation
認可證書

This is to certify that
特此證明

ACUMEN LABORATORY AND TESTING LIMITED
浩科檢測中心有限公司

Lot 12, Tam Kon Shan Road, North Tsing Yi, New Territories, Hong Kong
香港新界青衣北担杆山路12路段

has been accepted by the HKAS Executive, on the recommendation of the Accreditation Advisory Board, as a
在認可諮詢委員會的建議下獲香港認可處執行機關接受為

HOKLAS Accredited Laboratory
「香港實驗所認可計劃」認可實驗所

This laboratory meets the requirements of ISO/IEC 17025:2005 and it has been accredited for performing specific tests or calibrations as listed in the scope of accreditation within the test category of

Environmental Testing

此實驗所符合ISO/IEC 17025:2005所訂的要求
並獲認可進行載於認可範圍內下述測試類別中的指定測試或校正工作

環境測試

This accreditation to ISO/IEC 17025:2005 demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (see joint IAF-ILAC-ISO Communiqué).
此項 ISO/IEC 17025:2005 的認可資格證明此實驗所具備指定範疇內所須的技術能力並實施一套實驗所質量管理體系(見國際認可論壇、國際實驗所認可合作組織及國際標準化組織的聯合公報)。

The common seal of the Hong Kong Accreditation Service is affixed hereto by the authority of the HKAS Executive
現經香港認可處執行機關授權在此蓋上香港認可處的印章

WONG Wang-wah, Executive Administrator
執行幹事 黃宏華
Issue Date : 16 July 2014
簽發日期：二零一四年七月十六日

Registration Number : HOKLAS 241
註冊號碼：

Date of First Registration : 16 July 2014
首次註冊日期：二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS
本證書按照香港認可處訂立的條款及條件發出

L 001195

Appendix J
Location Plan of Air Quality Monitoring Station

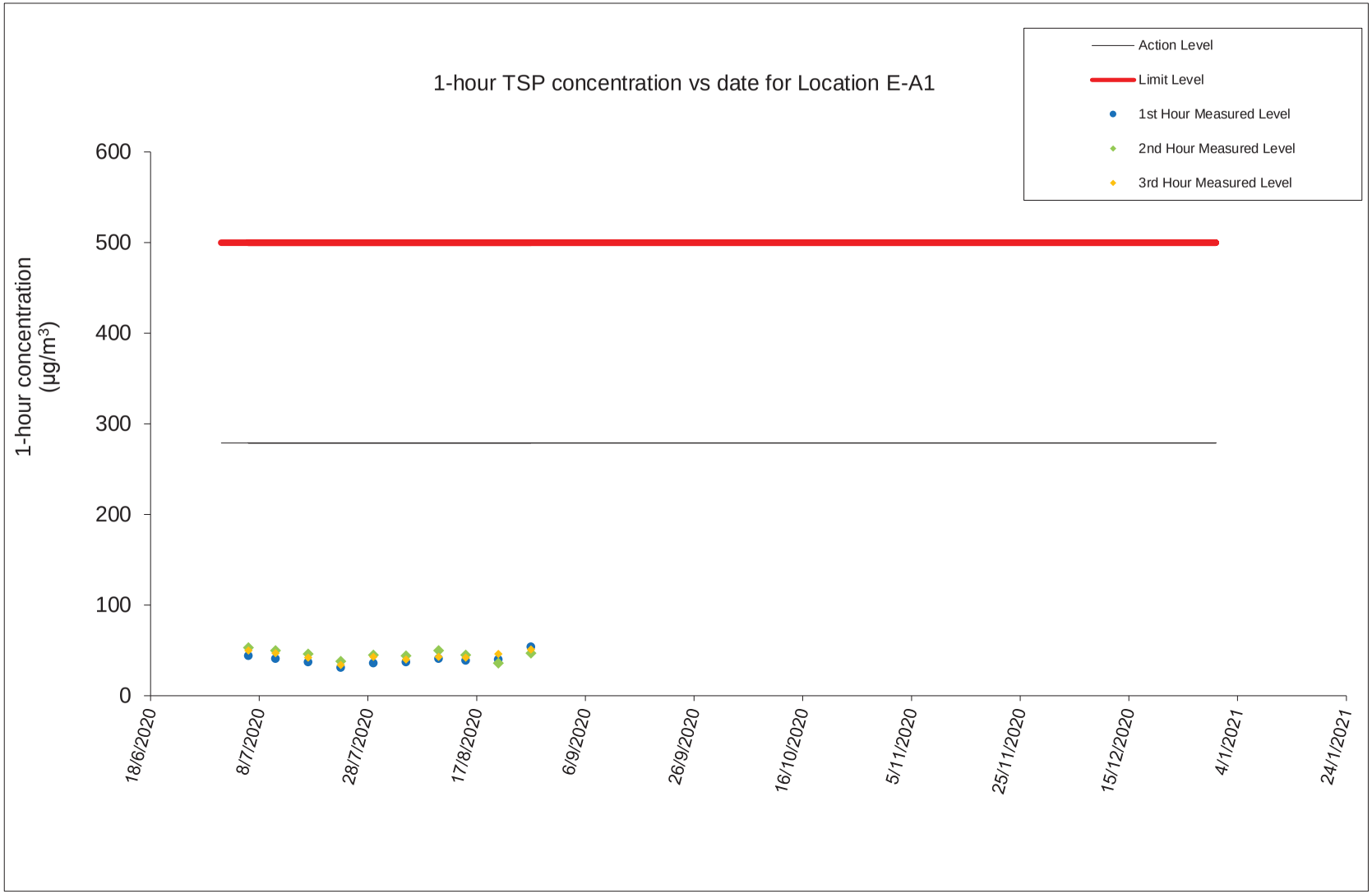

N
E-A1
Date: 19-Aug-2019
Scale 1: 4000(A3)

Appendix K
Monitoring Data (Air Monitoring)

Location: Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date: 4, 10 ,15, 21 and 27 Aug 2020
Parameter: TSP 1-hour
Other Factors: Nearby traffic

Date	1-hour TSP (µg/m^3)				
	Weather	Start Time	1st Hour (µg/m^3)	2nd Hour (µg/m^3)	3rd Hour (µg/m^3)
04/08/2020	Cloudy	9:33	37	44	40
10/08/2020	Sunny	9:40	41	50	43
15/08/2020	Sunny	9:25	39	45	42
21/08/2020	Sunny	9:36	40	36	46
27/08/2020	Fine	11:30	54	47	51

Figure 1: Graphical Illustration of Measured 1-hour TSP (μg/m^3) Levels at E-A1



Location: Hong Kong International Trade and Exhibition Centre (E-A1)

Monitoring date: 4, 10, 15, 21 and 27 Aug 2020

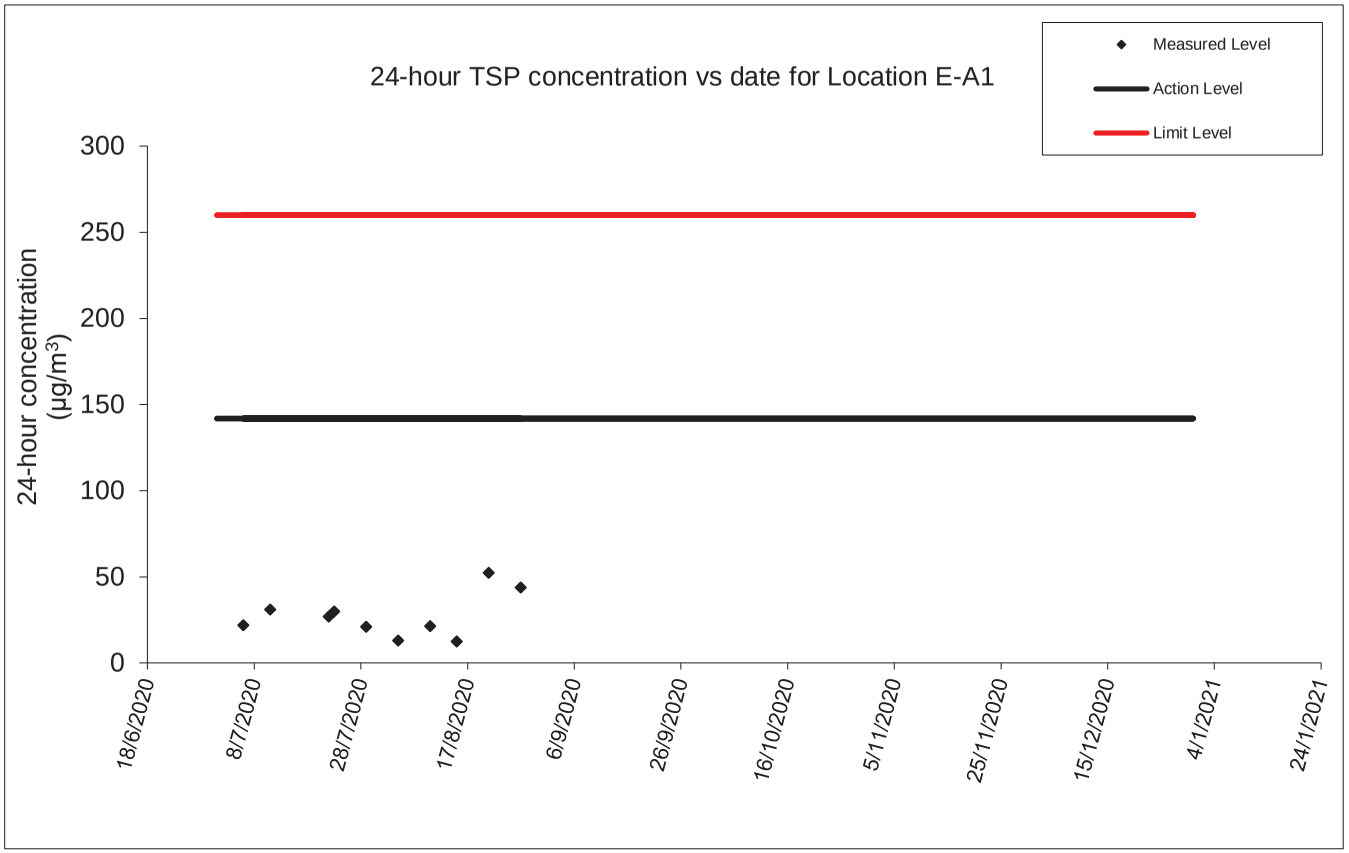
Parameter: TSP 24-hour

Other Factors: Nearby traffic

Date of Calibration:	22-Jul-20	Slope =	18.1758
Calibration due date:	5-Aug-20	Intercept =	16.6376
Date of Calibration:	6-Aug-20	Slope =	21.3280
Calibration due date:	20-Aug-20	Intercept =	12.9857
Date of Calibration:	21-Aug-20	Slope =	21.2201
Calibration due date:	4-Sep-20	Intercept =	13.4897

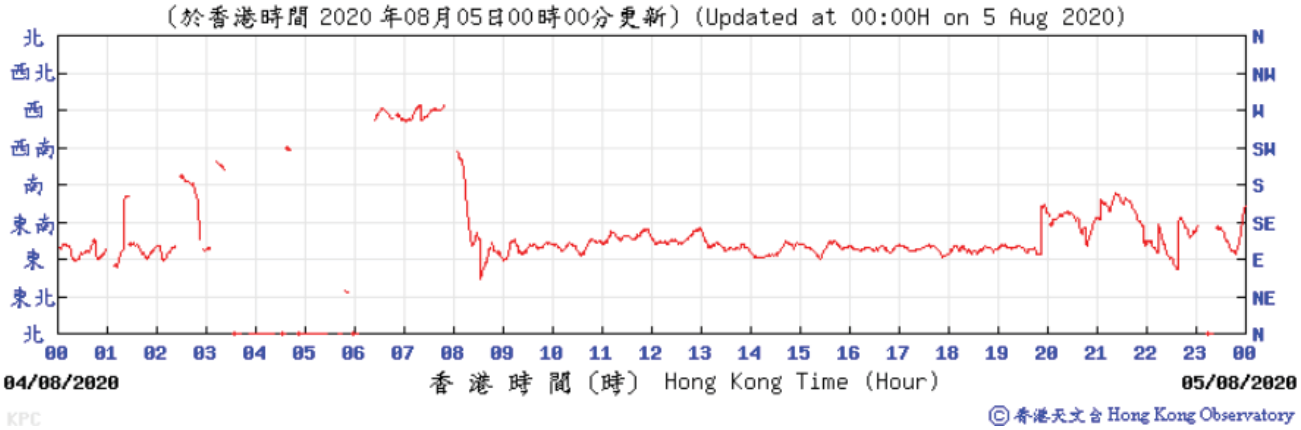
Start Date	Weather Condition	Elapse Time			Chart Reading			Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight (g)		Particulate weight	Conc.
		Initial	Final	Actual (min)	Min	Max	Avg	(^oC)	(mm hPa)	(m^3/min)	(m^3)	Initial	Final	(g)	($\mu g/m^3$)
4/8/2020	Cloudy	2093.94	2117.94	1440.00	40	41	40.5	27.5	1004.0	1.28	1846	2.7338	2.7580	0.0242	13
10/8/2020	Sunny	2117.95	2141.95	1440.00	40	40	40.0	30.0	1004.3	1.23	1776	2.7661	2.8040	0.0379	21
15/8/2020	Sunny	2141.98	2165.98	1440.00	39	40	39.5	29.8	1008.6	1.22	1755	2.7187	2.7405	0.0218	12
21/8/2020	Sunny	2166.03	2190.03	1440.00	40	41	40.5	29.8	1009.0	1.25	1798	2.7644	2.8586	0.0942	52
27/8/2020	Fine	2190.10	2214.10	1440.00	41	41	41.0	28.5	1000.5	1.26	1814	2.7255	2.8049	0.0794	44

Figure 2: Graphical Illustration of Measured 24-hour TSP (μg/m^3) Levels at E-A1

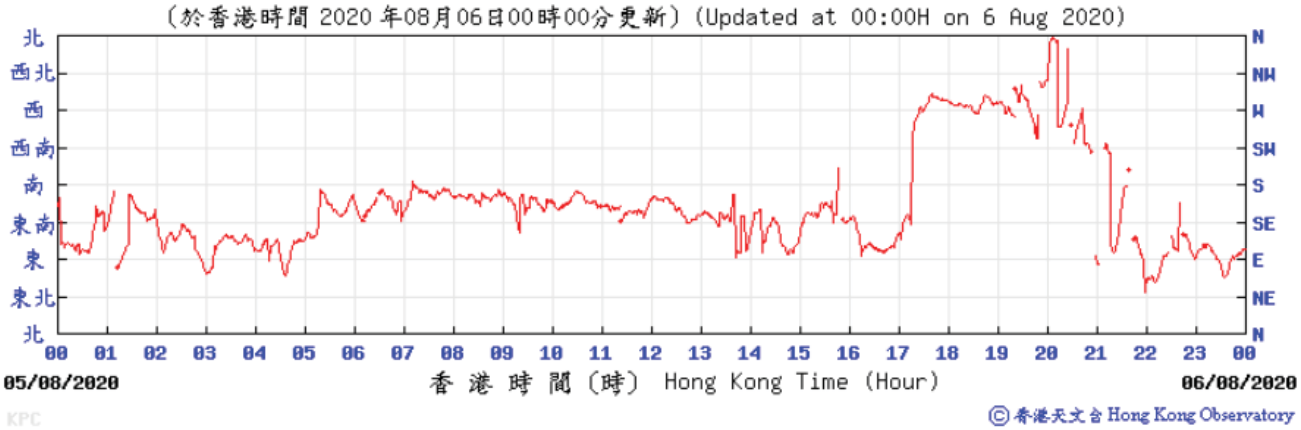


WIND DIRECTION DATA FOR 4, 5, 10, 11, 15, 16, 20, 21, 26 and 28 Aug 2020

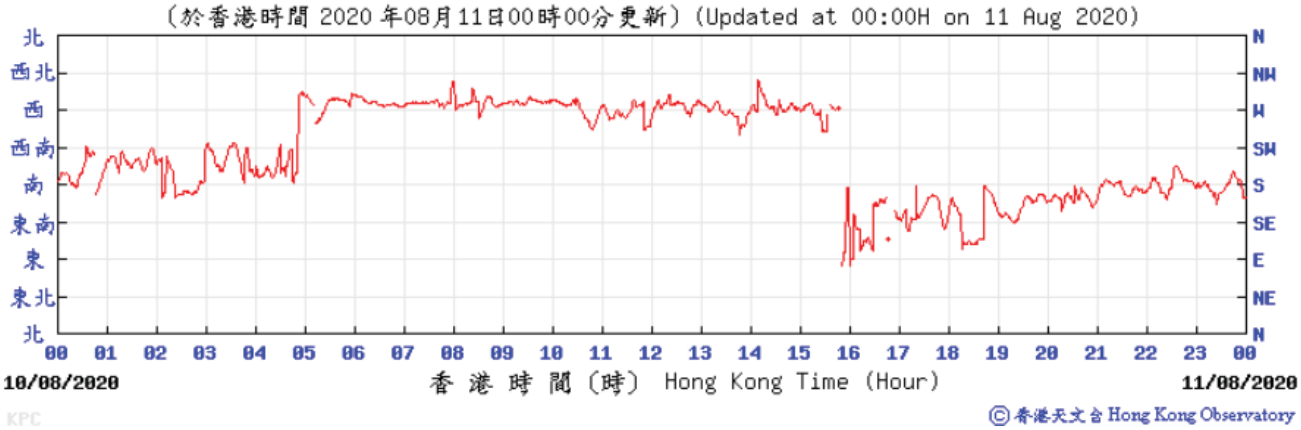
Wind Direction:



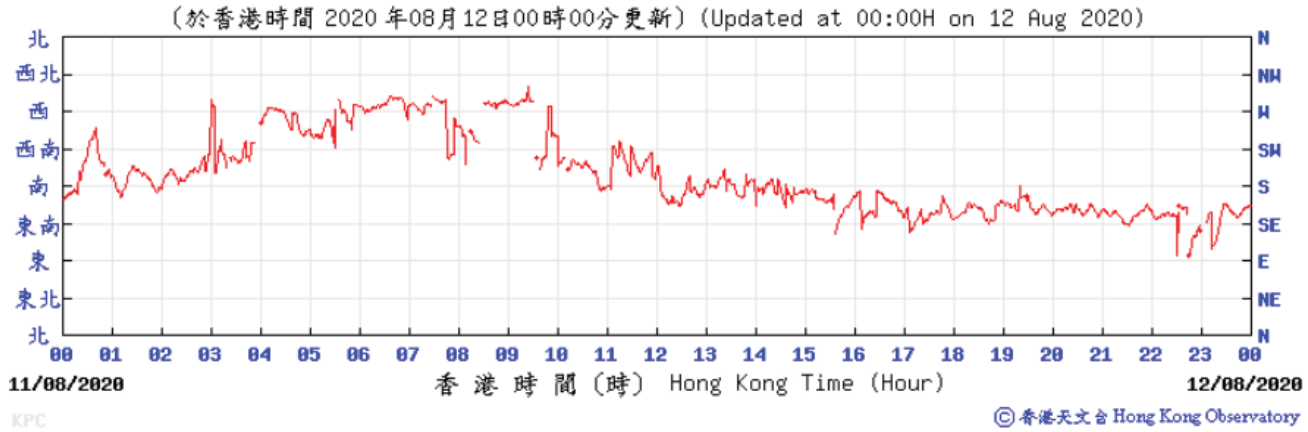
Wind Direction:



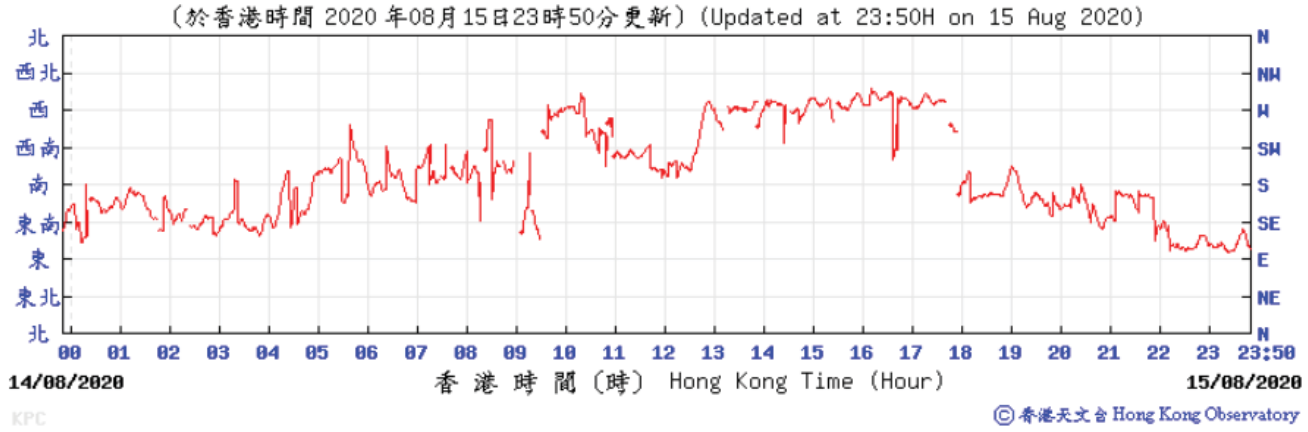
Wind Direction:



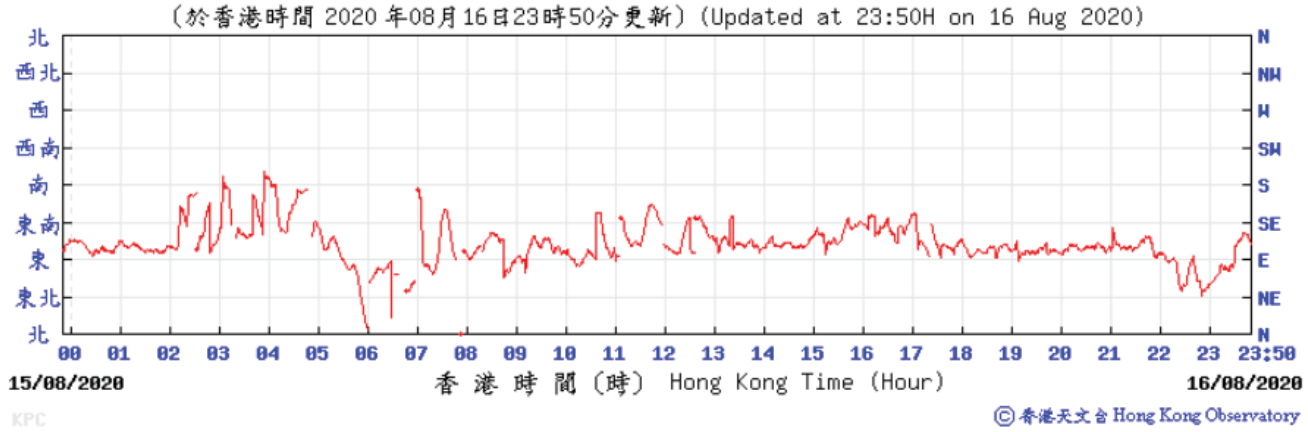
Wind Direction:



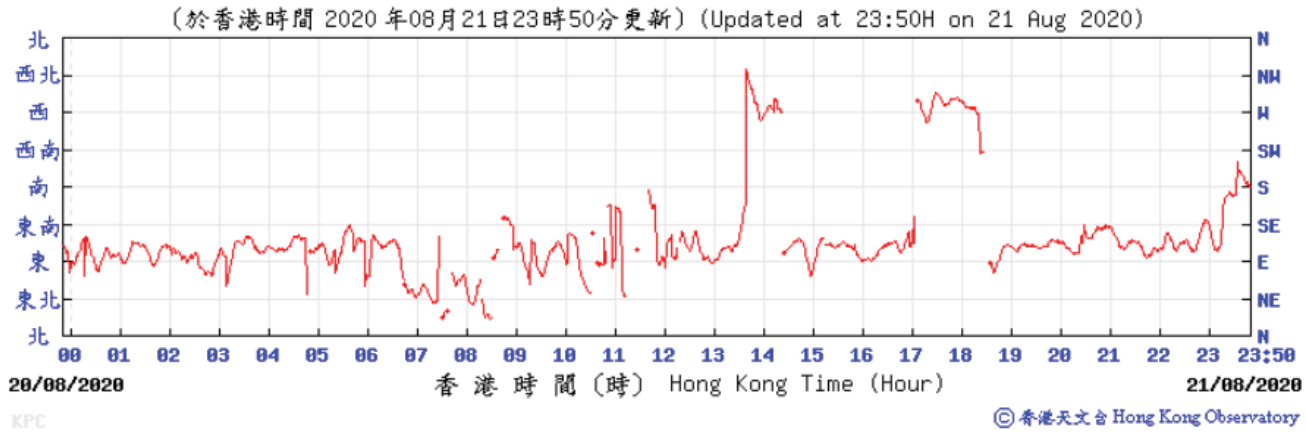
Wind Direction:



Wind Direction:



Wind Direction:



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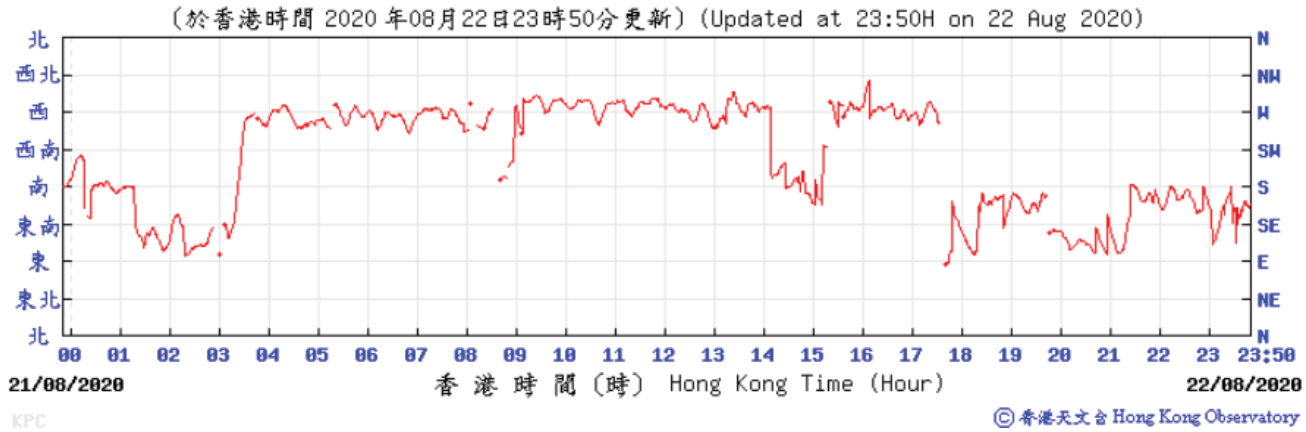
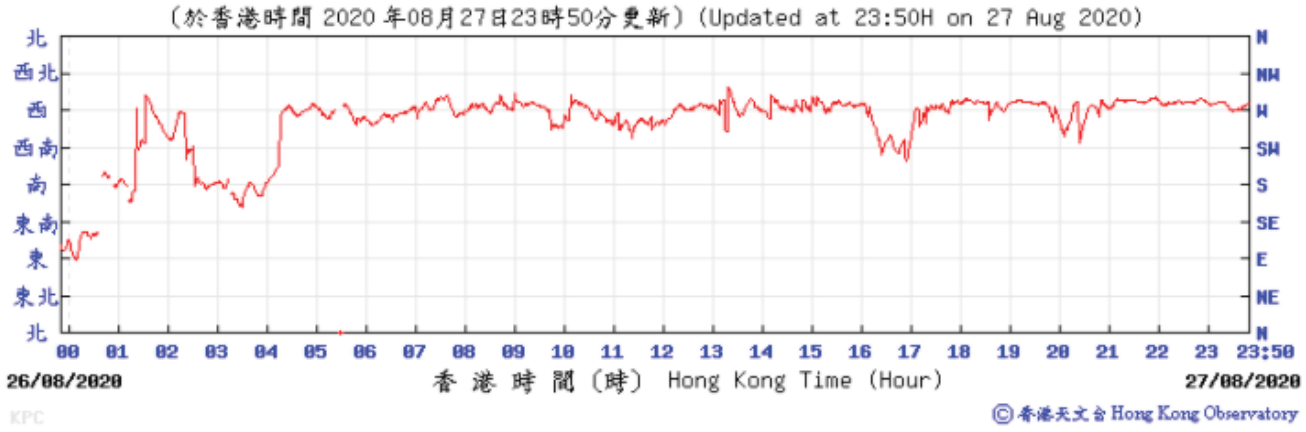
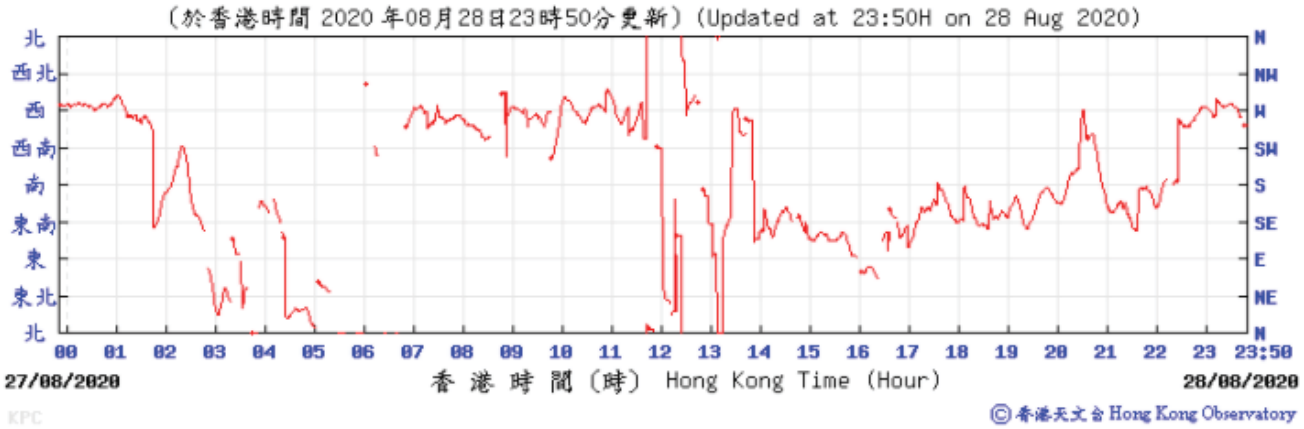


Wind Direction:

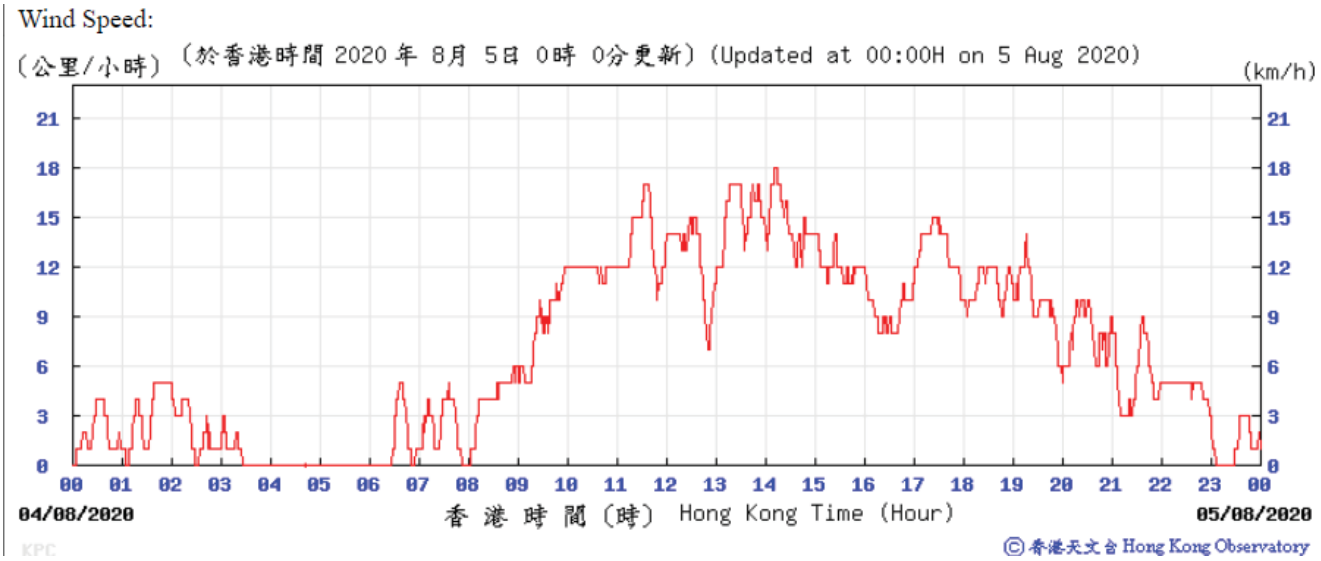


Wind Direction:

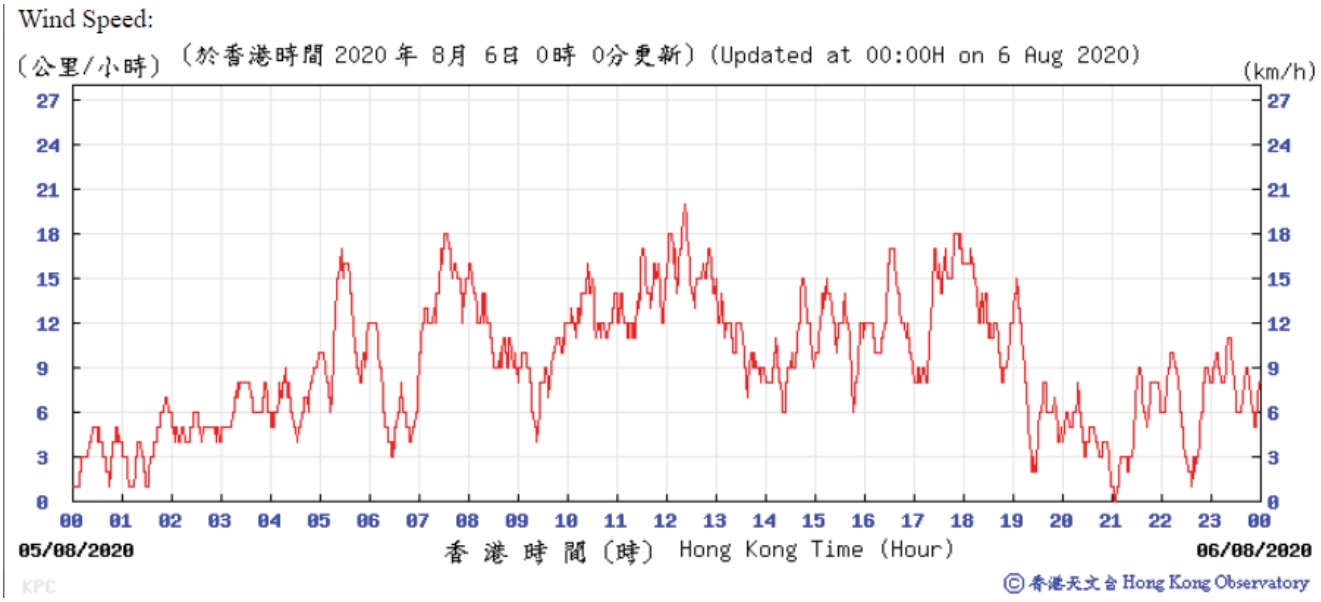


WIND SPEED DATA FOR 4, 5, 10, 11, 15, 16, 20, 21, 26 and 28 Aug 2020

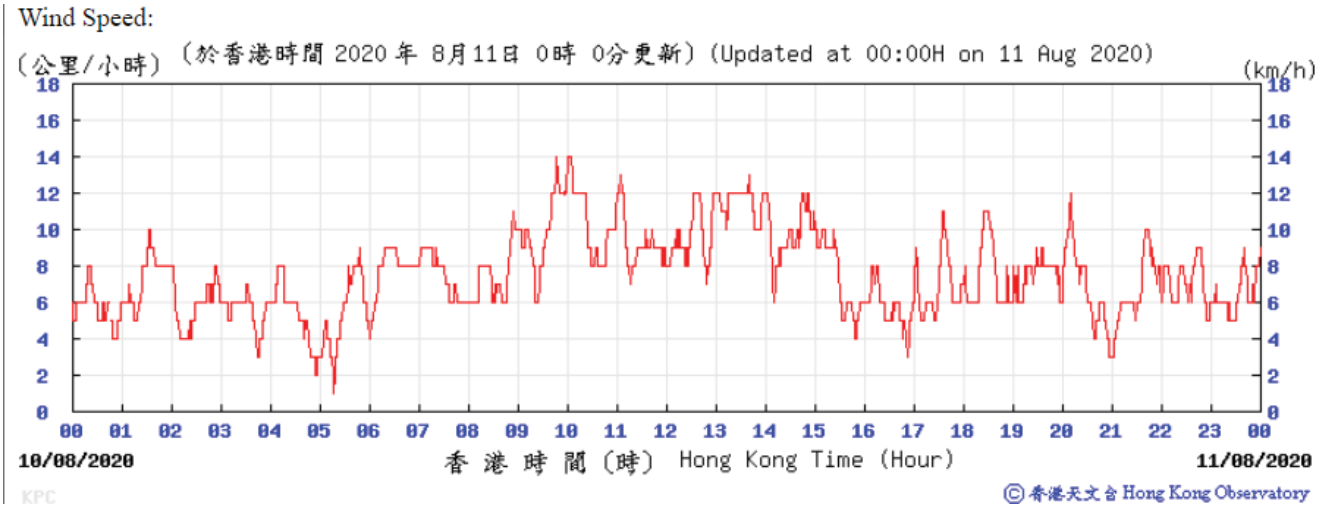
Wind Speed:



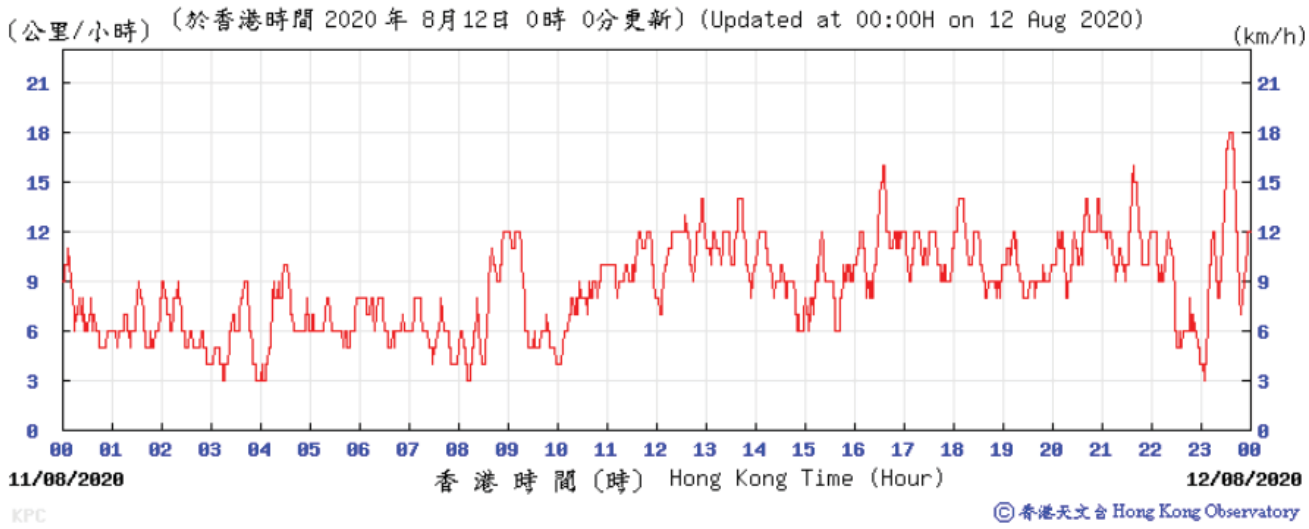
Wind Speed:



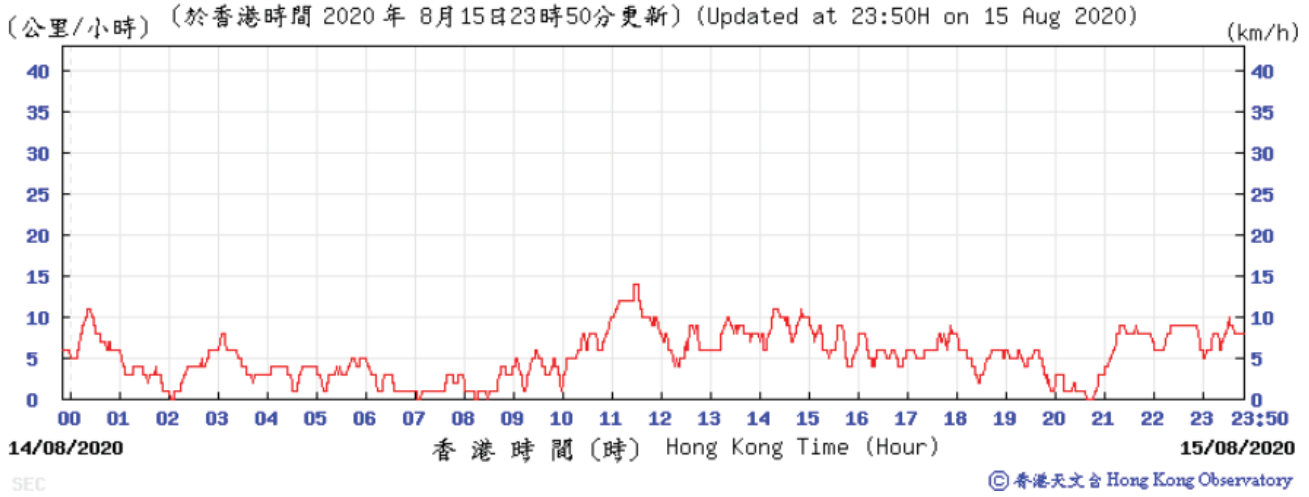
Wind Speed:



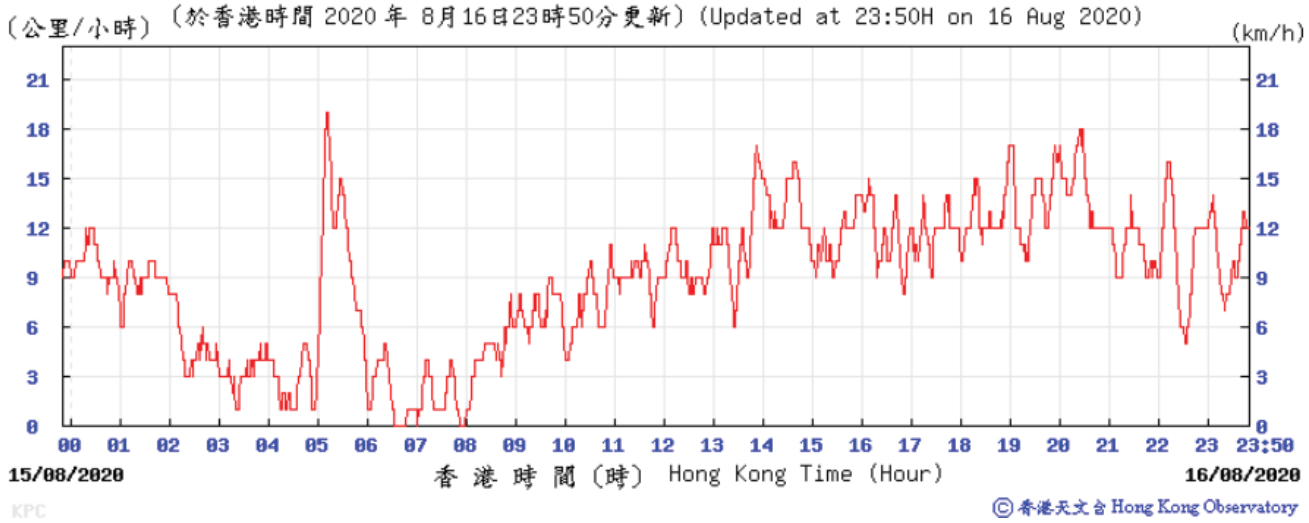
Wind Speed:



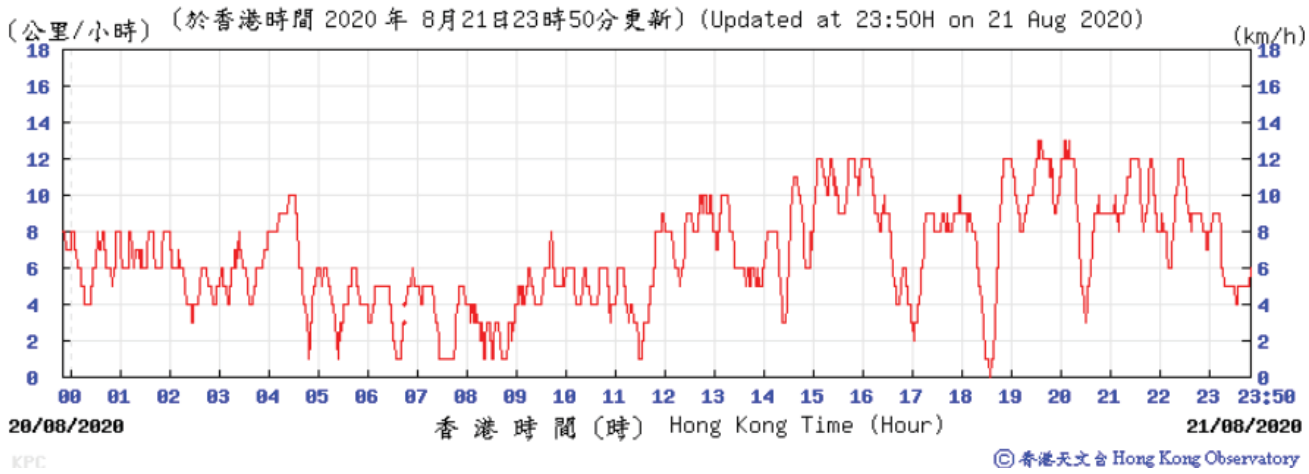
Wind Speed:



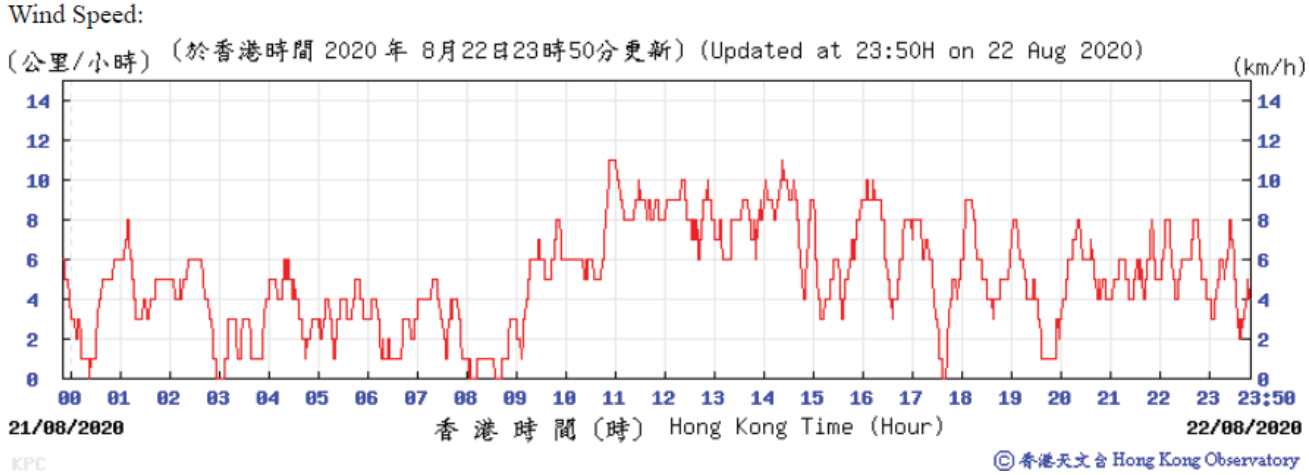
Wind Speed:



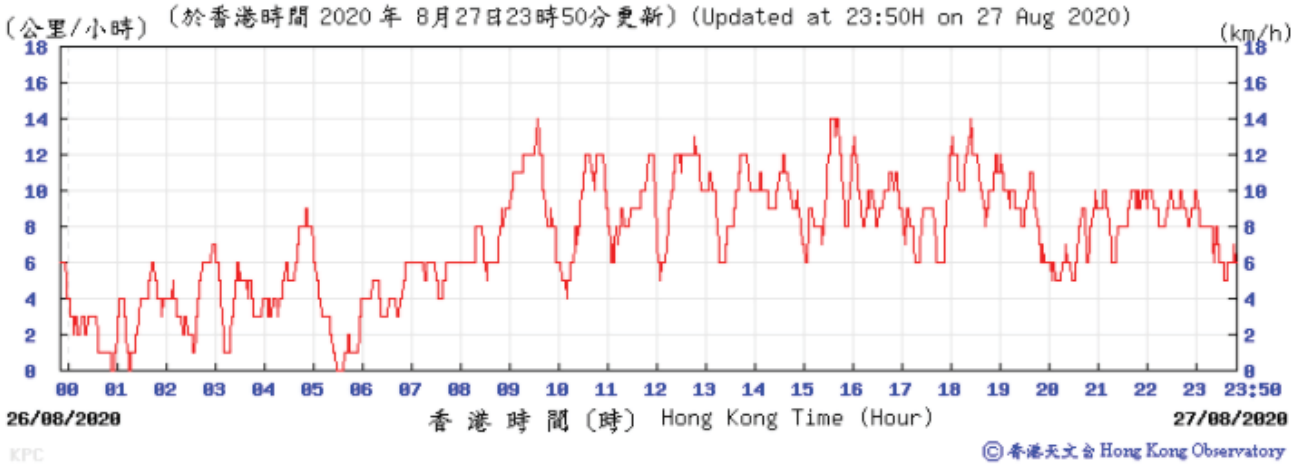
Wind Speed:



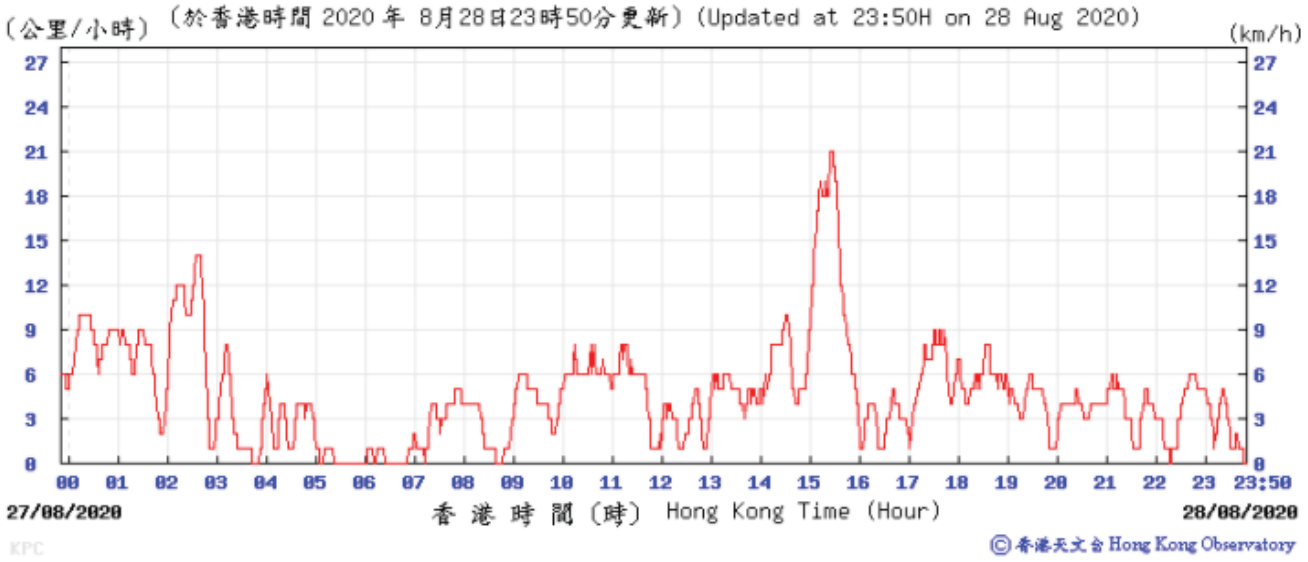
Wind Speed:



Wind Speed:



Wind Speed:


(公里/小時) (於香港時間 2020 年 8月28日23時50分更新) (Updated at 23:50H on 28 Aug 2020) (km/h)
27
24
21
18
15
12
9
6
3
0
00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 23:50
27/08/2020
香 港 時 間 (時) Hong Kong Time (Hour)
28/08/2020
© 香港天文台 Hong Kong Observatory

Appendix L
Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Highways Department **Contract No. / Works Order No.: HY/2018/02**

Monthly Summary Waste Flow Table for Jul 2020

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 1 decimal place.)

Month		Actual Quantities of Inert Construction Waste Generated Monthly				
	(a)=(b)+(c)+(d)+(e)+ (f)+ (g)+ (h)+ (i)+ (j)+ (k) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)
Jan-20	3,242.73	0.00	0.00	0.00	3,208.12	0.00
Feb-20	4,251.78	0.00	0.00	0.00	4,218.94	0.00
Mar-20	5,312.07	0.00	140.00	0.00	5,155.25	0.00
Apr-20	5,249.68	0.00	0.00	0.00	5,234.88	0.00
May-20	4,693.57	0.00	0.00	0.00	4,664.85	0.00
Jun-20	16,196.73	0.00	0.00	8,228.00	7,931.83	0.00
Sub-total	38,946.55	0.00	140.00	8,228.00	30,413.87	0.00
Jul-20	11,703.35	0.00	0.00	2,276.00	9,389.95	0.00
Aug-20	11,355.38	0.00	0.00	0.00	11,316.50	0.00
Sep-20	0.00	0.00	0.00	0.00	0.00	0.00
Oct-20	0.00	0.00	0.00	0.00	0.00	0.00
Nov-20	0.00	0.00	0.00	0.00	0.00	0.00
Dec-20	0.00	0.00	0.00	0.00	0.00	0.00
Total	62,005.28	0.00	140.00	10,504.00	51,169.32	0.00
2019	7,473.53	190.0	140.00	0.00	6,643.48	0.00
Accumulated Total	69,478.81	190.0	280.00	10,504.00	57,812.80	0.00

Month	Actual Quantities of Non-inert Construction Waste Generated Monthly								
	(g) Metals		(h) Paper/ cardboard packaging		(i) Plastics		(j) Chemical Waste		(k) Others, e.g. General Refuse disposed at Landfill
	(in '000kg)		(in '000kg)		(in '000kg)		(in '000kg)		(in 'tonnes)
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated
Jan-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	34.61
Feb-20	11.94	11.94	0.55	0.55	0.00	0.00	0.00	0.00	20.35
Mar-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.82
Apr-20	0.00	0.00	0.15	0.15	0.00	0.00	0.00	0.00	14.65
May-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.72
Jun-20	0.02	0.02	0.26	0.26	0.00	0.00	0.00	0.00	36.62
Sub-total	11.96	11.96	0.95	0.95	0.00	0.00	0.00	0.00	151.77
Jul-20	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	37.35
Aug-20	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	38.78
Sep-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec-20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.96	11.96	1.00	1.10	0.00	0.00	0.00	0.00	227.90
2019	0.00	0.00	0.05	0.05	0.00	0.00	0.00	0.00	500.00
Accumulated Total	11.96	11.96	1.05	1.15	0.00	0.00	0.00	0.00	727.90

Appendix M
Statistics on Complaint, Notifications of Summons and Successful Prosecutions

Statistical Summary of Exceedances

Air Quality			
Location	**Action Level**	**Limit Level**	**Total**
E-A1	0	0	0

Statistical Summary of Environmental Complaints

Reporting Period	**Environmental Complaint Statistics**		
	Frequency	**Cumulative**	**Complaint Nature**
1 Aug 2020- 31 Aug 2020	0	1	N/A

Statistical Summary of Environmental Non-compliance

Reporting Period	**Environmental Non-compliance Statistics**		
	Frequency	**Cumulative**	**Details**
1 Aug 2020- 31 Aug 2020	0	0	N/A

Statistical Summary of Environmental Summons

Reporting Period	**Environmental Summons Statistics**		
	Frequency	**Cumulative**	**Details**
1 Aug 2020- 31 Aug 2020	0	0	N/A

Statistical Summary of Environmental Prosecution

Reporting Period	**Environmental Prosecution Statistics**		
	Frequency	**Cumulative**	**Details**
1 Aug 2020- 31 Aug 2020	0	0	N/A

Appendix N
Monitoring Schedule of the Coming Month

September 2020

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	31	1	2 Impact Dust monitoring (E-A1)	3	4	5
6	7	8 Impact Dust monitoring (E-A1)	9	10	11	12
13	14 Impact Dust monitoring (E-A1)	15	16	17	18	19 Impact Dust monitoring (E-A1)
20	21	22	23	24	25 Impact Dust monitoring (E-A1)	26
27	28	29 Impact Dust monitoring (E-A1)	30	1	2	3