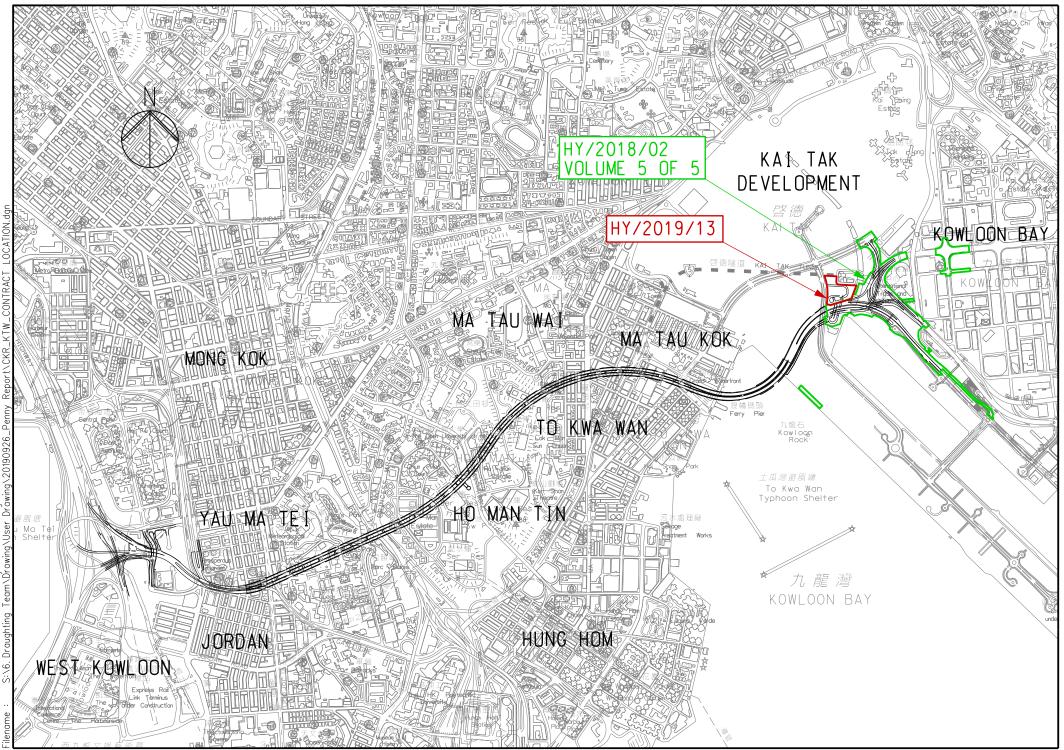
# **Vol. 5 of 5**

# EP-457/2013/D Central Kowloon Route Kai Tak East Contract No. HY/2018/02 & Buildings, Electrical and

Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area) August 2023



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# Central Kowloon Route Kai Tak East Contract No. HY/2018/02





# Environmental Permit No. EP-457/2013/D

# **Central Kowloon Route**

# Independent Environmental Checker Verification

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

#### **Reference Document/Plan**

Document/ <del>Plan</del> to be Certified/ Verified:	Monthly EM&A Report No.48 (August 2023)
Date of Report:	13 September 2023 (Rev. 1)
Date received by IEC:	13 September 2023

#### **Reference EP Condition**

Environmental Permit Condition:

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.

3.4

#### **IEC Verification**

I hereby verify that the above referenced document/<del>plan</del> complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

13 September 2023

Our ref: 0436942\_IEC Verification Cert\_KTE\_Monthly EM&A Rpt No.48.docx





# Alchmex – Paul Y Joint Venture

# Central Kowloon Route Contract HY/2018/02

# Section of Kai Tak East

Monthly EM&A Report No. 48

(Period from 1 to 31 August 2023)

# Rev. 2 (13 September 2023)

		Name	Signature
Prepared by		Kako Ho (Assistant Environmental Consultant)	Ho
Checked Reviewed by	&	Tandy Tse (Senior Environmental Consultant)	hulder
Approved Certified by	&	Kevin W. M. Li (Environmental Team Leader)	Ki

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#### **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 report is the 48<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 August 2023 to 31 August 2023.
- A.2 A summary of major Construction activities provided by the Contractor for the Project during the reporting month is listed below.

#### **Construction Activities undertaken**

- S1, S3, S4, S9, CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 4A/4C
- 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	6 times	
Construction dust (1-hour TSP) monitoring		
E-A1	18 times	

- A.4 Joint weekly site inspections were conducted by representatives of the Environmental team (ET), the Contractor and the Engineer on 2, 9, 16, 23 and 29 August 2023. A joint site inspection with the Independent Environmental Checker (IEC) was undertaken on 9 August 2023. 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 2, 16 and 29 August 2023. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 4.
- 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 the Contractor in next reporting month is listed below:

#### **Construction Activities to be undertaken**

- S1, S2, S3, S4, S9 CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 4A/4C

## **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/D) was issued by EPD on 15 June 2021.
- 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.
- 1.4. The alignment and works area for the Contract No. HY/2018/02 are shown in Appendix A.

1.5. 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 during the Reporting Month

#### **Construction Activities undertaken**

- S1, S3, S4, S9, CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 4A/4C
- 1.6. The project organisational chart specifying management structure and contact details are shown in **Appendix C**.
- 1.7. 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 Environmental Licence, Notification, Permit and Documentations

Permit/ Licences/	Permit/ Licences/ Valid Period			
Notification /Reference No.	From	То	Status	Remark
<b>Environmental Permit</b>			•	
EP-457/2013/D	15-Jun-21		Valid	-
Wastewater Discharge Lic				
	17-Dec-19	31-Dec-24	Valid	-
Notification of Construction Regulation	on Works under	the Air Polluti	on Control (Constr	ruction Dust)
445001	Apr-19	Dec-23	Notified	-
Chemical Waste Producer	· Registration			
WPN5113-247-A2940-01	17-May-19		Valid	-
<b>Billing Account for Dispos</b>	sal of Construction	on Waste		
7034073	15-Jun-19		Valid	-
<b>Construction Noise Permi</b>	<u>t</u>			
GW-RE0663-23	19-Jun-23	31-Aug-23	Expired during reporting period	Kai Cheung U Turns
GW-RE0122-23	13-Mar-23	10-Sep-23	Valid	Portion 2B
GW-RE0631-23	9-Jun-23	31-Aug-23	Expired during reporting period	Night Work at Kai Fuk & Kai Cheung Road
GW-RE0217-23	17-Mar-23	31-Aug-23	Expired during reporting period	General Work at Area A
GW-RE0272-23	17-Mar-23	31-Aug-23	Expired during reporting period	General Work at Area B and Site Office
GW-RE0667-23	20-Jun-23	31-Aug-23	Expired during reporting period	Kai Cheung near Kai Shing Street

Permit/ Licences/	Valid I	Period	Status	Remark
Notification /Reference No.	From	То		
GW-RE0752-23	4-Jul-23	31-Aug-23	Expired during reporting period	Night Work Kai
GW-RE0761-23	4-Jul-23	31-Aug-23	Expired during reporting period	Fuk Rd & Kai
GW-RE0876-23	1-Aug-23	31-Aug-23	Expired during reporting period	Cheung Rd

## 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/D) as of the reporting period for the Project are summarised in **Table 2.1**.

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

EP Condition (EP-457/2013/D)	Submission	Submission date
Condition 3.4	Monthly EM&A Report (July 2023)	11 August 2023

2.2. The drawing showing 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 2.2	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. AIR QUALITY MONITORING RESULTS

#### Monitoring Parameters

- 3.1. 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.
- 3.2. 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.
- 3.3. 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.

#### Monitoring Equipment

- 3.4. 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).
- 3.5. 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**.
- 3.6. 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**.
- 3.7. The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in **Table 3.1**.

Monitoring Parameter	Monitoring Equipment	Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	882110	16 October 2022
	TE-5170X High Volume Sampler	1049	31 July 2023
24-hour TSP	TE-5170A High Volume Sampler		17 August 2023
	TE-5028A Calibration Kit	3702	31 March 2023

Table 3.1Construction Dust Monitoring Equipment

#### Monitoring Methodology and QA/QC results

- 3.8. 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.
- 3.9. 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.
- 3.10. 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.

#### 3.11. 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°C and not varied by more than ±3°C; 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.

#### 3.12. 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 1.13-1.19 m3min-1, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m3min-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) for analysis.

3.13. 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-5025A Calibration Kit and TE-5028A Calibration KIT. HVS is calibrated in fortnightly Intervals. The calibration records for the HVS is given in **Appendix H**.
- 3.14. 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.

#### Monitoring Locations

3.15. During the site visit, air quality monitoring station Hong Kong International Trade and Exhibition Centre had been recommended in the approved EM&A Manual. A designated air quality 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**.

<b>Monitoring Station</b>	Monitoring Location
E-A1	Hong Kong International Trade and Exhibition Centre

Table 3.2Location of the Air Quality Monitoring Station

#### Monitoring Date, Time, Frequency and Duration

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

Table 3.3Summary of Impact Monitoring Programme

Impact Monitoring	Duration	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

Result Summary

3.17. 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 3.4Observation at Air Quality Monitoring Station

Monitoring Station	Major Dust Source
E-A1	Nearby traffic

- 3.18. Air quality impact monitoring for the reporting month was carried out on 1, 7, 12, 18, 24 and 30 August 2023 at E-A1.
- 3.19. 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 3.5Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range	Action	Limit
	(µg/m³)	Level(μg/m³)	Level(µg/m³)
E-A1	57 - 69	279	500

Table 3.6	Summary of 24-hour TSP Monitoring Results
-----------	---

Monitoring Location	Range	Action Level	Limit Level
	(µg/m³)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
E-A1	23 - 72	142	260

## 4. WASTE MANAGEMENT

4.1. 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 4.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix L**.

			Quanti	ty		
			]	Non-inert C&	D Materials	
Reporting period	Inert C&D Materials	Chemical Waste	Others, e.g. General Refuse	Re	cycled materi	als
	(in '000tonnes)	(in 'kg)	disposed at Landfill (in 'kg)	Paper/ cardboard (in 'kg)	Plastics (in '000 kg)	Metals (in '000 kg)
Aug 2023	0.43	0.00	109960.00	0.00	0.00	0.00

Table 4.1Quantities of Waste Generated from the Project

## 5. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND

# PROSECUTIONS

#### 5.1. The Environmental Complaint Handling Procedure is shown in below Table 5.1.

Table 5.1 Envir	onmental Complaint Ha	ndling Procedure	
Complaint Received via	Project Hotline	Complaint Received vi	a 1823 or from other
		government departments	
Contractor notify ER, E	T and IEC	ER notify Contractor, ET	and IEC
Contractor log complai	nt and date of receipt on	to the complaint database.	Contractor, ER and ET
	to conduct investi	gation of complaint	
If complaint is considered	ed not valid	If complaint is found val	id
ET or ER to reply the co	omplainant if necessary	Contractor to identify a	nd implement remedial
		measures in consultation	n with the IEC, ET and
		ER.	
		The ER, ET and IEC to a	review the effectiveness
		of the Contractor's rem	edial measures and the
		updated situation; ET t	o undertake additional
		monitoring and audit to	verify the situation if
		necessary and oversee that	at circumstances leading
		to the complaint do no	t recur. ER to conduct
		further inspection as nec	essary.
If the complaint is refe	erred by the EPD, the Co	ntractor to prepare interim	report on the status of
the complaint investig	ation and follow-up acti	ons stipulated above, inclu	ding the details of the
remedial measures and	additional monitoring id	lentified or already taken,	for submission to EPD

# - - -

he complaint investigation and follow-up actions stipulated above, including the details of the emedial 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

- 5.2. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix D** and **Appendix E** shall be carried out.
- 5.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded in the reporting month.
- 5.4. No complaint and non-compliance were received in the reporting month.
- 5.5. No notification of summons and successful prosecution was received in the reporting month.
- 5.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix M**.

# 6. EM&A SITE INSPECTION

- 6.1. 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, 5 site inspections were carried out by the representative of ET, Contractor and Engineer on 2, 9, 16, 23 and 29 August 2023, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 2, 16 and 29 August 2023.
- 6.2. One joint site inspection with IEC was also undertaken on 9 August 2023. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.1**.

Date	<b>Environmental Observations</b>	Follow-up Status
2 August 2023	NA	NA
9 August 2023	NA	NA
16 August 2023	NA	NA
23 August 2023	NA	NA
29 August 2023	<ol> <li>Drip tray should be provided for chemical containers at 2B.</li> </ol>	<ol> <li>Drip tray had been provided.</li> </ol>

Table 6.1Site Observations

- 6.3. The Contractor had rectified all observation identified during environmental site inspection in the reporting period.
- 6.4. 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**.

# 7. FUTURE KEY ISSUES

7.1. The construction activities to be undertaken in the next reporting month are:

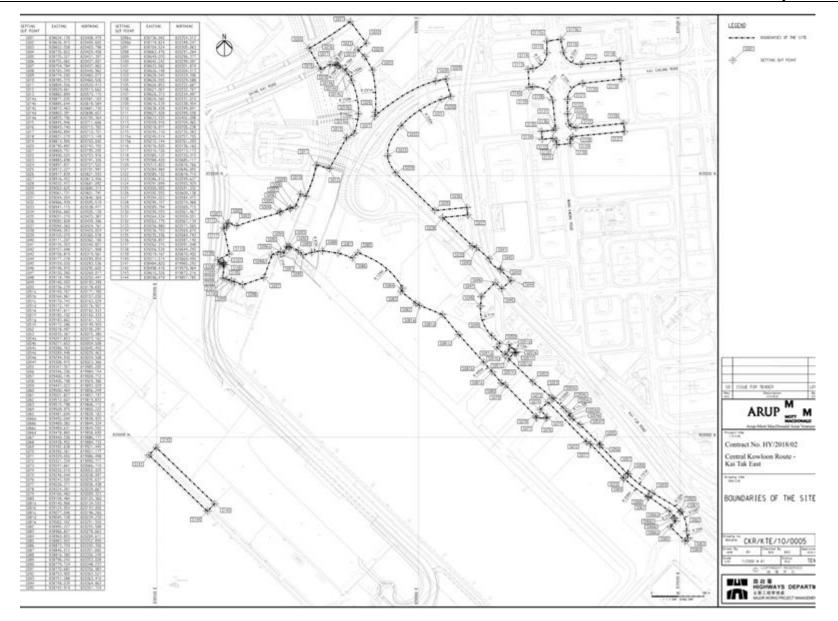
#### **Construction Activities to be undertaken**

- S1, S2, S3, S4, S9 CKRE, CKRW Bridge Construction
- Retaining Wall Construction at U-Turn & Portion 2B
- Excavation Work at Portion 4A/4C
- 7.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 7.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in **Appendix N**.
- 7.4. The construction programme for the Project for the next reporting month is presented in **Appendix B**.

# 8. Conclusion and Recommendations

- 8.1. This 48<sup>th</sup> monthly EM&A Report presents the EM&A works undertaken during the period from 1 August 2023 to 31 August 2023 in accordance with the EM&A Manual and the requirement under EP-457/2013/C and EP-457/2013/D.
- 8.2. 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.
- 8.3. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. One joint site inspection with IEC was carried out on 9 August 2023. Minor deficiency was observed during site inspection and was rectified within the specified deadlines. The environmental performance of the Project was therefore considered satisfactory.
- 8.4. No complaint and non-compliance situation were received in the reporting month.
- 8.5. No notification of summons or prosecution was received since commencement of the Contract.
- 8.6. 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



Acuity Sustainability Consulting Limited

# Appendix B Construction Programme

Date: 25-Jun-23 Date: 03-Jul-23	3 11:12						Cont e Kow	loon	Ro	ute			Eas	t										Alcl		Paul Y	/ Joint \	/enture	
2	Activity Name		Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day)		8 04	Jun 50	18			July 51	40 0 0			August 52	1 40		an 1	Septembe 53				Colober 54	
ntral Kowl	loon Route - Kai Tak East (Mor	nth 50 Update) (Re	545	25-Apr-22 A	01-Mar-24	10-Feb-23	25-Jun-26	692	660.00	- 2	8 04	11	18	25	02	(19	16 2	23	30 06	13	20	27	03	10	17 2	24 01	08	15	22
	RIES AND GENERAL REQUIR		150	27-Mar-23 A	26-Sep-23	27-Apr-23	16-Od-25	603	0.00																				
alient Key D	Dates and Milestones																												
Key Dates			0	14-Apr-23 A	14-Apr-23 A	16-Od-25	16-Od-25		0.00																				
Sections of th	he Works		0	14-Apr-23 A	14-Apr-23 A	16-Od-25	16-Od-25		0.00																				
KD-11	KD11 - Section 11: Completion of the Strud	ture of Bridge CKRE and Opening	0		14-Apr-23 A		16-Oct-25						1																
Access Dates	of Bridge as Haul Road (973days)		92	27-Mar-23 A	21-Jul-23	27-Apr-23	18-Aug-23	24	0.00																				
AD-4B3	Access date for Part 483 (1435 days)		0	27-Mar-23 A		22-Jul-23																							
AD-461	Access date for Part 4B1 (1435 days) _ majo	or	0	27-Mar-23 A		18-Aug-23																							
AD-4B1a	Access date for Part 4B1 (1435 days)_ Late		0	30-Jun-23*		27-Apr-23		-52																					
AD-183	Access date for Part 183 (1551 days)			21-Jul-23*		21-Jul-23		0									·											÷	
	t Safety Audit Scheme ACC D31	(5)	.0	29-Jul-23.A	29-Jul-23.A	17-Apr-25	17-Apr-25		0.00																				
afety Aduit	Conceptation Schemeracc DSI		0	29-Jul-23 A	29-Jul-23 A	17-Apr-25	17-Apr-25		0.00																				
SA-1118	9th Safety Audit at 6 months intervals			29-Jul-23 A	J. A. LON	17-Apr-25			0.00																				
			150	20-3416-22 A	26-Sep-23	16-May-24	17-00-24	260	0.00																				
tilities Month	edule (WSD/DSD/CLP/TG/PCC)	W/HKB/ATC/KTTUN	150	29-Mar-23 A		16-May-24	17-Aug-24	260	0.00				ļ																
					20-540-25		17-909-24	200	0.00																				
UU-1052	15th Utilities monthly meeting			29-Mar-23 A		16-May-24																							
UU-1054	16th Utilities monthly meeting			09-Jun-23 A		16-May-24																							
UU-1056	17th Utilities monthly meeting			03-Aug-23		24-Jun-24		260											•										
UU-1058	18th Utilities monthly meeting			26-Sep-23		17-Aug-24		260																	•				
	DENGINEERING					27-Apr-23																							
	Works Design & Engineering		242	15-Dec-22 A		02-Aug-23		31																					
DES - Kiosks				15-Dec-22 A		02-Aug-23	21-Nov-23	31	0.00																				
DES-1228	DES - Prepare preliminary proposal submiss		48	15-Dæ-22 A	26-Jun-23	02-Aug-23	02-Aug-23	31		1			1	H															
DES-1230	DES - Prepare submission of design and dra	wings	12	27-Jun-23	11-Jul-23	03-Aug-23	16-Aug-23	31								-													
DES-1232	DES - ICE checking and approval		12	12-Jul-23	25-Jul-23	17-Aug-23	30-Aug-23	31								-													
DES-1234	DES - Project Manager checking and approv	al	24	26-Jul-23	22-Aug-23	31-Aug-23	27-Sep-23	31													-								
DES-1236	DES - Prepare submission of details design		12	23-Aug-23	05-Sep-23	28-Sep-23	13-Oct-23	31		1													-						
DES-1238	DES - ICE checking and approval		8	06-Sep-23	14-Sep-23	14-0±-23	24-0:t-23	31		1													-	-					
DES-1240	DES - Project Manager checking and approv	al; consent to start the works	24	15-Sep-23	14-Od-23	25-Od-23	21-Nov-23	31		1														÷				-	
emporary V	Works Design & Engineering		95	28-Mar-23 A	26-Jul-23	27-Apr-23	01-Aug-23	6	0.00				1																
DES - Tempor	rary Works for Bridges		95	28-Mar-23 A	26-Jul-23	27-Apr-23	01-Aug-23	6	0.00																				
DES_T05 - Te	emp working platform for Bridge S7 o	ver Kai Cheung Slip Roa	40	25-Apr-23 A	25-Jun-23 A	04-Jul-23	04-Jul-23		0.00																				
DES-1326	DES - ICE checking and approval		24	25-Apr-23 A	13-May-23 A	04-Jul-23	04-Jul-23																						
DES-1328	DES - Project Manager checking and approv works	al; consent to start the Portal	24	15-May-23 A	25-Jun-23 A	04-Jul-23	04-Jul-23					-																	
Current Mi Adual Wor Citical Ren Remaining	Restone ok maining Work	Central Ko	owloo			Tak Eas ith Rolli				te) (I	Rev41	- cs	D)	E		TE - 3 Mo	nths Rolli		ramme _1, KTE - S	ubmission			Date 5-Deo22 0.4an-23 5-Feb-23 5-Mar-23 5-Mar-23 5-Mar-23 5-Mar-23	Submit Submit Submit	CSD Progra CSD Progra CSD Progra CSD Progra CSD Progra	mme Rev 3 mme Rev 3 mme Rev 3 mme Rev 3	Booth M44 Mic Tooth M45 Mic Booth M46 Mic Booth M47 Mic Booth M48/49	n TYY n TYY n TYY n TYY	bed D D D D D D

D	Activity Name	Orig Dur Statt	Finish	Late Start	Late Finish	Total Fical	TRA (Day	June 50		July 51	August 52		ipterroer 53	0	clober 54
DES T06 - Tem	np working platform for Bridge S2 & S8 over KF Rd & KC Rd	95 28-Mar-23 A	26-Jul-23	23-May-23	01-Aug-23	6	0.00	28 04 11 18	25 02	09 16 23	30 06 13 20 2	03 1	0 17 24	01 08	15 22
DES-1334	DES - Project Manager checking and approval; consent to start the Portal	24 28-Mar-23 A	16-Jun-23 A		23-May-23										
DES-1335a	works (S2) DES - Prepare preliminary proposal submission (S8)	24 30-May-23 A		04-Jul-23	04-Jul-23	6			-						
DES-1335b	DES - ICE checking and approval (58)	24 27-Jun-23	25-Jul-23	05-Jul-23	01-Aug-23	6									
DES-13350			25-30-23		01-Aug-23	0									
	DES - Project Manager checking and approval; consent to start the Portal works (S8)	0 26-Jul-23		01-Aug-23		0									
	Design for Bridge S8 - 8A-S8 to 8D-S8	24 29-Mar-23 A		27-Apr-23	27-Apr-23		0.00								
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24 29-Mar-23 A	25-Apr-23 A	27-Apr-23	27-Apr-23										
ONSTRUCTI	ON														
1ajor Tempor	rary Traffic Management Scheme														
TTM Scheme for	r Kai Cheung Road	107 29-Apr-23 A	29-Sep-23	03-Jul-23	04-Od-23	2	0.00								
KCR-TTA-2	TTA - Kai Cheung Road - Stage 2	0 29-Apr-23 A		15-Sep-23											
KCR-TTA-U-2	TTA - Kai Cheung Road - Stage U-2 (Night works) (Span 8A to 8B)	0 29-Aug-23		02-Aug-23		-23					•				
KCR-TTA-U-3	TTA - Kai Cheung Road - Stage U-3 (Night works) (Span 8B to 8C)	0 26-Sep-23		04-Od-23		5							•		
KCR-TTA-2.1	TTA - Kai Cheung Road - Stage 2.1	0 29-Sep-23		03-Jul-23		-76							•	,	
TTM Scheme for	r Kai Fuk Road	167 25-Mar-23 A	18-Oct-23	04-Mar-23	29-May-24	176	0.00								
KFR-TTA-2C	TTA - Kai Fuk Road - Stage 2C, (Span 2A to 2B)	0 25-Mar-23 A		22-Apr-23											
KFR-TTA-3B	TTA - Kai Fuk Road - Stage 3B (for additional Temporary Relocation of Bus	0 29-Mar-23 A		04-Mar-23											
KFR-TTA-4.0	Stop) TTA - Kai Fuk Road - Stage 1.0 (KFR westbound to connect KCR Stage 2)	0 29-Apr-23 A		22-Apr-23											
KFR-TTA-2D	TTA - Kai Fuk Road - Stage 2D, (Night Work) (Span 2B to 2C)	0 10-May-23 A		22-Apr-23											
KR-TTA-2E	TTA - Kai Fuk Road - Stage 2E, (Night Work) (Span 2D to 2E)-commencemnt	0 26-Jun-23 A		19-May-23					<b>*</b>						
KFR-TTA-4.1A	TTA - Kai Fuk Road - Stage 4.1A (KFR Eastbound - with on-street bus stop)	0 19-Jul-23		04-Mar-23		-137				•					
KFR-TTA-4.1B	TTA - Kai Fuk Road - Stage 4.18 (KFR Eastbound - 4 nos of tree to be fell; subject to TPRT proposal )	0 18-Oct-23		29-May-24		176									•
iection 1 - All	the Works of the Site, except Section 2 to 17														
Sch_1 Prelimina	aries Works	36 30-Mar-23 A	24-May-23 A	27-Apr-23	27-Apr-23		0.00								
Site Establishm	nent Works	36 30-Mar-23 A	24-May-23 A	27-Apr-23	27-Apr-23		0.00								
Temporary Wo	orks for Early Commencement of 8A Pilling Works	0 24-May-23 A	24-May-23 A	27-Apr-23	27-Apr-23		0.0								
Temp Pilling P	Natform for 8A Pilling Works	0 24-May-23 A	24-May-23 A	27-Apr-23	27-Apr-23		0.00								
1-1624	8A - Pilling platform - exc to 7.5mPD for 8A pile ap	0 24-May-23 A		27-Apr-23											
Temporary Wo	orks for Early Commencement of 8B Pilling Works	18 30-Mar-23 A	24-May-23 A	27-Apr-23	27-Apr-23		0.0								
1-1660	after 8B - completion of piling 8B and demobilization	0 30-Mar-23 A		27-Apr-23											
1-1662	after 8B - (re)excavation and ELS installation for 8A pile cap, pier and RW-CKRC			27-Apr-23											
		54 26-Jun-23	28-Aug-23	23-Dec-23	09-Jul-24	251	8.00								
Sch_3.1 Bridge					09-Jul-24										
S1 - Miscellane		54 26-Jun-23	28-Aug-23	23-Dec-23		251	8.00								
3.1-2382	BEM - S1 - Install Profile barrier / Parapet Wall / Planter / TCSS duct (L)	33 26-Jun-23	03-Aug-23	23-Dec-23	02-Feb-24	151	5.00								
3.1-2383	S1 - End wall construction (Abutment)	24 26-Jun-23	24-Jul-23	30-May-24	27-Jun-24	272									
3.1-2392	S1 - Movement Joint	12 04-Aug-23	17-Aug-23	14-Jun-24	27-3un-24	251	2.00								
3.1-2394	S1 - Road pavement (Base Course)	9 18-Aug-23	28-Aug-23	28-Jun-24	09-Jul-24	251	1.00								
Sch_3.2 Bridge	S2 Works	179 27-Mar-23 A	01-Nov-23	17-Apr-23	25-Jun-26	787	81.00								
									•			Dete			1 Owned 2 1
Current Miest								) (D		D: KTE-WP41_M50		Date 15-Deo22	Submit CSD Programm	vision re Rev 36wth MM4 Mon	Checked App TYY DC
	Central K	owloon Rout	te - Kai '	Tak Eas	st (Mont	n 50	Upda	e) (Rev41- CSD)	Baseline				Submit CSD Programm	e Rev 37with M45 Mon	L. TYY DC
Critical Remai	ning Work							, (			Programme	25-Feb-23	Submit CSD Programm	e Rev 38with M46 Mon	
	ining Work				ing Prog			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Layout:	TE - 3 Months Rolling	Programme Iling_1, KTE - Submission.	25-Mar-23	Submit CSD Programm Submit CSD Programm Submit CSD Programm	ne Rev 38with M46 Mon ne Rev 39with M47 Mon	L TYY DC

	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Float	TRA (Day)	50	-	July 51	August 52	53	54
52 - Piling Wo	arter	24	11-May-23 A	15-May-23-A	27-Apr-23	27-Apr-23	1100	0.00	28 04 11 18	5 02	09 16 23	30 06 13 20 27	03 10 17 24	01 08 15 22
-														
Piling Works				15-May-23 A		27-Apr-23		0.00						
3.2-2526	S2 - 8A Proof drilling & Piles testing	24	11-May-23 A	15-May-23 A	27-Apr-23	27-Apr-23		0.00						
S2 - Pile Caps	s, Pier / Abutment	133	24-May-23 A	25-Oct-23	27-Apr-23	25-Jul-23	-76	9.00						
Abutment 2F		20	29-Sep-23	25-Od-23	03-Jul-23	25-Jul-23	-76	0.00						
3.2-2602A	S2 - Construct Abutment A-2F (final pour)	20	29-Sep-23	25-0d-23	03-Jul-23	25-Jul-23	-76						•	
Pier 8A		83	24-May-23 A	24-Aug-23	27-Apr-23	28-Jun-23	-48	9.00						
3.2-2604	S2 - Install sheetpile for pile cap 8A	5	24-May-23 A	29-May-23 A	27-Apr-23	27-Apr-23		1.00						
3.2-2606	S2 - Excavation down to formation level C-8A	11	30-May-23 A	30-Jun-23	27-Apr-23	03-May-23	-48	2.00		_				
3.2-2608	52 - Prepare pile head (1 nr) C-8A		03-Jul-23	07-Jul-23	04-May-23	09-May-23	-48	1.00						
3.2-2610			08-3ul-23	21-3ul-23			-48	2.00						
	S2 - Construct pile cap C-8A				10-May-23	23-May-23								
3.2-2612	S2 - Construct Pier P-BA (3 Lifts)		22-Jul-23	24-Aug-23	24-May-23	28-Jun-23	-48	3.00						
52 - Deck		179	27-Mar-23 A	01-Nov-23	17-Apr-23	25-Jun-26	787	72.00						
S2 Span (L)		135	25-Apr-23 A	01-Nov-23	17-Apr-23	25-Jun-26	787	36.00						
S2 - Span 2A	A(L)-2B(L) (Stage 1)		25-Apr-23 A	09-Sep-23		25-Jun-26								
3.2-2626a	S2 - Span 2A-2B Install Bearings (pier 2A)	4	25-Apr-23 A	25-Apr-23 A	25-Jun-26	25-Jun-26								
3.2-2624	S2 - Span 2A-2B formworks on tamp steal deck	18	22-May-23 A	27-Jun-23	17-Apr-23	18-Apr-23	-57	4.00						
3.2-2630	S2 - Span 2A-2B(L) Web and Soffit	16	06-Jul-23	24-Jul-23	19-Apr-23	08-May-23	-63	2.00						
3.2-2634	S2 - Span 2A-2B(L) Deck Section	16	26-Jul-23	12-Aug-23	10-May-23	29-May-23	-63	2.00						
3.2-2640	52 - Span 2A-2B(L) Post-tensioning (Stage 1)	12		26-Aug-23	30-May-23	12-Jun-23	-63	0.00						
3.2-2641	S2 - Span 2A-2B(L) Remove Falsework & Formwork					01-Feb-24	118	0.00				_		
		12	28-Aug-23	09-Sep-23	19-Jan-24	0140524	110							
3.2-2642	52 - Span 2B to 2C Erect Steel Portal (over Kai Cheung Road) Night works (6)	14	07-Jun-23 A	30-Jun-23	23-May-23	25-May-23	-29	2.00		-				
3.2-2642A	S2 - Span 2B to 2C fabrication Steel Portal (over Kai Cheung Road) Day works (6)	12	07-Jun-23 A	29-Jun-23	24-May-23	25-May-23	-28							
3.2-2644	S2 - Span 2B-2C Falsework and formworks	14	03-Jul-23	18-Jul-23	27-May-23	12-Jun-23	-29	2.00						
3.2-2650	S2 - Span 2B-2C (L) Web and Soffit	18	28-Aug-23	16-Sep-23	13-Jun-23	05-Jul-23	-63	2.00						
3.2-2652	S2 - Span 2B-2C (L) Deck Section	18	18-Sep-23	10-Od-23	06-Jul-23	26-Jul-23	-63	2.00						
3.2-2658	S2 - Span 2B-2C(L) Post-tensioning (Stage 2)	12	11-0ct-23	25-Oct-23	27-Jul-23	09-Aug-23	-63	0.00						
S2 - Span 20	C(L)-2D(L) (Stage 3)	44	11-Jul-23	30-Aug-23	13-Jul-23	01-Sep-23	2	6.00						
3.2-2660	S2 - Span 2C-2D Falsework and formworks	14	11-Jul-23	26-Jul-23	13-Jul-23	28-Jul-23	7	2.00						
3.2-2666	S2 - Span 2C(L)-2D(L) Web and Soffit		27-Jul-23	11-Aug-23	29-Jul-23	14-Aug-23	2	2.00						
3.2-2668								2.00						
3.2-2668	S2 - Span 2C(L)-2D(L) Deck Section	16	12-Aug-23	30-Aug-23	15-Aug-23	01-Sep-23	2	2.00						
3.2-2682	S2 - Span 2D(L)-2E(L) Erect Steel Portal westbound near 2D (over KFR) Night works (7)	18	08-Aug-23	28-Aug-23	12-Jul-23	01-Aug-23	-23	2.00						
3.2-2682A	S2 - Span 2D(L)-2E(L) fabrication Steel Portal (over Kai Fuk Road) Day works (7)	12	08-Aug-23	21-Aug-23	02-Aug-23	15-Aug-23	-5							
3.2-2682B	52 - Span 2D(L)-2E(L) Erect Stael Portal Eastbound near 2E (over KFR) Night works (7)	18	29-Aug-23	18-Sep-23	26-Jul-23	15-Aug-23	-29	2.00						
3.2-2684	S2 - Span 2D(L)-2E(L) Falsework and formworks	7	19-Sep-23	26-Sep-23	16-Aug-23	23-Aug-23	-29	1.00						
3.2-2692	S2 - Span 2D(L)-2E(L) Web and Soffit	12	27-Sep-23	12-Oct-23	24-Aug-23	06-Sep-23	-29	2.00						· · · · · · · · · · · · · · · · · · ·
													Date Revi	ion Cheded
Current Mile		le	- Dect	- K-17	-la Eler	A /M		l	-) (D44, CCD)	Project ID Baseline:	: KTE-WP41_M50		15-Deo22 Submit CSD Programme	Rev 35wth MH4 Mon TYY
Critical Ren	mining Work	owio							e) (Rev41- CSD)		TE - 3 Months Rolling Pro	gramme	25-Feb-23 Submit CSD Programme	Rev 38with M46 Mon TYY
Remaining	y Weak		inr	ee Mon	ui Koill	ng Prog	gramn	ie			SK filters: 3 Months Rollin		25 May 23 Submit CSD Programme	Rev 39wth M47 Mon TYY Rev 39wth M4649 TYY
										1				Rev 40with M50 Mon TYY

ID	Activity Name	Orig Dur Start	Firish	Late Start	Late Finish	Total Float	TRA (Day	June 40	July 51	August 82	8	eșterriter 63		October Rd	_
					201			28 04 11 18 2	25 02 09 16 23	30 06 13 20	27 03 1	0 17	24 01	08 15	22
3.2-2686	S2 - Span 2D(L)-2E(L) Install Bearings	6 27-Sep-23	05-Oct-23	24-Aug-23	30-Aug-23	-29									
3.2-2695	S2 - Span 2D(L)-2E(L) Deck Section	16 13-Od-23	01-Nov-23	07-Sep-23	25-Sep-23	-29	2.0								1
3.2-2688	52 - Span 2E(L)-8A Falsework and formworks	7 27-Sep-23	06-Oct-23	24-Aug-23	31-Aug-23	-29	1.0						-		
3.2-2690	S2 - Span 2E(L) / 8A Install Bearings	6 07-Oct-23	13-Od-23	01-Sep-23	07-Sep-23	-29	2.0						C	_	
S2 Span (R)		120 20-Jun-23 A	30-Oct-23	19-Apr-23	03-Apr-24	122	36.0								
S2 - Span 2A(	R)-2B(R) (Stage 1)														
3.2-2628	S2 - Span 2A-2B(R) Web and Soffit	17 06-Jul-23	25-Jul-23	19-Apr-23	09-May-23	-63	2.0								
3.2-2632	S2 - Span 2A-2B(R) Deck Section	17 26-Jul-23	14-Aug-23	19-Jun-23	10-Jul-23	-30	2.0		_						
3.2-2633	S2 - Span 2A-2B(R) Post-tensioning (Stage 1)	12 15-Aug-23	28-Aug-23	11-Jul-23	24-Jul-23	-30	0.0								
3.2-2633A	S2 - Span 2A-2B(R) Remove Falsework & Formwork	12 29-Aug-23	11-Sep-23	18-Mar-24	03-Apr-24	161									
S2 - Span 2B(	R)-2C(R) (Stage 2)	85 19-Jul-23	28-Oct-23	08-Jul-23	18-Sep-23	-32	6.0								
3.2-2645	S2 - Span 2B-2C Falsework and formworks	14 19-Jul-23	03-Aug-23	08-Jul-23	24-Jul-23	-9	2.0								
3.2-2646	S2 - Span 2B-2C (R) Web and Soffit	18 31-Aug-23	20-Sep-23	25-Jul-23	14-Aug-23	-32	2.0								
3.2-2648	S2 - Span 2B-2C (R) Deck Section	18 21-Sep-23	13-Oct-23	15-Aug-23	04-Sep-23	-32	2.0					_		_	-
3.2-2649	S2 - Span 2B-2C(R) Post-tensioning (Stage 2)	12 14-0d-23	28-Oct-23	05-Sep-23	18-Sep-23	-32	0.0								
S2 - Span 2C(	(R)-2D(R) (Stage 3)	46 01-Aug-23	22-Sep-23	19-Aug-23	13-Od-23	16	6.0								
3.2-2661	S2 - Span 2C-2D Falsework and formworks	14 01-Aug-23	16-Aug-23	19-Aug-23	01-Sep-23	16	2.0								
3.2-2662	S2 - Span 2C(R)-2D(R) Web and Soffit	20 17-Aug-23	08-Sep-23	05-Sep-23	27-Sep-23	16	2.0								
3.2-2664	52 - Span 2C(R)-2D(R) Deck Section	12 09-Sep-23	22-Sep-23	28-Sep-23	13-Oct-23	16									-
S2 - Span 2D(	(R)-2E(R)-2F (Stage 4)	120 20-lun-23 A	30-0:1-23	19-55-23	21-Sen-23	-30	20.0								
3.2-2673a	S2 - Span 2D-2E Erect Steel Portal support ar Pier 2D	12 20-Jun-23 A	10-Jul-23	19-May-23	02-Jun-23	-30	3.0								
3.2-2673	S2 - Span 2D-2E Erect Steel Portal support at KFR central median Night works	7 24-Jun-23 A	30-Jun-23	29-May-23	02-3un-23	-30									
3.2-2673	52 - Span 2D/2E Elect Sies Portal support at Kirk Grinal median regit works 52 - Span 2D(R)-2E(R) Erect Sieel Portal westbound near 2D (over KFR) Night		31-Jul-23	03-Jun-23	24-Jun-23	-30									
	works (7)														
3.2-2672A	S2 - Span 2D-2E Fabrication Steel Portal (over KFR) Night works (7)	15 11-Jul-23	27-Jul-23	28-Jul-23	14-Aug-23	15									
3.2-2673b	S2 - Span 2D-2E Erect Steel Portal support at Pier 2E	12 11-Jui-23	24-Jul-23	11-Jul-23	24-Jul-23	0									
3.2-2672B	S2 - Span2D(R)-2E(R) Erect Steel Portal Eastbound near 2E (over KPR) Night works (7)	18 29-Aug-23	18-Sep-23	25-Jul-23	14-Aug-23	-30									
3.2-2674	S2 - Span 2D(R)-2E(R) Falsework and formworks	7 19-Sep-23	26-Sep-23	15-Aug-23	22-Aug-23	-30	1.0						1		
3.2-2676	S2 - Span 2D(R)-2E(R) Install Bearings	6 27-Sep-23	05-Oct-23	23-Aug-23	29-Aug-23	-30	2.0								
3.2-2678	S2 - Span 2D(R)-2E(R) Web and Soffit	20 06-Od-23	30-Od-23	30-Aug-23	21-Sep-23	-30	2.0								-
S2 Temporary	Working Platform over KCR (Loop Rood)	73 27-Mar-23 A	30-Jun-23	17-Apr-23	27-Apr-23	-52	0.0								
3.2-3408	S2 - Span 2A to 2C temp platform - temp steel deck (2A-M1) (DRM)	7 27-Mar-23 A	24-Apr-23 A	17-Apr-23	17-Apr-23										
3.2-3409	52 - Span 2A to 2C tamp platform - tamp steel deck (M1-M2)	7 06-Apr-23 A	22-Apr-23 A	18-Apr-23	18-Apr-23										
3.2-3405	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M3)	18 15-May-23 A	03-Jun-23 A	22-Apr-23	22-Apr-23										
3.2-3411	S2 - Span 2A to 2C temp platform - temp steel deck (M2-M3) - nightwork	18 05-Jun-23 A	30-Jun-23	22-Apr-23	27-Apr-23	-52			-						
Sch_3.3 Bridge	S3 Works	12 26-Jun-23	11-Jul-23	19-Sep-23	29-Jun-24	286	0.0								
S3 - Deck		12 26-Jun-23	10-Jul-23	19-Sep-23	27-Jan-24	167	0.0								
53 - Span 3A-3	E	12 26-Jun-23	10-Jul-23	15-Jan-24	27-Jan-24	167	0.0								
Current Mics									Project ID: KTE-WP41_M50		Date 15-Deo22	Submit CSD Proge	Revision amme Rev 35wth	M44 Mon TYY	ided D
Adual Work Citical Remaining W	ining Work				st (Mont ing Prog			e) (Rev41- CSD)	Baseline: Layout: KTE - 3 Months Rolling Pro Filter: TASK filters: 3 Months Rollin		20-Jan 23 25-Feb-23 25-Mar-23 25-May 23	Submit CSD Progr Submit CSD Progr Submit CSD Progr Submit CSD Progr	amme Rev 38wth amme Rev 39wth amme Rev 39wth	M46 Mon TYY M47 Mon TYY M4549 TYY	0 0 0
									Page 4 of 19		25-Jun-23	Submit CSD Progr	ammo Rev 40with	M50 Mon TYY	

ID	Activity Name	Orig Du	Stat	Finish	Late Start	Late Finish	Total Fical	INV (Day)	50		51	1 50 1 00	52		41 1 10	53		54	2
3.3-2864	53 - Span 3A-3E Remove Falsework, Formwork and Trusses	12	26-Jun-23	10-Jul-23	15-Jan-24	27-Jan-24	167	0.00	28 04 11 18	25 02 09	16 23	30 06	13 2	0 27	03 10	17 2	94 01	08 15	-
S3 - Span 3	BE-3D	12	26-Jun-23	10-Jul-23	19-Sep-23	05-Od-23	73	0.00								-			
3.3-2888	S3 - Span 3E-3D Remove Falsework, Formwork and Trusses	12	26-Jun-23	10-Jul-23	20-Sep-23	05-Oct-23	73	0.00											
3.3-2872	53 - C-Sapn 3A-3E Post-tensioning and Grouting (Stage 1)		26-Jun-23	26-Jun-23	19-Sep-23	19-5ep-23	73												
	laneous Works		11-04-23	11-Jul-23	29-Jun-24	29-Jun-24	286	0.00											
3.3-2893	S3 - End wall construction (Abutment)		11-Jul-23	11-Jul-23	29-Jun-24	29-Jun-24	286												
			23-Mar-23 A		06-Apr-23	06-Jun-24	168	33.00											
-	dge S4 Works						-59	18.00											
	ps, Pier / Abutment		24-Apr-23 A		14-Apr-23														
Abutment			24-Apr-23 A		14-Apr-23	25-Aug-23	-59	18.00											
3.4-3048	54 - A-4A-54 ELS			06-May-23 A		14-Apr-23		2.00											
3.4-3050	S4 - Excavation Down to Formation Level A-4A-S4			30-May-23 A		14-Apr-23		3.00											
3.4-3052	S4 - Prepare pile head (10 nrs) A-4A-S4	21	31-May-23 A	25-Jul-23	14-Apr-23	13-May-23	-59	1.00											
3.4-3054	54 - Construct Abutment Base A-4A-54	25	26-Jul-23	28-Aug-23	15-May-23	17-Jun-23	-59	4.00			•			-					
3.4-3056	S4 - Construct Abultment: A-4A-S4	44	29-Aug-23	20-Oct-23	19-Jun-23	10-Aug-23	-59	6.00											٥
3.4-3058	S4 - A-4A-S4 Install Permeate Membrane and Backfill	13	21-0d-23	06-Nov-23	11-Aug-23	25-Aug-23	-59	2.00											0
S4 - Deck		182	23-Mar-23 A	02-Nov-23	06-Apr-23	06-Jun-24	171	15.00											
S4-Span (L	.)	187	23-Man23 A	02-Nov-23	06-Apr-23	01-Feb-24	75	5.00											
S4- Span 4	48-4A(L) (Stage 4)	10	21-0d-23	02-Nov-23	02-Sqp-23	13-Sep-23	-10	2.00											
3.4-3144	S4 - Span 4A(A)-4B(A) Falsework and formwork	10	21-0d-23	02-Nov-23	02-Sep-23	13-Sep-23	-40	2.00											0
S4- Span 4	4B-4K(L) (Stage 1)	17	26-Jun-23	10-Jul-23	06-Apr-23	22-Apr-23	-63	0.00											
3.4-3180	54 - Span 4B(A) - 4K(A) Remove Falsework, Formwork and Trusses	12	26-Jun-23	10-Jul-23	06-Apr-23	22-Apr-23	-63	0.00											
S4- Span 4	4K-4J(L) (Stage 2)	39	25-Apr-23 A	06-Jul-23	06-Apr-23	29-Jul-23	20	0.00											
3.4-3283		12	25-Apr-23 A	09-May-23 A	06-Apr-23	06-Apr-23		0.00											
3.4-3284			15 May 23 A		20-Jul-23	29-Jul-23	20	0.00											
S4- Span (		40	23-Mar-23 A	20-04-23	06-Ant-23	01-5eb-24	162	3.00											
3.4-3290	3         54 - Span 44(A)-41 Proceentarianing (Stage 2)           44         51 - Span 44(A)-41 Proceentaria on A proceentari	14	23.Mar.23.4	31-May-23 A	06-Apr-23	06-Apr-23		2.00											
3.4-3292			03-Jun-23 A		06-Apr-23	06-Apr-23	-63	1.00											
3.4-3296			27-Jun-23	05-Jul-23	11-Apr-23	18-Apr-23	-63	0.00											
3.4-3298			07-Jul-23	20-Jul-23	19-Jan-24	01-Feb-24	162	0.00											
S4-Dpan (F			30-Mar-23 A		10-Jun-23	06-Jun-24	179	10.00											
			25-Apr-23 A		10-Jun-23	18-Apr-24	230	0.00											
3.4-3216				20-May-23 A		10-Jun-23		0.00											
3.4-3218		12	22-May-23 A	06-Jul-23	09-Apr-24	18-Apr-24	230	0.00	-										
S4- Span 4	4E-4F(R) (Stage 3)							1.00											
3.4-3226	54 - Span 4E-4F Dack Section	10	30-Mar-23 A	18-Apr-23 A	29-Jun-23	29-Jun-23		1.00											
3.4-3224a	54 - Stitish joint - Span 4E-4F Web and Soffit at 4E	18	15-Jun-23 A	03-Jul-23	10-Jun-23	16-Jun-23	-12		-	-									
3.4-3226a	S4 - Stitich joint - Span 4E-4F Deck Section at 4E	10	04-Jul-23	14-Jul-23	17-Jun-23	29-Jun-23	-12												
3.4-3230	54 - Span 4E-4F Post-tensioning (Stage 3)	7	15-Jul-23	22-Jul-23	29-Jun-23	08-Jul-23	-12	0.00			_								
																			_
Current			-							Project ID: KTE	-WP41_M50				Date 15-Deo22 S	ubmit CSD Progra	Revision mme Rev 36wth	Ch W41 Mon TYY	(
	Ramaining Work Centr	ai Kowlo							(Rev41- CSD)	Baseline: Layout: KTE - 3	Months Rolling	Programme			25-Feb-23 S	ubmit CSD Progra ubmit CSD Progra	mme Rev 38with	VH6 Mon TYY	(
	ning Work		Th	ree Mon	tn Rolli	ng Prog	gramn	ne			ers: 3 Months R		Submission.		25-Mar-23 S	ubmit CSD Progra ubmit CSD Progra	mme Rev 39wth	W7 Mon TYY	_
										1								VI50 Mon TYY	

	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (E		June 50 04 11 18	25	02	July 51	e 09	1 20	08	August 52	20	27	an 1	Septemb 53	17 3		1 .00	Colober 54	20
3.4-3232	S4 - Span 4E-4F Remove Falsework and Formwork	12 24	I-Jul-23	05-Aug-23	23-Sep-23	09-Oct-23	53	0	.00	u4 II 18	0	32	vd	23	30	1	13	20	0	0.5	.0	./ 2	. 0	08	15	a
S4- Span 4F-4	4G(R) (Stage 4)	118 084	May-23 A	13-Sep-23	14-Jun-23	23-Apr-24	175	7	.00																	
3.4-3234	S4 - Span 4F-4G Falsework and formworks	18 08-	May-23 A	08-Jul-23	14-Jun-23	27-Jun-23	-9	3	.00																	
3.4-3236	54 - Span 4F-4G Install Bearings (at 4F)	8 19-	May-23 A	19-May-23 A	28-Jun-23	28-Jun-23		2	.00																	
3.4-3238	S4 - Span 4F-4G Web and Soffit	16 13	J-Jul-23	31-Jul-23	28-Jun-23	17-Jul-23	-12	1	.00				÷	_	-											
3.4-3240	S4 - Span 4F-4G Deck Section	14 01-	Aug-23	16-Aug-23	18-Jul-23	02-Aug-23	-12	1	.00																	
3.4-3244	54 - Span 4F-4G Post-tensioning (Stage 4)	12 17	Aug-23	30-Aug-23	03-Aug-23	16-Aug-23	-12	0	.00										_							
3.4-3246	S4 - Span 4F-4G Ramove Falsework and Formwork	12 31-	Aug-23	13-Sep-23	10-Apr-24	23-Apr-24	175	0	.00.										_		-					
S4- Span 4G-4	4H(R) (Stage 5)	146 25-	Apr-23 A	24-0ct-23	14-Aug-23	06-Jun-24	179	2	.00						÷											
3.4-3252	54- Span 4G-4H Web and Soffit	14 25	Apr-23 A	31-May-23 A	14-Aug-23	14-Aug-23		1	.00																	
3.4-3254	54- Span 4G-4H Dadk Section	22 01-		28-Jun-23	14-Aug-23	16-Aug-23	41		.00																	
3.4-3252a	S4- Stitch joint - Span 4G-4H Web and Soffit at 4G	10 31		11-Sep-23	17-Aug-23	28-Aug-23	-12																			
3.4-3254a	S4-Stitch joint - Span 4G-4H Deck Section at 4G	10 12		22-Sep-23	29-Aug-23	08-5ep-23	-12		_													_				
3.4-3258	S4- Span 4G-4H Post-tensioning (Stage 5)	12 23		09-Oct-23	09-Sep-23	22-Sep-23	-12	0														_		_		
3.4-3260	S4 - Span 4G-4H Remove Falsework and Formwork	12 23		24-Oct-23	24-May-24	06-Jun-24	179		.00															Τ.		
					,		-19	22																-		
h_3.5 Bridge		206 15-		27-Dec-23	04-Jul-23	02-Dec-23	-19																			
	Pier / Abutment			06-May-23 A	-	19-Aug-23			.00																	
her 7C		20 15-		05-May-23 A	,	19-Aug-23		0	.00																	
3.5-3426a	S7 - Construct Pier P-7C-S7 (2nd Lift)	20 15-		05-May-23 A		19-Aug-23																				
7 - Deck		108 26	-Jun-23	02-Nov-23	04-Jul-23	10-Od-23	-19	14																		
57 - Span 78-7	70	79 26	-Jun-23	26-Sep-23	04-Jul-23	04-Sep-23	-19	8	.00																	
3.5-3444	S7 - Span7B-7C Erect Steel Portal (over Kai Cheung Road Slip Road) Sunday only (4)	24 26	-Jun-23	24-Jul-23	04-Jul-23	31-Jul-23	6	2	.00	•	1			-												
3.5-3444A	57 - Span7B-7C Fabrication Steel Portal (over Kai Cheung Road Slip Road) Day works (4)	12 26	-Jun-23	10-Jul-23	18-Jul-23	31-Jul-23	18			•		_														
3.5-3446	57 - Span 7B-7C Install Bearings	6 25	i-Jul-23	31-Jul-23	01-Aug-23	07-Aug-23	6	2	.00					-	-											
3.5-3448	S7 - Span 7B-7C formworks on steel portal	6 25	i-Jul-23	31-Jul-23	01-Aug-23	07-Aug-23	6	2	.00					-	-											
3.5-3450	57 - Span 7B-7C Web and Soffit	10 30	Aug-23	09-Sep-23	08-Aug-23	18-Aug-23	-19	1	.00										<u> </u>	_						
3.5-3452	S7 - Span 7B-7C Deck Section	14 11	-Sep-23	26-Sep-23	19-Aug-23	04-Sep-23	-19	1	.00												-	_				
57 - Span 7C-7	70	108 26	-Jun-23	02-Nov-23	19-Aug-23	10-Oct-23	-19	6	.00																	
3.5-3454	S7 - Span 7C-7D Falsework and formworks	14 26	-Jun-23	12-Jul-23	19-Aug-23	04-Sep-23	46	2	.00	•			•		1											
3.5-3462	S7 - Span 7C-7D Install Bearings	6 13	HJUH23	19-Jul-23	05-Sep-23	11-Sep-23	46	2	.00				-	1												
3.5-3456	S7 - Span 7C-7D Web and Soffit	12 06	-Oct-23	19-Oct-23	12-Sep-23	25-Sep-23	-19	1	.00															<u> </u>	-	
3.5-3458	S7 - Span 7C-7D Deck Section	11 20	-Oct-23	02-Nov-23	26-Sep-23	10-Oct-23	-19	1	.00																	<u> </u>
7 - Miscellane	eous Works	56 20	-Od-23	27-Dec-23	26-Sep-23	02-Dec-23	-19	8	.00																	
3.5-3470	S7 - Install Profile barrier / Parapet Wall / Planter	56 20	-Oct-23	27-Dec-23	26-Sep-23	02-Dec-23	-19	8	.00						1											
h_3.6 Bridge	S8 Works	177 30-	Apr-22 A	30-Oct-23	16-May-23	20-Sep-23	-31	23	.00																	
8 - Piling Wor		24 251	Apr-23 A	28-Apr-23 A	16-May-23	16-May-23		0	.00																	
iling Works -		24 25-	Apr-23 A	28-Apr-23 A	16-May-23	16-May-23		0	.00																	
3.6-3602	S8 - 8B-S8 Proof drilling & Piles testing	24 25-	Apr-23 A	28-Apr-23 A		16-May-23			.00																	
Current Miles Adual Work Critical Remain Remaining W	aning Work Central Ko	owloon				st (Mont ing Prog			ate)	Rev41- CSD)	E		E - 3 Mor	: I1_M50 ths Rolling Months Ro			mission.	:	2	Date 5-Deo22 10-Jan-23 15-Feb-23 15-Mar-23 15-Mar-23	Subm Subm Subm	CSD Progra CSD Progra CSD Progra CSD Progra	mme Rev 3 mme Rev 3 mme Rev 3	7 with M45 P Bwith M46 P Swith M47 P	Aon TYY Aon TYY Aon TYY Aon TYY	eded C C C
											F	Page 6 of 1	q							5Jun-23		CSD Progra				

	Activity Name	Orig Du	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (D	·		50	,			51		-		52	_		53	150			54	41	-
S8 - Pile Cond	s, Pier / Abutment	84	30-Apr-22 A	07-Aug-23	16-May-23	16-Sep-23	35	11.	21	04	11	18	25	02	09 1	6 23	30	06	13 2	0 27	03	10	17	24	01	08	15	22
Pier 88	s, Per / Addition		02-May-23 A	07-Aug-23	16-May-23	28-Jun-23	-33	8/																				
3.6-3616	S8 - Install sheetpile for pile cap C-88		02-May-23 A			16-May-23		1,																				
3.6-3618	58 - Excavation down to formation level C-8B-S8			22-May-23 A	16-May-23	16-May-23		2.	-																			
3.6-3620	S8 - Prepare pile head (1nr) C-8B-S8		23-May-23 A	28-Jun-23	16-May-23	18-May-23	-33	1.																				
3.6-3622	S8 - Construct pile cap C-8B-S8	13	29-Jun-23	14-Jul-23	19-May-23	03-Jun-23	-33	2,	0				1		-													
3.6-3624	58 - Construct Pier P-8B-58 (2 Lifts)	20	15-Jul-23	07-Aug-23	05-Jun-23	28-Jun-23	-33	2.	2																			
Pier 8C		25	30-Apr-22 A	07-Jul-23	06-Sep-23	16-Sep-23	61	3.	D																			
3.6-3634	S8 - Construct Pier P-8C-S8 (3 Lifts)	29	30-Apr-22 A	07-Jul-23	06-Sep-23	16-Sep-23	61	3,				:		_														
58 - Deck		54	25-Aug-23	30-Oct-23	29-Jun-23	20-5ep-23	-31	12.	C																			
S8 - Span 8A	-88 (Stage 1)	54	25-Aug-23	30-Od-23	29-Jun-23	20-Sep-23	-31	12.	<mark>o</mark>			1																
3.6-3651	S8 - Span 8A-8B Erect temp tower of portal	28	25-Aug-23	26-Sep-23	29-Jun-23	01-Aug-23	-48													<u> </u>	-	_		-				
3.6-3652	58 - Span 8A-8B Erect Steel Portal (over Kai Cheung Road) Night works (9)	26	27-Sep-23	30-Oct-23	02-Aug-23	31-Aug-23	-48	12.	5																_		_	_
3.6-3652A	58 - Span 8A-8B fabrication Steel Portal (over Kai Cheung Road) day works	24	27-Sep-23	27-Od-23	24-Aug-23	20-Sep-23	-29		-																		<u> </u>	_
ch_3.7 Bridg	(9) je S9 Works	43	21-Apr-23 A	29-Apr-23 A	15-Sep-23	15-Sep-23		17	o i																			
59 - Miscellar	neous Works	43	21-Apr-23 A	29-Apr-23 A	15-Sep-23	15-Sep-23		1.	0																			
3.7-3928	59 - Road pavement; Road marking	7	21-Apr-23 A	26-Apr-23 A	15-Sep-23	15-Sep-23		1.																				
3.7-3930	59 - Final completion works	24	25-Apr-23 A	28-Apr-23 A	15-Sep-23	15-5cp-23			-																			
3.7-3932	S9 - Completion of Bridge S9		•	29-Apr-23 A		15-Sep-23			-																			
	e S1/S9 Works	110	25-Man 23 A	09-Aug-23	19-May-23	25-Jun-26	856	20.																				
51/S9 - Deck			25-Mar-23 A	03-3ul-23	19-May-23	09-Jun-26	874	2																				
	17A-7B (L) (Stage 3)		25-Mar-23 A	03-Jul-23	19-May-23	09-Jun-26	874	2,																				
3.8-4104	51/59 - Span 7A-7B(L) Deck Section			01-Apr-23 A		19-May-23	0/4	2.																				
3.8-4106			13-Apr-23 A	19-Apr-23 A		19-May-23		0,																				
	S1/S9 - Span 7A-7B(L) Post-tensioning and Grouting (Stage 3)				19-May-23																							
3.8-4108	\$1/S9 - Bridge \$1/S9, Remove Falsework, formwork and Trusses		26-Jun-23	03-Jul-23	03-Jun-26	09-Jun-26	874	0,				L		·														
	ellaneous Works		25-Mar-23 A	09-Aug-23	19-May-23	25-Jun-26	856	18.																				
3.8-4110	S1/S9 - Bridge Drainage works (R)			26-Apr-23 A	19-May-23	19-May-23		4,																				
3.8-4116	S1/S9 - Movement Joint	12	15-Apr-23 A	19-Apr-23 A	15-Sep-23	15-Sep-23		2,	0																			
3.8-4120	S1/S9 - (R) Road pavement; Road marking	e	21-Apr-23 A	26-Apr-23 A	15-Sep-23	15-Sep-23		1.	p																			
3.8-4124	51/S9 - (R) Final completion works; Ready to Open	10	26-Apr-23 A	28-Apr-23 A	15-Sep-23	15-Sep-23		0.	2																			
3.8-4114A	S1/S9 - Road Lighting and water barrier (temporary)	4	27-Apr-23 A	28-Apr-23 A	15-Sep-23	15-Sep-23																						
3.8-4126	S1/S9 - (R) Open to Public	0		29-Apr-23 A		15-Sep-23																						
3.8-4127	51/S9 - Remove Steel Portal (over KFR) Night works (2 & 3) (Eastbound)	18	17-May-23 A	07-Jun-23 A	19-May-23	19-May-23		2.		-																		
3.8-4118	BEM - S1/S9 (L) - Install Profile barrier / Parapet Wall / Planter / TCSS duct (L)	36	26-Jun-23	09-Aug-23	04-Dec-23	19-Jan-24	134	3.	p					-		-		-										
3.8-4114	S1/S9 - Road Lighting and Road Furniture	28	26-Jun-23	28-Jul-23	05-Sep-23	09-Oct-23	60	4,	D																			
3.8-4110a	51/S9 - Bridge Drainage works (L)	14	04-Jul-23	19-Jul-23	10-Jun-26	25-Jun-26	874					÷		_		1	1											
3.8-4127a	S1/S9 - Remove Steel Portal (over KFR) Night works (2 & 3) (Westbound)	18	11-Jul-23	31-Jul-23	03-Jun-23	24-Jun-23	-30	2,	0						_													
ch_3.9 Bridg	je CKRW Works	156	06-Apr-23 A	14-Nov-23	20-Jun-23	27-Jan-24	61	20.	o l																			
												:	l li				:   i											-
Unert M				F	roject ID:	KTE-WP4	1_M50					Date 15-Deo-22	Sub	mt CSD Pr	Revis		K4 Mon	Checked TYY										
Adual Wo	nk Central K	owlo							ate) (I	Rev41	- CSI	D)		aseline: avout: KT	E. 3 Maa	ths Rolling F	moramo	0			20-Jan-23 25-Feb-23	Sub	mit CSD Pr	ogamme		45 Mon		DX DX
- Remaining			Thr	ee Mon	th Rolli	ing Prog	gram	me								Months Rolling Months Rol			ission.		25-Mar-23 25-Mar-23	Sub	mt CSD Pr	ogramme	Nev 39wth	147 Mon	TYY	- DX
													1				-				25 May 23		THE COLUMN	syannie	ANY COMPLET	48/49 160 Mon		100

D	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day		50		51			52			53	1		54	
CKRW - Pile Ca	ps, Pier / Abutment	78	30-May-23 A	09-Sep-23	31-Jul-23	05-Oct-23	20	4.00	21	5 04 11 18	23 02	09 16	23	30 06	13 2	0 27	03	10 17	24	01 0	15	+
Abutment A-K		78	30-May-23 A	09-Sep-23	31-Jul-23	05-Od-23	20	4.00	0													
3. <del>9-4</del> 236	CKRW - Construct Abutment A-K1-CKRW	18	30-May-23 A	30-Aug-23	31-Jul-23	22-Sep-23	20	4.00			_					_						1
3.9-4238	CKRW - A-K1-CKRW Install Permeate Membrane and Baddfill		31-Aug-23	09-Sep-23	23-Sep-23	05-Od-23	20	0.00	5													
CKRW - Deck			06-Apr-23 A	12-Sep-23	20-Jun-23	27-Dec-23	86	10.00														
	1-CKRW - K5-CKRW	36	06-Apr-23 A	05-Jul-23	20-Jun-23	10-Aug-23	31	5.00														
3.9-4278	OKRW - Span K1-K5 Falarwork and formwork			15-May-23 A		20-Jun-23		3.00														
3.9-4282	OKRW - Span K1-K5 Web and Soffit		15-Apr-23 A		20-Jun-23	20-Jun-23		1.00														-
3.9-4284	OKRW - Span K1-K5 Deck Section		16-Jun-23 A	05-Jul-23	02-Aug-23	10-Aug-23	31	1.00			-											
				12-Sep-23	20-Jun-23	27-Dec-23	86															
3.9-4298	NormNo																					
3.9-4302							-4															
3.9-4304							-4															
3.9-4292								00														
3.9-4307																						
								6.00								-						
3.9-4308																						
3.9-4310																						
ELS for Underp			· · ·				118															
4-4508	(W4)																					
4-4510	(W4)																					
4-4512								1.00	2													
4-4512a									-								_					
44513																	•					
4-4515	53 - Excavation down to final formation level (WI-W3)																					
RC Structures							208	4.00	2													
Bay W4																						
4-4546										-												
4-4550																						1
	2 (Box Section Bay 2 & 3)						76															
RC Strucutres								3.00	2													
Box Sections																						
Bay B3 (L=10	Dm)	9	25-Apr-23 A	05-Jun-23 A	23-5ep-23	23-Sep-23		1.00	0													
4-4618	S3-B3 - Consturct Top Slab	9	25-Apr-23 A	05-Jun-23 A	23-Sep-23	23-Sep-23		1.00		-												
Bay B4A (L=	6m)	31	06-Apr-23 A	05-Jun-23 A	23-Sep-23	23-Sep-23		2.00	þ													T
										Date		Revisor		1~	ded							
Current Miles			Project I Baseline	D: KTE-WP41	_M50				15-Deo-22 20-Jan-23	Submit CSD		w 35wth M4	Mon TYY									
Critical Rema	ining Work	owiod		e - Kai ee Mon					ite) (I	(ev41- CSD)	Layout:	(TE - 3 Month				1	25-Feb-23	Submit CSD	Programme Re	rv 38with M4	8 Mon TYY	
Remaining W	ñok -		111	ee mon	arrom	ng Fio	grann	ne			Filter: TA	SK filters: 3 M	Aonths Rolli	ng_1, KTE - S	ubmission.	1	25-Mar-23 25-May/23	Submit CSD	Programme Re Programme Re	rv 39with M4	549 TYY	
											1					1	25Jun-23	Cubrent COD	Property D	w dOugh MS	Mon TrY	

	Activity Name	Orig Dur Start	Finish	Late Start	Late Finish	Total Fical	TRA (Da	4		Jun 40	e			July 51			_	August 52	_			September 53				Oclober 54	_
10-8612	53-84A - Consturt External Well	8 06-Apr-23 A	19-Apr-23 A	23-Sep-23	23-Sep-23	Filal	1.0		28 04	11	18	25	02	09 1	6 23	30	06	13	20	27	03	10	17 2	4 01	08	15	22
10-8614	S3-B4A - Constunct Top Slab	8 25-Apr-23 A			23-Sep-23		1.0																				
liscellaneous		18 10-Jun-23 A	14-Jul-23	23-Sep-23	13-Oct-23	76	5.0																				
4-4620	53 - Box Section Baddfiling upto GL	18 10-Jun-23 A	14-Jul-23	23-Sep-23	13-Oct-23	76	5.0				ł																
3 - TTA Stag	e 4 (Box Section Bay 4 & 5 and Ramp E7-E5)	101 05-Jun-23 A	25-Od-23	10-Feb-23	14-Jun-23	-109	9.0	D																			
TA Advance	Works	32 19-Jul-23	24-Aug-23	04-Mar-23	14-Apr-23	-109	0.0																				
4-4622	TTA - Implement TTA Stage 4 (KFR TTA stage 4.1A)	0 19-Jul-23		04-Mar-23		-109								•	•												
4-4624	TTA - TTA Stage 4 Trial Run (KFR TTA stage 4.1A)	2 19-Jul-23	20-Jul-23	04-Mar-23	06-Mar-23	-109	0.0	D							•												
4-4626	TTA - Trial Pits / Site investigation	6 21-Jul-23	27-Jul-23	07-Mar-23	13-Mar-23	-109	0.0	0							-												
4-4628	TTA - Utilities diversion / protection	24 28-Jul-23	24-Aug-23	14-Mar-23	14-Apr-23	-109	0.0	5										·····	-								
ELS for Under	rpass	101 05-Jun-23 A	25-0d-23	10-Feb-23	14-Jun-23	-109	9.0	0																			
4-4632a	S3 - Install cofferdam (1st stage after exposure of CLP cables);	28 05-Jun-23 A	31-Aug-23	10-Feb-23	21-Apr-23	-109				_	-	_	_		_	-	_		_	-							
4-4630	53 - Mobilisation	10 21-Aug-23	31-Aug-23	11-Apr-23	21-Apr-23	-109	0.0	5												_							
4-4632	53 - Install cofferdam (2nd stage after TTA implementation);	33 01-Sep-23	11-0d-23	22-Apr-23	01-Jun-23	-109	7.0													-					_		
4-4636	53 - Excavation down to 0.5m below 1st waling & strut; install waling & strut	11 12-0d-23	25-Oct-23	02-Jun-23	14-Jun-23	-109	2.0																		-	<u>.</u>	_
	ning Walls and At-grade Road Works	329 13-Jan-23 A	01-Mar-24	17-Feb-23	05-Jun-26	675	248.0																				
		247 13-Jan-23 A		21-Mar 23	10-May-24	137																					
Retaining Wa	115	55 11-Sep-23	16-Nov-23		09-Dec-23		8.0																				
RW-S1-a				06-Od-23		20																					
5A-5006	RW-S1-a - Construct Base Slab (Bay 2)	12 11-Sep-23	23-Sep-23	06-Oct-23	19-Oct-23	20																					
5A-5010	RW-S1-a - Construct Wall (Bay 2)	15 25-Sep-23	13-Od-23	20-Ott-23	07-Nov-23	20	2.0																				
5A-5012	RW-S1-a - Fill upto formation level	28 14-0d-23	16-Nov-23	08-Nov-23	09-Dec-23	20	4.0	2																		1	_
RW-S1		208 13-Jan-23 A	28-Sep-23	21-Mar-23	15-Sep-23	-12	20.0	o la																			
Retaining Wa	all																										
5A-5034	RW-S1 - Construct Wall (Bay10)	14 13-Jan-23 A	06-Sep-23	21-Jun-23	30-Jun-23	-57	2.0			-	-			-	-		-			-							
5A-5058	RW-S1 - Fill upto formation level (SPT) for KCR TTA stage 2	28 25-Apr-23 A	28-Apr-23 A	05-Aug-23	05-Aug-23		4.0	C																			
5A-5059	RW-S1 - Roadworks for KCR-TTA Stage 2 (temp)	8 27-Apr-23 A	29-Apr-23 A	15-Sep-23	15-Sep-23		6.0	5																			
5A-5061	RW-S1 - Temporary road pavement for KCR TTA Stage 2	18 27-Apr-23 A	29-Apr-23 A	15-Sep-23	15-Sep-23		2.0	5																			
5A-5036	RW-S1 - Construct Base Slab (Bay 7)	7 29-Apr-23 A	13-May-23 A	04-Apr-23	04-Apr-23		1.0	0																			
5A-5046	RW-S1 - Construct Wall (Bay 6)	20 13-May-23 A	10-Jul-23	21-Mar-23	03-Apr-23	-76	1.0					:															
5A-5012	RW-51 - Construct Wall (Bay 7)	9 24-May-23 A	29-Jul-23	04-Apr-23	27-Apr-23	-76	1.0																			÷	
5A-5032	RW-S1 - Construct Base Slab (Bay 8)	7 31-Jul-23	07-Aug-23	28-Apr-23	06-May-23	-76	2.0	0																			
5A-5038	RW-S1 - Condruct Wall (Bay8)	9 08-Aug-23	17-Aug-23	08-May-23	17-May-23	-76	1.0											_									
5A-5058c	RW-51 - Fill upto formation level (SPT) remaining	36 18-Aug-23	28-Sep-23	18-May-23	30-Jun-23	-76	1.0													_							
5A-5038a	RW-S1 - Construct Well (Bay 9)	9 18-Aug-23	28-Aug-23	18-May-23	29-May-23	-76		-																-			
	KNHOL - CONSULT WEI (DAY 9)	9 18-Aug-23 21 29-Sep-23			29-May-23		3.0																				
RW-S1/S2		21 29-Sep-23	26-Oct-23	15-Sep-23	11-00-23	-12	3.0	1																			
	stage 1- after TTA stage 2.1)	21 29-Sep-23	26-04-23	15-Sap-23	11-0:3-23	-12	3.0																				
5A-5062	RW-S1/S2 - Excavation down to formation level +4.8/+7.25	7 29-Sep-23	09-Oct-23	15-Sep-23	22-Sep-23	-12																					
5A-5064	RW-S1/S2 - Plate Load Test and Report	14 10-0d-23	26-Oct-23	23-Sep-23	11-Oct-23	-12	2.0																				
-												_									Date	_		Revision		Oho	ded 1
Current Mile		owloon Rou	le - Kai	Tak Eas	t (Mont	h 50	Unde	ate) (	RevA	1. 05	וח		roject ID: I aseline:	KTE-WP4	1_M50					15	Deo22 Jan-23	Submit	CSD Progra	mme Rev 38 mme Rev 37	with M44 M with M45 M	n TYY	D
Critical Ram	raining Work		ree Mon								-,	L	ayout: KTE		ths Rolling					254	Feb-23 Mar-23	Submit	CSD Progra	mme Rev 38 mme Rev 35	with M46 M	n TYY	
Remaining)	Vłok											F	iter: TASH	K filters: 3	Months R	tolling_1,	KTE - Su	bmission.		25	May 23	Submit	CSD Proge	mme Rev 35	with M45/45	TYY	D
													age 9 of 1							25-	lun-23	Submit	CSD Progra	mmo Rev 40	with M50 M	n TrY	DC

	Activity Name		Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day	1		June 50			July 51			August 52			September 53			Celob 54	Ħ	-
W-52			162 2	5-Apr-23 A	07-Nov-23	25-Apr-23	27-Dec-23	41	15.00	2	8 04	11 18	25	02 0	19 16	23	30 06	13	20 27	03	10 1	7 24	01	08	15 22	2
A-5112a	RW-52 - Construct Wall (Bay 5)			5-Apr-23 A	26-Jun-23	25-Apr-23	25-Apr-23	-49																		
5A-5110	RW-S2 - Construct Base Slab (Bay 3)				19-May-23 A	26-Apr-23	26-Apr-23		1.00	5																
5A-5106	RW-S2 - Construct Base Slab (Bay 4)				05-Jun-23 A	26-Apr-23	26-Apr-23		2.00																	
5A-5112	RW-52 - Construct Wall (Bay 4)			26-Jun-23	07-Aug-23	26-Apr-23	08-Jun-23	-49	1.00																	
5A-5116	RW-S2 - Construct Wall (Bay 3)			26-Jun-23	07-Aug-23	26-Apr-23	08-Jun-23	-49	1.00																	
5A-5114a	RW-52 - Construct Base Slab (Bay 1)			26-Jun-23	24-Jul-23	08-Aug-23	04-Sep-23	36	1.00	1																
							02-Nov-23	36	3.00																	
5A-5118	RW-52 - Construct Wall (Bay1) (2 pours)			25-Jul-23	18-Sep-23	05-Sep-23																				
5A-5114	RW-S2 - Construct Base Slab (Bay 2)			08-Aug-23	04-Sep-23	05-Sep-23	04-Oct-23	24	3.00	2																
5A-5120B	RW-S2 - Fill up to formation level (SPT) for TTA stage	2.1		08-Aug-23	28-Aug-23	09-Jun-23	30-Jun-23	-49										1 1								
5A-5118a	RW-S2 - Construct Wall (Bay 2)			05-Sep-23	04-Oct-23	05-Oct-23	02-Nov-23	24																		
5A-5427c-1	RW-S2 - Construct Top slab (Bay 1)- 1st pour with TO	255		19-Sep-23	18-Oct-23	28-Nov-23	27-Dec-23	57																		
iA-5120	RW-S2 - Fill up to formation level (SPT)		28	05-Oct-23	07-Nov-23	03-Nov-23	05-Dec-23	24	4.00																-	-
W-57-a			40	17-Aug-23	04-Oct-23	08-Aug-23	22-5ep-23	-8	7.00	2																
5A-5192	RW-S7-a - Construct Base Slab (RW-S7-a1)		14	17-Aug-23	01-Sep-23	08-Aug-23	23-Aug-23	-8	2.00	P								-		1						
5A-5196	RW-S7-a - Construct Wall (RW-S7-a1)		9	02-Sep-23	12-Sep-23	28-Aug-23	06-Sep-23	-5	1.00											-	•					
A-5416	RW-S7-a - Construct Base Slab (RW-S7-a2)		12	02-Sep-23	15-Sep-23	24-Aug-23	06-Sep-23	-8	2.00	2											-					
5A-5418	RW-S7-a - Construct Wall (RW-S7-a2)		14	16-Sep-23	04-Oct-23	07-Sep-23	22-5ep-23	-8	2.00												÷		<b>-</b>			
W-S7			82	01-Aug-23	07-Nov-23	11-Jul-23	28-Oct-23	-8	7.00																	
5A-5188	RW-57 - Excavation down to formation level +3.5/+4	k.1	7 1	01-Aug-23	08-Aug-23	11-Jul-23	18-Jul-23	-18	1.00	0							<u> </u>									
5A-5210	RW-S7 - Construct Base Slab (Bay 9)		7	02-Sep-23	09-Sep-23	06-Oct-23	13-Oct-23	27	1.00																	
5A-5214	RW-S7 - Construct Wall (Bay 9)		5	13-Sep-23	18-Sep-23	14-Oct-23	19-Oct-23	25	1.00	0											-					
5A-5216	RW-S7 - Fil upto formation level		28	05-Oct-23	07-Nov-23	22-Sep-23	28-Oct-23	-8	4.00	5														_	_	-
W-57/58			83	09-Aug-23	16-Nov-23	21-Jul-23	28-Oct-23	-16	13.00																	
5A-5218	RW-S7/S8 - Excavation down to formation level +3.8	/+3.9	7 1	09-Aug-23	16-Aug-23	21-Jul-23	28-Jul-23	-16	1.00	0								<u> </u>								
5A-5220	RW-S7/S8 - Plate Load Test and Report		14	17-Aug-23	01-Sep-23	29-Jul-23	14-Aug-23	-16	2.00	5										1						
5A-5222	RW-S7/S8 - Construct Base Slab (Bay 1)		7	02-Sep-23	09-Sep-23	15-Aug-23	22-Aug-23	-16	1.00																	
5A-5224	RW-S7/S8 - Construct Base Slab (Bay 2)		7	11-Sep-23	18-Sep-23	25-Aug-23	01-Sep-23	-14	1.00																	
5A-5226	RW-S7/S8 - Construct Wall (Bay 1)		9	11-Sep-23	20-Sep-23	23-Aug-23	01-Sep-23	-16	1.00	,										1						
5A-5228	RW-S7/S8 - Construct Base Slab (Bay 3)			19-Sep-23	26-Sep-23	05-Sep-23	12-5ep-23	-12	1.00																	
5A-5230	RW-S7/S8 - Construct Wall (Bay 2)		9	21-Sep-23	03-Oct-23	02-Sep-23	12-Sep-23	-16	1.00																	
iA-5232	RW-S7/S8 - Construct Wall (Bay 3)			04-0ct-23	13-0d-23	13-Sep-23	22-Sep-23	-16	1.00															_		
A-5234	RW-57/S8 - Fill upto formation level			14-0d-23	16-Nov-23	22-5ep-23	28-Ort-23	-16	4.00															_		_
W-57/58-a				15-Aug-23	27-Oct-23	25-Jul-23	05-Oct-23	-18	12.00	5																Ĩ
5A-5236	RW-S7/S8-a - Excavation down to formation level +4.	6/46 5		15-Aug-23	19-Aug-23	25-Jul-23	29-Jul-23	-18	1.00																	
54-5238	RW-57/S8-a - Plate Load Test and Report			21-Aug-23	05-Sep-23	31-Jul-23	15-Aug-23	-10	2.00									- <b>-</b> .								
54-5240	RW-S7/S8-a - Construct Base Slab (Bay 1)			06-Sep-23	13-Sep-23	16-Aug-23	23-Aug-23	-18	1.00																	
54-5242	RW-57/SB-a - Construct Base Slab (Bay 2)		/	14-Sep-23	21-Sep-23	24-Aug-23	31-Aug-23	-18	1.00	'										Date		Rev	tion		Checked	 т
Current Milesko Actual Work Critical Remaining We	ning Work	Central Ko	wloor				t (Mont ng Prog			ate) (I	Rev41	- CSD)		Project ID: K Baseline: Layout: KTE Filter: TASK	- 3 Month	s Rolling Pro		ubmission.		Date 15-Deo22 20-Jan 23 25-Feb-23 25-Mar-23 25-May 23 25-Jun 23	Submit C Submit C Submit C Submit C	Rev SD Programm SD Programm SD Programm SD Programm SD Programm SD Programm	e Rev 35wth e Rev 37wth e Rev 38wth e Rev 39wth e Rev 39wth e Rev 39wth	M44 Mon M45 Mon M46 Mon M47 Mon M4549	NY NY NY NY NY	

	Activity Name	Orig Dur S	at Finis'	Late Start	Late Finish	Fical	TRA (D	10		50	7		AUGUST 82			Septempe	r	-	Uci	2	
54 5344	DUCT/CD a Conduct Unit (Dec. 1)	5 144	10.0	22 21 Aur 22	05.5			28 04 11 18	25 0	2 (0)	16 23	30 0	32 06 13	20 27	03	10	17 24	01	08	15	22
5A-5244	RW-S7/S8-a - Construct Wall (Bay 1)		ep-23 19-Sep			-12											•				
5A-5246	RW-57/S8-a - Construct Base Slab (Bay 3)	7 22-5				-18												•			
5A-5248	RW-S7/S8-a - Construct Wal (Bay 2)	5 22-5				-14															
5A-5250	RW-57/S8-a - Construct Wall (Bay 3)	5 034	d-23 07-Od	12-Sep-23	16-Sep-23	-16	5 1.														
5A-5252	RW-57/S8-a - Construct Base Slab (Bay 4)	7 034	d-23 10-Od-	13 09-Sep-23	16-Sep-23	-18	3 1,												-		
5A-5254	RW-S7/S8-a - Construct Wall (Bay 4)	5 114	d-23 16-0d-	3 18-Sep-23	22-Sep-23	-18	8 1,												-	1	
5A-5256	RW-S7/S8-a - Fill upto formation level	9 174	d-23 27-0d	3 22-Sep-23	05-Od-23	-18	8 1.													-	
RW-S8-b		20 09-4	ug-23 31-Aug	23 25-Jul-23	16-Aug-23	-13	3 2.														
5A-5265c	RW-S8-b - Construct Well (RW-S8-b2) (2 Lifts)	20 09-4	ug-23 31-Aug	23 25-Jul-23	16-Aug-23	-13	3 2,								1						
RW-S8		35 09-4	ug-23 18-Sep	23 19-Jul-23	28-Aug-23	-18	5.														
5A-5276	RW-S8 - Construct Base Slab (Bay 6)	7 09-4	ug-23 16-Aug	23 21-Aug-23	28-Aug-23	10	0 1/														
5A-5280	RW-S8 - Construct Well (Bay 6)	5 09-4	ug-23 14-Aug	23 19-Jul-23	24-Jul-23	-18	3 1,						<u> </u>								
5A-5282	RW-S8 - Fill upto formation level	30 15-4	ug-23 18-Sep	23 25-Jul-23	28-Aug-23	-18	3 3.									_					
RW-CKR		84 22-	ul-23 31-Oct-	14-Dec-23	17-Jan-24	64	¥ 5,														
RW-CKR-a			d-23 31-0d-	13 14-Dec-23	06-Jan-24																
5A-5336	RW-CKR-a - Excavation down to formation level +7.5	4 10-	d-23 13-0d-	3 14-Dec-23	18-Dec-23	55	5 1.														
5A-5338	RW-CKR-a - Plate Load Test and Report		d-23 31-0d-	3 19-Dec 23	06-Jan-24	55															_
RW-CKR-c		14 22-	ui-23 07-Auo	23 02-180-24	17-Jan-24	134															
54-5358	RW-CKR-c - Instal sheetpile cofferdam	14 22-	ul-23 07-Aug	23 02-Jan-24	17-Jan-24	134															
	KNEUKKU Jiszar sreepie urrenam		-			14															
RW-CKRW		47 30-4				19								_							
5A-5372	RW-CKRW - Exavation down to formation level +5.2/+5.9	7 30-4				-1	1 1							-							
5A-5374	RW-CKRW - Plate Load Test and Report	14 07-5				4	1 2,														
5A-5376	RW-CKRW - Construct Base Slab (Bay 1)	7 23-5	ep-23 03-Od-	19-Sep-23	26-Sep-23	-4											-				
5A-5378	RW-CKRW - Construct Base Slab (Bay 2)	7 04-	d-23 11-0d-	3 27-Sep-23	06-Od-23	-1	1.1.												-		
5A-5380	RW-CKRW - Construct Wall (Bay 1)	9 044	d-23 13-Oct-	3 20-Oct-23	31-Oct-23	14	1,												_		
5A-5382	RW-CKRW - Construct Base Slab (Bay 3)	7 124	d-23 19-0d-	3 07-Oct-23	14-Oct-23	-4	÷ 1.												-	-	
5A-5384	RW-CKRW - Construct Wall (Bay 2)	5 144	d-23 19-0d-	3 01-Nov-23	05-Nov-23	14	1 1												-		
5A-5386	RW-CKRW - Construct Wall (Bay 3)	5 204	d-23 26-Oct-	3 07-Nov-23	11-Nov-23	14	1													÷	-
RW-CKRW-a		7 214	d-23 30-Od-	3 16-Od-23	24-Oct-23	-5	5 1.														
5A-5390	RW-CKRW-a - Excavation down to formation level +3.3/+5.0	7 214	d-23 30-Od-	13 16-Od-23	24-Od-23	-5	5 1.													Ċ	-
Slope Feature	Works	70 26-3	in-23 15-Sep	23 29-Nov-23	10-May-24	187	7 20.														
5A-5410	59 - Reinstate the Slope Feature 11NE-C/F89 (underneath S1/S9)	70 26-1	un-23 15-Sep	23 07-Feb-24	10-May-24	187	7 10.														
5A-5414	S2 - Reinstate the Slope Feature 11NE-C/P92 (loop road)	70 26-1	in-23 15-Sep	23 29-Nov-23	28-Feb-24	130	) 10.														
Road Works		299 26-Ja	n-23 A 01-Mar	24 17-Feb-23	05-Jun-26	675	5 121.														
	n of Sign Gantries	175 20-A	r-23 A 21-Dec	23 12-Apr-23	26-Apr-26	692	2 0,														
	Shop Drawings Preparation, Approval and Fabrication - G22	123 25-M	y-23 A 20-0d-	13 02-Au <u>o-23</u>	26-Nov-23	30	0.00														
SG-G22-A	Sign Gantry - Prepare Shop drawing for G22	48 25-14	v-23 A 22-Jul-	3 02-Aug-23	28-Aug-23	31	1				_										
5G-G22-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths)					37					_										
339229	- G22	90 231	20.00	.5 299wg-23	20-10/-23	3/															
Current Miles Cuturent Miles Actual Work Critical Remaining W	aning Work Central K	owloon I	Route - K Three M					te) (Rev41- CSD)	Bas	ut: KTE - 3 M	IP41_M50 ionths Rolling F : 3 Months Rol		Submission.		Date 15-Deo22 20-Jan-23 25-Feb-23 25-Mar-23 25-Mar-23 25-Mar-23 25-Jun-23	Submit Submit Submit Submit	Re CSD Program CSD Program CSD Program CSD Program CSD Program CSD Program	me Rev 37will me Rev 38wit me Rev 39wit me Rev 39wit	M45 Mon. M46 Mon. M47 Mon. M45/49		ed D D D D D D D D

	Activity Name	Orig Dur	Statt	r mari	Late Start	Late Finish	Flo	al	· · · E			50			51				52			53				54	_
5G-G22-C	Sign Gantry - Material Testing - G22	36 28	Aug-23 10	-Oct-23	14-Oct-23	25-Nov-23	3			28	04	11 18	25	02	(19	16 23	30	06	13	20 2	7 03	10	17	24 01	08	15	22
	Shop Drawings Preparation, Approval and Fabrication - G23	123 254	-	04/23	28-Jul-23	21-Nov-23	2	6	0.00																		
							-	- -																			
SG-G23-A	Sign Gantry - Prepare Shop drawing for G23			2-Jul-23	28-Jul-23	23-Aug-23	2				1		<b>_</b>	1													
SG-G23-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths) - G23	90 23			24-Aug-23	21-Nov-23	3										-									_	
SG-G23-C	Sign Gantry - Material Testing - G23	36 28	Aug-23 10	-Od-23	10-Oct-23	21-Nov-23	3	5																			
									0.00																		
SG-G31-A	Sign Gantry - Prepare Shop drawing for G31	48 25-	1ay-23 A 22	2-Jul-23	01-Aug-23	26-Aug-23	3	0			-		-	1		_											
SG-G31-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths)	90 23	-Jul-23 20	-Od-23	27-Aug-23	24-Nov-23	3	5										-		_	_				-	_	
SG-G31-C	Sign Gantry - Material Testing - G31	36 28	Aug-23 10	-Oct-23	13-Oct-23	24-Nov-23	3	8													_		-		÷		
Sign Gantry - :	Shop Drawings Preparation, Approval and Fabrication - G32	147 254	1ay-23 A 19	-Nov-23	04-Jul-23	26-Nov-23		6	0.00																		
SG-G32-A	Sign Gantry - Prepare Shop drawing for G32	48 25-	1ay-23 A 21-	-Aug-23	04-Jul-23	28-Aug-23		6											<u></u>								(
SG-G32-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths)	90 22	Aug-23 19	-Nov-23	29-Aug-23	26-Nov-23	-	7	_												_						
5G-G32-C	- G32 Sign Gantry - Material Testing - G32	36 27		-Nov-23	14-0d-23	25-Nov-23	1	3	_																		
		09, 20	10-22.5. 21	01.72	17.000.72	18 Aug 22		~	0.00																		
Sign Gantry - 1	Shop Drawings Preparation, Approval and Fabrication - G33	56 20	401-20 K - 01		127401725	10700925	-	~	0.00																		
SG-G33-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths) - G33	90 20-			12-Apr-23	18-Aug-23	-7																				
SG-G33-C	Sign Gantry - Material Testing - G33	36 26	-Jun-23 07-	-Aug-23	08-Jul-23	18-Aug-23	1	0						1			-	-									
									0.00																		
SG-G35-A	Sign Gantry - Prepare Shop drawing for G35	48 25-	1ay-23 A 22	2-Jul-23	24-Apr-23	20-May-23	-5	1	-				-														
SG-G35-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths) + G35	90 23	-Jul-23 20	-Oct-23	21-May-23	18-Aug-23	-6	3																		_	
SG-G35-C	Sign Gantry - Material Testing - G35	36 28	Aug-23 10	Od-23	08-Jul-23	18-Aug-23	-4	3																	-		
Sign Gantry -	Shop Drawings Preparation, Approval and Fabrication - G36	123 254	Nay-23 A 20	-Od-23	24-Apr-23	18-Aug-23	-5	2	0.00																		
SG-G36-A	Sign Gantry - Prepare Shop drawing for G36	48 25-	1ay-23 A 22	2-Jul-23	24-Apr-23	20-May-23	-5	1		-	-		-	1		_											
5G-G36-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths)	90 23	-Jul-23 20	-Od-23	21-May-23	18-Aug-23	-6	3										_								_	
SG-G36-C	- G36 Sign Gantry - Material Testing - G36	36 28	Aug-23 10	-Od-23	08-Jul-23	18-Aug-23	-4	3																	-		
Sign Gantry -	Shop Drawings Preparation, Approval and Fabrication - G37	123 254	1ay-23 A 20	-Oct-23	28-Jul-23	21-Nov-23	2	6	0.00																		
5G-G37-A	Sign Gantry - Prepare Shop drawing for G37	48 25-	1av-23 A 22	2-Jul-23	28-Jul-23	23-Aug-23	2	7																			
SG-G37-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths)	90 23		-Od-23	24-Aug-23	21-Nov-23	3	2	_																	_	
SG-G37-C	- G37 Sign Gantry - Material Testing - G37			+Oct-23	10-Oct-23	21-Nov-23			_											_							
30/03/10		36 28		-0:1-23	28-14-23	214104-23	3	5																	1		
									0.00																		
SG-G41-A	Sign Gantry - Prepare Shop drawing for G41			2-Jul-23	28-Jul-23	23-Aug-23	2																				
SG-G41-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths) - G41	90 23			24-Aug-23	21-Nov-23	3						1												1	_	
5G-G41-C	Sign Gantry - Material Testing - G41	36 28	Aug-23 10	-Oct-23	10-Oct-23	21-Nov-23	3	5												-							
Sign Gantry -	Shop Drawings Preparation, Approval and Fabrication - G61		4ay-23 A 21	-Dee-23	02-Aug-23	29-Jan-24			0.00																		
SG-G61-A	Sign Gantry - Prepare Shop drawing for G61	48 25-	1ay-23 A 22	P-Jul-23	02-Aug-23	28-Aug-23	3	1		-	-		-	1		-											
SG-G61-B	Sign Gantry - Project Manager, HYD and BEM checking and approval (3mths) - G61	90 23	-Jul-23 20	-Oct-23	29-Aug-23	26-Nov-23	3	7					1													_	
SG-G61-C	- G61 Sign Gantry - Material Testing - G61	36 28	Aug-23 10	-Od-23	14-Od-23	25-Nov-23	3	9																			
SG-G61-D	Sign Gantry - Fabrication - G61	52 21	-Oct-23 21	-Dec-23	27-Nov-23	29-Jan-24	3	0					1														_
Sign Gantry -	Shop Drawings Preparation, Approval and Fabrication - G61A	175 254	Aay-23 A 21	-Deo23	28-Jul-23	24-Jan-24	2	6	0.00				1														
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🛡 Current Mice	ione													Project	D: KTE-WI	P41_M50					Dat 15-Deo2		ICSDPress	Revision amme Rev 38	with Mid PAv		ked .
Adual Work	Central K	owloon								(Rev	/41-	CSD)		Baselin	e:						20 Jan 2 25 Feb-2	3 Subr	& CSD Progr	mme Rev 37 mme Rev 38	with M45 Mar	TYY	D
Critical Harrie           Image: Crital Harrie			Three	Mont	h Rolli	ing Prog	gran	nme								nths Rolling 3 Months R			bmission.		25 Mar 2	3 Subr	it CSD Progr	amme Rev 35	with M47 Mor	L. IYY	D
-																					25 May 2	3 Subr	& CSD Progs	mme Rev 35	wth M45/49 .		D

rity ID	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total TR Fical		1.2	50	25	02 09	51	23	30 06	52 13	20 27	03	53 10 17	24	54	15
SG-G61	1A-A Sign Gantry - Prepare Shop drawing for G61A	48	25-May-23 A	22-Jul-23	28-Jul-23	23-Aug-23	27	-			Ē											
SG-G61	1A-B Sign Gantry - Project Manager, HYD and BEM checking and ap - G61A	proval (3mths) 90	23-Jul-23	20-Oct-23	24-Aug-23	21-Nov-23	32						1						_			
SG-G61		36	28-Aug-23	10-Oct-23	10-Oct-23	21-Nov-23	35										-				_	
SG-G61	1A-D Sign Gantry - Fabrication - G61A	52	21-Oct-23	21-Dec-23	22-Nov-23	24-Jan-24	26															Ė
Sign G	Santry - Shop Drawings Preparation, Approval and Fabrication	n - G62 123	25-May-23 A	20-Od-23	29-Jul-23	22-Nov-23	27	0.00														
SG-G62	2-A Sign Gantry - Prepare Shop drawing for G62	48	25-May-23 A	22-Jul-23	29-Jul-23	24-Aug-23	28				4	_	_									
SG-G62	2-B Sign Gantry - Project Manager, HYD and BEM checking and ap	proval (3mths) 90	23-Jul-23	20-Oct-23	25-Aug-23	22-Nov-23	33	_									_					_
SG-G62	- Gb2 2-C Sign Gantry - Material Testing - G62	36	28-Aug-23	10-Od-23	11-Oct-23	22-Nov-23	36										_	i			<u> </u>	
Sign G	Santry - Shop Drawings Preparation, Approval and Fabrication	n - G71 123	25-May-23 A	20-Oct-23	14-Jul-23	07-Nov-23	14	0.00														
5G-G71	1-A Sign Gantry - Prepare Shop drawing for G71	48	25-May-23 A	22-Jul-23	14-Jul-23	09-Aug-23	15				_											
SG-G71		proval (3mths) 90	23-Jul-23	20-Oct-23	10-Aug-23	07-Nov-23	18						1									
SG-G71	- G71 1-C Sign Gantry - Material Testing - G71	36	28-Aug-23	10-Oct-23	23-Sep-23	07-Nov-23	23	_														
Sign G	Santry - Shop Drawings Preparation, Approval and Fabrication		20-Apr-23 A	22-Sep-23	13-Aug-23	10-Nov-23	39	0.00														
SG-G72			20-Apr-23 A	22-Sep-23	13-Aug-23	10-Nov-23	49		ł													
SG-G72	- G72		26-Jun-23	07-Aug-23	27-Sep-23	10-Nov-23	79	<u>     Г</u>												-		
50072			20500723	07-Hug-20	27-34223	14 Nov 22	20	0.00														
Sign G	Santry - Shop Drawings Preparation, Approval and Fabrication		20-9189-23 R	20-00-25	21-JUI-25	1	20	0.00														
SG-673			25-May-23 A		21-Jul-23	16-Aug-23	21															
SG-G73	- G73			20-Oct-23	17-Aug-23	14-Nov-23	25						1									-
\$G-G73		36	28-Aug-23	10-Oct-23	03-Oct-23	14-Nov-23	29											1 1				
								0.00														
SG-G42	2-A Sign Gantry - Prepare Shop drawing for G42	48	25-May-23 A	22-Jul-23	31-Jul-23	25-Aug-23	29				-											
SG-G42	I2-B Sign Gantry - Project Manager; HYD and BEM checking and ap - G42	proval (3mths) 90	23-Jul-23	20-Oct-23	26-Aug-23	23-Nov-23	34						(									
5G-G42	I2-C Sign Gantry - Material Testing - G42	36	28-Aug-23	10-Od-23	12-Od-23	23-Nov-23	37										-				_	
Sign Fa	ace - Shop Drawings Preparation, Approval and Fabrication							0.00														
SG-T4-	-A Sign Face - Prepare Shop drawing for FADS-T4	48	26-Jun-23	21-Aug-23	29-Nov-25	26-Jan-26	717				-		-	-		-	1					
SG-T4-	<ul> <li>Sign Face - Project Manager, HYD and BEM checking and appr FADS-T4</li> </ul>	oval (3mths) - 90	22-Aug-23	19-Nov-23	27-Jan-26	26-Apr-26	889										-	1 1	_		++	-
SG-T4+		36	27-Sep-23	10-Nov-23	16-Mar-26	25-Apr-26	727														_	-
At-grad	de Slip Road S004	36	26-Jun-23	07-Aug-23	20-Dec-23	02-Feb-24	148	6.00														
5A-5509	9 BIM - S004 - Road and drainage works / Utilities / TCSS duct la (Endbalding and g Javan conting).	ying 36	26-Jun-23	07-Aug-23	20-Dec-23	02-Feb-24	148	6.00			_											
At-grad	(Footbridge and subway section) de Road Kai Cheung Road S009 (Uphill Ramp)	63	26-Jun-23	07-Sep-23	05-Aug-23	19-Od-23	34	9.00														
5A-5524	4 S009 - Road and drainage works / Utilities Laying	42	26-Jun-23	14-Aug-23	05-Aug-23	22-Sep-23	34	6.00			_		+ +			-						
5A-5528	8 S009 - Road Pavement	12	15-Aug-23	28-Aug-23	23-Sep-23	09-Oct-23	34	2.00									<u> </u>					
5A-5530	0 S009 - Road Marking / Road fumiture	9	29-Aug-23	07-Sep-23	10-Od-23	19-Od-23	34	1.00										-				
At-grad	de Road Kai Cheung Road S010 (Downhill Ramp)	42	15-Jul-23	02-Sep-23	18-Dec-23	07-Feb-24	130	6.00														
5A-5532		42	15-Jul-23	02-Sep-23	18-Dec-23	07-Feb-24	130	6.00					_					-				
At-grad	de Road Kai Cheung Road S010 (Uphill Ramp / Southbound)		12-May-23 A		18-Apr-23	09-Od-23	-56	0.00														
5A-5534			12-May-23 A		18-Apr-23	14-Jun-23	-56		1													
5A-5534			22-Aug-23	18-Oct-23	15-Jun-23	11-Aug-23	-56	— [·														
	and a second sec												-									
	ument Miestone											Project ID: KT	E-WP41_M	50				Date 15-Deo-22		Revision D Programme Rev		Checked TYY
_	dual Work Ce	entral Kowlo							e) (I	Rev41- CSD)		Baseline: .ayout: KTE -	3 Months P	olling Pro	oramme			20-Jan-23 25-Feb-23	Submit CSI Submit CSI	D Programme Rev D Programme Rev	an dramment of morth.	TYY TYY
Pe			Thi	ee Mon	th Rolli	ng Prog	gramm	e				Filter: TASK fi				Submission.		25-Mar-23 25-Mar-23	Submit CS		39wth M47 Mon	TYY TYY
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)	Activity Name		Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day	-		June 50		-	JUI			Ai	igust 52			September 63			Celebe	R.	=
5A-5534C	CO10 Circ Centry C72 Centres (1 as in Cent	nel Marilan)	48	19-0ct-23	14-Dep-23	12 Aug 22	09-Oct-23	-56			8 04	11 11	25	02	09	16 23	30	06	13 20	27	03	10 17	24	01	08 1	5 2	22
	5010 - Sign Gantry G73 Footing (1 no in Cent	rai Median)				12-Aug-23																					_
	d Kai Fuk Road Eastbound S019/S020			23-Aug-23	10-Oct-23	09-Sep-23	16-Od-24	298	6.00																		
5A-5554	S019/S020 - Reconstruct Kai Fuk Road (EB) / F Utilities Laying	Road and Drainage works /	28	23-Aug-23	23-Sep-23	09-Sep-23	13-Oct-23	15	4.00										-				-				
5A-5560	5019/5020 - Road Marking / Road furniture		12	25-Sep-23	10-Oct-23	02-Od-24	16-Oct-24	298	2.00																-		
At-grade Roa	d Kai Cheung Road U-turn		72	26-Jun-23	18-Sep-23	05-Jul-23	16-Od-25	609	14.00																		
5A-5565	KCRd - Reinstate Kai Cheung Road U-tum for fa	ilsework(Bridge S2)	18	26-Jun-23	17-Jul-23	05-Jul-23	25-Jul-23	7	4.00					1													
5A-5564	KCRd - Reinstate Kai Cheung Road U-tum (Brid	ge S1/S9)	18	18-Jul-23	07-Aug-23	24-Sep-25	16-Od-25	645	4.00									•									
5A-4093	S2 - Span 2EL/2ER-8A/2F falseoworks and for	mwork (over Kai Cheung Road	18	29-Aug-23	18-Sep-23	26-Jul-23	15-Aug-23	-29	6.00																		
	U-tum) (8) d MCEB/MCWB (East - except Part 4A/40			26-Jan-23 A	07-Feb-24	20-Jun-23	02-Feb-24	-4	42.00																		
At-grade Roa		-)		15-dun-23	071021	20 301123	02 54 24		12.00																		
					U7-H80-24	10-Aug-23		-4	21.00																		
5A-5568	BIM - MCEB(E) - Site formation / Drainage Wor	ks / Utilities / TCSS duct Laying	146	15-Aug-23	07-Feb-24	10-Aug-23	02-Feb-24	-4	21.00										1	1 1	1			1		1	
5A-5580	BEM - MCWB(E) - Site formation / Drainage Wo 5+350 to 5+550)	orks / Utilities Laying (Part 1-	145	26-Jan-23 A	31-Jul-23	20-Jun-23	26-Jul-23	-4						1			-										
5A-5580A	BEM - MCWB(E) - Site formation / Drainage Wo 5+550 to 5+870)	orks / Utilities Laying (Part 2-	120	01-Aug-23	21-Dec-23	27-Jul-23	16-Dec-23	-4	21.00									-		1 1						-	-
At-grade Roa	d MCEB/MCWB (Part 4A/4C)		119	26-Jun-23	15-Nov-23	09-Oct-23	05-Jun-26	758	32.00																		
At-grade Roa	ad MCEB			26-Jun-23	21-Sep-23	09-Oct-23	28-May-26																				
5A-5594	4A/4C - Initial survey / mobilisation		12	26-Jun-23	10-Jul-23	09-O±-23	21-Od-23	87	2.00					1	<u> </u>												
5A-5596	BIM - MCEB(E) - Drainage Works / TCSS duct		43	11-Jul-23	29-Aug-23	18-Nov-23	10-Jan-24	109	6.00																		
5A-5598	MCEB(E) - Road formation Pavement (Sub-bas	n Dand Para and Para (numa)		30-Aug-23	15-Sep-23	06-May-26	22-May-26	795	2.00													_					
		e, kuau base anu base course)													Į							_					
5A-5600	MCEB(E) - Sign Gantry G42 Footing x2		14	30-Aug-23	14-Sep-23	11-Jan-24	26-Jan-24	109	2.00													-					
5A-5604	MCEB(E) - Road Pavement (Wearing Course an	id Fridion Course)	5	16-Sep-23	21-Sep-23	23-May-26	28-May-26	795	1.00													-					
5A-5610	MCWB(E) - Drainage Works (Part 483) / / Utili	ties Laying	28	11-Jul-23	11-Aug-23	09-Apr-26	11-May-26	815	4.00									_									
5A-5608	BIM - MCWB(E) - Drainage Works / Utilities / TO	ISS duct Laying	85	11-Jul-23	19-Od-23	24-Oct-23	02-Feb-24	87	12.00																	•	
5A-5612	MCWB(E) - Road formation Pavement (Sub-ba	se, Road Base and Base	22	20-0ct-23	15-Nov-23	12-May-26	05-Jun-26	758	3.00																		_
At-grade Road	Course) d MCEB/MCWB (Part 1B3)		42	21-Jul-23	07-Sep-23	02-Jan-24	09-Sep-24	295	6.00																		
5A-5640	MCEB/MCWB(1B3) - Drainage Works / / Utilitie	is Laving / TCSS duct Laving	28	21-Jul-23	22-Aug-23	02-Jan-24	02-Feb-24	135	4.00																		
5A-5642	MCEB/MCWB(1B3) - Road Pavement			23-Aug-23	07-Sep-23	24-Aug-24	09-Sep-24	295	2.00												_						
				10-5eb-23 A	01-Mar-24	22-Sep-23	02-5eb-24	-18	0.00										_		_						
Shing Kai Roa									0.00																		
5A-569BA	5A- application for exacavtion permit for Shing			10-Feb-23 A	17-Od-23	22-5ep-23	22-Sep-23	-18																			
5A-5697	BEM - 5A - Shing Kai Road cross-road ducting v to GDS5)	works (TTA required) (for GDS2	108	17-0d-23	01-Mar-24	23-Sep-23	02-Feb-24	-18																	•		-
Kai Fuk Road	(West Bound)		180	25-Jun-23	21-Dec-23	20-Apr-23	16-Oct-23	-66	0.00																		
5A-5810A	Application of Excavation Permit for FADS T4(A	)	180	25-Jun-23	21-Dec-23	20-Apr-23	16-Od-23	-66					_	1													_
Kai Fuk Road	(EB) - Maintain 3 traffic lanes until CKR o	ommissioning (PMI 253	228	16-Feb-23 A	30-Nov-23	17-Feb-23	28-May-24	139	0.00																		
KFR(EB)- Ad	ditional measures to mitigiate unexpecte	d UU (Risk ID:239)		16-Feb-23 A	30-Nov-23	17-Feb-23	28-May-24																				
TTA 4.1 EB 5	Set Back (with on-street bus stop)		44	19-May-23 A	19-Jul-23	28-Feb-23	04-Mar-23	-109	0.00																		
C1000	TMLG Approval on TTA Scheme (For TTA 4.1A	with On-street Bus Stop)	0		19-May-23 A		28-Feb-23																				
C1010	Apply Traffic Notice (for E/B Setback)	.,	4	26-Jun-23	29-Jun-23	28-Feb-23	03-Mar-23	-94																			
51010	- server and the server of the server s		1	2010/01/20	29-501-25	2010/23	554-18-25	-94																			_
Current Mic	atoma													Durin 1	ID. 1077	D44 ME0					Date		Revi			Checked	
Adual Work	k	Central Ko	owloa	on Rout	e - Kai	Tak Eas	st (Mont	h 50	Upda	te) (	Rev41	- CSD)		Project Baselin	ID: KTE-W e:	*41_M50				3	15-Deo22 30-Jan-23	Submit CSI	D Programme D Programme	Rev 37wth	445 Mon T		DC DC
Citical Rem Remaining							ing Prog					,		Layout:	KTE - 3 M	onths Rolling I					25-Feb-23 25-Mar-23	Submit CS	D Programme D Programme	Rev 38wth	446 Mon T	W W	DC
Hemaining (	VECER						3	,						Filter: T	ASK filters:	3 Months Ro	ling_1, KT	E - Submis	ssion.	3	25 May 23	Submit CSI	DProgramme	Rev 39wth	48/49 T	iY	DC
														Page 14						4	25-Jun-23	Submit CS	D Programme	How 40with	Ab0 Mon T	m	DC

	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day		50			51				52			_		53			-	54	-
C1010A	TTA requirment (with dosure of KT tunnel east tube) and CNP constraint	0	17-Jul-23*		02-Mar-23		-109		1	28 04 11	18 3	25 02	09	16	23	30 06	13	20	27	03	10	17	24	01	08	15	f
TTA1010	TTA Implementation for KFR Stage 4.1A EB Set Back	0	19-Jul-23		04-Mar-23		-137																				
	tional works in Area 1 (Nearby Existing Bus Stop)		16-Feb-23 A	26-Jun-23	17-Feb-23	02-May-23	-45	0.00																			i
A1280	Fire Hydrant Relocation Works		16-Feb-23 A		03-Mar-23	03-Mar-23	-90	0.00	1																		
					03-1961-25		-90																				ł
TTA1000	TTA Implementation for Temporary Relocation of Bus Stop	0		28-Mar-23 A		17-Feb-23																					į.
A1220	Utility Diversion Works (Indude Watermain)			24-May-23 A		02-May-23																					ĺ.,
KFR- Addit	tional works in Area 2 (next to KITEC)	191	16-Feb-23 A	17-Oct-23	17-Feb-23	28-May-24	176	0.00																			į.
Tree Rem	ioval (TTA sub-stage)	191	16-Feb-23 A	17-Od-23	25-Jan-24	28-May-24	176	0.00																			1
A1170	TPRP Approval	90	16-Feb-23 A	30-Jun-23	25-Jan-24	30-Jan-24	176		1		-	-															ł
A1180	Tree Removal Works (4 nos) (all night work)	12	03-Jul-23	15-Jul-23	31-Jan-24	20-Feb-24	176					_	_														į.
A1181	Road works for TTA implementation (partially night work)	78	17-Jul-23	17-Oct-23	21-Feb-24	28-May-24	176							-			-	-	-	-	-	-	-			-	
TTA1040	TTA Implementation for KFR EB Set Back after Tree Removal	0		17-Oct-23		28-May-24	176		1																	•	i.
Utility Div	ersion	15	25-May-23 A	26-Jun-23	17-Feb-23	17-Feb-23	-102	0.00	)																		
A1160	Temporary Protection of Existing Cables at Planter Area	15	25-May-23 A	26-Jun-23	17-Feb-23	17-Feb-23	-102		÷		-																
Drainage		39	31-Mar-23 A	26-Jun-23	17-Feb-23	17-Feb-23	-102	0.00	0																		
A1260	ELS for Drainage Works (assume no unexpected UU issue)	19	31-Mar-23 A	07-Apr-23 A	17-Feb-23	17-Feb-23																					
A1150	Drainage Works (assume no unexpected UU issue)		08-Apr-23 A		17-Feb-23	17-Feb-23	-102																				į
	in Diversion			24-May-23 A		18-feb-23		0.0																			
	Watemain Diversion (inculde fire hydrant works in Area 2)							0.00	1																		
A1100				03-Apr-23 A		18-Feb-23																					ł.
A1350	Testing for Watermain			12-May-23 A		18-Feb-23																					
A1360	Watemain Connection by WSD			24-May-23 A		18-Feb-23																					ĺ.,
Final Com	npletion Work	19	27-May-23 A	18-Jul-23	18-Feb-23	03-Mar-23	-109	0.00																			
A1120	Baddfiling (with coarse fill material)	4	27-May-23 A	24-Jun-23 A	18-Feb-23	18-Feb-23					-																
A1130	Kerb Construction	3	26-Jun-23	28-Jun-23	23-Feb-23	25-Feb-23	-98																				ŧ.
A1120A	Prepare formation after heavy rain (in sunny day)	7	26-Jun-23	04-Jul-23	18-Feb-23	25-Feb-23	-102		1																		i.
A1140	Bituminous Pavement (duration for test result is exculded)	3	05-Jul-23	07-Jul-23	27-Feb-23	01-Mar-23	-102																				
A1370	Set-up for TTA	2	17-Jul-23	18-Jul-23	02-Mar-23	03-Mar-23	-137						•	•					-								Ê
KFR- Addit	tional works in Area 3 (next to Sinopec)	157	05-Apr-23 A	30-Nov-23	02-May-23	07-Oct-23	-45	0.00																			
A1030	Permanant Bus Station Footing	66	26-Jun-23	11-Sep-23	02-May-23	20-Jul-23	-45										_		_		-						ł.
A1040	Permanant Bus Station Erection	66	12-Sep-23	30-Nov-23	21-Jul-23	07-Od-23	-45																	-			-
A1020	Sign Gantry G31 Footing		12-Sep-23	22-Sep-23	01-Sep-23	12-Sep-23	-9																				
A1210	Rootpath Reinstatement		23-Sep-23	28-Sep-23	25-Sep-23	29-Sep-23	1																				į
A1060	Drainage Works		23-5ep-23	28-Sep-23	13-5ep-23	18-5ep-23	9																				Í.
			23-5ep-23 29-Sep-23	28-5ep-23			~2																				
A1200	Beam Barrier Construction				03-Oct-23	07-Oct-23	1																				
A1070	Kerb Constution	5		06-Oct-23	19-Sep-23	23-Sep-23	-9																1				
A1050	Pavement Reinstatument		07-0:1-23	18-Od-23	25-Sep-23	07-Od-23	-9																				
Watermai	in Diversion	55	05-Apr-23 A	24-May-23 A	02-May-23	02-May-23		0.00																			
A1230	Testing for Watermain	1	05-Apr-23 A	17-May-23 A	02-May-23	02-May-23																					
Current M		owlo	on Rout	te - Kai	Tak Eas	t (Mont	h 50 l	Upda	nte) (	Rev41- CSD)	_	Project ID Baseline:		-						Da 15-Deo 20-Janii 25-Feb	22 S	Submit CSE	D Programm D Programm	e Rev 37w	th M44 Mon th M45 Mon th M46 Mon	TIY	
			Th	ree Mon	th Rolli	ng Prog	gramr	ne				Layout: K Filter: TAS				ramme _1, KTE - S	Submissi	on.		25-Mar 25-Mar 25-May 25-Jun	-23 S	Submit CSI Submit CSI	D Programm D Programm	ie Rev 39w	th M47 Mon th M4549	TYY 	_

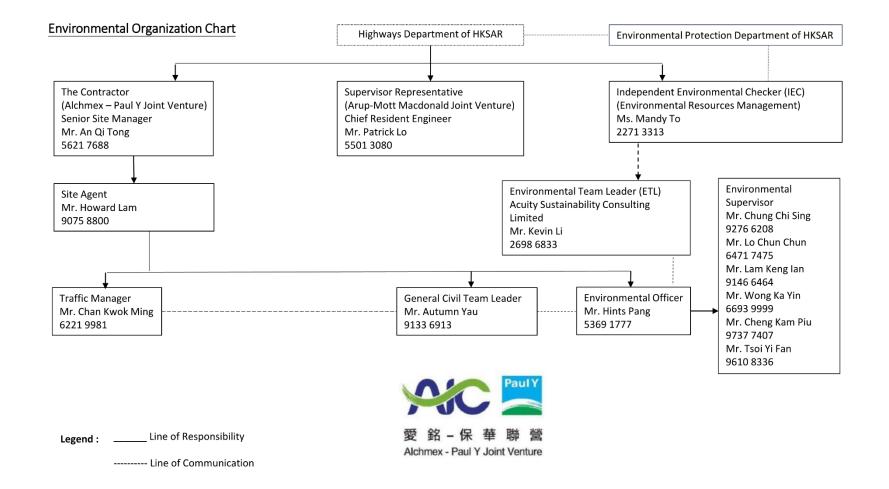
	Watamain Diversion WSD Connection Work struction of Existing Box Culvert	28 13-Apr-23 A 26 18-May-23 /	05-May-23 A	02-May-23	02-May-23	Float		11 18 2	8 02 09	16 23	30 06 1	20 27	03	10 17	24 01	08 15	22
A1010 A1010 A1010 A1010 BCH_GB Re-cons Box Culvert re-cons BC- Reinstatem 68-5782	WSD Connection Work		. 33-may-23 A	20.1.04-52													
CH_6B Re-cons Box Culvert re-cons BC- Reinstatem 68-5782		26 18-May-237															
Box Culvert re-c BC- Reinstatem 68-5782	struction of Existing Box Culvert				02-May-23												
BC- Reinstatem		30 26-Jun-23	31-Jul-23	03-Jun-23	10-Jul-23	-18	0.00										
68-5782	construction Works	30 26-Jun-23	31-Jul-23	03-Jun-23	10-Jul-23	-18	0.00										
	nent Works	30 26-Jun-23	31-Jul-23	03-Jun-23	10-Jul-23	-18	0.00										
6B-5784	BC - Reinstate hard paving and related UU	12 26-Jun-23	10-Jul-23	03-Jun-23	16-Jun-23	-18		-									
	BC - Reinstate planter wall in DSD compound	12 11-Jul-23	24-Jul-23	17-Jun-23	03-Jul-23	-18											
68-5786	BC - Transplant 5 nos of tree in DSD compound	3 11-Jul-23	13-Jul-23	29-Jun-23	03-Jul-23	-9											
68-5788	BC - Reinstate fending in DSD compound	6 25-Jul-23	31-Jul-23	04-Jul-23	10-Jul-23	-18											
6B-5790	BC - Complete reconstruction of Box Culvert	0	31-Jul-23		10-Jul-23	-18					•						
ection 5 - Slip	p Road S5 Works (Subject to Excision)	211 27-Mar-23 A	06-Jan-24	27-Apr-23	18-Dec-23	-14	54.00										
ch 5B S5 - Drz	ainage and Road Works	211 27-Mar-23 A	06-Jan-24	27-Apr-23	18-Dec-23	-14	54.00										
S5 Part 4B1 (Ma		152 27-Mar-23 A		18-Aug-23	18-Dec-23	45	29.00										
5B-6301	SS - Access Date for Part 4B1 (Major)	0 27-Mar-23 /		18-Aug-23													
58-6303	S5 - Part 4B1 (Major)- Initial Survey	12 25-May-23 /			18-Aug-23		0.00										
5B-6305	S5 - Part 481 (Major) - Mobilisation works	12 09-Jun-23 /			18-Aug-23		0.00										
5B-6307	55 - Part 481 (Major)- Drainage Works / / Utilities Laying / TCSS duding / Watermain	90 26-Jun-23	11-04-23	18-Aug-23	04-Dec-23	45									_		
58-6309	S5 - Part 4B1 (Major)- Site formation / Road kerb / Road Barriers / Road Lighting	20 03-Oct-23	26-Od-23	25-Nov-23	18-Dec-23	45	4.00										
S5 Part 4B1 (Mi	linor portion)	157 30-Jun-23	06-Jan-24	27-Apr-23	03-Nov-23	-52	25.00										
5B-6401	55 - Amers Date for Part 4B1 (Minor) - Late Possession - tentative 30/6/2023	0 30-Jun-23*		27-Apr-23		-64			•								
5B-6403	S5 - Part 4B1 (Minor) - Initial Survey	18 03-Jui-23	22-Jul-23	28-Apr-23	19-May-23	-52	0.00			_							
5B-6405	S5 - Part 481 (Minor) - Mobilisation works	18 24-Jul-23	12-Aug-23	20-May-23	10-Jun-23	-52	0.00			_							
5B-6407	S5 - Part 4B1 (Minor) - Drainage Works / / Utilities Laying / TCSS ducting / Watermain	120 14-Aug-23	06-Jan-24	12-Jun-23	03-Nov-23	-52	25.00							-			
ection 6 - Eso	cape Route for Slip Road S6 Works (Subject to Exc	127 27-Mar-23 A	26-0d-23	22-Jul-23	21-Nov-23	22	23.00										
ich_5C S6 - Dra	ainage and Road Works	127 27-Mar-23 /	26-Oct-23	22-Jul-23	21-Nov-23	22	23.00										
5C-6307	56 - Amess Date for Part 4B3	0 27-Mar-23 A		22-Jul-23													
5C-6309	56 - Drainage Works / Utilities Laying / TCSS duct laying (Part 4B3)	90 26-Jun-23	11-0d-23	22-Jul-23	07-Nov-23	22										-	
5C-6304	S6 - Initial Survey	6 29-Jul-23	04-Aug-23	30-Aug-23	05-Sep-23	27	0.00										
5C-6306	56 - Mobilisation works	3 05-Aug-23	08-Aug-23	06-Sep-23	08-Sep-23	27	0.00	· · · · · · · · · · · · · · · · · · ·									
5C-6308	56 - Drainage Works / Utilities Laying / TCSS ducting	48 09-Aug-23	05-Od-23	09-5ap-23	07-Nov-23	27	20.00										
5C-6310	S6 - Site formation / Road kerb / Road Lighting	12 12-0d-23	26-Oct-23	08-Nov-23	21-Nov-23	22											-
		212 22 Arr 22 A	21.0x:22	25 Apr 22	05 Aug 24	179	62.00										
	ntilation and E&M adit and Ring Road Underpass	215 22-8µ-25 P	12-08-25	23-401-23	08-409-24	1/8	05.00										
	tion and E&M Adit Works	190 22-Apr-23 A		25-Apr-23	25-Sep-23	-50	20.00										
Area Part 1C		190 22-Apr-23 A		25-Apr-23	25-Sep-23	-50	20.00										
VA - ELS Works		98 22-Apr-23 A		25-Apr-23	07-Jun-23	-50	11.00										
6A-6634	VA - Exavation Down to 3rd waling & Strut; Install waling & Strut; 1C	16 22-Apr-23 A	05-May-23 A	25-Apr-23	25-Apr-23		2.00										
6A-6635	VA - Excavation Down to 4th waling & Strut; Install waling & Strut, 1C	16 06-May-23 /	4 05-Jun-23 A	25-Apr-23	25-Apr-23		2.00										
6A-6636	VA - Excavation Down to 5th waling & Strut; Install waling & Strut; 1C	13 06-Jun-23 /	29-Jun-23	25-Apr-23	28-Apr-23	-50	2.00										
Current Mesto	ione								Project ID: KTE-V	NP41 M50			Date	0.000	Revision		heded Ap
Adual Work	Central Ko	owloon Rou	te - Kai	Tak Eas	st (Mont	h 50	Upda	- CSD)	Baseline:				15-Deo-22 20-Jan-23	Submit CSD Pro	gamme Rev 374	dh M44 Mon TY dh M45 Mon TY	/ DC
Critical Romain Romaining Vice	ning Work		ree Mor						Layout: KTE - 3 M Filter: TASK filter		gramme g_1, KTE - Submiss	ion	25-Feb-23 25-Mar-23	Submit CSD Pro		dh M47 Mon TY	
									Filter, LMON HITCH	a. 5 Monuts Moli II	g_1, NTC - audmiss	юн.	25-May23 25-Jun-23	Submit CSD Pro	gramme Rev 394 gramme Rev 404	dh M4849 Tr dh M60 Mon Tr	/ DC

Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Day	50		51		August 52	_	Sépte 5	a a		-0.	.xober 54
VA - Excavation Down to 6th waling & Strut; Install waling & Strut, 1C	13	30-Jun-23	15-Jul-23	29-Apr-23	15-May-23	-50	2.00	18 2	25 02 09	16 23	30 06	13 20	27	10	17	24 01	80	1
VA - Excavation Down to 7th waling & Strut; Install waling & Strut, IC	15	17-Jul-23 (	02-Aug-23	16-May-23	02-Jun-23	-50	2.00											
VA - Excavation Down to Final Formation Level, 1C	4 (			03-Jun-23	07-Jun-23	-50	1.00											
							4.00											
							2.00											
	66 0	07-Sep-23	254009-23		25-5¢P-23	-50	5.00											
	66 (	07-5ep-23 2	25-Nov-23		25-5ep-23	-50	5.00											
															1	-		
	48 2	28-Sep-23	25-Nov-23	01-Aug-23	25-5ep-23	-50	4.00											-
oad Underpass	175 2	5-May-23 A	22-Dec-23	21-Jun-23	06-Aug-24	178	43.00											
1D2, 1D3, 1D4, 1B1 & 1B2	55 2	26-Jun-23 2	29-Aug-23	17-Nov-23	05-Aug-24	274	4.00											
5	4	21-Jul-23	25-Jul-23	27-Jun-24	02-Jul-24	274	0.00											
a 5		21-Jul-23	25-Jul-23	27-Jun-24	02-Jul-24		0.00											
RR - Excavation Down to Formation Level (Baddilling) (RR),1B3 (Open cut)	4	21-Jul-23	25-Jul-23	27-Jun-24	02-Jul-24	274				-								
ons, Pump Sump & FS Plant Room	30	26-Jul-23	29-Aug-23	03-Jul-24	05-Aug-24	274	4.00											
(S011 CH0+265.675 to 0+273.5) (at-grade) (RU5)		26-Jul-23	29-Aug-23	03-Jul-24	06-Aug-24		4.00											
RR-RU5 - Construct Base slab	18	26-Jul-23	15-Aug-23	03-Jul-24	23-Jul-24	274	2.00			_		-						
RR-RU5 - Construct Side Walls	12 1	16-Aug-23 2	29-Aug-23	24-Jul-24	06-Aug-24	274	2.00						_					
	8	26-Jun-23	05-11-23	17-Mov-23	25-Nov-23	120	0.00											
		16.hm.22		17.400.22		120	0.00											
Nex - Their compretion Works																		
						214												
					15-Sep-23	-3	18.00											
RR - Prepare Pile Head for PC1	14 0	1-Jun-23 A 2	.3-Jun-23 A	21-Jun-23	21-Jun-23		2.00	-										
RR - Construct Pile Cap PC1	16 2	4-Jun-23 A	14-Jul-23	21-Jun-23	11-Jul-23	-3	2.00	•		1								
5011 CH0+118.88 to 0+130)	45	15-Jul-23	05-Sep-23	12-Jul-23	01-Sep-23	-3	7.00											
RR-R1 Construct Base slab	12	15-Jul-23	28-Jul-23	12-Jul-23	25-Jul-23	-3	2.00											
RR-R1 - Construct External Wall	14	29-Jul-23	14-Aug-23	26-Jul-23	10-Aug-23	-3	2.00					-						
RR-R1 - Construct Top Slab	19 1	15-Aug-23	05-Sep-23	11-Aug-23	01-5ep-23	-3	3.00						_					
5011 CH0+130 to 0+130)	45	29-Jul-23	19-Sep-23	08-Aug-23	15-Sep-23	-3	7.00											
RR-R2 - Construct Base slab	10	29-Jul-23 (	09-Aug-23	08-Aug-23	18-Aug-23	8	2.00				÷							
RR-R2 - Construct External Wall	12 1	10-Aug-23	23-Aug-23	19-Aug-23	01-Sep-23	8	2.00											
RR-R2 - Construct Top Slab	12 (		19-Sep-23	02-Sep-23		-3	3.00								_			
		Ub-Sep-Z3 III	18-260-52	02:582:23	15-Sep-23		3.00											
	W	W- Exacuton Even to 7h wang & Stock jt tradit wain & Stock jt.C         13           W- Exacuton Even to Final Formation Leed, I.C         44         14           W- Construct Ble Cap PCI         12         14           W- Construct Ble Cap PCI         14         14           W- Construct Ble Cap PCI         14         14           W- Construct Ble Cap PCI         14         15           W- Construct Ble Cap PCI         14         15           W- Construct Bles Sab         14         16           W- Bit - Construct Bles Sab         14         16           W- Bit - Construct Bles Sab         14         17         17           W- Bit - Construct Bles Model Sab         14         17         17           W- Bit - Construct Bles Model Sab         14         17         17           W- Construct Sac Mode         18         17         17         17           M- Construct Sac Mode         18         17         17         17         17           M- Construct Sac Mode         18         17         17         17         17         17           M- Construct Sac Mode         18         17         17         17         17         17         17         17         17         <	Win-Exaction Down to Phi waing & Stord, Lindal w	NoAnd A standard watery & Study trainal watery & Study and A study and the standard watery & Study and and the standard watery & Stud	N+ Backban Bown to Ph waing & Stud, Intal Waing & Stud, IC         I         I         ID         ID	No        	No 	No Part of the series of	N-baseded norms b7 hunding 8.5 bcd, frank waining 8.	Wirt-Branden Dome frienformation Lawi, LC       G. 10       G. 2000       G. 20	Wi-backen born brind shuk, braid, braid, braid, braid, braidG1AG1ABG2ABG1ABG1ABG2ABWi-backen born brind fremton Led, L'G1ABGAAB2GAAB2GAAB2GAAB2GAB2GAB2GAB2Wi-hapen Kender CLG1ABGAB22GAB22GAB23GAB2GAB2GAB2GAB2Wi-hapen Kender CLG1ABGAB22GAB22GAB23GAB2GAB2GAB2Wi-hapen Kender KLG1ABGAB22GAB22GAB23GAB2GAB2Wi-hapen Kender KLG1ABGAB22GAB23GAB23GAB2GAB2Wi-Coman Kender SabG1ABGAB24GAB23GAB23GAB2GAB2Wi-Coman Kender SabG1ABGAB24GAB23GAB23GAB2GAB2Wi-Coman Kender SabGIABGAB24GAB23GAB24GAB24GAB2CALL COMAN KENDER SabGIABGAB24GAB23GAB24GAB2GAB24CALL COMAN KENDER SabGIABGAB24GAB24GAB24GAB2GAB24CALL COMAN KENDER SabGIABGAB24GAB24GAB24GAB24GAB24CALL COMAN KENDER SabGIABGAB24GAB24GAB24GAB24GAB24CALL COMAN KENDER SabGIABGAB24G	Wi-beaken bows Privation stands up Saud, Privation Saud, Private Saud	with - cloaded norm of hundry 50 act of the form form form form form form form form	wite-leaseds from the formation (e.s.):       0.4       0.402 <td>with classified back in the strength of the st</td> <td>initial constraint with single in the sing</td> <td>wickname       wickname       <td< td=""><td>wicknew inversion wind wind wind wind wind wind wind win</td></td<></td>	with classified back in the strength of the st	initial constraint with single in the sing	wickname       wickname <td< td=""><td>wicknew inversion wind wind wind wind wind wind wind win</td></td<>	wicknew inversion wind wind wind wind wind wind wind win

ity ID	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Fical	TRA (Da	June	July	August 52	September 53	Colober
4-6844	RR - Install Profile Barriers	50	07-Aug-23	05-Oct-23	07-Od:23	05-Dec-23	Fical 51	7.0	30 28 04 11 18	25 02 09 16 23	30 06 13 20 2	03 10 17 24 01	08 15 22
4-6850						02-Mar-24	118	2.0					
	RR - Movement Joint / Waterproofing		06-Sep-23	05-Od-23	29-Jan-24								
4-6846	RR - Road Lighting and Road Furniture		15-Sep-23	19-0d-23	17-Nov-23	19-Dec-23	51	4.0					
4-6848	RR - Baddiling up to GL, 1C	28	20-Sep-23	25-Oct-23	18-Jun-24	20-Jul-24	214	4.0					
4-6852	RR - Road pavement	12	06-0d-23	19-Oct-23	04-Mar-24	16-Mar-24	118	2.0					
RR - E&M Wor	rks	78	20-Sep-23	22-Dec-23	16-Sep-23	19-Dec-23	-3	0.0					
RR - Systems		78	20-Sep-23	22-Deo23	16-Sep-23	19-Dec-23	-3	0.0					
4-6858	RR - MVAC System	72	20-Sep-23	15-Dec-23	16-Sep-23	12-Dec-23	-3	0.0					
4-6859	RR - Electrical Works and Electrical Service System	72	20-Sep-23	15-Dec-23	23-Sep-23	19-Dec-23	3	0.0					
4-6860	RR - Fire Services / Water works System	72	27-Sep-23	22-Dec-23	23-Sep-23	19-Dec-23	-3	0.0					
Section 10 - F	Footbridge, E&M Installation and Miscellaneous Wo	242	24-0d-22 A	22-Aug-23	13-Jul-23	08-Sep-23	15	7.0					
Sch_7 Abando	n Exisitng Subway KS-20	242	24-Oct-22 A	22-Aug-23	13-Jul-23	08-Sep-23	15	7.0					
KS-20 - Demo	listion / Filling Works	242	24-Oct-22 A	22-Aug-23	13-Jul-23	08-Sep-23	15	7.0					
Kai Fuk Road		242	24-0:±-22 A	22-Aug-23	13-Jul-23	08-5ep-23	15	7.0					
10-8564	S019 - Reconstruct Bus Stop Bay (Permanent) (Kai Fuk Road EB) - buse		24-0d:22 A	26-Jun-23	13-Jul-23	13-Jul-23	15						
7-7320	shelter (PMI-508)		26-Jun-23	28-Jul-23	14-Jul-23		15	4.0					
	S019 - Reconstruct Bus Stop Bay (Permanent) (Kai Fuk Road EB) - layby					15-Aug-23							
7-7322	KS20 - Reinstate Footpath / Road pavement	21	29-Jul-23	22-Aug-23	16-Aug-23	08-Sep-23	15	3.0					
7-7334	KS20 - Complete Abandon of Exisiting Subway	0		22-Aug-23		08-Sep-23	15				•		
Section 11 - S	Structure of Bridge CKRE												
Sch_3.10 Bridg	ge CKRE Works	233	24-Dao 22 A	07-Nov-23	29-Aug-23	16-Od-25	569	11.0					
CKRE - Pile Ca	ps, Pier / Abutment	9	26-Jun-23	06-Jul-23	14-Sep-23	23-Sep-23	68	0.0					
Abutment A-K	1-CKRE	9	26-Jun-23	06-Jul-23	14-Sep-23	23-Sep-23	68	0.0					
3.10-7538	CKRE - A-K1-CKRE Install Permeate Membrane and Backfil	9	26-Jun-23	06-Jul-23	14-Sep-23	23-Sep-23	68	0.0	•				
CKRE - Deck		152	24-Dac-22 A	01-Aug-23	29-Aug-23	05-Od-23	54	0.0					
CKRE- Span K	S-CKRE - K4-CKRE	152	24-Dec-22 A	01-Aug-23	29-Aug-23	05-Oct-23	54	0.0					
3.10-7592	CKRE -Span Post-tensioning and Grouting (Stage 1)	12	24-Dec-22 A	18-Jul-23	29-Aug-23	19-Sep-23	54						
3.10-7607	OKRE - Bridge OKRE Remove Falsework and Formwork	12	19-Jul-23	01-Aug-23	20-Sep-23	05-Od-23	54						
CKRE - Miscell			26-Jun-23	07-Nov-23	25-Sep-23	16-Oct-25	569	11.0					
CKRE - Works			26-Jun-23	29-Sep-23	25-Sep-23	16-Oct-25	599	5.0					
								5.0		_			
3.10-7617	CKRE - Preparation for haul road	3	26-Jun-23	28-Jun-23	14-Od-25	16-Od-25	678			•			
3.10-7618	CKRE - Opening to Interfading Contractors	0		28-Jun-23		16-Oct-25	678			•			
3.10-7608	BEM - OKRE - Install Parapet Wall / TCSS duct (L)	39	19-Jul-23	01-Sep-23	25-Sep-23	11-Nov-23	58	3.0					
3.10-7613	CKRE - End wall construction (Abutment)	24	02-Aug-23	29-Aug-23	19-Od-23	16-Nov-23	65						
3.10-7612	CKRE - Movement Joint	12	24-Aug-23	06-Sep-23	03-Nov-23	16-Nov-23	58	2.0			-	-	
3.10-7614	CKRE - Road pavement; Road marking	6	07-Sep-23	13-Sep-23	17-Nov-23	23-Nov-23	58	0.0				-	
3.10-7616	CKRE - Final completion works	14	14-5ep-23	29-Sep-23	24-Nov-23	09-Dec-23	58	0.0					
CKRE - Remai	ining Works	54	02-Sep-23	07-Nov-23	31-Jan-24	16-0a-24	275	6.0					
3.10-7610	OKRE - Bridge Drainage Works	26	02-Sep-23	04-Oct-23	31-Jan-24	07-Mar-24	123	2.0					
Current Mile	sione									Project ID: KTE-WP41 M50		Date Revision	Cheded Ap
Adual Work Citical Remaining V	central K	owloo				st (Mont ing Prog			) (Rev41- CSD)	Project ID: KTE-WP41_M50 Baseline: Layout: KTE - 3 Months Rolling Pr Filter: TASK filters: 3 Months Rolling		16 Dec22 Submt CSD Programme Rev 3 20 Jan 23 Submt CSD Programme Rev 3 26 Feb 23 Submt CSD Programme Rev 3 25 Mar 23 Submt CSD Programme Rev 3 26 May 23 Submt CSD Programme Rev 3 26 June 23 Submt CSD Programme Rev 4	Wath M45 Man         TYY         DC           Swith M46 Man         TYY         DC           Swith M47 Man         TYY         DC           Swith M45/49         TYY         DC

	Activity Name	Orig Dur Statt	Finish	Late Start	Late Finish	Total	TRA (Da	June			Uly 61		August 52			September			Colober	
3 10 7020	CODE David Linking and David David		00.0127	114	14.5 - 24	Fical		28 04 11 18	25 0	)2 (19	16 23	30 06	13	20 27	03	10 17	24	D1	08 15	22
3.10-7620	OKRE - Road Lighting and Road Furniture	28 05-Sep-23	09-Oct-23	14-Aug-24	14-Sep-24	275	4.0													
3.10-7622	CKRE - Final completion works	24 10-Od-23	07-Nov-23	16-Sep-24	16-Od-24	275	0.0													1
Section 12 - Ur			25-Jan-24		25-Jun-26															
Sch_4.3 Slip Roa	ad Underpass S21	237 01-Nov-22 A		23-Jan-24	25-Jun-26	717	17.0													
S21 - RC Struct	ure	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26	882	2.0	2												
S21 - U-Trough	Sections - South (CH000 to CH143.981)	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26	882	0.0	D I I I I I I I I I I I I I I I I I I I												
S21 - Bay B2-1																				
4-7812	521-82-10 - Construct At Grade slab	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26	882	0.0	D .	<u> </u>	_										
S21 - U-Trough	Sections - North (CH205.700 to CH354.957)	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26	882	2.0	D .												
S21 - Bay B3-9	- At Grade Slab Part 3E (CH321.11 to 354.957) Part 3E	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26															
4-7868	S21-B3-9 - Construct At Grade slab	12 26-Jun-23	10-Jul-23	12-Jun-26	25-Jun-26	882	2.0	D		_										
S21 - Miscellane	eous Works	237 01-Nov-22 A	25-Jan-24	23-Jan-24	27-Jul-24	144	15.0	D												
S21 - Roads and	d Pavings	211 01-Nov-22 A	22-Dec-23	23-Jan-24	27-Jul-24	170	15.0	<b>)</b>												
4-7878	S21 - Install Profile Barriers (2) (ind. TCSS ducting)	70 01-Nov-22 A	07-Jul-23	23-Jan-24	02-Feb-24	174	5.0		H-	-										
4-7882	S21 - Road Lighting and Road Furniture	28 26-Jun-23	28-Jul-23	25-Jun-24	27-Jul-24	293	4.0	0		<u>i</u>										
4-7874	S21 - Plant room finishing works	72 27-Sep-23	22-Dec-23	08-Mar-24	06-Jun-24	128	6.0	0												_
S21 - E&M Work	ks	98 27-Sep-23	25-Jan-24	28-Feb-24	28-Jun-24	120	0.0													
S21 - Systems		98 27-Sep-23	25-Jan-24	28-Fdb-24	28-Jun+24		0.0													
4-7900	S21 - Electrical Works and Electrical Service System	96 27-Sep-23	23-Jan-24	28-Feb-24	26-Jun-24	120	0.0	0												
4-7902	521 - MVAC System	96 29-Sep-23	25-Jan-24	01-Mar-24	28-Jun-24	120	0.0		•••••											
4-7904	S21 - Fire Services System/ Water Works	96 29-Sep-23	25-Jan-24	01-Mar-24	28-Jun-24	120	0.0	5											-	
Section 17 - Sle	eeve pipes for District Cooling System (Subject t	343 25-Apr-22 A	26-Jun-23	18-May-23	19-Jun-23	-4	3.0													
	ipes for DCS (Kai Tak River West)	0 26-Jun-23	26-Jun-23	18-May-23	18-May-23	-30	3.0													
DCS-West Section		0 26-Jun-23	26-Jun-23	18-May-23	18-May-23	-30	3.0	2												
10-8478	DCS(W)_A - Reinstatement (Pavement / fending / etc.)	0 26-Jun-23	26-Jun-23	18-May-23	18-May-23	-30	3.0	2	1											
Sch 10 Sleeve n	ipes for DCS (Kai Tak River East)	36 25-Apr-22 A	26-Jun-23	19-Jun-23	19-Jun-23	-4	0.0													
	m 1 (approx 37.5m)	36 25-Apr-22 A	26-Jun-23	19-Jun-23	19-Jun-23	-1	0.0													
10-8524A	DCS(E) - Baddfiling works in DCS area (up to G.L.)	36 25-Apr-22 A	26-Jun-23	19-Jun-23	19-Jun-23	4														
	n 2 (approx 37.5m)	28 25-Apr-22 A	26-Jun-23	19-Jun-23	19-Jun-23	-4	0.0													
10-8536A	DCS(E) - Baddilling works in DCS area (up to G.L.)	28 25-Apr-22 A	26-Jun-23																	
				19-Jun-23	19-Jun-23	-4													·····	

# Appendix C Project Organization Chart



# Appendix D Dust Event-Action Plan (EAP) (Air Quality Monitoring)

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

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

Note:

ET – Environmental Team

ER – Engineer's Representative

### Appendix E Noise Event-Action Plan (EAP) (Noise Monitoring)

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

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

# Appendix F Environmental Mitigation Implementation Schedule (EMIS)

Environm	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	
			Constructi	on Dust Impact					
\$4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation and Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation.	Minimize dust impact and adverse health effects at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	Implemented	
\$4.3.10	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 <sup>2</sup> to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	Implemented	
xS4.3.10	D3	<ul> <li>Proper watering at exposed spoil should be undertaken throughout the construction phase;</li> <li>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;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones;</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact to meet HKAQO and TM-EIA criteria</li> </ul>	Implemented after reminder	

#### 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
		<ul> <li>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.</li> <li>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 facilities and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;</li> <li>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;</li> <li>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;</li> <li>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 continuously;</li> <li>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;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> </ul>						

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
		<ul> <li>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;</li> <li>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</li> <li>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.</li> </ul>						
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	n Noise (Airborne)				
S5.4.1	N1	<ul> <li>Implement the following good site practices:</li> <li>Only well-maintained plant should be operated onsite, and plant should be serviced regularly during the construction programme;</li> <li>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;</li> <li>Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> </ul>	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM- EIAO	Implemented after reminder

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
		<ul> <li>Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>						
\$5.4.1	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
\$5.4.1	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 plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	Implemented
\$5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	Annex 5, TM- EIAO	Implemented
\$5.4.1	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
\$5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM- EIAO	Implemented

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
			reduce the construction airborne noise					
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 Phas	se)			
S6.9.1.1		<ul> <li>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:</li> <li><u>Construction Runoff</u></li> <li>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 sandbag 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;</li> <li>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</li> </ul>	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	Implemented

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
		<ul> <li>incorporated in the permanent drainage channels to enhance deposition rates;</li> <li>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 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;</li> <li>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;</li> <li>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;</li> <li>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;</li> </ul>						

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
		<ul> <li>Measures should be taken to minimize the ingress 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;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>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 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</li> </ul>						

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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
		<ul> <li>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;</li> <li>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;</li> <li>Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts;</li> <li>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;</li> <li>Adopt best management practices;</li> <li>All earth works 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.</li> </ul>						
S6.9.1.2	W2	<ul> <li><u>Tunneling Works and Underground Works</u></li> <li>Cut-&amp;-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.</li> <li>Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge;</li> </ul>	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-DSS</li> <li>TM-EIAO</li> </ul>	N/A

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
		<ul> <li>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;</li> <li>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.</li> </ul>						
S6.9.1.3	W3	<ul> <li>Sewage Effluent</li> <li>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.</li> </ul>	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> </ul>	Implemented
\$6.9.1.5	W4	<ul> <li>Groundwater from Potential Contaminated Area:</li> <li>No direct discharge of groundwater from contaminated areas should be adopted.</li> <li>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</li> </ul>	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> <li>TM-EIAO</li> </ul>	Implemented

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
		<ul> <li>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 recharged into the ground.</li> <li>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.</li> <li>If groundwater recharging wells are deployed, recharging the contaminated groundwater plant 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 at the recharge well. Prior to recharge,</li> </ul>						

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
		any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						
S6.9.1.6	W6	<ul> <li><u>Accidental Spillage</u></li> <li>In order to prevent accidental spillage of chemicals, the following is recommended:</li> <li>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;</li> <li>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.</li> <li>Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	Implemented
			Waste Managem	ent (Construction Wa	ste)			
S7.4.1	WM1	<ul> <li>On-site sorting of C&amp;D material</li> <li>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 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</li> </ul>	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

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
\$7.5.1	WM2	<ul> <li>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.</li> <li>Construction and Demolition Material</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>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&amp;D materials and to minimize their generation during the course of construction.</li> </ul>	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	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address Good site	Implementation Agent	Location / Timing All	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
57.5.1	WM3	<ul> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&amp;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;</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;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 sites should be considered for such segregation and storage.</li> </ul>	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	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	Implemented
\$7.5.1	WM4	<ul> <li>Excavated Contaminated Soils</li> <li>Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>GN/GM for land contamination</li> </ul>	Implemented

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
S7.5.1	WM5	<ul> <li>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;</li> <li>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;</li> <li>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 approved locations;</li> <li>Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.</li> <li>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;</li> <li>The Contractors shall comply with the conditions in the dumping license.</li> <li>All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material;</li> <li>The material shall be placed into the disposal pit by bottom dumping;</li> </ul>	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	Implemented

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
		<ul> <li>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;</li> <li>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.</li> <li>For Type 3 special disposal treatment, sealing of 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.</li> </ul>						
S7.5.1	WM6	<ul> <li>Chemical Waste</li> <li>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;</li> <li>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</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	Implemented after observation

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
		<ul> <li>Chinese in accordance with instructions prescribed in Schedule 2 of the regulation;</li> <li>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 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;</li> <li>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.</li> </ul>						
S7.5.1	WM7	<ul> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes;</li> <li>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.</li> <li>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;</li> </ul>	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	Implemented after reminder

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
		• Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.						
			Land	Contamination				
S8.9 & Appendix 8.4	LC2	<ul> <li>Excavation of the Contaminated Soil</li> <li>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.</li> <li>The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.</li> <li>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.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>Guidance Notes for Contaminated Land Assessment and Remediation</li> <li>Guidance Manual for Use of Risk-Based</li> </ul>	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:     Locations Testing requirement Acceptance Criteria     PBH4 PCBs RBRGs (Public Park)					Remediation Goals (RBRGs) for Contaminated Land Management	N/A

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
Appendix 8.4	LC4	<ul> <li>If the results of analysis below the RBRGs (Public Park), no further excavation will be required.</li> <li>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.</li> <li>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</li> </ul>						N/A
		construction/development works shall be carried out prior to the endorsement of the RR by EPD.						
			Haz	zard 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 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.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	N/A
\$9.18	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

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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
			Landso	cape & Visual				
S10.10.1 Table 10.11	LV3	<ul> <li><u>Good Site Management</u></li> <li>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.</li> <li>Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	<ul> <li><u>Screen Hoarding</u></li> <li>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.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV5	<ul> <li><u>Lighting Control during Construction</u></li> <li>All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV6	<ul> <li><u>Erosion Control</u></li> <li>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.</li> </ul>	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV7	<u>Tree Protection &amp; 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	<ul> <li>'Guidelines for Tree Risk Management and Assessment Arrangement on an Area</li> </ul>	Implemented

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
S10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> • 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	<ul> <li>Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>Latest recommended horticultural practices from GLTM Section, DEVB</li> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> </ul>	N/A
S10.10.1 Table 10.11	LV9	<ul> <li><u>Compensatory Planting</u></li> <li>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</li> </ul>	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	<ul> <li>ETWB TCW 2/2004</li> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from</li> </ul>	N/A

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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
		<ul> <li>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.</li> <li>Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works 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.</li> </ul>					Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	
S10.10.1 Table 10.11	LV10	<ul> <li>Screen Planting</li> <li>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.</li> </ul>	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	<ul> <li>Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	N/A
S10.10.1 Table 10.11	LV12	<ul> <li><u>Reinstatement</u></li> <li>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</li> </ul>	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	N/A

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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
		relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)						
		C	ultural Heritage In	npact (Constructior	n 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
			EN	A&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	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented
\$13.2- 13.4	EM2	<ul> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual;</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;</li> <li>An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ul>	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented

# Appendix G Monitoring Schedule of the Reporting Month

### Contract No.: HY/2018/02 Central Kowloon Route Section of Kai Tak East

### **Environmental Monitoring Schedule (August 2023)**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1 Impact Dust Monitoring (E-A1)	2	3	4	5
6	7 Impact Dust Monitoring (E-A1)	8	9	10	11	12 Impact Dust Monitoring (E-A1)
13	14	15	16	17	18 Impact Dust Monitoring (E-A1)	19
20	21	22	23	24 Impact Dust Monitoring (E-A1)	25	26
27	28	29	<b>30</b> Impact Dust Monitoring (E-A1)	31	1	2

# Appendix H Calibration Certificates (Air Monitoring)



#### Sibata LD-5R K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Verification Test Date:	9-Oct-22	to	16-Oct-22
Next Verification Test Date:	17-Oct-23		
Unit-under-Test- Model No.	Sibata LD-5R		
Unit-under-Test Serial No.	882110		
Our Report Refrence No.	RPT-22-HVS-	0017	

Standard Equipment Information		
Verification Equipment Type	Tisch's TSP HVS	Tish HVS Calibrator
Standard Equipment Model No.	TE-5170X	TE-5025A
Equipment serial no.	MFC 1049	3465
Last Calibration Date	28-Sep-22	28-Jun-22
Next Calibration Date	28-Nov-22	29-Jun-23

Verification	Date		Time		K-Factor	Counts/ Minute (R)	Total Counts	TSP Sample	Dust Concentration (ug/m3), (C)
Test No.		Start-time	End-time	Elapsed Time (in min)	K-Factor (K=C/R)	x-axis	(TC)	ID No.	y axis
1	9/10/2022	6210.34	6213.34	180.00	0.00087	39.33	7080	R221670/1	34
2	9/10/2022	6213.34	6216.36	181.20	0.00103	63.67	11536	R221670/2	66
3	9/10/2022	6216.36	6221.78	325.20	0.00097	106.33	34580	R221670/3	103
4	16/10/2022	6249.91	6252.92	180.60	0.00103	52.33	9451.4	R221671/1	54
5	16/10/2022	6252.92	6255.92	180.00	0.00113	78.00	14040	R221671/2	88
6	16/10/2022	6255.92	6261.94	361.20	0.00118	70.00	25284	R221671/3	83
					0.00104				

1.0

K-Factor to be inputted in LD-5R (corrected 1 decimal point):

By Linear Regression of y on x:

slope, mh=	1.0425
intercept,ch=	0.1155
*Correlation Coefficient,R=	0.9595

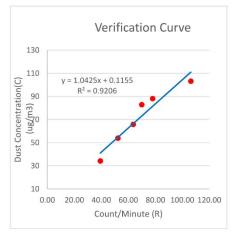
Verification Test Result: Strong Correlation, Results were accepted. \* If the Correlation Coefficient, R is <0.5. Checking and Re-

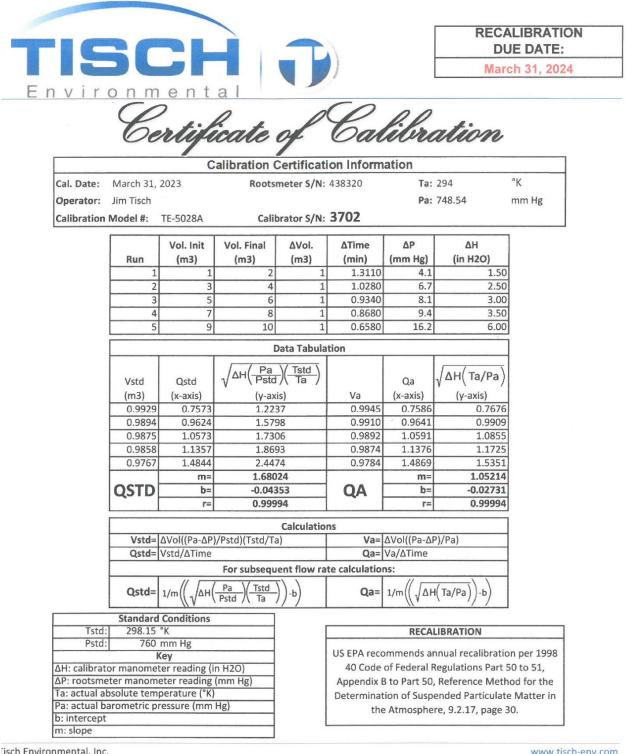
verification are required.

Verified By:

Date: 19-10-2022







isch Environmental, Inc. 145 South Miami Avenue /illage of Cleves, OH 45002 www.tisch-env.com TOLL FREE: (877)263-7610 FAX: (513)467-9009



### aurecon

#### **HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)**

ocation:	EMAX	Site ID:	EA-1	Date:	31-Jul-2023	
erial No:	1049	Model:	TE-5170X	Operator:	Andy Li	
		Ambi	ent Conditio	n		
ctual Pressure o nm Hg):	during Calibration (P <sub>a</sub> )	754.8	Actual Temp Calibration (	erature during Γ <sub>a</sub> ) (deg K):	302.3	
		Calik	oration Orifice	<del>.</del>		
odel:		TE	-5028A	Slope (m <sub>c</sub> ):	1.68024	
Serial No.:		3702				
erial No.:			3702	Intercept (b <sub>c</sub> ):	-0.04353	
erial No.: alibration Due D	Date:	31	3702 -Mar-24	Intercept (b <sub>c</sub> ): Corr. Coeff:	-0.04353 0.99994	
alibration Due D		Cal	-Mar-24	Corr. Coeff:	0.99994	
	∆H₂O	Cali	-Mar-24 bration Data			
alibration Due D		Cali Qa (n	-Mar-24	Corr. Coeff:	0.99994 IC, Y-Axis	
Alibration Due D Plate or Test #	∆H₂O (in)	Cali Qa (n	-Mar-24 bration Data a, X-Axis a <sup>3</sup> /min)	Corr. Coeff:	0.99994 IC, Y-Axis (corrected)	
Plate or Test # 18	Δ <b>H<sub>2</sub>O</b> (in) 11.70	Cali Qa (n	-Mar-24 bration Data , X-Axis n <sup>3</sup> /min) 2.040	Corr. Coeff:	0.99994 IC, Y-Axis (corrected) 59.37	
Plate or Test # 18 13	Δ <b>H<sub>2</sub>O</b> (in) 11.70 9.20	Cali Qa (n	-Mar-24 bration Data I, X-Axis 1 <sup>3</sup> /min) 2.040 1.812	Corr. Coeff:	0.99994 IC, Y-Axis (corrected) 59.37 51.46	

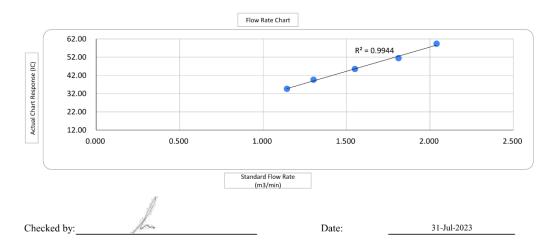
Calculations

 $Qa = 1/m_c*[Sqrt (\Delta H_2O*(P_a/P_{Std})*(T_{Std}/T_a))-b_c]$  $\mathsf{IC} = \mathsf{I}^*(\mathsf{Sqrt}\ (\mathsf{P}_{\mathsf{a}}/\mathsf{P}_{\mathsf{Std}})^*(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{\mathsf{a}}))$ 

Qa = actual flow rate IC = corrected chart response I = actual chart response  $m_c$  = calibrator slope  $b_c$  = calibrator intercept

m = sampler slope b = sampler intercept T<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg

 $T_a$  = actual temperature during calibration (deg K)  $P_a$  = actual pressure during calibration (mm Hg)





### aurecon

#### HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

		Site	Information		
ocation:	EMAX	Site ID:	EA-1	Date:	17-Aug-2023
erial No:	1049	Model:	TE-5170X	Operator:	Andy Li
		Ambi	ent Condition	I	
ctual Pressure nm Hg):	during Calibration (P <sub>a</sub> )	754.0	Actual Tempe Calibration (T		303.2
		Calib	ration Orifice		
odel:		TE	-5028A	Slope (m <sub>c</sub> ):	1.68024
erial No.:			3702	Intercept (b <sub>c</sub> ):	-0.04353
alibration Due I	Date:	31-	-Mar-24	Corr. Coeff:	0.99994
Plate or	∆ <b>H₂O</b>	_	bration Data , X-Axis	I, CFM	IC, Y-Axis
Test #	-			· ·	
	(in)		1 <sup>3</sup> /min)	(chart)	(corrected)
18	12.10		2.070	59.0	58.26
13	9.50		.837	52.0	51.35
10	6.30		.501	43.0	42.46
7	5.20			40.0	39.50
5	4.20			38.0	37.53

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

m=\_\_\_\_\_25.1567

b= 5.5435

Calculations

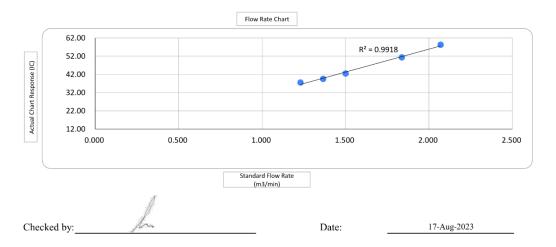
Corr. Coeff= 0.9959

### $\begin{aligned} &\mathsf{Qa} = 1/m_{\mathrm{c}}*[\mathsf{Sqrt}\left(\Delta\mathsf{H}_{2}\mathsf{O}*(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}})*(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a})\right) \text{-} \mathsf{b}_{\mathrm{c}}] \\ &\mathsf{IC} = \mathsf{I}*(\mathsf{Sqrt}\left(\mathsf{P}_{a}/\mathsf{P}_{\mathsf{Std}}\right)*(\mathsf{T}_{\mathsf{Std}}/\mathsf{T}_{a})) \end{aligned}$

 $\begin{array}{l} Qa = actual \ flow \ rate \\ IC = corrected \ chart \ response \\ I = actual \ chart \ response \\ m_c = calibrator \ slope \\ b_c = calibrator \ intercept \end{array}$ 

m = sampler slope b = sampler intercept T<sub>Std</sub> = 298 deg K P<sub>Std</sub> = 760 mm Hg T<sub>a</sub> = actual temperature during cal

 $T_a$  = actual temperature during calibration (deg K)  $P_a$  = actual pressure during calibration (mm Hg)



# Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



# Appendix J Location Plan of Air Quality Monitoring Station



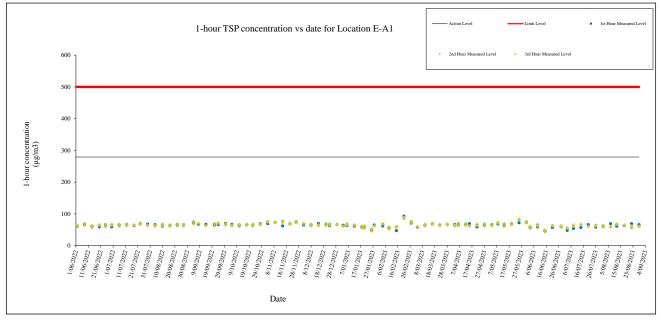
Acuity Sustainability Consulting Limited

# Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	1, 7, 12, 18, 24 and 30 August 2023
Parameter:	1-hour TSP
Other Factors:	Nearby traffic

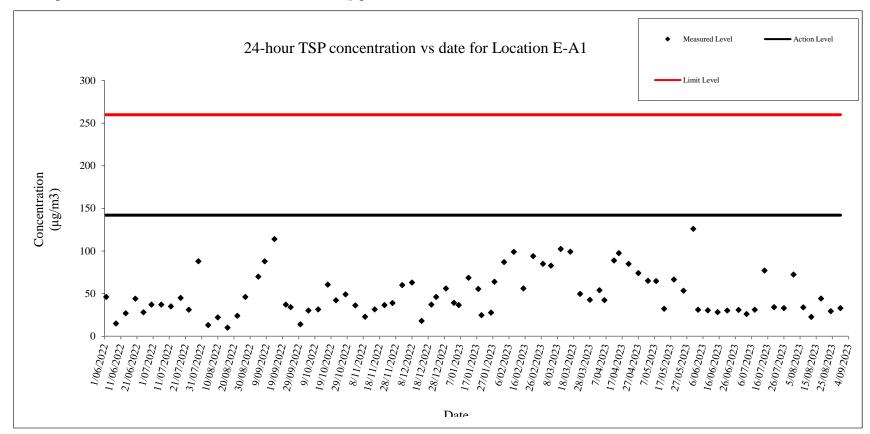
			1-hour TSP (µ	ıg/m³)	
Date	Weather	Start Time	1 <sup>st</sup> hour (μg/m <sup>3</sup> )	2 <sup>nd</sup> hour (μg/m <sup>3</sup> )	3 <sup>rd</sup> hour (μg/m³)
01/08/2023	Fine	13:30	60	63	60
07/08/2023	Fine	13:35	69	59	58
12/08/2023	Fine	13:41	61	67	69
18/08/2023	Fine	13:29	63	64	66
24/08/2023	Fine	13:33	69	57	63
30/08/2023	Fine	13:44	66	61	60

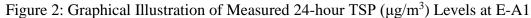
#### Figure 1: Graphical Illustration of Measured 1-hour TSP (µg/m<sup>3</sup>) Levels at E-A1

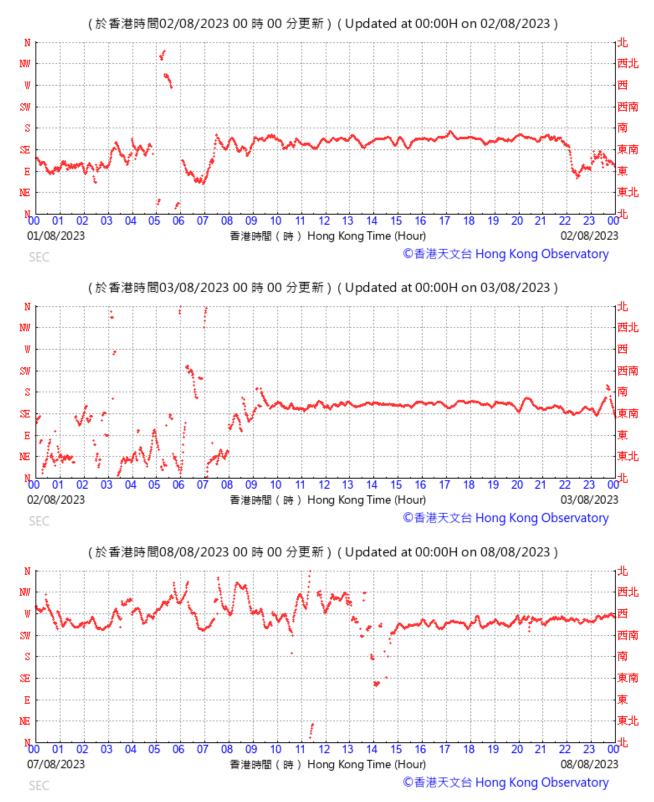


Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	1, 7, 12, 18, 24 and 30 August 2023
Parameter:	24-hour TSP
Other Factors:	Nearby traffic

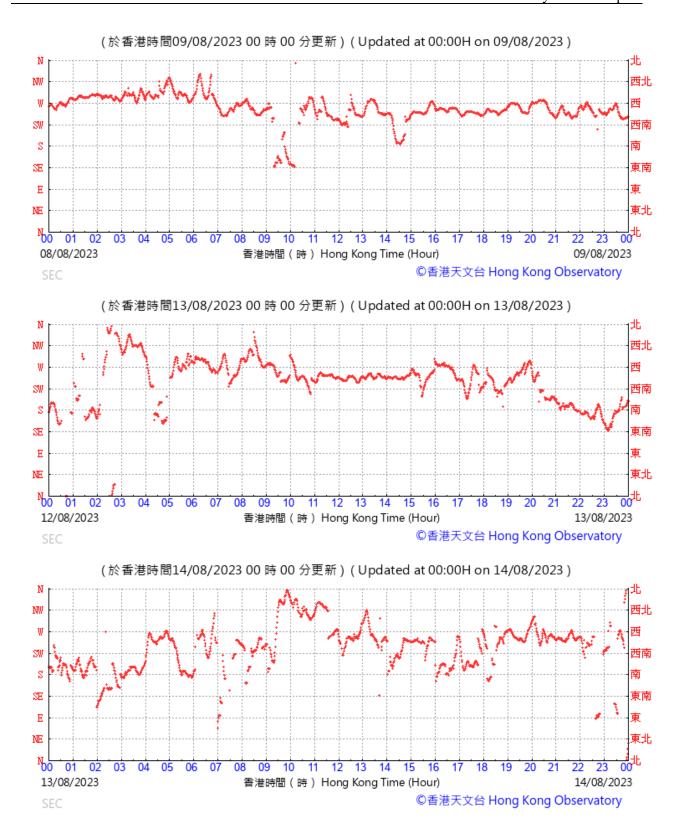
										Date of	Calibration:	31-Jul-23		Slope =	26.5759
										Calibrati	on due date:	14-Aug-23		Intercept =	4.3944
										Date of	Calibration:	17-Aug-23		Slope =	25.1567
										Calibrati	on due date:	31-Aug-23		Intercept =	5.5435
Start Date	Weather Condition		Elapse Time		С	hart Reading	5	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter W	eight (g)	Particulate weight	Conc.
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	$(\mu g/m^3)$
01/08/2023	Fine	7943.66	7967.66	1440.00	46	46	46.0	29.9	1004.2	1.54	2210	2.7134	2.8734	0.1600	72
07/08/2023	Fine	7967.66	7991.66	1440.00	46	46	46.0	30.2	1002.7	1.53	2205	2.6757	2.7504	0.0747	34
12/08/2023	Fine	7991.66	8015.66	1440.00	46	46	46.0	29.3	1003.6	1.54	2211	2.6397	2.6897	0.0500	23
18/08/2023	Fine	8015.66	8039.66	1440.00	46	46	46.0	29.0	1004.9	1.58	2275	2.6621	2.7626	0.1005	44
24/08/2023	Fine	8039.66	8063.66	1440.00	46	46	46.0	29.2	1006.8	1.58	2279	2.6453	2.7123	0.0670	29
30/08/2023	Fine	8063.66	8087.66	1440.00	46	46	46.0	29.1	1003.3	1.58	2270	2.6612	2.7363	0.0751	33
			-					-		-				Min	23
														Max	72
														Average	40

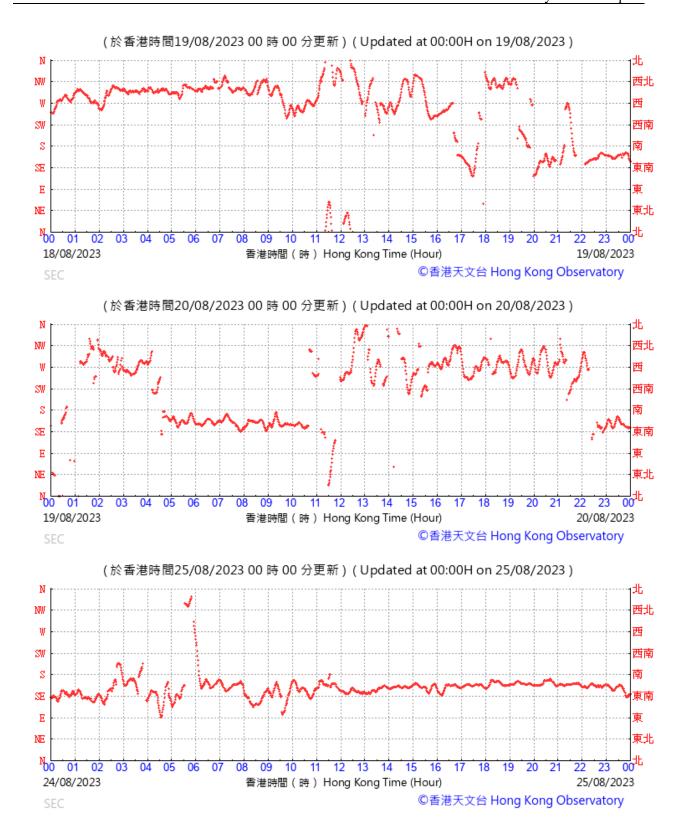


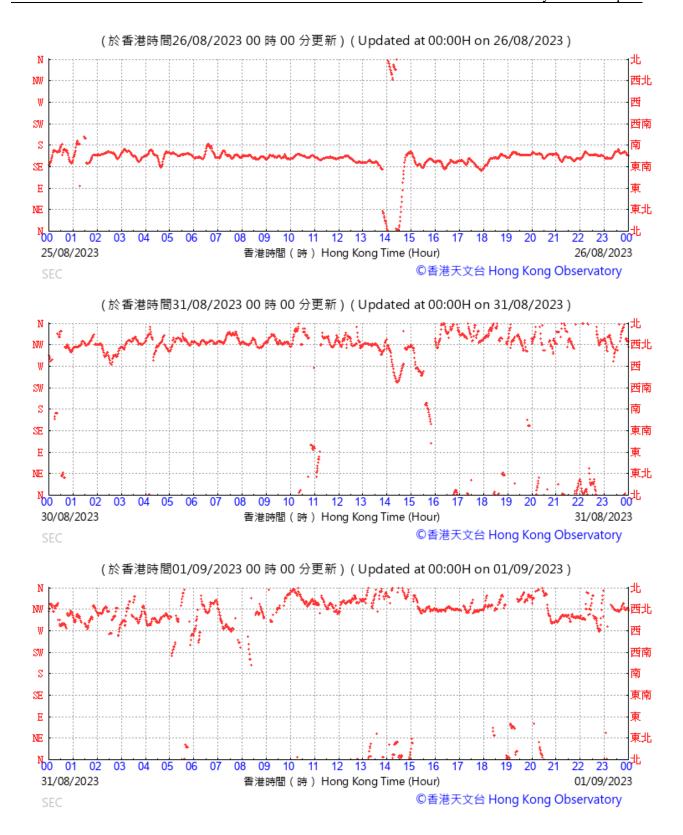


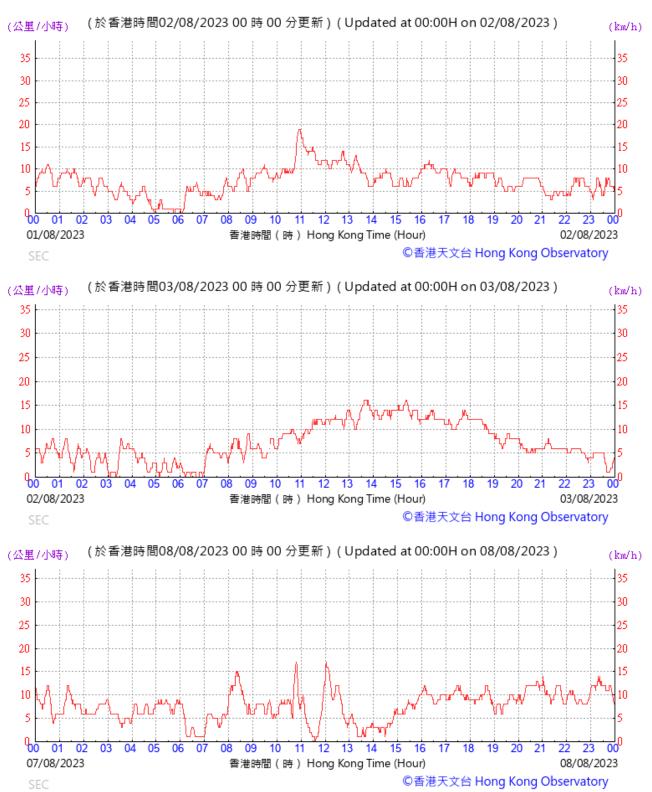


#### WIND DIRECTION DATA FOR 1, 2, 7, 8, 12, 13, 18, 19, 24, 25, 30 and 31 Aug 2023

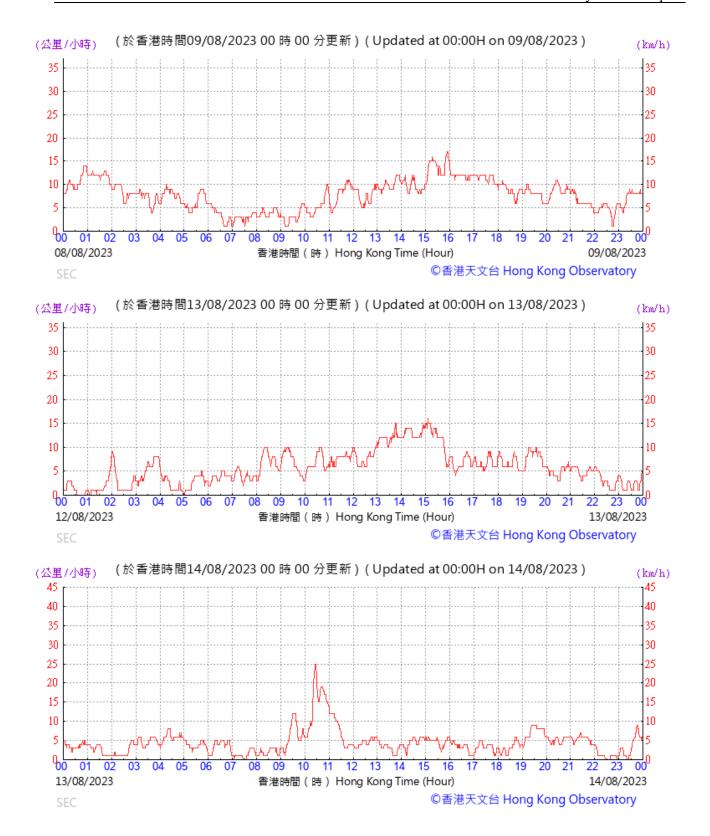


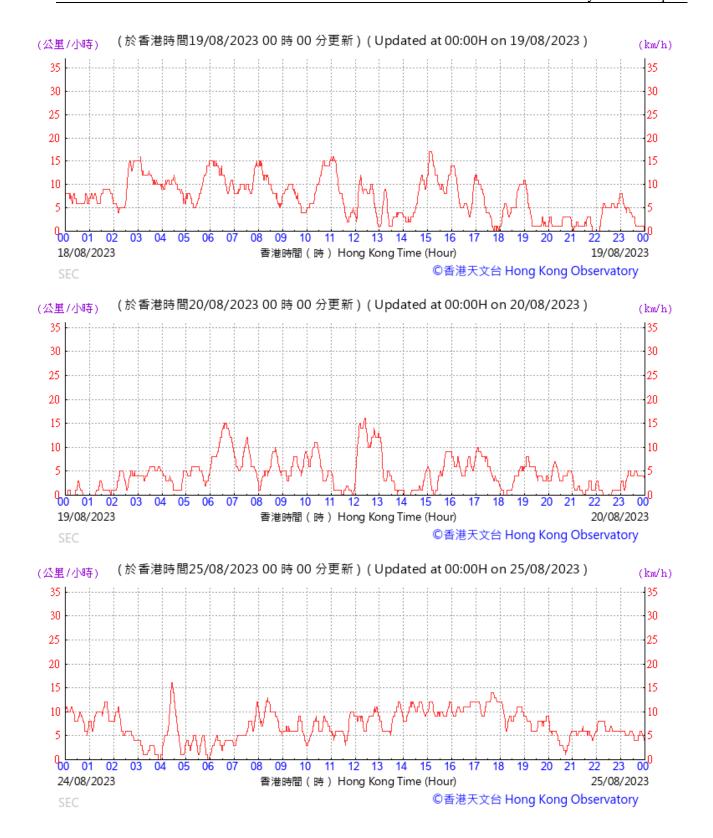


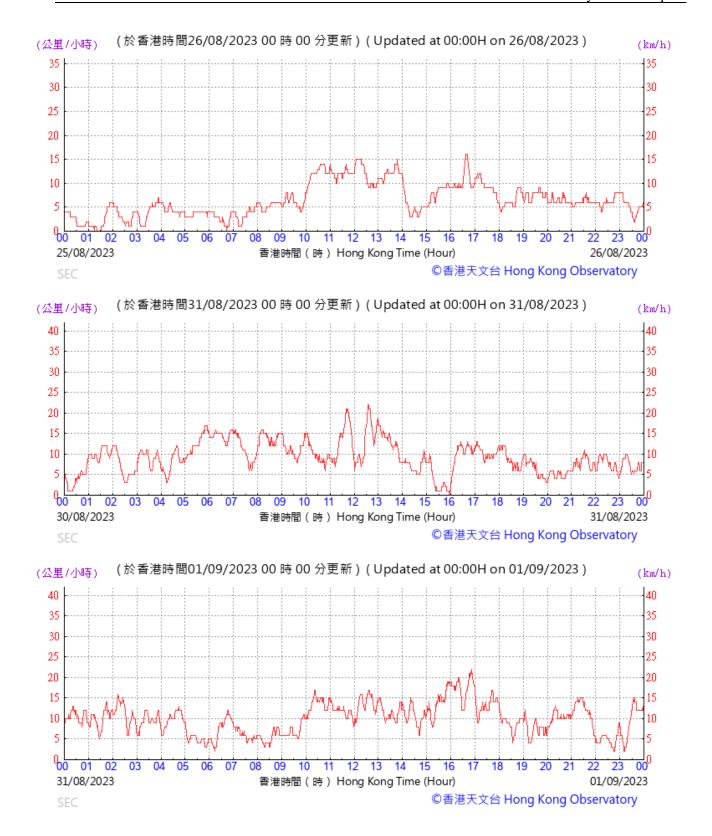




#### WIND SPEED DATA FOR 1, 2, 7, 8, 12, 13, 18, 19, 24, 25, 30 and 31 Aug 2023







## Appendix L Waste Flow Table

Contract No.: HY/2018/02

Central Kowloon Route - Kai Tak East



Name of Department: HyD

#### Monthly Summary Waste Flow Table - August 2023

	Actual Quantities of Inert C&D Material Generated Monthly Actual Quantities of C&D Waste Generated Monthly							у												
Month	Total Qty Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects (KSZHJV)	Reused in other Projects (SFK)		Reused in other Projects (TKO- LTT)		Reused in other Projects (SFK- DH)	Reused in other Projects (Tapbo)	Disposal at Sorting Facility	Disposed as Public Fill	Imported Fill	Metals (Steel)	Metals (Aluminum)	Metals (Copper)	Paper/cardboar d packaging	Plastics	Chemical Waste	Others, e.g. general refuse
	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in '000tonne)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)	(in 'kg)
2019	7.12	0.34	0.14	NIL	NIL	NIL	NIL	0.00	NIL	NIL	NIL	7.88	0.00	22,570.00	0.00	0.00	50.00	0.00	0.00	500,000.00
2020	142.34	0.00	0.14	NIL	4.40	19.47	NIL	10.50	NIL	NIL	0.62	104.95	1.11	207,420.00	48.00	0.00	1,284.00	0.00	0.00	419,060.00
2021	<b>98.11</b>	0.00	0.10	2.28	0.00	13.42	0.17	2.32	1.63	20.50	0.00	57.79	0.00	1028670.00	0.00	0.00	525.00	0.00	0.00	1100340.00
2022	13.34	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.99	0.00	141.03	0.00	0.00	715.00	0.00	80.00	1328300.00
Jan	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	20.00	0.00	0.00	109020.00
Feb	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	100.00	0.00	0.00	131770.00
Mar	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	100.00	0.00	0.00	134850.00
Apr	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	50.00	0.00	0.00	125370.00
May	0.27	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.71	0.00	0.00	0.00	100.00	0.00	0.00	107420.00
June	0.87	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.12	0.00	0.00	0.00	50.00	0.00	0.00	116220.00
July	0.70	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.02	0.00	0.00	0.00	50.00	0.00	0.00	64940.00
Aug	0.43	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	109960.00
Total	264.07	0.34	3.46	2.28	4.40	32.89	0.17	12.83	1.63	20.50	0.62	186.46	2.96	1,258,801.03	48.00	0.00	3,044.00	0.00	80.00	4,247,250.00

# 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

Departing Devied	Environmental Complaint Statistics					
Reporting Period	Frequency	Cumulative	<b>Complaint Nature</b>			
1 August 2023 - 31 August 2023	0	2	N/A			

#### Statistical Summary of Environmental Non-compliance

Departing Devied	Enviro	nmental Non-compliance Sta	tistics
Reporting Period	Frequency	Cumulative	Details
1 August 2023 - 31 August 2023	0	0	N/A

#### Statistical Summary of Environmental Summons

Donouting Douiod	Env	ironmental Summons Statist	ics
Reporting Period	Frequency	Cumulative	Details
1 August 2023 - 31 August 2023	0	0	N/A

#### Statistical Summary of Environmental Prosecution

Donouting Doniod	<b>Environmental Prosecution Statistics</b>					
Reporting Period	Frequency	Cumulative	Details			
1 August 2023	0	0	N/A			
31 August 2023						

# Appendix N Monitoring Schedule of the Coming Month

### Contract No.: HY/2018/02 Central Kowloon Route Section of Kai Tak East

### **Tentative Environmental Monitoring Schedule (September 2023)**

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
3	4	5 Impact Dust Monitoring (E-A1)	6	7	8	9
10	11 Impact Dust Monitoring (E-A1)	12	13	14	15	16 Impact Dust Monitoring (E-A1)
17	18	19	20	21	<b>22</b> Impact Dust Monitoring (E-A1)	23
24	25	26	27	28 Impact Dust Monitoring (E-A1)	29	1

# Central Kowloon Route Buildings, Electrical and Mechanical Works Contract No. HY/2019/13 (Kai Tak East Area)

#### **Gammon Construction Limited**

### Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

### Monthly EM&A Report No. 35 (August 2023)

Version 1.0 Date of Report: 7 September 2023

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

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

CINOTECH accepts no responsibility for changes made to this report by third parties

#### CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk





#### Environmental Permit No. EP-457/2013/D

#### **Central Kowloon Route**

### **Independent Environmental Checker Verification**

Works Contract: Buildings, Electrical and Mechanical Works (HY/2019/1
---

#### **Reference Document/Plan**

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.35
Date of Report:	7 September 2023 (Version 1.0)
Date received by IEC:	7 September 2023

#### **Reference EP Condition**

Environmental Permit Condition:

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.

3.4

#### **IEC Verification**

I hereby verify that the above referenced <del>document</del>/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

11 September 2023

Our ref: 0436942\_IEC Verification Cert\_BEM\_Monthly EM&A Rpt No.35\_20230911.docx

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Pu Pro Co	ckground rpose of the Report oject Organizations onstruction Activities undertaken during the Reporting Month mmary of EM&A Requirements	3 3 4
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3	NOISE	6
	onitoring Requirements	
4	WASTE MANAGEMENT	7
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5	LANDSCAPE AND VISUAL	8
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6	ENVIRONMENTAL AUDIT	9
Im Im Su	e Audits plementation Status of Environmental Mitigation Measures plementation Status of Event and Action Plans mmary of Complaint, Warning, Notification of any Summons and Successful Prosec atus of Required Submission under Environmental Permit	
7	FUTURE KEY ISSUES	11
8	CONCLUSIONS AND RECOMMENDATIONS	12
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Table 6.1	Observations and Recommendations of Site Inspections
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Figure 1.2	Project Organisation for Environmental Monitoring and Audit

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- Appendix B Summary of Waste Generation and Disposal Records
- Appendix C Environmental Mitigation Implementation Schedule (EMIS)
- Appendix D Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

## **EXECUTIVE SUMMARY**

#### Introduction

- This is the 35<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. HY/2019/13 "Central Kowloon Route – Buildings, Electrical and Mechanical Works". This report summarized the monitoring results and audit findings of the EM&A programme under the issued EP No. EP-457/2013/D, and in accordance with the EM&A programme in Kai Tak East Area during the reporting period from 1<sup>st</sup> August 2023 – 31<sup>st</sup> August 2023.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
  - Excavation & sub-structure works.
  - Super-structure works.

## **Environmental Monitoring Works**

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 1, 8, 15, 22, 29 August 2023, whereas joint site inspection with the representative of IEC was conducted on 15 August 2023. The implementation of the environmental mitigation measures, Event and Action Plans and environmental complaint handling procedures were also checked.
- 4. A summary of the non-compliance (exceedance) during the reporting month (August 2023) and the investigation results and/or follow-up actions is provided below:

#### Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

#### Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

## **Complaint Handling, Prosecution and Public Engagement**

5. Summary of complaint/summons/prosecution in the reporting month is tabulated in **Table I**.

Table 1 S	uninary of Col	inplaint/Summons/F	rosecution in the Kept	orung Monun			
Event	Eve	nt Details	Follow-up/ Remedial	Status/ Remarks			
Event	Number	<b>Brief Description</b>	Actions				
Complaints	0	_					
Received	0		_	-			
Notification of							
Summons and	0						
Prosecutions	0	-	-	-			
Received							

## Table I Summary of Complaint/Summons/Prosecution in the Reporting Month

## **Reporting Changes**

6. There were no reporting changes during the reporting month.

## **Future Key Issues**

- 7. The key works or activities will be anticipated in the coming two months are as follows:
  - Excavation & sub-structure works.
  - Super-structure works.
  - ABWF works

## 1 INTRODUCTION

#### Background

- 1.1 Central Kowloon Route (CKR) is a 4.7km long dual 3-lane trunk road across Central Kowloon linking Yau Ma Tei Interchange in West Kowloon and the road network at Kai Tak Development and Kowloon Bay in East Kowloon. The underground tunnel section will be about 3.9km long. In particular, an underground tunnel of about 370m long in Kowloon Bay to the north of To Kwa Wan Typhoon Shelter will be constructed.
- 1.2 The Environmental Impact Assessment Report for Central Kowloon Route Design and Construction (Register No.: AEIAR-171/2013) was approved under the Environmental Impact Assessment Ordinance (EIAO) on 11 July 2013. An Environmental Permit (EP No.: EP-457/2013) was issued on 9 August 2013. Variations of Environmental Permit (VEP) was subsequently applied and an EP (EP No. EP-457/2013/C) was issued on 16 January 2017. The latest EP (EP No. EP-457/2013/D) was issued by Environmental Protection Department (EPD) on 15 June 2021.
- 1.3 The construction of the CKR had been divided into different sections. This Contract No. HY/2019/13 Central Kowloon Route Buildings, Electrical and Mechanical Works ("The Project") will include the architectural, civil and structural construction works of Yau Ma Tei Ventilation Building (YVB), Ho Man Tin Ventilation Building (HVB), Kai Tak Ventilation Building (KVB) and Central Kowloon Route Administration Building (ADB) for the CKR. The landscaping and electrical and mechanical (E&M) works within the building sites will be involved as well.
- 1.4 Cinotech Consultants Limited was assigned as the Environmental Team (ET) to undertake the EM&A works for the Project. The construction of this Contract was commenced on 12<sup>th</sup> December 2020.

## **Purpose of the Report**

1.5 This is the 35<sup>th</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in Kai Tak East Area during the reporting period from 1<sup>st</sup> August 2023 – 31<sup>st</sup> August 2023. The Kai Tak East Area site layout plan for the Project is shown in Figure 1.1.

## **Project Organizations**

- 1.6 Different Parties with different levels of involvement in the project organization include:
  - Project Proponent Highways Department (HyD)
  - Engineer Representative (ER) Arup Mott MacDonald Joint Venture (AMMJV)
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) Environmental Resources Management Hong Kong Limited (ERM)
  - Contractor Gammon Construction Limited (GCL)

#### 1.7 The key contacts of the Project are shown in **Table 1.1**.

Party	Role	<b>Contact Person</b>	Phone No.
AMMJV	Engineer Representative	Mr. Tommy Wong	3695 0419
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
ERM	Independent Environmental Checker	Ms. Mandy To	2271 3113
GCL	Contractor	Mr. Harry Lam	9353 6141

## Table 1.1 Key Project Contacts

1.8 The Organizational Structure for Environmental Management is shown in **Figure 1.2**.

#### **Construction Activities undertaken during the Reporting Month**

- 1.9 The construction programme is presented in **Appendix A**.
- 1.10 The major site activities undertaken in the reporting month included:
  - Excavation & sub-structure works.
  - Super-structure works.

#### Summary of EM&A Requirements

- 1.11 The EM&A programme requires air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:
  - Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.

## **Statues of Environmental Licensing and Permitting**

1.13 All permits/licenses obtained for the Project are summarized in Table 1.2.

## Table 1.2 Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid P	Status						
Permit / License No.	From	То	Status					
<b>Environmental Permit (EP)</b>								
EP-457/2013/D	N/A	Valid						
Notification of Construction Works under Air Pollution Control Ordinance (APCO)								
457346	19 Jun 2020	End of Project	Valid					
Billing Account for Construction W	Vaste Disposal							
7037679	26 Jun 2020	N/A	Valid					
Registration of Chemical Waste Producer – Kai Tak								
5211-286-G2347-54	15 Jul 2020	N/A	Valid					
Wastewater Discharge Licence - Ka	ai Tak							
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid					
Construction Noise Permit - Kai Ta	ak Site (General Worl	ks [grouting, piling	g])					
GW-RE0271-23	30 Mar 2023	31 Aug 2023	Valid					
Construction Noise Permit for Wor	ks at 2nd office							
GW-RE0292-23	2 Apr 2023	1 Sep 2023	Valid					
Wastewater Discharge Licence at F	Kai Tak Site office							
WT00041796-2022	20 Sep 2022	30 Sep 2027	Valid					

## 2 AIR QUALITY

#### **Monitoring Requirements**

2.1 As all of the air quality (1-hour TSP and 24-hour TSP) monitoring works in Kai Tak East Area are currently covered under the Contract No. HY/2018/02 (Central Kowloon Route - Kai Tak East), the corresponding monitoring parameters, equipment, methodology, results and established Action and Limit Levels could be referred to Section 3 of the EM&A report for Contract No. HY/2018/02 during this reporting month.

#### Observations

- 2.2 No Action/Limit Level exceedance was recorded for all 1-hour TSP and 24-hour TSP monitoring in the reporting month.
- 2.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

## 3 NOISE

#### **Monitoring Requirements**

3.1 As no Noise Sensitive Receiver (NSR) is located within 300m from the boundary of Kai Tak East Area, no construction noise monitoring is required in Kai Tak East Area for this Project.

## Observations

3.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of construction noise mitigation measures within the site boundaries of this Project. The summary of site audits is shown in **Table 6.1** of this report.

## 4 WASTE MANAGEMENT

#### **Monitoring Requirements**

4.1 Waste generated from this Project includes inert construction and demolition (C&D) materials and non-inert C&D materials. Inert C&D waste includes soil, broken rock, broken concrete and building debris, while non-inert C&D materials are made up of C&D waste which cannot be reused or recycled and has to be disposed of at the designated landfill sites.

#### **Results and Observations**

4.2 The quantities of different types of waste generated in the reporting month are summarised in **Table 4.1**. Details of the amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix B**.

	Quantity														
	Inert C&I	) Materials		Non-inert C&D Materials											
Reporting Period	Total Quantity Generated (in '000m <sup>3</sup> )	Disposed as Public Fill (in '000m <sup>3</sup> )	Others, e.g. general refuse (in '000m <sup>3</sup> )	Metals (in '000kg)	Paper/cardboard Packaging (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)								
August 2023	0.072	0.072	0.329	0	0	0	0								

 Table 4.1 Quantities of Waste Generated from the Project

4.3 Site audits were carried out on a weekly basis to monitor and audit to ensure that proper storage, transportation, and disposal practices of waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse are being implemented. The summary of site audits is shown in **Table 6.1** of this report. The implementation status of the waste/chemical management measures in the reporting period are summarized in **Appendix C**.

## 5 LANDSCAPE AND VISUAL

#### **Monitoring Requirements**

5.1 According to the EM&A Manual, site audits would be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Site inspections of the implementation of landscape and visual mitigation measures would be undertaken at least once every two weeks during the construction period.

#### **Results and Observations**

- 5.2 Bi-weekly inspection of the implementation of landscape and visual mitigation measures within the site boundaries of this Project was conducted on 1, 15 & 29 August 2023. The implementation status of the landscape and visual mitigation measures in the reporting period are summarized in **Appendix C**. The summary of observations and recommendations made for landscape and visual mitigation measures during site audits are shown in **Table 6.1** of this report.
- 5.3 No non-compliance of the landscape and visual impact was recorded in the reporting month.

#### 6 ENVIRONMENTAL AUDIT

#### Site Audits

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 Site audits were conducted on 1, 8, 15, 22 & 29 August 2023 in the reporting month. Joint site inspection with the representative of IEC was conducted on 15 August 2023. No non-compliance was observed during the site audit.

#### **Implementation Status of Environmental Mitigation Measures**

- 6.3 According to Environmental Permit, the approved EIA Report (Register No.: AEIAR-171/2013), and the EM&A Manual of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix C**.
- 6.4 The ET weekly site inspections were carried out during the reporting month and the observations and follow-up actions in Kai Tak East Area are summarized in **Table 6.1**.

Parameters	Date	Observations	Follow-up Actions
Water Quality	8, 15 August 2023	Ponding water should be removed.	Ponding water has been removed.
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A
Waste / Chemical Management	8 August 2023	General refuse should be removed	General refuse has been removed.
Land Contamination	N/A	No environmental deficiency was identified in the reporting period.	N/A
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A
Permits /Licences	N/A	No environmental deficiency was identified in the reporting period.	N/A

 Table 6.1 Observations and Recommendations of Site Inspections

## **Implementation Status of Event and Action Plans**

6.5 The Event and Action Plans for noise could be referred to **Appendix D** of the EM&A report in Contract No. HY/2018/02.

#### Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP was recorded.
- No Action/Limit Level exceedance for 24-hour TSP was recorded.

#### Landscape and Visual Monitoring

• No non-conformity for landscape and visual was recorded.

# Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

6.6 No environmental complaint and no warning, notifications of summons and successful prosecutions was received in the reporting month. The summary of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix D**.

#### Status of Required Submission under Environmental Permit

6.7 Status of required submission under EP-457/2013/D during the reporting period are summarized in **Table 6.2**.

#### Table 6.2 Status of Required Submission under Environmental Permit

EP Condition (EP-457/2013/D)	Submission	Submission Date
Condition 3.4	Monthly EM&A Report (July 2023)	11 August 2023

## 7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
  - Excavation & Sub-structure Works.
  - Super-structure works
  - ABWF works
- 7.2 Key environmental issues in the coming two months include:
  - Stockpile accumulation on-site;
  - Water spraying for dust generating activities and on haul road;
  - Wastewater and runoff discharge from site;
  - Coverage of open manholes to avoid dirty runoff to drainage system;
  - Noise from operation of the equipment, especially for excavation works and machinery onsite;
  - Accumulation of general refuse and construction waste on-site;
  - Proper storage of construction materials on-site; and
  - Storage of chemicals/fuel and chemical waste/waste oil on-site.

## 8 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

8.1 This is the 35<sup>th</sup> Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1<sup>st</sup> August 2023 – 31<sup>st</sup> August 2023 in accordance with the EM&A Manual and the requirements under the EP.

#### Air Quality Monitoring

8.2 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.

Landscape and visual

8.3 No non-compliance was recorded in the reporting month.

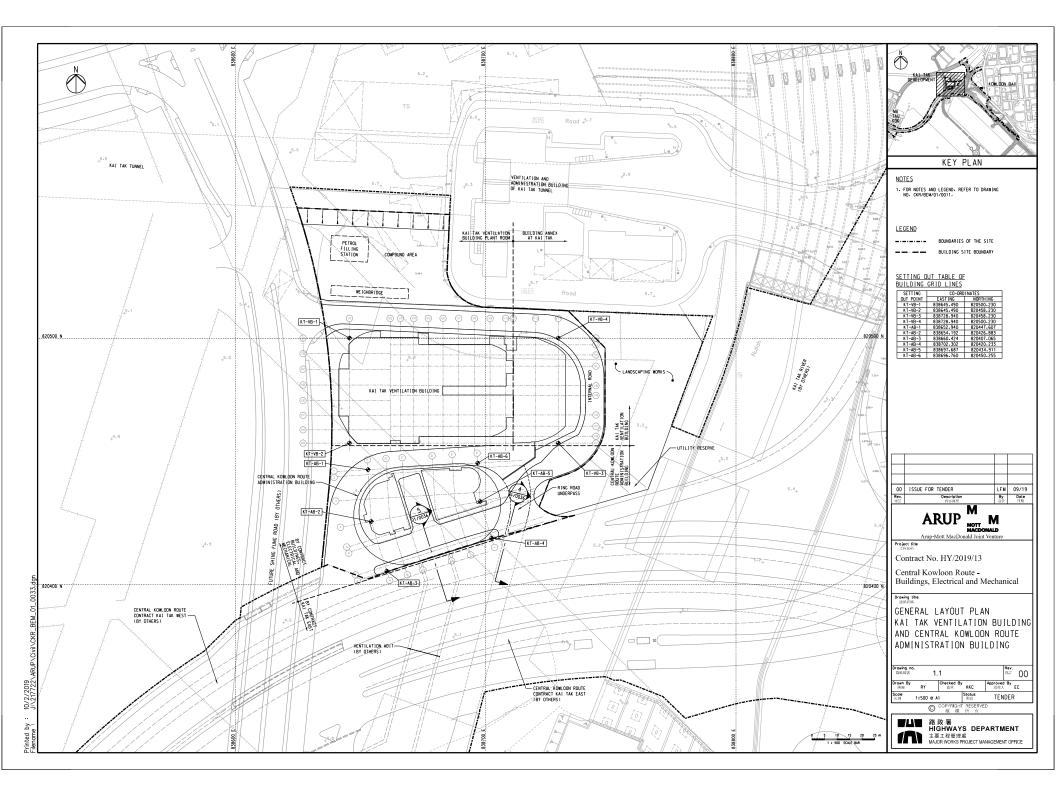
#### Site Audit

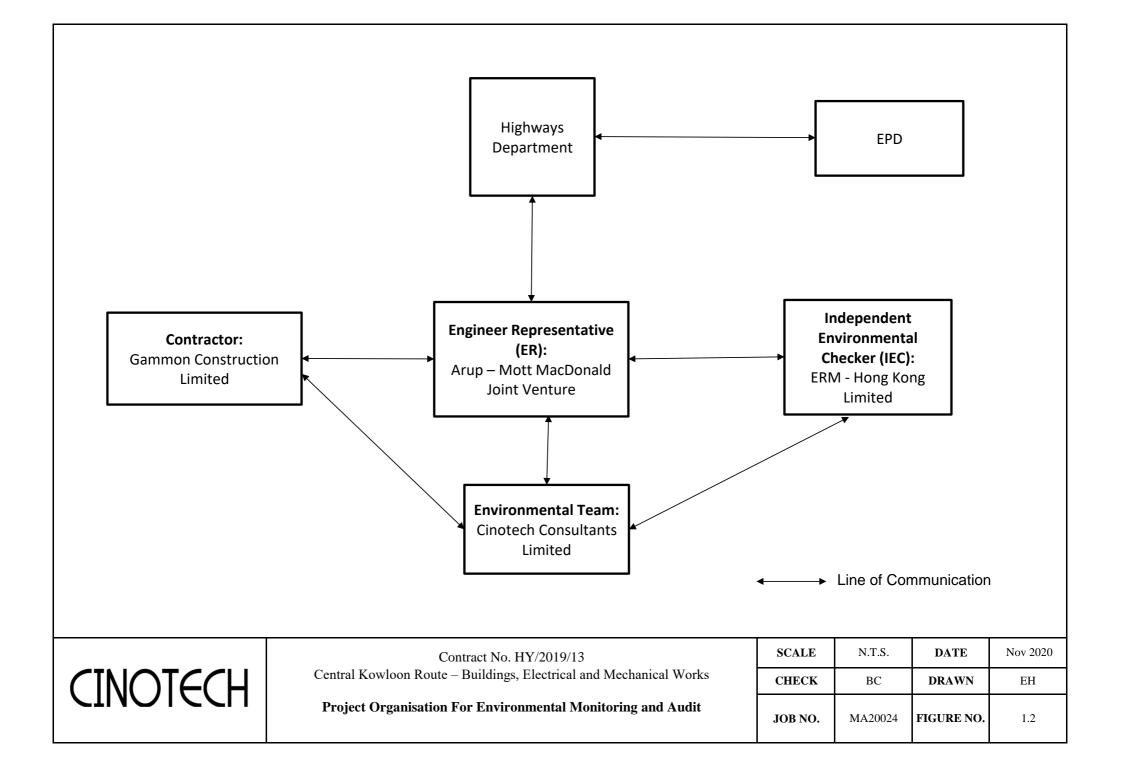
8.4 5 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 1, 8, 15, 22 & 29 August 2023, whereas joint site inspection with the representative of IEC was conducted on 15 August 2023. All environmental deficiencies observed during site inspections were rectified by the Contractor.

#### Complaint, Notification of Summons and Successful Prosecution

8.5 No environmental complaint and no notifications of summons and successful prosecutions were received in the reporting month.

FIGURES

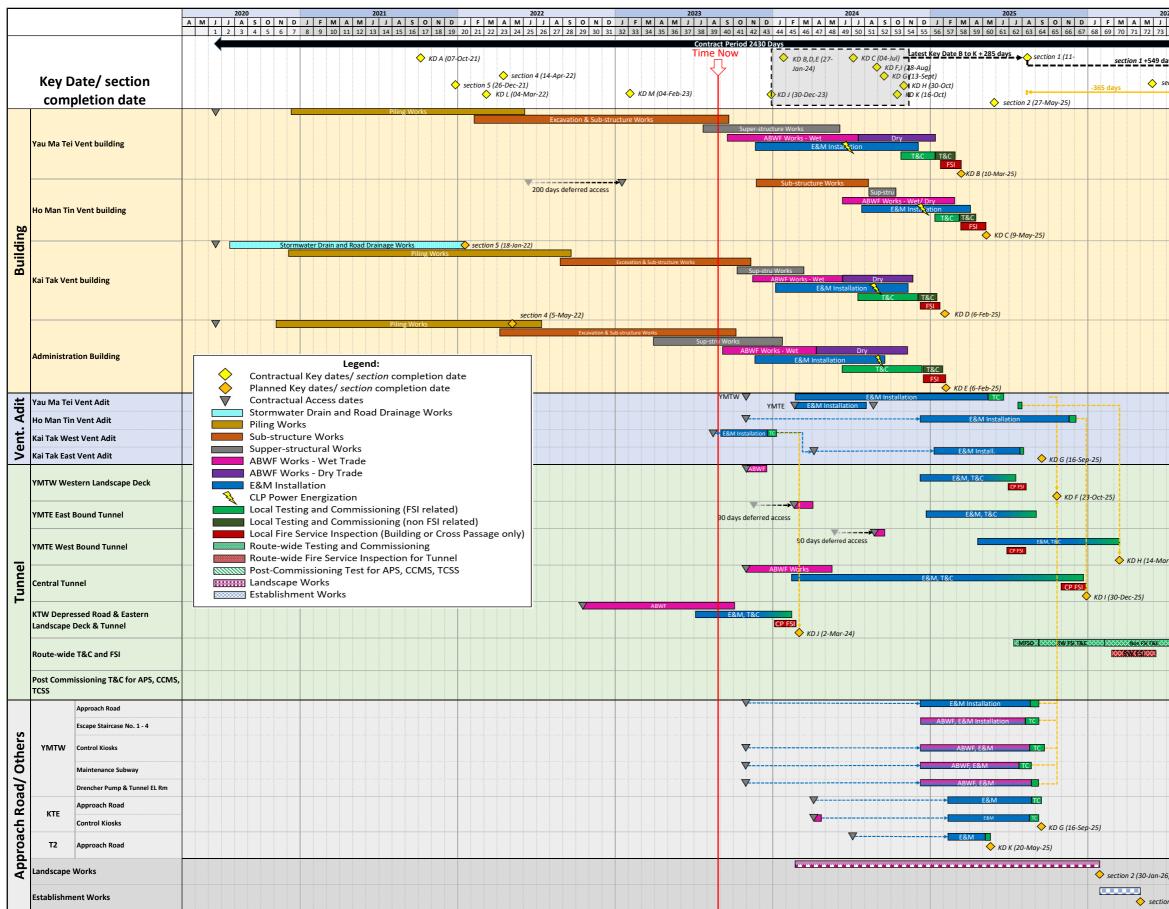




APPENDIX A CONSTRUCTION PROGRAMME



#### Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works Summary Programme





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APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

#### **Monthly Summary Waste Flow Table**

[PS Clauses 25.24(11)S & 25.34(16)(a)]

Annex 4 to Appendix C

Name of Department: HyD

Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works

Kai Tak Site Area

Monthly Summary Waste Flow Table for 2023 (y	year)	
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		Actual Quanti	tes of Inert C&D	Materials Genera	ted Monthly		Actual Quantites of C&D Waste Generated Monthly						
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.	
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse	
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)	
		(see Note 5)											
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)	
Jan	1.576	0.000	0.000	0.000	1.576	0.000	0.000	0.000	0.000	0.000	0.000	0.087	
Feb	10.209	0.000	0.000	0.000	10.209	0.000	0.000	0.000	0.000	0.000	0.000	0.066	
Mar	12.409	0.000	0.000	0.000	12.409	0.000	0.000	0.000	0.000	0.000	0.000	0.135	
Apr	5.538	0.000	0.000	0.000	5.538	0.000	0.000	0.000	0.000	0.000	0.000	0.248	
May	3.511	0.000	0.000	0.000	3.511	0.000	0.000	0.000	0.000	0.000	0.000	0.355	
Jun	1.507	0.000	0.000	0.000	1.507	0.000	0.000	0.000	0.000	0.000	0.000	0.426	
Sub-Total	34.750	0.000	0.000	0.000	34.750	0.000	0.000	0.000	0.000	0.000	0.000	1.317	
Jul	0.055	0.000	0.000	0.000	0.055	0.000	0.000	0.000	0.000	0.000	0.000	0.453	
Aug	0.072	0.000	0.000	0.000	0.072	0.000	0.000	0.000	0.000	0.000	0.000	0.329	
Sep													
Oct													
Nov													
Dec													
Total (2023)	34.878	0.000	0.000	0.000	34.878	0.000	0.000	0.000	0.000	0.000	0.000	2.099	
Total (whole)	103.817	0.000	0.782	2.615	100.419	0.000	0.000	0.000	0.000	1.080	0.000	2.896	

Note:

(1) The performance targets are given in PS Clause 25.24

(2) The waste flow table shall also include C&D materails that are specified in the Contract to be imported for use at the Sites.

(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials, and water barriers

(4)

The summary table shall be submitted to the Project Manager monthly together with the Waste Flow Table for review and monitoring in accordance with the PS Clause 25.24 (5) Density values and Bulk Factors adopted:

Hard Rock and Large Broken Concrete:	2.4 T/m3 (in-situ)	Bulk Factor:	1.25
Soil / Fill:	2.0 T/m3 (in-situ)	Bulk Factor:	1.1
Marine Sediment:	1.7 T/m3 (in-situ)	Bulk Factor:	1.3
General Refuse:	400 kg/m3		
Chemical Waste (mainly used lubricant):	900 kg/m3		
Tree Trunk / Tree Stump:	850 kg/m3 (in-situ)	Bulk Factor:	1.1

(6) The reported and forecast volume figures are in "bulk" volume, with Bulk Factor applied as per Note (5)

(7) This figure refers to marine sediment disposed via dumping at sea. Treated Sediment for Reuse on-site will be categorized into "Reused in the Contract"

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction S4.3.10	n Dust Impact D1	The contractor shall follow the procedures and requirements given in the Air	Minimize dust	Contractor	A 11	Construction	- APCO	^
34.3.10		Pollution Control (Construction Dust) Regulation	impact at the nearby sensitive receivers	Contractor	All construction sites	stage	- To control the dust impact to meet HKAQO and TM-EIA criteria	
S4.3.10		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/m2 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	۸
\$4.3.10		Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the	Contractor	All construction sites	Construction stage	- APCO - To control the dust	۸
		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.	nearby sensitive receivers				impact to meet HKAQO and TM-EIA criteria	^
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads.						۸
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						۸
		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.						۸
		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.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						Δ
		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.						٨
		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 continuously.						٨
		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						٨
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						٨
		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						۸
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		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.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						N/A
\$4.3.10	D6		Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	٨
Construction	n Noise (Airbor	ne)		•		•		
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨
		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.						۸
		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.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						٨
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	-					N/A
S5.4.1	N2	1 9 8	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$5.4.1	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 plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
S5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
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	۸
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	^
\$5.4.1	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	N/A
Water Quali	ity (Construction					•		
S6.9.1.1	W1	<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.	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	~

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
		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 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.						۸
		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.						N/A
		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.						N/A
		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 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.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
		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.						٨
		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.						٨
		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 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.						٨
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.						٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
		Adopt best management practices.						٨
		All earth works 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.						۸
\$6.9.1.2	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.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	N/A
		Uncontaminated discharge should pass through sedimentation tanks prior to off- site discharge.					- IM-DSS	N/A
		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.						N/A
		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.						N/A
S6.9.1.3	W3	<u>Sewage Effluent</u> 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	٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status					
\$6.9.1.5	W4	Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted.	U	Contractor	Excavation areas where	Construction stage	- Water Pollution Control Ordinance	۸					
		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 recharged into the ground.	quality impact from contaminated area		contamination is found		- TM-EIAO - TM-DSS	A					
		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.											Λ
		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 at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						N/A					

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.6	W6	Accidental Spillage 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.	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	<ul> <li>Water Pollution</li> <li>Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	٨
		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.					- 1M-D35	۸
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						٨
	8	ruction Waste)	T	1	r	r	,	
S7.4.1	WM1	<u>On-site sorting of C&amp;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 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.	turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	Α

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.	Good site practice to minimize the waste generation and recycle the	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> </ul>	۸
		Carry out on-site sorting.	C&D materials as				· ETWB TCW No.	^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate	far as practicable so as to reduce the amount for final				19/2005	۸
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.	disposal		N/A			
		Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.					<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	۸
		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.						۸
S7.5.1		<u>C&amp;D Waste</u> 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.	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		^
		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 sites should be considered for such segregation and storage.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
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 commencemen t of construction works within the contaminated	Practice Guide (PG) for Investigation and Remediation of Contaminated Land · GN/GM for land contamination	۸
\$7.5.1	WM5	Land-based and Marine-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.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	۸
		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.						N/A
		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 approved locations.						N/A
		Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.						N/A
		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.						N/A
		The Contractors shall comply with the conditions in the dumping licence.						۸
		All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.						N/A
		The material shall be placed into the disposal pit by bottom dumping.	1					N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						N/A
		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.						N/A
		For Type 3 special disposal treatment, sealing of 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.						N/A
S7.5.1	WM6	<u>Chemical Waste</u> 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.	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	٨
		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.			and Storage of Chemical . Waste	٨		
		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 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.						^

EIA Ref.	EM&A Ref.		Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						۸
\$7.5.1	WM7	General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.production of the general refuse and avoid odour, pest and litter impactsA 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.production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	· Waste Disposal Ordinance	*	
						^		
	collectors if they are segregated and made easily	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 collection. Participation in a local collection scheme should be considered by the Contractor.						^
Land Contai						I		
S8.9 & Appendix 8.4	LC2	Excavation of the Contaminated Soil 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 contaminated soil will be excavated for on- site reuse	Contractor	PBH4	Prior to commencemen t of construction works within the	- Guidance Notes for Contaminated Land	N/A
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.			contaminated A area R U U R (I C	contaminated		N/A
		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.				Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A	

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L			<b></b>					
S9.18	Н8	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 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.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	^
\$9.18	Н9	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	/	۸
Landscape a	nd 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.	Minimize visual Co impact	Contractor	Within Project site	Construction Phase	/	۸
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	1					۸
S10.10.1 Table 10.11	LV4	Screen Hoarding 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 Phase	/	۸
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. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
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 Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	<u>Tree Protection &amp; 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.	1	Contractor	Within Project site		<ul> <li>'Guidelines for Tree</li> <li>Risk Management and</li> <li>Assessment</li> <li>Arrangement on an Area</li> <li>Basis and on a Tree</li> <li>Basis', Greening,</li> <li>Landscape and Tree</li> <li>Management (GLTM)</li> <li>Section, DEVB</li> <li>Latest recommended</li> <li>horticultural practices</li> <li>from GLTM Section,</li> </ul>	N/A
S10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> 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.	visual impact	Contractor	Within Project site and designated off- site locations		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	<u>Compensatory Planting</u> 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.	enhance landscape	Contractor	Within Project site	Construction Phase	ETWB TCW 3/2006     Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB     ETWB TCW 2/2004	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV10	<u>Screen Planting</u> 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	<ul> <li>Guidelines on</li> <li>Greening of Noise</li> <li>Barriers, issued April</li> <li>2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	N/A
S10.10.1 Table 10.11	LV11	<u>Green Roof</u> Roof greening will be established on ventilation and administration buildings to reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels.	Minimize landscape and visual impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV12	<u>Reinstatement</u> 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
S10.10.1 Table 10.11	LV13	Reprovising of Public Open Space All areas of public open space affected by the Project will be reprovisioned either at the same location following the completion of temporary works, or at a separate site, as agreed with relevant Government departments. Open space should be re-provisioned in an enhanced manner.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	Open space should be re-provided in an enhanced manner.	N/A
Cultural Her	ritage Impact (	Construction Phase)						
S11.4.4	CH1		To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	During the Construction Phase	AMOs requirements	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
EM&A Proj	ect							
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	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	۸
\$13.2-13.4	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	٨
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;						۸
		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.						٨

Remarks: E	Remarks: EM&A Programme under EP-457/2013/D					
^	Compliance of mitigation measure;					
N/A N/A(1)	Not applicable at this stage; Not observed;					
*	Recommendation was made during site audit but improved/retified by the contractor;					
#	Recommendation was made during site audit but not yet improved/retified by the contractor;					
Х	Non-compliance of mitigation measure;					
•	Non-compliance but rectified by the contractor.					

APPENDIX D SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

## Contract No. HY/2019/13 Central Kowloon Route – Buildings, Electrical and Mechanical Works

Appendix D – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

## **Reporting Month**: August 2023

Log Ref.	Location	Received Date	Details of Complaint/ warning/ summon and prosecution	Investigation/ Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

**Remarks**: No environmental complaint and warning/summon and prosecution was received in the reporting period.