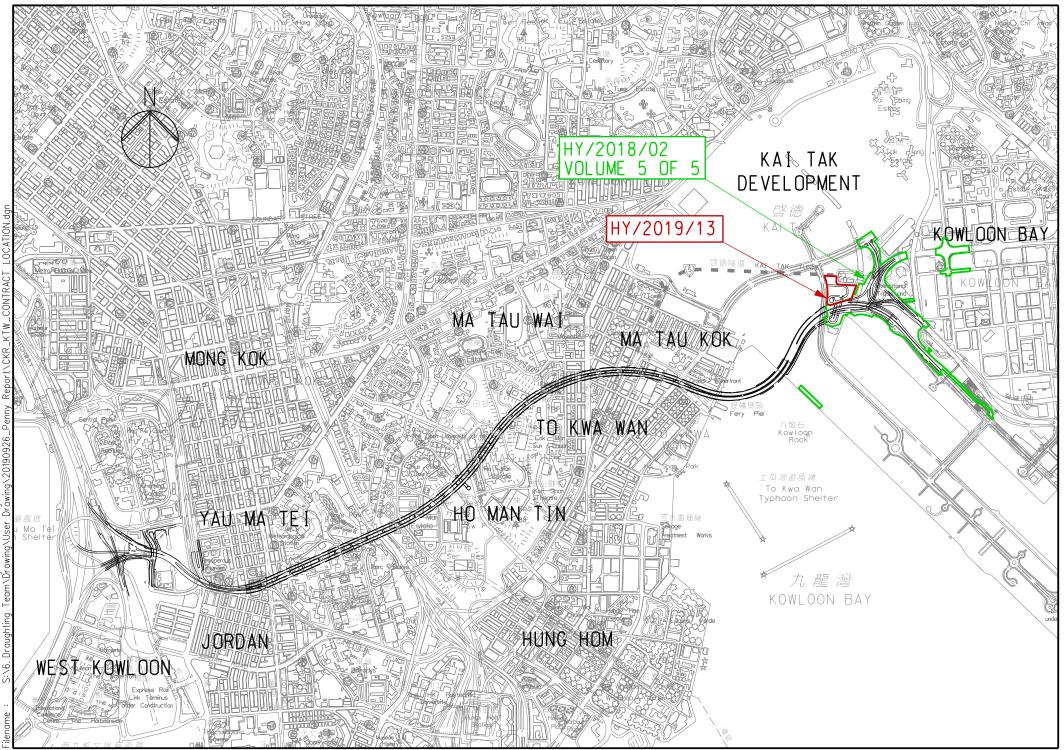
Vol. 5 of 5

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) October 2022



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





Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 38

(Period from 1 to 31 October 2022)

Rev. 1 (8 November 2022)

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





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/ Plan to be Certified/ Verified:	Monthly EM&A Report No.38 (October 2022)
Date of Report:	8 November 2022 (Rev. 1)
Date received by IEC:	8 November 2022

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/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

8 November 2022

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.38.docx

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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 38th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 October 2022 to 31 October 2022.
- A.2 A summary of major Construction activities provided by Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Pile Cap Construction at U Turn, Portion 1A, Portion 3B & Portion 2B
- S1, S4, S9 Bridge construction
- Retaining wall construction at U-Turn & Portion 2B
- Excavation work at Portion 3B
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

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

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 5, 12, 19 and 26 October 2022. A joint site inspection with Independent Environmental Checker (IEC) was undertaken on 5 October 2022. 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 12 and 26 October 2022. 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

- Pile Cap construction at Loop Road, Portion 1A, Portion 3B & Portion 2B
- S1, S3, S4, S9 Bridge construction
- Retaining Wall construction at U-Turn & Portion 2B
- Excavation work at Portion 3B
- Bored pile at U-turn

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

- Pile Cap construction at U-Turn, Portion 1A, Portion 3B & Portion 2B
- S1, S4, S9 Bridge construction
- Retaining Wall construction at U-Turn & Portion 2B
- Excavation work at Portion 3B
- 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 Status of Valid Environmental Licence, Notification, Permit and Documentations

Documentations					
Permit/ Licences/	Valid H	Valid Period			
Notification	From	То	Status	Remark	
/Reference No.	FIOIII	10			
Environmental Permit					
EP-457/2013/D	15-Jun-21		Valid	-	
Wastewater Discharge Lic	ense				
WT00035029-2019	17-Dec-19	31-Dec-24	Valid	-	
Notification of Construction	on Works under	the Air Pollution	on Control (Cor	struction Dust)	
Regulation					
445001	Apr-19	Dec-23	Notified	-	
Chemical Waste Producer	· Registration				
WPN5113-247-A2940-01	17-May-19		Valid	-	
Billing Account for Dispos	al of Construction	on Waste			
7034073	15-Jun-19		Valid	-	
Construction Noise Permi	t				
GW-RE0874-22	17-Sep-22	16-Mar-23	Valid	General Work at Area A	
GW-RE0881-22	13-Sep-22	10-Oct-22	Expired in the reporting period	Portal Erection	
GW-RE0889-22	12-Sep-22	11-Mar-23	Valid	Portion 2B	
GW-RE0903-22	17-Sep-22	16-Mar-23	Valid	General Work at Area B and Site Office	
GW-RE0904-22	29-Sep-22	28-Dec-22	Valid	Kai Cheung U Turns	
GW-RE1043-22	11-Oct-22	18-Nov-22	Valid	Temporary Decking Installation	

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 (September 2022)	11 October 2022

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	882150	27 March 2022
24-hour TSP		1049	28 September 2022
	TE-5170X High Volume Sampler		11 October 2022
			24 October 2022
	TE-5028A Calibration Kit	3702	29 June 2022

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**.

Monitoring Station	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 3.3
 Summary 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 5, 11, 17, 22 and 28 October 2022 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 3.5	Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range (µg/m³)	Action Level(μg/m ³)	Limit Level(µg/m ³)
E-A1	61.0 - 69.0	279	500

Table 3.6Summary of 24-hour TSP Monitoring
--

	U		
Monitoring Location	Range (µg/m³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
E-A1	30 - 61	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)
Oct 2022	0.78	50.00	171230.00	20.00	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	ronmental 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	with the IEC, ET and
		ER.	
		The ER, ET and IEC to 1	eview 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 not	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 action	ons stipulated above, inclu	ding the details of the
remedial measures and	additional monitoring ic	lentified 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, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 5, 12, 19 and 26 October 2022, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 12 and 26 October 2022.
- 6.2. One joint site inspection with IEC also undertaken on 5 October 2022. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.1**.

Date	Environmental Observations	Follow-up Status
5 Oct 2022	1. Drip tray should be provided for chemical	1. Drip tray was provided for
5 Oct 2022	container.	chemical container.
12 Oct 2022	NA	NA
19 Oct 2022	NA	NA
26 Oct 2022	NA	NA

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:

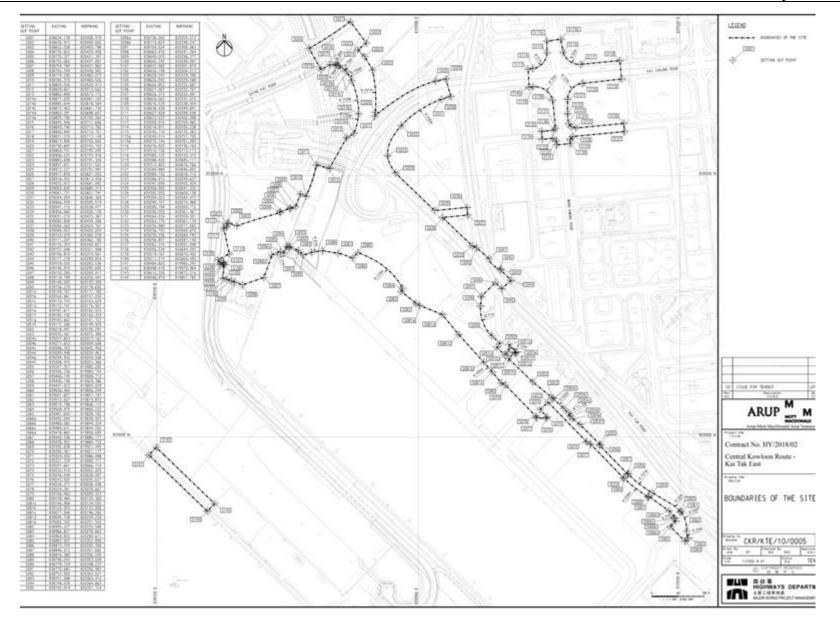
Construction Activities to be undertaken

- Pile Cap construction at Loop Road, Portion 1A, Portion 3B & Portion 2B
- S1, S3, S4, S9 Bridge construction
- Retaining Wall construction at U-Turn & Portion 2B
- Excavation work at Portion 3B
- Bored pile at U-turn
- 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 38th monthly EM&A Report presents the EM&A works undertaken during the period from 1 October 2022 to 31 October 2022 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. Joint site inspection with IEC were carried out on 5 October 2022. 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

ita Date: 25-Sep-22 int Date: 11-Oct-22	2 22:44						Contr e Kow	loon	Rou				ast										Alch	mex -	C Paul Y J	Paul	nture_	
y ID	Activity Name		Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)			Septembe 41	1			Oclober 42			Nove 4	imber 3			December 44		-	Ja	nuary 45	
Central Kowk	oon Route - Kai Tak East (M	onth 41 Update) (Re	576	01-May-21 A	19-Apr-23	15-Jul-22	26-Feb-26	846	559.00	28	04	11	18	25	02 09	16	23	30	06	13 20	27	04	11 1	8 25	01	08	15	22
	RIES AND GENERAL REQUI		148	21-Jul-22 A	20-Jan-23	20-Aug-22	01-Nov-24	521	0.00																			
	Dates and Milestones																											
Key Dates			0	03-Nov-22	03-Nov-22	20-Aug-22	20-Aug-22	-75	0.00																			
Sections of th	a Works			03-Nov-22	03-Nov-22	20-Aug-22	20-Aug-22	-75	0.00																			
	KD08 - Section 8: Completion of struct.	of Vent adit & PD Lindernaccond	0	00110122	03-Nov-22*	Loring LL	20-Aug-22	-75	0.000																			
	Vac.of 1B2,1D2,1D4 (758d fr 1B2)	in valic abili, e inv ondepasario		27-Dec-22	27-Dec-22	27-Dec-22	27-Dec-22	-75	0.00																			
Access Dates					27-080-22		27-080-22		0.00															_				
AD-3C	Access date for Part 3C (1345 days)		0	27-Dec-22*		27-Dec-22		0																1				
	t Safety Audit Scheme ACC D	31(5)	179	21-Jul-22 A	20-Jan-23	07-Jul-24	01-Nov-24	651																				
Safety Aduit				21-Jul-22 A	20-Jan-23	07-Jul-24	01-Nov-24	651	0.00																			
SA-1114	7th Safety Audit at 6 months intervals		0	21-Jul-22 A		07-Jul-24																						
SA-1116	8th Safety Audit at 6 months intervals		0	20-Jan-23		01-Nov-24		651																			•	
Utilities Sche	edule (WSD/DSD/CLP/TG/PC	CW/HKB/ATC/KT Tur	106	29-Jul-22 A	29-Nov-22	03-Jan-24	12-Mar-24	373	0.00																			
Utilities Month	nly Meeting		106	29-Jul-22 A	29-Nov-22	03-Jan-24	12-Mar-24	373	0.00																			
UU-1048	13rd Utilities monthly meeting		0	29-Jul-22 A		03-Jan-24																						
UU-1050	14th Utilities monthly meeting		0	29-Sep-22		06-Jan-24		373						•														
UU-1052	15th Utilities monthly meeting		0	29-Nov-22		12-Mar-24		373													•							
DESIGN AND	DENGINEERING		108	01-Aug-22 A	10-Feb-23	02-Nov-22	12-Jul-23	122	0.00																			
	Works Design & Engineering																											
DES - Kiosks			108	26-Sep-22	10-Feb-23	28-Feb-23	12-Jul-23	122	0.00																			
DES-1228	DES - Prepare preliminary proposal subr	nission	48	26-Sep-22	22-Nov-22	28-Feb-23	28-Apr-23	122																				
DES-1230	DES - Prepare submission of design and		12	23-Nov-22	06-Dec-22	29-Apr-23	13-May-23	122												_		-						
DES-1232	DES - ICE checking and approval			07-Dec-22	20-Dec-22	15-May-23	29-May-23	122															_					
DES-1232	DES - Project Manager checking and app	mund		21-Dec-22	20-Jan-23	30-May-23	27-Jun-23	122																			_	
				21-Jan-23	10-Feb-23	28-Jun-23																						
DES-1236	DES - Prepare submission of details designed	IN	12	21-Jan-23			12-Jul-23	122																				
	Norks Design & Engineering		86		06-Jan-23		24-Apr-23																					
	ary Works for Bridges			26-Sep-22	05-Jan-23	21-Nov-22	24-Apr-23	82	0.00																			
DES_T05 - Te	emp working platform for Bridge S	7 over Kai Cheung Slip Roa	84	26-5ep-22	05-Jan-23	25-Nov-22	24-Apr-23	82	0.00																			
DES-1324	DES - Prepare preliminary proposal subr	nission	36	26-Sep-22	08-Nov-22	25-Nov-22	09-Jan-23	50					1			-	-											
DES-1326	DES - ICE checking and approval		24	09-Nov-22	06-Dec-22	23-Feb-23	22-Mar-23	82											-		1	-						
DES-1328	DES - Project Manager checking and app works	roval; consent to start the Portal	24	07-Dec-22	06-Jan-23	23-Mar-23	24-Apr-23	82														-						
DES_T06 - Te	emp working platform for Bridge S	2 & S8 over KF Rd & KC Rd	84	26-Sep-22	06-Jan-23	25-Nov-22	13-Mar-23	50	0.00																			
DES-1330	DES - Prepare preliminary proposal subr	nission	36	26-Sep-22	08-Nov-22	25-Nov-22	09-Jan-23	50											•									
DES-1332	DES - ICE checking and approval		24	09-Nov-22	06-Dec-22	10-Jan-23	13-Feb-23	50											<u> </u>		+ +	-						
DES-1334	DES - Project Manager checking and app	roval; consent to start the Portal	24	07-Dec-22	06-Jan-23	14-Feb-23	13-Mar-23	50														-						
	works									:				1		1			1		: :		1	1			1	-
Current Mite Actual Worl Critical Rem Remaining	rk maining Work	Central K	owloo			Tak Eas ith Rolli				te) (R	ev33-	CSD)	Ba La; Filt	iject ID: KT seline: rout: KTE - er: TASK fi ge 1 of 16	3 Months ilters: 3 M	s Rolling P		- Submis	ision.		Date 25-Apr-22 25-May-22 25-Jun-22 25-Jul-22 25-Jul-22 25-Aug-22 25-Sep-22	Submit C Submit C Submit C Submit C	ihy Updates SD Program SD Program SD Program SD Program	tevision i me Rev 30wit me Rev 31wit me Rev 32wit me Rev 32wit me Rev 33wit	h M38 Mon. h M39 Mon. h M40 Mon.	. TYY . TYY . TYY	d Ap DC DC DC DC DC

ID	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Da	1	September 41			October 42		November 43		Dec	ember 44		Ja	nuary 45	_
DES TIT	5 Design for Bridge S8 - 8A-S8 to 8D-S8	72	26-Sep-22	20-Dec-22	21-Nov-22	22-5eb-23	46	0.0		28 04 11 18	25	02	09 16 23	30 06	13 2	0 27	04 11	18	25 01	08	15	22
								0.0			_											
DES-1378	DES - Prepare preliminary proposal submission		26-Sep-22	08-Nov-22	21-Nov-22	04-Jan-23	46					1		1 1								
DES-1380	DES - ICE checking and approval		09-Nov-22	22-Nov-22	05-Jan-23	18-Jan-23	46															
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24	23-Nov-22	20-Dec-22	19-Jan-23	22-Feb-23	46											-				
DES - Tempora	ry Works for Underpasses, Adit and Roads	86	01-Aug-22 A	24-Sep-22 A	02-Nov-22	02-Nov-22		0.0)													
DES_T08 - Ter	np works for construction of Sign Gantries, Lighting Poles &	86	01-Aug-22 A	24-5ep-22 A	02-Nov-22	02-Nov-22		0.0)													
DES-1390	DES - Prepare preliminary proposal submission	36	01-Aug-22 A	31-Aug-22 A	02-Nov-22	02-Nov-22				•												
DES-1392	DES - ICE checking and approval	26	01-Sep-22 A	15-Sep-22 A	02-Nov-22	02-Nov-22																
DES-1394	DES - Project Manager checking and approval; consent to start the works	24	16-Sep-22 A	24-Sep-22 A	02-Nov-22	02-Nov-22					•											
ONSTRUCTI	ION	576	01-May-21 A	19-Apr-23	15-Jul-22	26-Feb-26	846	559.0														
Major Tempo	rary Traffic Management Scheme																					
	r Kai Cheung Road	32	07-Nov-22	14-Dec-22	15-Nov-22	16-Mar-23	70	0.0	>													
KCR-TTA-1A	TTA - Kai Cheung Road - Stage 1A (add TTA for 8A pile)	0	07-Nov-22		15-Nov-22		7							-								
KCR-TTA-U	TTA - Kai Cheung Road - U-Turn open to Public (Road Closure until 14 June		14-Dec-22		16-Mar-23		70															
	2021) w Kai Fuk Road		26-540-22	13-Dec-22	19-Sep-22	31-Jan-23	33	0.0	2													
KFR-TTA-2B1	TTA - Kai Fuk Road - Stage 28-1, (Night Work) (Span 1E to 1F/7A-WB)		26-Sep-22	10 000 12	19-Sep-22		-6															
KFR-TTA-2B2							-6				ľ.											
KFR-TTA-2B2	TTA - Kai Fuk Road - Stage 2B-2, (Night Work) (Span 1E to 1F/7A- EB)		30-Sep-22		23-Sep-22																	
	TTA - Kai Fuk Road - Stage 2C, (Night Work) (Span 2A to 2B)		13-Dec-22		31-Jan-23		33															
KFR-TTA-2D	TTA - Kal Fuk Road - Stage 2D, (Night Work) (Span 2B to 2C)	0	13-Dec-22		31-Jan-23		33										•					
	the Works of the Site, except Section 2 to 17																					
Sch_1 Prelimin	aries Works	159	25-Jun-22 A	01-Dec-22	13-Sep-22	10-Dec-22	7	0.0)													
Site Establishn	ment Works	159	25-Jun-22 A	01-Dec-22	13-Sep-22	10-Dec-22	7	0.0)													
Temporary ste	eel platform over Kai Tak River	115	25-Jun-22 A	11-Oct-22	13-Sep-22	10-Dec-22	51	0.0														
DIA reinstate	mentworks		25-Jun-22 A	11-Oct-22	13-Sep-22	10-Dec-22																
1-2338D	SE - Early removal of cofferdam (CKRW) and reinstate for bdge falsework	12	25-Jun-22 A	07-Jul-22 A	24-Sep-22	24-Sep-22																
1-2338F	SE - Early removal of cofferdam (S4B) and reinstate for bdge falsework	12	09-Jul-22 A	14-Jul-22 A	10-Dec-22	10-Dec-22												-				
1-2338E	SE - Early removal of cofferdam (S4A) and reinstate for bdge falsework	7	28-Jul-22 A	04-Aug-22 A	13-Sep-22	13-Sep-22																
1-2338C	SE - Early removal of cofferdam (CKRE) and reinstate for bdge falsework	12	26-Sep-22	11-Oct-22	10-Nov-22	23-Nov-22	37															
Temporary Wo	orks for Early Commencement of 8A Pilling Works	103	01-Aug-22 A	01-Dec-22	08-Oct-22	09-Dec-22	7	0.0)													
Temp Traffic	Steel Deck at KCR near Abutment 1G		01-Aug-22 A	05-Nov-22	08-Od-22	14-Nov-22		0.0														
1-1608	8A - Traffic Deck - construct: RC footing (approx 45m3 conc)	12	01-Aug-22 A	13-Aug-22 A	08-Od-22	08-Oct-22				-								-				
1-1610	8A - Traffic Deck - erection of steel strut and sheetpile deck		26-Sep-22	25-Oct-22	11-Od-22	07-Nov-22	11		-													
1-1612	8A - Traffic Deck - temp road diversion at KCR		31-0ct-22	05-Nov-22	08-Nov-22	14-Nov-22	7															
1-1612	8A - completion of 1G, RW S1 (Bay 1-3) and baddfill		31-0d-22	55 107 22	08-Nov-22	111101 22	7															
		22		01 000 32	15 100 22	09-Dec-22	/	0.4														
	Platform for 8A Pilling Works			01-00922	25-7607-22			- 0.0														
1-1614	8A - Pilling platform - Mobilisation; site dearance; trial pit		07-Nov-22	10-Nov-22	15-Nov-22	18-Nov-22	7															
1-1616	8A - Pilling platform - Install sheetpiles		11-Nov-22	19-Nov-22	19-Nov-22	28-Nov-22	7															
1-1618	8A - Pilling platform - exc to 8.5mPD for piling operation	10	21-Nov-22	01-Dec-22	29-Nov-22	09-Dec-22	7								-							
Current Miles	Central K	owloc							nte) ((Rev33- CSD)		Baseline:	KTE-WP33_M41 E - 3 Months Rollin	Programme			25-May-22	495 Monthly Upda Submit CSD Prog Submit CSD Prog	rammo Rev 30v			
Remaining V			Thr	ee Mon	th Rolli	ing Prog	gramı	me					K filters: 3 Months F		Submission.	F	25-Jui-22 25-Aug-22	Submit CSD Prog Submit CSD Prog Submit CSD Prog	ramme Rev 32v ramme Rev 32v	with M39 Mon. with M40 Mon.	. TYY . TYY	0

y ID	Activity Name	Orig Dur Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	41	42			44	07 A/	45	
1-1620	8A - Pilling platform - installation of concrete bik wall and backfill	10 21-Nov-22	01-Dec-22	29-Nov-22	09-Dec-22	7		28 04 11 18	25 02 09 16	23 30 06 13 20	27 04	11 18	25 01	08 15	22
Sch_3.1 Bridge	S1 Works	101 16-Jul-22 /	25-Oct-22	10-Oct-22	12-May-23	157	2.00								
S1 - Deck		101 16-Jul-22 /	25-Oct-22	10-Oct-22	12-May-23	157	2.00								
S1 - Span 1A-1	E	50 03-Sep-22	25-Oct-22	10-Oct-22	12-May-23	157	0.00								
3.1-2362	S1 - Span 1A-1E Post-tensioning (Stage 1)	12 03-Sep-22	11-Oct-22	10-Od-22	22-0d-22	10	0.00	-							
3.1-2366	S1 - Span 1A-1E Remove Falsework & Formwork	12 12-Od-22	25-Oct-22	28-Apr-23	12-May-23	157	0.00								
S1 - Span 1E-1	D	95 16-Jul-22 /	18-Oct-22	10-Oct-22	12-May-23	163	2.00								
3.1-2378	S1 - Span 1E-1D Deck Section	42 16-Jul-22 /	19-Aug-22 A	10-Oct-22	10-Oct-22		2.00								
3.1-2386	S1 - Span 1E-1D Remove Falsework & Formwork	6 12-0d-22	18-Oct-22	06-May-23	12-May-23	163	0.00								
Sch_3.2 Bridge	S2 Works	230 03-May-22	A 02-Feb-23	14-Od-22	26-Jul-23	141	35.00								
S2 - Piling Wor		41 02-Dec-22	26-Jan-23	10-Dec 22	03-Feb-23	5	2.00								
Piling Works -		41 02-Dec-22	26-Jan-23	10-Dec-22	03-Feb-23	5	2.00								
3.2-2523	S2 - Mobilisation	6 02-Dec-22	08-Dec-22	10-Dec-22	16-Dec-22	7									
3.2-2524	S2 - Bored Piles for 8A (1nr) (Left-in casing)	43 09-Dec-22	26-Jan-23	17-Dec-22	03-Feb-23	8	2.00								
	Pier / Abutment	230 03-May-22		14-Od-22	26-Jul-23	167	29.00								
Pier 2A		145 11-Jul-22 /		15-Oct-22	29-Nov-22	15	6.00								
3.2-2534	S2 - Excavation down to formation level C-2A				15-0d-22	15	0.00								
3.2-2536	S2 - Prepare pile head (2 nrs) 2A	10 11-Jul-22 / 9 02-Aug-22			15-0d-22		1.00								
			-												
3.2-2538	S2 - Construct pile cap C-2A	15 23-Aug-22			15-0d-22		2.00								
3.2-2540	S2 - Construct Pier P-2A (3 Lifts)	29 03-Sep-22		15-Od-22	29-Nov-22	15									
Pier 2B		29 19-May-22		14-Oct-22	03-Dec-22	14	3.00								
3.2-2550	S2 - Construct Pier P-2B (3 Lifts)	29 19-May-22		14-Oct-22	03-Dec-22	14	3.00								
Pier 2CL/2CR		148 03-May-22		22-Dec-22	30-Jan-23	73	3.00								
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)	29 03-May-22	A 26-Oct-22	22-Dec-22	30-Jan-23	73	3.00	-							
10-8562	S2 - Construct Pier P-2CR (3 Lifts)	29 03-May-22	15-Oct-22	22-Dec-22	12-Jan-23	73									
Pier 2DL/2DR		45 25-Jun-22	26-Nov-22	06-Apr-23	16-Jun-23	158	12.00								
3.2-2568	S2 - Excavation down to formation level 2DL/2DR	11 25-Jun-22	10-Aug-22 A	06-Apr-23	06-Apr-23		2.00								
3.2-2570	S2 - Prepare pile head (4 nrs) C-2DR & C-2DL	17 11-Aug-22	A 25-Aug-22 A	06-Apr-23	06-Apr-23		1.00								
3.2-2572	S2 - Construct pile cap C-2DR	9 26-Aug-22	A 21-Sep-22 A	06-Apr-23	06-Apr-23		1.00								
3.2-2574	S2 - Construct Pier P-2DR (3 Lifts)	29 13-Oct-22	15-Nov-22	13-May-23	16-Jun-23	168	3.00								
3.2-2576	S2 - Construct pile cap C-2DL	10 13-Oct-22	24-Oct-22	06-Apr-23	20-Apr-23	140	2.00								
3.2-2578	S2 - Construct Pier P-2DL (3 Lifts)	29 25-Oct-22	26-Nov-22	21-Apr-23	25-May-23	140	3.00								
Pier 2EL/2ER		48 06-Jun-22	23-Dec-22	17-Mar-23	26-Jul-23	167	5.00								
3.2-2592	S2 - Construct Pier P-2EL (3 Lifts)	29 06-Jun-22	30-Nov-22	17-Mar-23	25-May-23	137	3.00	-			-				
3.2-2590	S2 - Construct Pier P-2ER (2 Lifts)	20 01-Dec-22	23-Dec-22	04-Jul-23	26-Jul-23	167	2.00								
S2 - Deck		62 12-Nov-22	02-Feb-23	05-Dec-22	25-Apr-23	66	4.00								
S2 Span (L)		23 30-Dec-22	02-Feb-23	17-Jan-23	18-Feb-23	14	4.00								
S2 - Span 2A(L)-2B(L) (Stage 1)	23 30-Dec-22	02-Feb-23	17-Jan-23	18-Feb-23		4.00								
															1
Current Mikes Actual Work Critical Remaining W	ning Work Centr	al Kowloon Rou Th	ite - Kai iree Mor) (Rev33- CSD)	Project ID: KTE-WP33_ Baseline: Layout: KTE - 3 Months Filter: TASK filters: 3 Mo		Date 25Apr22 25May22 25Jun22 25Jun22 25Aug-22 25Aug-22 25Sep-22	Submit CSD P Submit CSD P Submit CSD P	Rovision pdates ogramma Rav 30with ogramme Rav 31with ogramme Rav 32with ogramme Rav 32with ogramme Rav 33with	TYY M37 Mon TYY M38 Mon TYY M39 Mon TYY M40 Mon TYY	ded Ap DC DC DC DC DC DC

D	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Da	41		42	43	44		45
3.2-2624	S2 - Span 2A-2B formworks on temp steel deck	22	30-Dec-22	02-Feb-23	17-Jan-23	18-Feb-23	14	4.0	28 04 11	18	25 02 09 16 23	30 06 13 20 27	04 11	18 25 0	1 08 15 2
	y Working Platform over KCR (Loop Rood)		12-Nov-22	14-Jan-23	05-Deo-22	25-Apr-23	76	0.0							
3.2-3401	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M1)	18	12-Nov-22	02-Dec-22	05-Dec-22	24-Dec-22	19								
3.2-3403	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M2)	18	18-Nov-22	08-Dec-22	05-Dec-22	24-Dec-22	14								
3.2-3409	S2 - Span 2A to 2C temp platform - temp steel deck (M1-M2)	16	09-Dec-22	29-Dec-22	28-Dec-22	16-Jan-23	14								
3.2-3407	S2 - Span 2A to 2C temp platform - construct RC footing and erect steel tower (M4)	18	22-Dec-22	14-Jan-23	31-Mar-23	25-Apr-23	76								
Sch_3.3 Bridg	je S3 Works	83	20-Aug-22 A	28-Nov-22	13-May-23	16-Jun-23	157	7.0							
S3 - Pile Caps	s, Pier / Abutment	83	20-Aug-22 A	28-Nov-22	13-May-23	16-Jun-23	157	7.0							
Abutment 3A	-53	29	26-Oct-22	28-Nov-22	13-May-23	16-Jun-23	157	4.0							
3.3-2826	S3 - Construct Abultment A-3A-S3	19	26-0d-22	16-Nov-22	13-May-23	05-Jun-23	157	3.0	•						
3.3-2828	S3 - A-3A-S3 Install Permeate Membrane and Backfill	10	17-Nov-22	28-Nov-22	06-Jun-23	16-Jun-23	157	1.0							
Abutment 3D	-53	42	20-Aug-22 A	11-Oct-22	03-Jun-23	16-Jun-23	198	3.0							
3.3-2850	S3 - Construct Abutment A-3D-S3	19	20-Aug-22 A	27-Sep-22	03-Jun-23	05-Jun-23	198	2.0							
3.3-2852	S3 - A-3D-S3 Install Permeate Membrane and Baddfill	10	28-Sep-22	11-Oct-22	06-Jun-23	16-Jun-23	198	1.0							
Sch_3.4 Bridg	e S4 Works	303	03-Jan-22 A	23-Feb-23	13-Sep-22	03-Jun-23	80	60.0							
	s, Pier / Abutment	295	03-Jan-22 A	14-Feb-23	19-Sep-22	03-Jun-23	88	17.0	1						
Abutment A-			04-Nov-22	14-Feb-23	25-Feb-23	03-Jun-23	88	10.0							
3.4-3048	S4 - A-4A-S3 ELS		04-Nov-22	15-Nov-22	25-Feb-23	08-Mar-23	88	2.0							
3.4-3050	S4 - Excavation Down to Formation Level A-IA-S4		16-Nov-22	07-Dec-22	09-Mar-23	30-Mar-23	88	3.0							
3.4-3050			08-Dec-22	04-Jan-23	31-Mar-23	28-Apr-23	88	1.0							
	S4 - Prepare pile head (10 nrs) A-4A-S4														
3.4-3054	S4 - Construct Abutment Base A-4A-54	29		14-Feb-23	29-Apr-23	03-Jun-23	88	4.0							
Pier 4E-S4			07-Feb-22 A	31-Oct-22	07-Nov-22	09-Dec-22	34	2.0							
3.4-3112	S4 - Construct Pier 4E-S4 (2 Lifts)		07-Feb-22 A	31-Oct-22	07-Nov-22	09-Dec-22	34	2.0		-					
Pier 4F-S4		29	15-Jun-22 A	10-Dec-22	20-Dec-22	14-Mar-23	71	3.0							
3.4-3122	S4 - Construct Pier 4F-S4 (3 Lifts)	29	15-Jun-22 A	10-Dec-22	20-Dec-22	14-Mar-23	71	3.0		-					
Pier 4G-S4		19	03-Jan-22 A	31-Dec-22	18-Feb-23	06-May-23	96	0.0							
3.4-3132A	S4 - Construct Pier 4G-S4 (2 Lifts)	19	03-Jan-22 A	31-Dec-22	18-Feb-23	06-May-23	96			-					
Pier 4J-S4		20	04-Feb-22 A	03-Oct-22	19-Sep-22	24-Sep-22	-6	2.0							
3.4-3142	S4 - Construct Pier 43-S4 (3 Lifts)	20	04-Feb-22 A	03-Oct-22	19-Sep-22	24-Sep-22	-6	2.0			-				
S4 - Deck		154	13-Jul-22 A	23-Feb-23	13-Sep-22	02-Jun-23	79	43.0							
S4-Span (L)		124	13-Jul-22 A	02-Feb-23	13-Sep-22	02-Jun-23	97	23.0							
S4- Span 4B	I-4K(L) (Stage 1)	98	13-Jul-22 A	23-Dec-22	13-Sep-22	16-Dec-22		4.0							
3.4-3174	S4 - Span 4B(A) - 4K(A) Web and Soffit	20	13-Jul-22 A	05-Sep-22 A	13-Sep-22	13-Sep-22		3.0							
3.4-3176	S4 - Span 4B(A) - 4K(A) Deck Section	10	06-Sep-22 A	30-Sep-22	19-Sep-22	23-Sep-22	-6	1.0		-	-				
3.4-3174a	S4 - Span 4B(A) - 4K(A) Web and Soffit (stitch span)	12	06-Sep-22 A	08-Oct-22	13-Sep-22	23-Sep-22	-11								
3.4-3176a	S4 - Span 4B(A) - 4K(A) Deck Section (stitch span)	20		01-Nov-22	24-Sep-22	19-Od-22	-11								
3.4-3178	S4 - Span 4B(A) - 4K(A) Post-tensioning (Stage 1)	12	02-Nov-22	15-Nov-22	20-Oct-22	02-Nov-22	-11	0.0							
3.4-3180	S4 - Span 4B(A) - 4K(A) Remove Falsework, Formwork and Trusses		16-Nov-22	29-Nov-22	03-Nov-22	16-Nov-22	-11	0.0							
3.13100	an open by many number according reminimonicane masca	16	101401 22	2710722	03 1104 22	101404 22		0.0							
Current Mi											Project ID: KTE-WP33_M41		Date 25-Apr-22 M38	Revision Monthly Updates	Checked TYY
Actual Vior	naing Work Central Ko	owloo							ite) (Rev33- CSD)	Baseline: Layout: KTE - 3 Months Rolling P	rogramme	25-Jun-22 Sub	mit CSD Programme Rev 3 mit CSD Programme Rev 3	Nwith M38 Mon TYY
Remaining			Thr	ee Mon	tn Rolli	ng Prog	Irami	ne			Filter: TASK filters: 3 Months Roll		25-Jul-22 Sub	nit CSD Programme Rev 3 nit CSD Programme Rev 3	2with M39 Mon TYY
											1			mit CSD Programme Rev 3	

y ID	Activity Name	Orig De	r Stat	Finish	Late Start	Late Finish	Total Float	TRA (D	September 41	October November December January 42 43 44 45	-
3.4-3174b	S4 - Stitch Joint at 4K(A)-Web and Soffit	1	3 24-Nov-22	08-Dec-22	17-Nov-22	01-Dec-22	-6		28 04 11 18	15 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15	22
3.4-3176b	S4 - Stitch Joint at 4K(A)- Deck Section	1	3 09-Dec-22	23-Dec-22	02-Dec-22	16-Dec-22	-6				
	4J(L) (Stage 2)	9	3 05-Ort-22	31-30-23	26-Sen-22	02-1un-23	99	12			
3.4-3276	S4 - Span 4K(A)-4J Falsework and formworks	1	3 05-Oct-22	19-0ct-22	26-Sep-22	12-0d-22	-6	6.			
3.4-3278	S4 - Span 4K(A)-4J Install Bearings		3 20-Oct-22	28-Oct-22	13-0d-22	21-Od-22	-6	2.			
3.4-3280	S4 - Span 4K(A)-4) Web and Soffit		2 29-0d-22	23-Nov-22	22-0d-22	16-Nov-22	-6	3.			
3.4-3280				07-Dec-22							
	S4 - Span 4K(A)-4J Deck Section		2 24-Nov-22		18-Nov-22	01-Dec-22	-5	1.			
3.4-3280a	54 - Span 4K(A)-4J Web and Soffit (Stitch span)		2 24-Nov-22	07-Dec-22	19-Nov-22	02-Dec-22	-4				
3.4-3282a	54 - Span 4K(A)-43 Deck Section (Stitch span)		2 08-Dec-22	21-Dec-22	03-Dec-22	16-Dec-22	-4				
3.4-3283	54 - Span 4K(A)J-4J Post-tensioning (Stage 2)	1	2 24-Dec-22	10-Jan-23	17-Dec-22	03-Jan-23	-6	0.			
3.4-3284	54 - Span 4K(A)-4J Remove Falsework and Formwork	1	2 11-Jan-23	31-Jan-23	19-May-23	02-Jun-23	99	0.			_
S4- Span 4J-2	2A(L) (Stage 3)		9 16-Nov-22	02-Feb-23	30-Nov-22	19-Jan-23					
3.4-3286	54 - Span 43-2A Falsework and formworks	1	9 16-Nov-22	07-Dec-22	30-Nov-22	21-Dec-22	12	3.			
3.4-3288	54 - Span 43-2A Install Bearings		8 08-Dec-22	16-Dec-22	22-Dec-22	03-Jan-23	12	2.			
3.4-3290	54 - Span 43-2A Web and Soffit	1	4 11-Jan-23	02-Feb-23	04-Jan-23	19-Jan-23	-6	2.			_
S4-Dpan (R)		15	4 27-Jul-22 A	23-Feb-23	10-Dec-22	14-Apr-23	39	20.			
S4- Span 4B-	4K(R) (Stage 1)		5 27-Jul-22 A	14-Oct-22	08-Feb-23	24-Feb-23					
3.4-3186	54 - Span 4B(B) - 4K(B) Web and Soffit	2	4 27-Jul-22 A	05-Sep-22 A	08-Feb-23	08-Feb-23		3.			
3.4-3188	S4 - Span 48(B) - 4K(B) Deck Section	1	0 06-Sep-22 A	28-Sep-22	08-Feb-23	10-Feb-23	105	1.			
3.4-3190	S4 - Span 4B(B) - 4K(B) Post-tensioning (Stage 1)		2 29-Sep-22	14-Oct-22	11-Feb-23	24-Feb-23	105				
	4E(R) (Stage 2)	8	3 01-Nov-22	15-5eb-23	10-Dec-22	27-Mar-23	34	12			
3.4-3208	S4 - Span 4K(B)-4E Falsework and formworks		9 01-Nov-22	29-Dec-22	10-Dec-22	15-Feb-23	34	7.			
3.4-3210	S4 - Span 4K(B)-4E Install Bearings		8 30-Dec-22	09-Jan-23	16-Feb-23	24-Feb-23	34	2.			
3.4-3212	54 - Span 4K(B)-4E Web and Soffit	2		15-Feb-23	25-Feb-23	27-Mar-23	34	3.			_
3.4-3220	54 - Span 4E-4F Falsework and formworks	2	3 21-Jan-23	23-Feb-23	15-Mar-23	14-Apr-23	39	4.			
Sch_3.5 Bridge	s7 Works	26	7 23-Dec-21 A	22-Nov-22	07-Oct-22	11-May-23	132	12.			
S7 - Pile Caps,	Pier / Abutment	26	7 23-Dec-21 A	22-Nov-22	07-0d-22	11-May-23	132	12.			
Pier 7B		4	8 22-Jul-22 A	22-Nov-22	07-0d-22	02-Dec-22	9	7.			
3.5-3415	57 - 78-67 ELS		5 22-Jul-22 A	26-Sep-22	07-Oct-22	07-Oct-22	9	1.	-		
3.5-3416	57 - Excavation down to formation level C-7B-S7		4 26-Sep-22	29-Sep-22	08-Oct-22	12-Oct-22	9	1.	•		
3.5-3418	57 - Prepare pile head (2 nrs) C-7B-S7		9 30-Sep-22	12-Oct-22	13-0d-22	22-Oct-22	9	1.			
3.5-3420	S7 - Construct pile cap C-78-S7	1	5 13-Oct-22	29-Oct-22	24-0d-22	09-Nov-22	9	2.			
3.5-3422	S7 - Construct Pier P-78-S7 (2 Lifts)	2	31-Oct-22	22-Nov-22	10-Nov-22	02-Dec-22	9	2.			
Pier 7C		2	23-Dec-21 A	29-Sep-22	08-May-23	11-May-23	176	2.			
3.5-3426	57 - Construct Pier P-7C-57 (1st Lift)	2	23-Dec-21 A	29-Sep-22	08-May-23	11-May-23	176	2.	-		
Abutment 7D		8	3 25-May-22 A			21-Mar-23		3.			
3.5-3434	57 - Construct Abulment A-7D-57		3 25-May-22 A			21-Mar-23		3.			
0.0.0404	or sources of the Participant Provide State	0	LJ TRIPLER	5170922 A	21-1-10-23	21-1-00-23		3.			
Current Miles	stone									Project ID: KTE-WP33 M41 2014 2014 2014 2014 2014 2014 2014 20	
Adual Work	c	entral Kowlo	on Rout	te - Kai	Tak Eas	st (Mont	h 41	Upd	e) (Rev33- CSD)	Baseline: 254May22 Submit CSD Programme Ray 30xth M37 Mon TYY	DC
-Critical Remaining V	aining Work					ing Prog				Layout: KTE - 3 Months Rolling Programme 25-Un-22 Submit CSD Programme Rev 31with M38 Mon. TYY Eilder: TASK Filters: 3 Months Polling 1 KTE - Submiteign 25-Un-22 Submit CSD Programme Rev 32with M39 Mon. TYY	DC
renering v										Filter: TASK filters: 3 Months Rolling_1, KTE - Submission. 25.4x22 Submit CSD Programme Rev 32wbt M40 Mon_ TYY 25.6xp-22 Submit CSD Programme Rev 32wbt M40 Mon_ TYY 25.6xp-22 Submit CSD Programme Rev 33wbt M41 Mon_ TYY	DC
										Page 5 of 16	

	Activity Name	Orig Dur Star	Finish	Lale Start	Late Finish	Total Ficat	TRA (Day	41	0	42		43		44		Jan	nuary 45
cn_3.7 Bhag	e S9 Works	254 03-Jan-2	2 A 23-Feb-23	19-Sep-22	26-Feb-26	889	34.00	28 04 11 18	25 02 09	16 23	30 06	13 20	2/ 04	11 18	25 01	08	15
_	s, Pier / Abutment	165 03-Jan-1	2 A 01-Nov-22	31-Oct-22	26-Feb-26	978	8.00										
Pier 9D		131 03-Jan-			31-Od-22		4.00										
3.7-3868	S9 - Construct Pier P-9D-A-59 (2 Lifts) (L)	20 03-Jan-			31-Oct-22		2.00										
3.7-3876	S9 - Construct Pier Portal P-9D	16 01-Sep-			31-0d-22		2.00										
Abutment 4H		83 25-34-5		07-Nov-22		978	4.00										
3.7-3882	S9 - Construct Abutment A-4H/9E	27 25-34-2		07-Nov-22		34	4.00										
							4.00	ſ			_						
3.7-3883	S9 Install Permeate Membrane and Baddfil	12 19-0d		13-Feb-26		978					-						
S9 - Deck		172 28-Jun-		19-Sep-22		-6	17.00										
	-9A (Stage 1)	76 28-Jun-		19-Sep-22		62	2.00										
3.7-3888	S9 - Span 1D-9A Web and Soffit	9 28-Jun-					1.00										
3.7-3890	S9 - Span 1D-9A Deck Section	9 25-Jul-2	2 A 18-Aug-22 A	19-Sep-22	19-Sep-22		1.00										
3.7-3892	S9 - Span 1D-9A Post-tensioning (Stage 1)	12 24-Aug-	22 A 08-Sep-22 A	19-Sep-22	19-Sep-22		0.00										
3.7-3893	S9 - Span 1D-9A Remove Falsework and Formwork	12 26-Sep	22 11-Od-22	09-Dec-22	22-Dec-22	62		C									
S9 - Span 9A	-9B (Stage 2)	114 17-Jul-2	2 A 09-Nov-22	19-Sep-22	22-Dec-22	37	5.00										
3.7-3894	S9 - Span 9A-9B Falsework and formworks	16 17-Jul-2	2 A 06-Sep-22 A	19-5ep-22	19-Sep-22		3.00	_									
3.7-3896	S9 - Span 9A-9B Web and Soffit	9 09-Sep-	2 A 27-Sep-22	19-Sep-22	20-Sep-22	-6	1.00	· · · · · · · · · · · · · · · · · · ·	•								
3.7-3898	S9 - Span 9A-9B Deck Section	14 28-Sep	22 15-Oct-22	21-Sep-22	08-Oct-22	-6	1.00		-								
3.7-3900	S9 - Span 9A-9B Post-tensioning (Stage 2)	9 17-0d:	22 26-0d-22	10-Oct-22	19-0d-22	-6	0.00										
3.7-3901	S9 - Span 9A-9B Remove Falsework and Formwork	12 27-Oct	22 09-Nov-22	09-Dec-22	22-Dec-22	37											
S9 - Span 9B	-9C (Stage 3)	66 30-Aug-	22 A 13-Dec-22	20-Oct-22	22-Dec-22	8	5.00										
3.7-3902	S9 - Span 98-9C Falsework and formworks	20 30-Aug-	22 A 15-Sep-22 A	26-Oct-22	26-Oct-22		3.00										
3.7-3904	S9 - Span 98-9C Web and Soffit	9 08-Sep-	2 A 29-Sep-22	26-Oct-22	29-0d-22	24	1.00	_	-								
3.7-3906	S9 - Span 98-9C Deck Section	13 30-Sep		31-Oct-22	14-Nov-22	24	1.00		·····	_							
3.7-3902a	59 - Stitch Joint at 9B - Web and soffit	11 27-04		20-Oct-22	01-Nov-22	-6				_							
3.7-3902b	S9 - Stitch Joint at 98 - Deck Section	11 17 Oct		02-Nov-22	14-Nov-22	-6											
3.7-39020	S9 - Span 9B-9C Post-tensioning (Stage 3)	7 22-Nov		15-Nov-22		-0	0.00										
						-0	0.00							_			
3.7-3909	S9 - Span 98-9C Remove Falsework and Formwork	12 30-Nov		09-Dec-22										_			
	-9D-9E (Stage 4)	95 26-Sep		31-Oct-22	12-Jan-23	-6	5.00										
3.7-3910	S9 - Span 9C-9E Falsework and formworks	20 26-Sep		31-Oct-22		28	1.00	C									
3.7-3914	S9 - Span 9C-9E Web and Soffit	18 05-Oct		07-Nov-22		28	1.00										
3.7-3912	S9 - Span 9C-9E Install Bearings	6 21-Oct		29-Nov-22		33	2.00			-							
3.7-3916	S9 - Span 9C-9E Deck Section	18 26-Oct	22 15-Nov-22	28-Nov-22	17-Dec-22	28	1.00					-					
3.7-3910a	S9 - Stitch Joint at 9C - Web and soffit	11 30-Nov	22 12-Dec-22	23-Nov-22	05-Dec-22	-6								•			
3.7-3910b	S9 - Stitch Joint at 9C - Deck Section	11 13-Dec	22 24-Dec-22	06-Dec-22	17-Dec-22	-6											
3.7-3918	S9 - Span 9C-9E Post-tensioning (Stage 4)	7 28-Dec	22 05-Jan-23	19-Dec-22	28-Dec-22	-6	0.00								+		
3.7-3919	S9 - Span 9C-9E Remove Falsework and Formwork	12 06-Jan	23 19-Jan-23	29-Dec-22	12-Jan-23	-6											
	neous Works	72 22-Nov	22 23-Feb-23	29-Nov-22	28-Feb-23	4	9.00										

yID	Activity Name	Orig Dur 1	Stat Finish	Late Start	Late Finish	Total Float	TRA (Day;		Septe 4	ember 1		_	Ock	ober 2			November 43			Decerr	nber			Janua	y	_
									28 04	11	18	25	02	09	16 2	23 3	90 06	13	20	27 04	11	18	25	01	08	5 22	2
3.7-3920	S9 - Install Profile barrier / Parapet Wall / Planter	58 22-						5.00														1	1				
3.7-3922	S9 - Bridge Drainage works	28 03-	Jan-23 10-Feb-2	3 23-Dec-22	03-Feb-23	-6	4	4.00																	-	-	-
3.7-3923	59 - End wall construction (Abutment)	24 20-	Jan-23 23-Feb-2	3 01-Feb-23	28-Feb-23	4																				÷	-
Sch_3.8 Bridge	S1/S9 Works	223 274	lay-22 A 27-Feb-2	3 19-Sep-22	03-Mar-23	4	52	2.00																			
S1/S9 - Pile Ca	aps, Pier / Abutment	71 274	lay-22 A 24-Sep-22	A 23-Sep-22	05-Od-22		(5.00																			
Pier 1F/7A		23 25-3	ul-22 A 24-Sep-22	A 23-Sep-22	23-Sep-22		2	2.00																			
3.8-4054	S1/S9 - Construct Pier P-1F/7A-S1/S9 (2 Lifts)	23 25-2	ul-22 A 24-Sep-22	A 23-Sep-22	23-Sep-22		2	2.00			_																
Abutment 1G			lay-22 A 06-Sep-22					1.00																			
3.8-4064	S1/S9 - Construct Abutment A-1G-S1/S9		lav-22 A 06-Sep-22					1.00																			
	S1/39 - Consider Addition (Pro-S1/39							1																			
S1/S9 - Deck		131 29-1						5.00																			
	LD-1E (Stage 1)	59 29-3				27	11																				
3.8-4068	S1/S9 - Span 1D-1E Falsework and formworks (L& R)	21 29-3	lul-22 A 09-Sep-22	A 23-Sep-22	23-Sep-22		3	3.00		•																	
3.8-4072	S1/S9 - Span 1D-1E(R) Web and Soffit	17 10-S	ep-22 A 18-Oct-2	24-Oct-22	29-Od-22	10	2	2.00		-		-	-		-												
3.8-4076	S1/S9 - Span 1D-1E(L) Web and Soffit	17 10-S	ep-22 A 18-Oct-2	24-Oct-22	29-Oct-22	10	2	2.00		-		-		_	-												
3.8-4074	S1/S9 - Span 1D-1E(R) Deck Section	12 19-	Oct-22 01-Nov-2	2 19-Nov-22	2 02-Dec-22	27	2	2.00							-												
3.8-4078	S1/S9 - Span 1D-1E(L) Deck Section	12 19-	Oct-22 01-Nov-2	2 05-Nov-22	18-Nov-22	15	2	2.00																			
S1/S9 - Span 1	LE-1F/1E-7A (Stage 1)	101 05-S	ep-22 A 23-Dec-2	2 19-Sep-22	16-Dec-22	-6	11	L.00																			
3.8-4080A	S1/S9 - Span 1E to 1F/7A Erect Steel Portal (over Kai Fuk Road) Night works	12 05-5	ep-22 A 29-Sep-2	2 19-Sep-22	22-Sep-22	-6	(0.00				-															
3.8-4080B	(WB)(2-W) S1/S9 - Span 1E to 1F/7A Fabrication Steel Portal (over Kai Fuk Road) Day	10 05-5						_																			
3.8-4080	works (WB)(2-W) S1/S9 - Span 1E to 1F/7A Erect Steel Portal (over Kai Fuk Road) Night works	12 30-						0.00																			
	(EB)(2-E)																						ļ				
3.8-4080C	S1/S9 - Span 1E to 1F/7A Fabrication Steel Portal(over Kai Fuk Road) Day works (EB)(2-E)	10 304				4																					
3.8-4082	S1/S9 - Span 1E-1F/7A Falsework and formworks (L & R)	18 17-	Oct-22 05-Nov-2	2 10-Oct-22	29-Od-22	-6	3	3.00																			
3.8-4084	S1/S9 - Span 1E-1F/7A (R) Web and Soffit	17 07-	Nov-22 25-Nov-2	2 31-Oct-22	18-Nov-22	-6	2	2.00									-										
3.8-4086	S1/59 - Span 1E-1F/7A (L) Web and Soffit	17 07-	Nov-22 25-Nov-2	2 31-Od-22	18-Nov-22	-6	2	2.00									-	1									
3.8-4088	51/59 - Span 1E-1F/7A (R) Deck Section	12 26-	Nov-22 09-Dec-2	2 19-Nov-22	02-Dec-22	-6	2	2.00											-		•						
3.8-4090	S1/59 - Span 1E-1F/7A (L) Deck Section	12 26-	Nov-22 09-Dec-2	2 19-Nov-22	02-Dec-22	-6	2	2.00			1								-		•		1				
3.8-4089	51/59 - Span 1D-1E-1F Post-tensioning and Grouting (Stage 1)	12 10-	Dec 22 23-Dec 2	2 03-Dec-22	16-Dec-22	-6		-													<u> </u>	-					
S1/S9 - Span 1	LF-1G (R) (Stage 2)	51 30-	Nov-22 07-Feb-2	3 29-Nov-22	2 31-Jan-23	-6	5	5.00																			
3.8-4092	S1/S9 - Span 1F-1G(R) Falsework and formworks	16 30-	Nov-22 17-Dec-2	2 29-Nov-22	16-Dec-22	-1	2	3.00													_						
3.8-4094	S1/S9 - Span 1F-1G(R) Web and Soffit	9 24-						1.00															1				
3.8-4096	S1/59 - Span 1F-16(R) Deck Section							1.00																			
																										_	
3.8-4097	S1/S9 - Span 1F-1G(R) Post-tensioning and Grouting (Stage 2)		Jan-23 07-Feb-2			-																					1
	7A-7B (L) (Stage 3)	51 234				-1		3.00																			
3.8-4098	S1/S9 - Span 7A-7B(L) Falsework and formworks	11 23-	Nov-22 05-Dec-2	2 03-Dec-22	15-Dec-22	9	2	2.00											_	1							
3.8-4100	S1/S9 - Span 7A-7B(L) Install Bearings	6 06-	Dec-22 12-Dec-2	2 16-Dec-22	22-Dec-22	9	2	2.00													-						
3.8-4102	S1/S9 - Span 7A-7B(L) Web and Soffit	12 24-	Dec-22 10-Jan-2	3 23-Dec-22	09-Jan-23	-1	2	2.00																	•		
3.8-4104	S1/S9 - Span 7A-7B(L) Deck Section	12 11-	Jan-23 31-Jan-2	3 10-Jan-23	30-Jan-23	-1	2	2.00																	-	_	-
S1/S9 - Miscel	laneous Works	42 03-	Jan-23 27-Feb-2	3 23-Dec-22	03-Mar-23	4	11	1.00																			
										1	1							1					:			-	-
Urrent Miles	tone												Project II	D: KTE-V	VP33_M41					25-Apr	ate -22 M3	6 Monthly	Revis Updates	ion		Checked	Ap DC
Adual Work	Central K	owloon						date)	(Rev3	3- CS	SD)		Baseline							25-Maj 25-Jun	-22 Sul	bmit CSD I	Programme	Rev 30with M Rev 31with M	37 Mon 1	w I	DC
Remaining W			Three Mo	onth Rol	ling Pro	gram	me								fonths Rolli s: 3 Months			ubmission		25-Juk	22 Sut	brnit CSD F	Programme	Rev 32with N	139 Mon 1	W I	DC
																				25-Aug 25-Sep	-22 Sul -22 Sul	bmit CSD F bmit CSD F	Programme Programme	Rev 32with M Rev 33with M	MO Mon 1 M1 Mon	<u>~ </u>	DC
													Page 7 d	of 16													_

	Activity Name	Orig Dur Start	FILIGH	Late Start	Late Finish	Toal	TRA (Da)			Jepten 44	ber		_	40		-	A9	_	-	24	001	_	46	/
			10 5 1 0	111	20 m l 57	Float		28	04	11	18	25	02	42	23	30 0	43 i 13	20	27 04	11	18	25 01	08 1	5 22
3.8-4110	S1/S9 - Bridge Drainage works (R)	28 03-Jan-23	10-Feb-23	14-Jan-23	22-Feb-23	10	4.0																	
3.8-4112	S1/S9 (R) - Install Profile barrier / Parapet Wall	30 03-Jan-23	13-Feb-23	23-Deo-22	06-Feb-23	-6	3.0	þ														_		
3.8-4114	S1/S9 - Road Lighting and Road Furniture	28 19-Jan-23	27-Feb-23	31-Jan-23	03-Mar-23	4	4.0	0																
Sch_3.9 Bridge	e CKRW Works	195 29-Mar-22 A	06-Feb-23	03-Nov-22	11-Mar-23	29	18.0	0																
CKRW - Pile C	aps, Pier / Abutment	160 29-Mar-22 A	16-Dec-22	03-Nov-22	11-Mar-23	64	7.0	0																
Abutment A-K	K1-CKRW	27 16-Nov-22	16-Dec-22	03-Nov-22	11-Mar-23	64	4.0																	
3.9-4236	CKRW - Construct Abutment A-K1-CKRW	18 16-Nov-22	06-Dec-22	03-Nov-22	23-Nov-22	-11	4.0	0									_	-	-					
3.9-4238	CKRW - A-K1-CKRW Install Permeate Membrane and Baddill	9 07-Dec-22	16-Dec-22	02-Mar-23	11-Mar-23	64	0.0	0											•					
Abutment A-K	K4-CKRW	82 29-Mar-22 A	28-Sep-22	13-Dec-22	11-Mar-23	130	3.0	0																
3.9-4272	CKRW - Construct Abutment A-K4-CKRW	22 29-Mar-22 A	02-Sep-22 A	13-Dec-22	13-Dec-22		3.0		-															
3.9-4274	CKRW - A-K4-CKRW Install Permeate Membrane and Backfill	9 03-Sep-22 A	28-5ep-22	09-Mar-23	11-Mar-23	130	0.0	5	-		-													
CKRW - Deck		44 07-Dec-22	06-Feb-23	24-Nov-22	17-Jan-23	-11	11.0	0																
CKRW- Span	K1-CKRW - K5-CKRW	44 07-Dec-22	06-Feb-23	24-Nov-22	17-Jan-23	-11	6.0	0																
3.9-4278	CKRW - Span K1-K5 Falsework and formwork	20 07-Dec-22	31-Dec-22	24-Nov-22	16-Dec-22	-11	3.0	0														_		
3.9-4280	OKRW - Span KL-KS Install Bearings	8 03-Jan-23	11-Jan-23	17-Dec-22	28-Dec-22	-11	2.0																	
3.9-4282	OKRW - Span K1-K5 Web and Soffit	16 12-Jan-23	06-Feb-23		17-Jan-23		1.0															_		
				29-Dec-22		-11																		-
	K5-CKRW - K4-CKRW	28 21-Dec-22	01-Feb-23	13-Dec-22	17-Jan-23	-7	5.0	2																
3.9-4298	CKRW - Span K5-K4 Falsework and formworks	20 21-Dec-22	16-Jan-23	13-Dec-22	07-Jan-23	-7	3.0																	
3.9-4300	CKRW - Span K5-K4 Install Bearings	8 17-Jan-23	01-Feb-23	09-Jan-23	17-Jan-23	-7	2.0	0																
Sch_4.2 Slip R	toad Underpass S3	246 14-Apr-22 A	16-Feb-23	24-Od-22	18-Apr-23	48	23.0	3																
S3 - Not relate	ed to TTA (Ramp W4-W1)	18 20-Jan-23	16-Feb-23	24-Mar-23	18-Apr-23	48	6.0	þ																
ELS for Under	rpass (Ramp)	18 20-Jan-23	16-Feb-23	24-Mar-23	18-Apr-23	48	6.0	0																
4-4504	S3 - Install cofferdam	18 20-Jan-23	16-Feb-23	24-Mar-23	18-Apr-23	48	6.0	D III																-
S3 - TTA Stage	e 2 (Box Section Bay 2 & 3)	231 14-Apr-22 A	30-Jan-23	24-Od-22	15-Feb-23	14	17.0)																
TTA Advance	Works	18 14-Apr-22 A	24-Sep-22 A	24-Od-22	24-Od-22		0.0	0																
4-4592	TTA - Utilities diversion / protection	18 14-Apr-22 A	24-Sep-22 A	24-Oct-22	24-Oct-22		0.0																	
ELS for Under	rpass	51 03-Aug-22 A	03-Nov-22	24-Oct-22	19-Nov-22	14	12.0	0																
4-4600	S3 - Excavation down to 0.5m below 1st waling & strut; install waling & strut	11 03-Aug-22 A	23-Aug-22 A	24-Oct-22	24-0d-22		2.0	0																
4-1602	S3 - Excavation down to 0.5m below 2nd waling & strut; install waling & strut	16 24-Aug-22 A	07-Sep-22 A	24-Od-22	24-Oct-22		4.0		_															
4-4604	S3 - Excavation down to 0.5m below 3rd waling & strut; install waling & strut	16 08-Sep-22 A	22-Sep-22 A	24-Od-22	24-0d-22		4.0	5			_													
4-4605	S3 - Excavation down to final formation level	8 23-Sep-22 A	03-Nov-22	11-Nov-22	19-Nov-22	14	2.0																	
4-4605	S3 - Excavation down to 0.5m below 3rd waling & strut; install waling & strut	16 07-Oct-22	25-Oct-22	24-Oct-22	10-Nov-22	14																		
RC Strucutres		66 04-Nov-22	30-Jan-23	21-Nov-22	15-Feb-23	14	5.0																	
RC Structures	•	00 04400422	30-341-23	21-409-22	15460-25	14	5.0																	
Box Sections		65 U1HV0V-22	30-331-23	21-Nov-22	15-Feb-23	14	5.0																	
	10m) FS Plant Room	66 04-Nov-22	30-Jan-23	21-Nov-22	15-Feb-23	14	3.0	1																
4-4608	S3-B2 - Consturct Base slab (with FS plantroom)	18 04-Nov-22	24-Nov-22	21-Nov-22	10-Dec-22	14	1.0	2																
4-4610	S3-B2 - Consturct External Wall (with PS plantroom)	24 25-Nov-22	22-Dec-22	12-Dec-22	11-Jan-23	14	1.0											-						
4-4612	S3-B2 - Consturct Top Slab (with PS plantroom)	24 23-Dec-22	30-Jan-23	12-Jan-23	15-Feb-23	14	1.0	2													-			
Current Mile Current Mile Actual Work Citical Remaining V	* Central Ko	owloon Rout Thi			st (Mont ing Prog			ate) (F	Rev33	- CSI	D)	Ba La Fi	aseline: ayout: KT		s Rolling Pr	rogramme ng_1, KTE -	Submission.		25Ap 25Mc 25Ja 25Ja 25Ja 25Au 25Au 25Au	ny-22 Sub n-22 Sub -22 Sub g-22 Sub	mit CSD Progr mit CSD Progr mit CSD Progr	Rovision ammo Rav 30witi ammo Rav 31witi ammo Rav 32witi ammo Rav 32witi ammo Rav 32witi ammo Rav 32witi	TM37 Mon TM M38 Mon TM M39 Mon TM M39 Mon TM	YY [

y ID	Activity Name	Orig Dur Start	Finish	Late Start	Late Finish	Fical	TRA (Daj		41		42		43		44		Ja	45	
Bay B3 (L=1	10m)	33 25-Nov-22	05-Jan-23	19-Jan-23	15-Feb-23	29	2.0	0	28 04 11 18	25 02 09	16 23	30 06	13 20	27 04	11 18	25	01 08	15 2	2
4-4614	S3-B3 - Consturct Base slab	9 25-Nov-22	05-Dec-22	19-Jan-23	04-Feb-23	44	1.0							1					
																	_		
4-4616	S3-B3 - Consturct External Wall	9 23-Dec-22	05-Jan-23	06-Feb-23	15-Feb-23	29	1.0										-		
Sch_5A Retain	ning Walls and At-grade Road Works	339 11-Feb-22 A	06-Apr-23	19-Sep-22	26-Feb-26	854	177.0	1.1.1.1.1.1											
Retaining Wa	alis	339 11-Feb-22 A	06-Apr-23	19-Sep-22	26-Feb-26	854	134.0	0											
RW-S1		153 07-Jul-22 A	01-Feb-23	19-Sep-22	26-Feb-26	908	31.0	0											
								0											
5A-5052	RW-S1 - Construct Base Slab (Bay 1)	14 07-Jul-22 A	16-Sep-22 A	21-Sep-22	21-Sep-22		2.0	0											
5A-5051	RW-S1 - Plate Load Test and Report (P3)	4 15-Jul-22 A	19-Jul-22 A	21-Sep-22	21-Sep-22		0.0	0											
5A-5052A	RW-S1 - Construct Base Slab (Bay 2)	4 21-Jul-22 A	06-Aug-22 A	19-Sep-22	19-Sep-22														
5A-5037	RW-S1 - Plate Load Test and Report (P2)	5 27-Jul-22 A	31-Jul-22 A	10-Oct-22	10-Oct-22		1.0	0											
5A-5030A	RW-S1 - Construct Base Slab (Bay 12)	4 01-Aug-22 A	19-Aug-22 A	26-Feb-26	26-Feb-26														
5A-5048	RW-S1 - Construct Base Slab (Bay 3)	7 05-Aug-22 A	30-Aug-22 A	21-Sep-22	21-Sep-22		1.0	0											
5A-5056	RW-S1 - Construct Wall (Bay 2)	10 07-Aug-22 A	11-Oct-22	19-Sep-22	03-Oct-22	-6	3.0	0											
5A-5044	RW-S1 - Construct Base Slab (Bay 4)	7 30-Aug-22 A	24-Sep-22 A	21-Sep-22	21-Sep-22		1.0	0											
5A-5024	RW-S1 - Excavation down to formation level +2.9/+4.0	10 26-Sep-22	08-Oct-22	17-Oct-22	27-0d-22	16	2.0	0											
5A-5040	RW-S1 - Construct Base Slab (Bay 6/5)	14 26-Sep-22	13-0d-22	21-Sep-22	08-Oct-22	-4	2.0												
5A-5056A	RW-S1 - Construct Wall (Bay 1)	9 26-Sep-22	07-Oct-22	05-Oct-22	14-Oct-22	6													
5A-5056B	RW-S1 - Erect concrete block wall and baddfil (partial) - Bay 1	18 26-Sep-22	18-0d-22	06-Oct-22	26-0d-22	7					_								
5A-5054A					26-0d-22	7													
	RW-S1 - Erect concrete block wall and backfill (partial) - Bay 3	18 26-Sep-22	18-0d-22	06-0ct-22															
5A-5028	RW-S1 - Plate Load Test and Report (P1)	5 10-Oct-22	14-0d-22	28-Oct-22	02-Nov-22	16	2.0	_											
5A-5054	RW-S1 - Construct Wall (Bay 3)	10 12-Oct-22	22-0ct-22	05-Oct-22	15-Od-22	-6	1.0			-									
5A-5036	RW-S1 - Construct Base Slab (Bay 7)	7 14-Oct-22	21-0ct-22	10-Oct-22	17-0d-22	-4	1.0	0											
5A-5058A	RW-S1 - Fill upto formation level for 8A temp traffic deck	10 19-Oct-22	29-Oct-22	27-Oct-22	07-Nov-22	7													
5A-5032	RW-S1 - Construct Base Slab (Bay 9/8)	14 22-Oct-22	07-Nov-22	18-Oct-22	02-Nov-22	-4	2.0	0											
5A-5050	RW-S1 - Construct Wall (Bay 4)	9 24-Oct-22	02-Nov-22	17-Oct-22	26-Oct-22	-6	1.0	0			-	-							
5A-5046	RW-S1 - Construct Wall (Bay 6/5)	9 03-Nov-22	12-Nov-22	27-Oct-22	05-Nov-22	-6	1.0	0											
5A-5030	RW-S1 - Construct Base Slab (Bay 11/10)	21 08-Nov-22	01-Dec-22	03-Nov-22	26-Nov-22	-4	3.0	0				-		-					
5A-5042	RW-S1 - Construct Wall (Bay 7)	9 14-Nov-22	23-Nov-22	07-Nov-22	16-Nov-22	-6	1.0	0											
5A-5038	RW-S1 - Construct Wall (Bay 9/8)	9 24-Nov-22	03-Dec-22	17-Nov-22	26-Nov-22	-6	1.0	0											
5A-5034	RW-S1 - Construct Wall (Bay 12/11/10)	14 05-Dec-22	20-Dec-22	28-Nov-22	13-Dec-22	-6	2.0	0						_	<u> </u>				
5A-5058	RW-S1 - Fill upto formation level (SPT)	28 21-Dec-22	01-Feb-23	14-Dec-22	18-Jan-23	-6	4.0	0								-	_	_	
RW-52		192 08-Jul-22 A	02-Feb-23	15-Oct-22	26-Feb-26	907	28.0												
5A-5105	RW-S2 - Plate Load Test and Report (P3)	4 08-Jul-22 A	12-Jul-22 A	15-Oct-22	15-Oct-22														
5A-5113	RW-S2 - Plate Load Test and Report (P2) bay 0	5 09-Jul-22 A	12-Jul-22 A	15-Oct-22	15-Od-22		1.0	0											
5A-5424A	RW-52 - Construct Base Slab (Bay Oa)	20 13-Jul-22 A	15-Aug-22 A	26-Feb-26	26-Feb-26														
5A-5104	RW-S2 - Construct Wall (Bay 7)	5 20-Jul-22 A	10-Oct-22	01-Dec-22	13-Dec-22	55	1.0	0											
						55													
5A-5108	RW-S2 - Construct Wall (Bay 6)	5 20-Jul-22 A	19-Aug-22 A	14-Dec-22	14-Dec-22		1.0	0											
🛡 Current Mik	keteroo										10/202 11/4			Dete		Revision		Checked	Ар
Adual Work		al Kowloon Rout	e - Kai	Tak Eas	st (Mont	h 41 l	Jpda	ate) (Rev33- CSD)	Project ID: KTE Baseline:	-wiP33_M41			25-Apr-22 25-May-2		ly Updates D Programme Rev	30with M37 Mon.	TYY	DC DC
	maining Work				ing Prog					Layout: KTE - 3	Months Rolling F			25-Jun-22 25-Jul-22	Submit CS) Programme Rev) Programme Rev	31with M38 Mon.	TYY	DC DC
Remaining	INDEX.									Filter: TASK filt	ers: 3 Months Rol	ing_1, KTE - Su	bmission.	25-Aug-2	2 Submit CSI	D Programme Rev	32with M40 Mon.	TYY	DC
										Page 9 of 16				25-Sep-2	2 Submit CS	D Programme Rav	33with M41 Mon.		<u> </u>

Image: Constraint of the second sec	A 2656p-22 A 2556p-22 2 19-06-22 2 27-06-22 2 10-80-22 2 12-80-22 2 12-80-22 2 27-90-22 2 29-80-22 2 29-80-22 2 30-80-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 0-90-22 2 <th>1940v-22 1940v-22 15-0d-22 0940v-22 0740v-22 0740v-22 1740v-22 03-0e-22 1940v-22 03-0e-22 1940v-22 194</th> <th>15-0t-22 19-Nov-22 19-Nov-22 05-Nov-22 05-Nov-22 28-Nov-22 02-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 22-feb-23 22-feb-23 24-Apr-23</th> <th>Fical 45 45 15 17 15 17 15 17 15 17 17 17 17 17 17 17</th> <th>2.00 2.00 3.00 1.00 1.00 1.00 1.00 4.00 6.00</th> <th></th> <th></th>	1940v-22 1940v-22 15-0d-22 0940v-22 0740v-22 0740v-22 1740v-22 03-0e-22 1940v-22 03-0e-22 1940v-22 194	15-0t-22 19-Nov-22 19-Nov-22 05-Nov-22 05-Nov-22 28-Nov-22 02-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 13-Dec-22 22-feb-23 22-feb-23 24-Apr-23	Fical 45 45 15 17 15 17 15 17 15 17 17 17 17 17 17 17	2.00 2.00 3.00 1.00 1.00 1.00 1.00 4.00 6.00		
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82 02-Nov-		04-Apr-23	24-Apr-23	68	2.0		
		28-Nov-22	18-Apr-23	49	9.0		
7 02-Nov-		28-Nov-22	05-Dec-22	22	1.0		
7 21-Dec		31-Jan-23	07-Feb-23	26	1.0		
14 31-Des:		08-Feb-23	23-Feb-23	26	2.0		
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7 18-Jan-					1.0		
, 10 34		11-Apr-23	18-Apr-23	61			
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9 13-Dec		20-Mar-23	29-Mar-23	74	1.0		
7 21-Dec-		01-Apr-23	13-Apr-23	78	1.0		
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Table Lead Test and Report
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07-Feb-23
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Table Lead Test and Report
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Construct Base Slab (Bay 2) | 14 11-Wov-22 37 16-Dec.22 7 16-Dec.22 14 24-Dec.22 7 13-Jan-23 7 21-Jan-23 | 07-Feb-23
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Table Lead Test and Report
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| Reconstruct Kai Fuk Road (EB) / Road and Drainage works / | 28 29-Dec-22 | 07-Feb-23 | 15-Feb-23 | 18-Mar-23
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Gil Oheung Road U-turn for felsework(Bridge S2)
RR4V2F felseoworks and formwork (over K4 Oheung Road
US(R) (delework and formwork (over K4 Oheung Road | stbound S019/S020 113 26-05-22 Garby G31 Footing (EB) 2 2 2-05-22 Garby G31 Footing (EB) 2 2 2-05-22 Garby G31 Footing (EB) 2 2 2 garby G31 Footing Road U-tum for follework (MxH g3 CM) 3 2 2 R64/2F folleworks and formwork (over Kai Chaung Road 118 2 2 GG Rhaung Road U-tum (Bridge S1/S9) 6 2 2 2 Garbhaung Road U-tum (Bridge S1/S9) 2 3 2 2 2 | atbound S019/S020 101 26-06-22 16-Mar-23 Garby G31 Footing (EB) 2 2 26-06-22 26-Mar-23 Garby G31 Footing (EB) 2 2 2 0-Fré-23 Garby G31 Footing (EB) 2 2 0-Fré-23 2 attuct K4 Fikk Road (EB) / Road and Drainage worls/ 2 2 0-Fré-23 2 dt U-tarm 6 2 2 0-Fré-23 2 10-Oracl GG Ohaung Road U-tum for fielework (Mediga S2) 6 2 10-Oracl 2 10-Oracl 2 10-Oracl 10-Oracl 2 10-Oracl 10-Oracl | atbound S019/S020 111 26-06-22 16-Mar-33 024-00-22 Garthy G31 Footing (EB) 22 26-06-22 | atbound S019/S020 21 26-Occ 16-Merci 02-Merci Grampty G31 Footing (EB) 26 | atbound 501/5020 121 26-04:2 16-Ner-2 02-Nov:2 18-Ner-2 02-Nov:2 18-Ner-2 02-Nov:2 | atbound S019/S020 111 26-062 164-073 264-072 164-073 | atbound 5019/5020 11 2-6-06.2 16-Mar-2 02-Mor-2 18-Mar-2 2 10-Mar-2 Gambri GEB Color 2 62-06.2 2 64-06-2 02-Mor-2 < | atbound S019/S020 S1 26-Occ 16-Marco 02-More 16-Marco 16-Marco | atbound 5019/5020 11 26-062 16-Mar 02-Mor 18-Mar 02-Mor 19-Mar Garthy G31 Footing (EB) 26 26-062 26-Mor 02-Mor 03-Mor 04-Mor 4.0 Garthy G31 Footing (EB) 29 29-062 26-Mor 15-Hor 18-Har 3.4 4.0 attuct K4 Field Koad and Dainage works/ 26 29-062 07-Hor 18-Har 3.4 4.0 dL Harm 66 26-Sep2 16-Har 3.1-Oc 18-Har 4.0 4.0 GGArung Road U-Lum for fakework/Bidge S2/m 67-Mor 26-Sep2 18-Oc 18-Har 4.0 4.0 RR4/2F fakaoworks and formwork (over K4 Chaung Road 18 19-Oc 18-Oc 18-Oc 18-Oc 18-Oc 18-Oc 16-Oc Gardhaung Road U-Lum (Bridge S1/S9) 18 19-Oc 28-Oc 18-Oc 28-Hor 16-Oc 16-Oc Gardhaung Road U-Lum (Bridge S1/S9) 18 13-Oc 28-Hor 18-Oc 18-Oc 16-Oc 16-Oc 16-Oc 1 | atbound 5019/5020 11 26-08.2 16-Mar 02-More 18-Mar 02 19-rot Gambry G31 Footing (EB) 26 26-06.2 26-Mor 02-More 03-More 4.00 Gambry G31 Footing (EB) 28 26-06.22 26-More 15-More 18-Mar 4.00 attact K4 Field Kand And Dainage works/ 28 29-06.22 07-feb 15-More 18-Mar 4.00 dt L-turm 60 29-06.22 16-More 16-More 18-More 10.00 dt L-turm 66 26-Sep 18-More 24 10-More 10.00 GGAusing Road U-turm for fakework/Bridge S2/T 18 26-Sep 18-More 24 10-More 10-More RR4/2F fakaoworks and formwork (over K4 Chaung Road 18 19-Ode 18-More 18-More 28-More 14-More 6.00 Ga Chaung Road U-turm (Bridge S1/S9) 18 19-More 29-More 28-More 28-More 16-More Ga Chaung Road U-turm (Bridge S1/S9) 18 29-More 29-More < | atbound 5019/5020 11 26-062 16-Mar 10-Mar 10-Mar <th1< td=""><td>stbound 5019/5020 113 2-6-06.2 16-Mar-2 02-More 18-Mar-2 2 16-Mar-2 <th< td=""><td>stbound S01/S020 113 260x22 6164w2 2184w2 1844w2 120 Sambri G11 Footing (EB) 28 260x22 264w2 026w22 030e22 6 4.00 sinstruct K4 F4k Road (EB) / Road and Dainage work) 28 29bcw22 016w20 030e22 6 4.00 struct K4 F4k Road (EB) / Road and Dainage work) 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ity ID	Activity Name	Orig Dur Start	Finish	Late Start	Late Finish	Total	TRA (Da	6	September 41		October 42		November 43		De	cember 44		January 45	
						Ficat			41 28 04 11 18	25 02	09 16	23 30	43	20 27	04 11	18 2	5 01	08 15	22
5A-5842	KFR(EB) - 3 lanes - UU diversion for CLP/Towngas/HKT/HGC/HKBN; set-back	72 10-Aug-22 A	04-Nov-22	19-Oct-22	16-Nov-22	10													
5A-5848	KFR(EB) - 3 lanes - existing planter removal works	36 07-0ct-22	17-Nov-22	31-Dec-22	18-Feb-23	71				•									
5A-5840	KFR(EB) - 3 lanes - UU diversion for watermain and drainage; set-back	72 05-Nov-22	07-Feb-23	17-Nov-22	18-Feb-23	10									1 1				
SCH_6B Re-co	onstruction of Existing Box Culvert	30 26-Sep-22	01-Nov-22	24-Oct-22	26-Nov-22	22	0.0	0											
Box Culvert re	e-construction Works	30 26-Sep-22	01-Nov-22	24-Od-22	26-Nov-22	22	0.0	0											
BC- Reinstate	ement Works	30 26-5ep-22	01-Nov-22	24-Od-22	26-Nov-22	22	0.0	0											
6B-5782	BC - Reinstate hard paving and related UU	12 26-Sep-22	11-Oct-22	24-0d-22	05-Nov-22	22					-								
6B-5784	BC - Reinstate planter wall in DSD compound	12 12-0d-22	25-Oct-22	07-Nov-22	19-Nov-22	22						-							
6B-5786	BC - Transplant 5 nos of tree in DSD compound	3 12-0d-22	14-Oct-22	17-Nov-22	19-Nov-22	31		-											
6B-5788	BC - Reinstate fending in DSD compound	6 26-0d-22	01-Nov-22	21-Nov-22	26-Nov-22	22		- 1											
6B-5790	BC - Complete reconstruction of Box Culvert	0	01-Nov-22	LI NOT LL	26-Nov-22	22													
		6	014609-22	21.01.25		22													
	stablishment Works for Landscape Softworks under	512 01-May-21 A	25-5ep-22			1133		<u> </u>											
Sch_8 Establis		512 01-May-21 A		31-Od-25	31-Oct-25	1133	0.0												
8-6128	S4 - Establishment Works for Landscape Softworks under Section 3	365 01-May-21 A		31-Od-25	31-Oct-25	1133	0.0	0											
8-6130	S4 - Completion of the Works in Section 4	0	25-Sep-22		31-Oct-25	1133				'									
Section 6 - E	scape Route for Slip Road S6 Works (Subject to Exc	24 27-Dec-22	01-Feb-23	28-Dec-22	01-Feb-23	0	0.0	0											
Sch_5C S6 - D	Prainage and Road Works	24 27-Dec-22	01-Feb-23	28-Dec-22	01-Feb-23	0	0.0	0											
5C-6302	S6 - Access Date for Part 3C	0 27-Dec-22		28-Dec-22		1										•			
5C-6304	S6 - Initial Survey	24 28-Dec-22	01-Feb-23	28-Dec-22	01-Feb-23	0	0.0	0										_	_
Section 8 - V	entilation and E&M adit and Ring Road Underpass	325 28-Dec-21 A	10-Feb-23	15-Jul-22	26-Feb-26	900	84.0	0											
	ation and E&M Adit Works	315 28-Dec-21 A	30-Jan-23	22-Jul-22	22-Jan-24	292	21.0	0											
Area Part 1D1	1, 1D3, 1B1 & 1B2	248 28-Dec-21 A	27-Oct-22	22-Jul-22	23-May-23	164	8.0	0											
VA - Miscellar		248 28-Dec-21 A	27-Oct-22	22-Jul-22	23-May-23	164	8.0	0											
	Miscellaneous works	223 28-Dec-21 A	03-04-22	22-10-22	22-8/94-22	194	4.0												
6A-6606	VA - Baddilling up to GL with additional concrete blk end wall, Stage 1	16 28-Dec-21 A	25-Aug-22 A	22-Jul-22	22-Jul-22	101	4.0												
							4.0												
6A-6607	VA - Haul Road preparation & diversion, stage 1 (end May 2021)	6 26-Sep-22	03-Oct-22	17-May-23	23-May-23	184				_									
								0											
64-6610	VA - Baddfiling up to GL, Stage 3	56 25-Jul-22 A	27-Oct-22	22-Jul-22	20-Aug-22	-55	4.0	0		-		-							
6A-6612	Completion of Structure of vent. and E&M Adit within Parts 1B1, 1B2, 1D1, 1D3	0	27-Oct-22		20-Aug-22	-55						•							
Area Part 1C		98 08-Jul-22 A	30-Jan-23	30-May-23	22-Jan-24	292	13.0	0											
VA - Piling Wo	orks	24 08-Jul-22 A	23-Jul-22 A	30-May-23	30-May-23		0.0	0											
6A-6624	VA - PC1 Proof drilling & Piles testing	24 08-Jul-22 A	23-Jul-22 A	30-May-23	30-May-23		0.0	0											
VA - ELS Wor	ks (Parts 1C)	98 26-Sep-22	30-Jan-23	23-Sep-23	22-Jan-24	292	13.0	0											
6A-6626	VA - Mobilisation, 1C	6 26-Sep-22	03-Oct-22	23-Sep-23	29-Sep-23	292	0.0	0											
6A-6628	VA - Install Cofferdam, 1C	22 05-Oct-22	29-Oct-22	03-Oct-23	28-Oct-23	292	3.0	0											
6A-6632	VA - Excavation Down to 1st waling & Strut; Install waling & Strut, 1C	12 31-Oct-22	12-Nov-22	30-Oct-23	11-Nov-23	292	2.0	0					_						
6A-6633	VA - Excavation Down to 2nd waling & Strut; Install waling & Strut, 1C	13 14-Nov-22	28-Nov-22	13-Nov-23	27-Nov-23	292	2.0												
6A-6634	VA - Excavation Down to 3rd waing & Stud; Install waing & Stud; TC	16 29-Nov-22	16-Dec-22	28-Nov-23	15-Dec-23	292	2.0	1								_			
04-0034	ware conservation bown to pro waing a pour, install waing & Struc, IC	10 29-1407-22	10-Dec-22	20-NOV-23	15-Dec-23	292	2.0	Ľ							1	-			
Uurrent Mik	kstone									Project	D: KTE-WP33_M	11			Date		Revision		Checked App
Adual Wor	* Central K	owloon Rout	e - Kai	Tak Eas	st (Mont	h 41 l	Jpda	ate) ((Rev33- CSD)	Baselin	e:				25-May-22	M35 Monthly Updale Submit CSD Progra	mme Rev 30with	TY M37 Mon TY	Y DC
Critical Rem	naining Work				ing Prog			/1			KTE - 3 Months R				25-Jun-22	Submit CSD Progra Submit CSD Progra	mme Rev 31with	M38 Mon TY	
- warraning	(and the second s									Filter: T	ASK filters: 3 Mon	ns Rolling_1, KT	E - Submission.		25-Aug-22	Submit CSD Progra Submit CSD Progra	mme Rev 32with	M40 Mon., TY	
										Page 12	of 16				2000pr22	Courring ta	and new adwin	WHITELL	

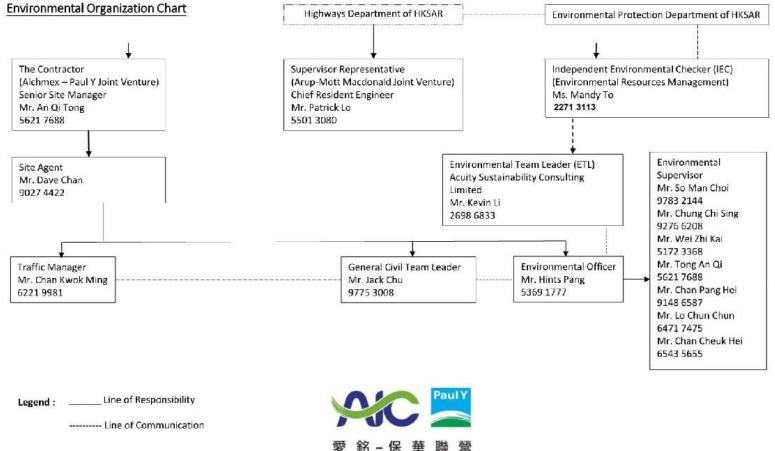
Activity Name	Orig Dur S	tart Finish	Late Start	Late Finish	Total Float	TRA (Day	September 41	October 42	November 43	December 44	January 45
VA - Excavation Down to 4th waling & Strut; Install waling & Strut; 1C	16 174	lec-22 07-Jan-2	3 16-Dec-23	06-Jan-24	292	2.00	28 04 11 18	25 02 09 16 23	30 06 13 20	27 04 11 18 25	01 08 15 22
					909	16.00					
					909	0.00					
(stage 1a +1b)											
(stage 2a+2b)	41 05-	xt-22 21-Nov-2	2 26-Oct-23	12-Dec-23	311						
	52 22-1	ov-22 31-Jan-2	3 29-Dec-25	26-Feb-26	909						
RR-R3 - Construct Top Slab	21 074	d-22 31-Od-2	? 10-Jun-23	06-Jul-23	196	2.00			-		
5011 CH0+146 to 0+161)	23 05-	xt-22 31-Oct-2	24-May-23	20-Jun-23	184	2.00					
RR-R4 - Construct Top Slab	23 05-	xt-22 31-Oct-2	24-May-23	20-Jun-23	184	2.00					
5011 CH0+161 to 0+180)	23 26-	ep-22 24-Oct-23	26-Jul-22	20-Aug-22	-52	2.00					
RR-R5 - Construct Top Slab	23 26-	ep-22 24-Od-2	26-Jul-22	20-Aug-22	-52	2.00	-				
5011 H0+180 to 0+193.3)	32 29-A	g-22 A 03-Nov-2	2 15-Jul-22	20-Aug-22	-61	4.00					
RR-R6 - Construct External Wall	24 29-A	g-22 A 07-Od-2	15-Jul-22	25-Jul-22	-61	2.00					
RR-R6 - Construct Top Slab	23 08-	xt-22 03-Nov-2	2 26-Jul-22	20-Aug-22	-61	2.00					
5011 CH0+193.3 to 0+211.6) (at-grade) (RU1)	150 23-A	x-22 A 21-Nov-2	2 26-Oct-23	12-Dec-23	311	0.00					
RR-RU1 - Construct Plantroom Top Slabs up to -0.675 (FS plantroom 2)	40 23-A	r-22 A 14-Sep-22	A 26-0d-23	26-Od-23							
RR-RU1 - Construct remaining wall				12-Dec-23	311						
			05-Aug-22	20-Aug-22	-43	2.00					
	23 05-9	p-22 A 13-Oct-2	05-Aug-22	20-Aug-22	-43	2.00					
5011 CH0+225 to 0+239) (at-grade) (RU3)	123 04-1	w-22 A 20-Ort-2	29-10-22	20-Aug-22	-49	2.00					
	9 04-M	w-22 A 09-Sen-22	A 29-10-22	29-14-22							
					.49	2.00					
	25 05 5			20 Aug 22	42	2.00					
	25 05 0	- 22 4 12 012	. 0090g/22	20%09/22	-72	2.00					
eous Works	76 26-	ep-22 24-Dec-2		27-Dec-23	293	24.00					
Aiscellaneous Works	50 26-	ep-22 24-Nov-2		15-Dec-23	311	8.00					
RR - Baddfiling up to GL. Stage 2	32 19-	xt-22 24-Nov-2	2 09-Nov-23	15-Dec-23	311	4.00					
RR - Movement joint / Waterproofing, Stage 4	24 04-6	ov-22 01-Dec-2	2 21-Jun-23	20-Jul-23	181	4.00				-	
RR - Baddfiling up to GL. Stage 4	24 18-	ov-22 15-Dec-2	2 07-Jul-23	03-Aug-23	181	4.00					
liscellaneous Works	62 14-	xt-22 24-Dec-2	2 20-Aug-22	27-Dec-23	293	8.00					
RR - Movement joint / Waterproofing, Stage 5	24 14-	kt-22 10-Nov-2	2 04-Nov-23	01-Dec-23	311	4.00					
for florence joiney frampioning, suges											
	Wit-Excertion Down to Sth walling & Strut; Indial walling & Strut; IC and Underpass LD2, LD3, LD4, LB1 & LB2 ms, Pump Sump & FS Plant Room with DCS Contractors (1002EM15A) RP: DCS pole king (sage 1) by DCS ontractors 16 Aug 22 to 9 Gt 22 (sage 1a + 16) RP: DCS pole king (sage 2) by DCS ontractors 10 xt 2022 to 21 Nov 2022 (sage 1a + 16) RP: DCS pole king (sage 2) by DCS ontractors 10 xt 2022 to 21 Nov 2022 (sage 2a + 26) RP: DCS pole king (sage 2) by DCS ontractors 22 Nov 22 - 31 Jan 23 D11 CH0+134 to 0+140. RR4 - Construct Top Side D11 CH0+161 to 0+161.01 RR4 - Construct Top Side D11 CH0+161 to 0+163.31 RR44 - Construct Top Side D11 CH0+151 to 0+140.01 RR44 - Construct Top Side D11 CH0+151 to 0+225) (al-grande) (RU1) RR4U - Construct Side Walls D11 CH0+123 to 0+225.01 (al-grande) (RU1) RR4U - Construct Side Walls D11 CH0+123 to 0+225.01 (al-grande) (RU1) RR4U - Construct Side Walls D11 CH0+225 to 0+225.01 (al-grande) (RU2) RR4U - Construct Side Walls D11 CH0+225 to 0+225.01 (al-grande) (RU3) RR4U - Construct Side Walls 14 pour RR4U -	With Excendence Nown to Shruning & Shut, Inc. 1 </td <td>With Example Dimension between gas Start, Inclusion and gas Start, Inclus</td> <td>With Excendent Down to Sh waing & Shut, Intell Waing & Shut, 1C 13 09-hn-23 30-hn-23 06-hn-24 And Underpass 212 24-pic-2A 10-fb-23 15-bit-22 LD2, LD3, LD4, LB1 & LB2 214 23-hyr-2A 31-har-23 15-bit-22 Intell DDE Contractor (1002EM19A) 214 23-hyr-2A 31-har-23 15-bit-22 RP: DS Spelsying (dage 1) by DCS omtactor 16 Aug 22 to 9 0A 22 44 05-042 21-hor-22 26-0423 RP: DS Spelsying (dage 1) by DCS omtactor 10 2022 to 21 Nov 2022 41 05-042 21-hor-22 26-0423 RP: DS Spelsying (dage 1) by DCS omtactor 10 2022 to 21 Nov 2022 41 05-0422 31-har-22 29-0625 11 CH0+134 to 0+140 724 05-0422 31-har-22 29-0625 11 CH0+134 to 0+160 723 05-0422 31-har-22 29-0625 11 CH0+146 to 0+150 723 05-0422 31-har-22 29-har-23 11 CH0+161 to 0+150.0 723 26-0422 20-har-24 29-har-24 11 CH0+161 to 0+150.0 723 28-har-24 70-052 15-har-24</td> <td>VinConstruction Down to Sth waining & Schut, Inc.Construction Down to Schut, I</td> <td>N- Boomston bow to shw using & Strut, Incl Ind 99-Sim-23 99-Sim-23 99-Sim-23 99-Sim-24 19-Sim 24 19-Sim 24 22-Sim 24 99-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 13-Sim 24 23-Sim 24 <t< td=""><th>N- Example on to 5h waing 6 Shut, Indail waing 6 Shut, IC Indail <thindail< th=""> Indail Indai</thindail<></th><td>Windpace 911 938-73 393-73 693-74 228 238-74 228 238-74 153-82 246-75 900 63.00 and Undergass 228 234-762 138-73 153-822 246-75 900 63.00 ns, Pampa Simp & F5 Fourt Room 224 234-762 138-73 155-622 246-75 900 63.00 No F5 Consequence (10020000) 24 246-724 138-73 156-622 246-725 900 7.00 Reb C5 consequence 10.022000 246-724 138-73 166-022 <t< td=""><td>With classified norms is the single state in the s</td><td>Web-admintore bin showing Sharb, hand wing Sharb, hand win</td><td>winder 10 90-00 9</td></t<></td></t<></td>	With Example Dimension between gas Start, Inclusion and gas Start, Inclus	With Excendent Down to Sh waing & Shut, Intell Waing & Shut, 1C 13 09-hn-23 30-hn-23 06-hn-24 And Underpass 212 24-pic-2A 10-fb-23 15-bit-22 LD2, LD3, LD4, LB1 & LB2 214 23-hyr-2A 31-har-23 15-bit-22 Intell DDE Contractor (1002EM19A) 214 23-hyr-2A 31-har-23 15-bit-22 RP: DS Spelsying (dage 1) by DCS omtactor 16 Aug 22 to 9 0A 22 44 05-042 21-hor-22 26-0423 RP: DS Spelsying (dage 1) by DCS omtactor 10 2022 to 21 Nov 2022 41 05-042 21-hor-22 26-0423 RP: DS Spelsying (dage 1) by DCS omtactor 10 2022 to 21 Nov 2022 41 05-0422 31-har-22 29-0625 11 CH0+134 to 0+140 724 05-0422 31-har-22 29-0625 11 CH0+134 to 0+160 723 05-0422 31-har-22 29-0625 11 CH0+146 to 0+150 723 05-0422 31-har-22 29-har-23 11 CH0+161 to 0+150.0 723 26-0422 20-har-24 29-har-24 11 CH0+161 to 0+150.0 723 28-har-24 70-052 15-har-24	VinConstruction Down to Sth waining & Schut, Inc.Construction Down to Schut, I	N- Boomston bow to shw using & Strut, Incl Ind 99-Sim-23 99-Sim-23 99-Sim-23 99-Sim-24 19-Sim 24 19-Sim 24 22-Sim 24 99-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 19-Sim 24 23-Sim 24 13-Sim 24 23-Sim 24 <t< td=""><th>N- Example on to 5h waing 6 Shut, Indail waing 6 Shut, IC Indail <thindail< th=""> Indail Indai</thindail<></th><td>Windpace 911 938-73 393-73 693-74 228 238-74 228 238-74 153-82 246-75 900 63.00 and Undergass 228 234-762 138-73 153-822 246-75 900 63.00 ns, Pampa Simp & F5 Fourt Room 224 234-762 138-73 155-622 246-75 900 63.00 No F5 Consequence (10020000) 24 246-724 138-73 156-622 246-725 900 7.00 Reb C5 consequence 10.022000 246-724 138-73 166-022 <t< td=""><td>With classified norms is the single state in the s</td><td>Web-admintore bin showing Sharb, hand wing Sharb, hand win</td><td>winder 10 90-00 9</td></t<></td></t<>	N- Example on to 5h waing 6 Shut, Indail waing 6 Shut, IC Indail Indail <thindail< th=""> Indail Indai</thindail<>	Windpace 911 938-73 393-73 693-74 228 238-74 228 238-74 153-82 246-75 900 63.00 and Undergass 228 234-762 138-73 153-822 246-75 900 63.00 ns, Pampa Simp & F5 Fourt Room 224 234-762 138-73 155-622 246-75 900 63.00 No F5 Consequence (10020000) 24 246-724 138-73 156-622 246-725 900 7.00 Reb C5 consequence 10.022000 246-724 138-73 166-022 <t< td=""><td>With classified norms is the single state in the s</td><td>Web-admintore bin showing Sharb, hand wing Sharb, hand win</td><td>winder 10 90-00 9</td></t<>	With classified norms is the single state in the s	Web-admintore bin showing Sharb, hand wing Sharb, hand win	winder 10 90-00 9

)	Activity Name	Orig Dur Staft	Finish	Late Start	Late Finish	Total Float	TRA (D	September 41	October 42	November 43	December 44	January 45
4-6806	Completion of Structure of Ring Road within Parts 1B1, 1B2, 1D1, 1D3 & 1D4	D	03-Nov-22		20-Aug-22	-61	0.	28 04 11 18	25 02 09 16 23	30 06 13 20 2	7 04 11 18 25	01 08 15 22
4-6804	RR - Final completion works	8 16-Dec-22	24-Dec-22	16-Dec-23	27-Deo-23	293	0.					
RR - Part 1C		120 08-Jul-22 A	10-Feb-23	30-May-23	14-0ct-23	201	23.					
RR - Piling Wo	orks	24 08-Jul-22 A	23-Jul-22 A	30-May-23	30-May-23		0.					
4-6818	RR - PC1 Proof drilling & Piles testing	24 08-Jul-22 A	23-Jul-22 A	30-May-23	30-May-23		0.					
RR - ELS Worl	ks (Parts 1C)	52 26-Sep-22	26-Nov-22	30-May-23	31-Jul-23	194	13.					
4-6820	RR - Mobilisation, 1C	6 26-Sep-22	03-Oct-22	30-May-23	05-Jun-23	194	0.		-			
4-6822	RR - Install Cofferdam, 1C	12 05-Oct-22	18-Oct-22	06-Jun-23	19-Jun-23	194	3					
4-6826	RR - Excavation Down to 1st waling & Strut; Install waling & Strut, 1C	11 19-Oct-22	31-Oct-22	20-Jun-23	04-Jul-23	194	4.					
4-6828	RR - Excavation Down to 2nd waling & Strut; Install waling & Strut; 1C	17 01-Nov-22	19-Nov-22	05-Jul-23	24-Jul-23	194	4.					
4-6832	RR - Excavation Down to Final Formation Level, 1C	6 21-Nov-22	26-Nov-22	25-Jul-23	31-Jul-23	194	2.			-		
RR - RC Struct	ture	56 28-Nov-22	10-Feb-23	01-Aug-23	14-Oct-23	201	10					
RR - Pile Cap	PC1	30 28-Nov-22	04-Jan-23	01-Aug-23	04-Sep-23	194						
4-6834	RR - Prepare Pile Head for PC1	14 28-Nov-22	13-Dec-22	01-Aug-23	16-Aug-23	194	2.					
4-6836	RR - Construct Pile Cap PC1	16 14-Dec-22	04-Jan-23	17-Aug-23	04-Sep-23	194	2.					
	(5011 CH0+118.88 to 0+130)	26 05-80-23	10-5eb-23	05-Sep-23	06-Oct-23	194	4					
4-6838	RR-R1 - Construct Base slab	12 05-Jan-23	18-Jan-23	05-5ep-23	18-Sep-23	194	2.					
4-6840	RR-R1 - Construct External Wall	14 19-Jan-23	10-Feb-23	19-Sep-23	06-Oct-23	194	2.					
	(S011 CH0+130 to 0+130)	10 19-Jan-23		01-Oct-23	14-0 d -23	205	2.					
4-6738	RR-R2 - Construct Base slab	10 19-Jan-23	06-Feb-23	04-Oct-23	14-Oct-23	205	2.					
ection 10 - I	Footbridge, E&M Installation and Miscellaneous Wo											
Sch_7 Abando	n Exisitng Subway KS-20	69 01-Aug-22 A	28-Dec-22	14-Oct-22	30-Dec-22	Z	14.					
KS-20 - Demo	blistion / Filling Works	69 01-Aug-22 A	28-Dec-22	14-Oct-22	30-Dec-22	2	14.					
Kai Fuk Road	(EB)	69 01-Aug-22 A	28-Dec-22	14-Oct-22	30-Dec-22	2	14.					
7-7324	KS20 - Brickwork wall for Subway	14 01-Aug-22 A	15-Aug-22 A	14-Od-22	14-Oct-22							
7-7326	KS20 - Foamed concrete infill / Non-shrink grout	6 16-Aug-22 A	22-Aug-22 A	14-Oct-22	14-Oct-22							
7-7316	KS20 - Demolish extg ramp upper part down to +2.50	21 06-Sep-22 A	15-Sep-22 A	14-Oct-22	14-0d-22		3.					
7-7314	KS20 - Instal sheetpile along Kai Fuk Road Ramp (EB)	11 20-Sep-22 A	24-Sep-22 A	14-Oct-22	14-Oct-22		2					
7-7318	KS20 - General fill to formation level (Ramp) / Utilities diversion / Laying inside	16 07-Od-22	25-Oct-22	14-Oct-22	01-Nov-22	6	2					
7-7320	subway S019 - Reconstruct Bus Stop Bay (Permanent) (Kai Fuk Road EB)	28 31-Oct-22	01-Dec-22	02-Nov-22	03-Dec-22	Z	4.				•	
7-7322	KS20 - Reinstate Footpath / Road pavement	21 02-Dec-22	28-Dec-22	05-Dec-22	30-Dec-22	2	3.					
7-7334	KS20 - Complete Abandon of Existing Subway	0	28-Dec-22		30-Dec-22	2					-	
	Structure of Bridge CKRE	254 21-Mar-22 A	22-Feb-23	24-5ep-22	25-Feb-23	3	20					
	ge CKRE Works	254 21-Mar-22 A	22-Feb-23	24-5ep-22	25-Feb-23	3	20					
		182 21-Mar-22 A		24-Sep-22	29-Dec-22	62	9.					
	ips, Pier / Abutment											
Abutment A-K		68 21-Mar-22 A	15-Oct-22	24-Sep-22	29-Dec-22	62	4.					
3.10-7536	CKRE - Construct Abutment A-K1-CKRE	20 21-Mar-22 A	30-Aug-22 A		24-Sep-22		4.					
3.10-7538	OKRE - A-K1-OKRE Install Permeate Membrane and Baddill	9 06-Od-22	15-Od-22	17-Dec-22	29-Dec-22	62	0.					
	· · · · · · · · · · · · · · · · · · ·										Date Red	sion Checked A
Current Mile		wloon Pour	o Kei	Tak Eas	t (Mont	6 <i>4</i> 1 1	llnd	e) (Rev33- CSD)	Project ID: KTE-WP33_M41 Baseline:		25-Apr-22 M36 Monthly Updates	Rev 30with M37 Mon TYY DC
Actual Work												
Critical Rem	aining Work							, (Layout: KTE - 3 Months Rolling Pr		25-Jun-22 Submit CSD Programme	Rev 31with M38 Mon TYY DC
	aining Work				ing Prog			, (Layout: KTE - 3 Months Rolling Pr Filter: TASK filters: 3 Months Rolling		25-Jun-22 Submit CSD Programme 25-Jul-22 Submit CSD Programme	Rev 31wth M38 Mon TYY DC Rev 32wth M39 Mon TYY DC Rev 32wth M39 Mon TYY DC Rev 32wth M40 Mon TYY DC

Pier K5-CKRE-2		Orig Dur S	at Finish	Late Start	Late Finish	Total T Float	RA (Day)	September 41		42	43	Uecer 44			45	
	2	5 02-34	I-22 A 07-Jul-22 A	24-5ep-22	24-Sep-22		1.00	28 04 11 18	3 25	02 09 18 23	3 30 06 13 20	27 04 11	18 25	01 08	15	22
3.10.7556	CKRE - KS-CKRE-2 Reinstatement of Slab of Kai Tak River; remaining works	5 02-1	-22 A 07-Jul-22 A		24-Sep-22		1.00									
Abutment A-K4		182 21-M			03-Oct-22	2	4.00									
3.10-7570	OKRE - Construct Abutment Base A-K4-OKRE		r-22 A 10-Sep-22		28-5ep-22	•	1.00									
3.10-7572	OKRE - Construct Abutment A-K4-OKRE	22 13-Se			28-Sep-22		3.00									
3.10-7574	OKRE - A-K4-OKRE Install Permeate Membrane and Baddrill	9 20-Se			03-Oct-22	2	0.00									
CKRE - Deck		90 05-Se		24-Sep-22	21-Jan-23	6	8.00									
CKRE- Span K1-	-CKRE - K5-CKRE	42 05-Se	p-22 A 16-Nov-22	24-Sep-22	13-Dec-22	23	4.00									
3.10-7578	OKRE - Span K1-K5 Falsework and formwork	18 05-Se		24-5ep-22	03-Oct-22	-1	4.00									
3.10-7580	CKRE - Span K1-K5 Install Bearings	6 27-5	ap-22 05-Oct-22	26-Oct-22	01-Nov-22	23	0.00			-						
3.10-7582	CKRE - Span K1-K5 Web and Soffit	20 06-0	d-22 28-Oct-22	02-Nov-22	24-Nov-22	23	0.00				•					
3.10-7584	CKRE - Span K1-K5 Deck Sedion	16 29-0	d-22 16-Nov-22	25-Nov-22	13-Dec-22	23	0.00									
CKRE- Span K5	-CKRE - K4-CKRE	84 06-0	d-22 14-Jan-23	05-Oct-22	21-Jan-23	6	4.00									
3.10-7598	CKRE - Span K5-K4 Falsework and formworks	18 06-0	d-22 26-Od-22	05-Oct-22	25-Od-22	-1	4.00									
3.10-7600	CKRE - Span K5-K4 Install Bearings	6 27-0	d-22 02-Nov-22	26-Oct-22	01-Nov-22	-1	0.00									
3.10-7602	CKRE - Span K5-K4 Web and Soffit	20 03-N	ov-22 25-Nov-22	02-Nov-22	24-Nov-22	-1	0.00									
3.10-7604	CKRE - Span K5-K4 Deck Sedion	16 26-N	ov-22 14-Dec-22	25-Nov-22	13-Dec-22	-1	0.00									
3.10-7592	CKRE - C-Span Post-tensioning and Grouting (Stage 1)	12 15-0	ec-22 30-Dec-22	14-Dec-22	29-Dec-22	-1						-		1		
3.10-7607	CKRE - Bridge CKRE Remove Falsework and Formwork	12 31-0	ec-22 14-Jan-23	09-Jan-23	21-Jan-23	6									-	
CKRE - Miscellar		39 31-0			25-Feb-23	3	3.00									
CKRE - Works fi	or Section 11	39 31-0	ac-22 22-Feb-23	30-Dec-22	25-Feb-23	3	3.00									
3.10-7608	BEM - CKRE - Install Parapet Wall / TCSS duct (L)	39 31-0		30-Dec-22	21-Feb-23	-1	3.00									
3.10-7613	OKRE - End wall construction (Abutment)	24 16-3		30-Jan-23	25-Feb-23	6	5.00									
	Cruc End Marchaecaon (Podencing)	21 200	1010010													
		432 25-0	521 A 19-April 22	09-00-22	21-5cb-24	249	18.00									
Section 12 - Ur		432 25-0	5-21 A 19-Apr-23	09-Dec-22	21-Feb-24	248	18.00									
Section 12 - U Sch_4.3 Slip Roa	ad Underpass S21	432 25-0 432 25-0		09-Dec-22 09-Dec-22	21-Feb-24 21-Feb-24	248 248	18.00 18.00									
Section 12 - Un Sch_4.3 Slip Roa S21 - RC Struct	ad Underpass 521 ure	12 26-5	ap-22 11-Oct-22	16-Dec-22	21-Feb-24 21-Feb-24 31-Dec-22	248 248 68	2.00									
Section 12 - Ur Sch_4.3 Slip Roa S21 - RC Struct S21 - U-Trough	ad Underpass 521 ure Sections - South (CH000 to CH143,981)	12 26-5 12 26-5	ap-22 11-Oct-22		21-Feb-24 21-Feb-24	248 248										
Section 12 - Un Sch_4.3 Slip Roz S21 - RC Struct S21 - U-Trough S21 - Bay B2 - 1	ad Underpæs 521 ure Sections - South (CH000 to CH143.981) 10 - At Gravide Silab (CH1099.376 to 000)	12 26-5 12 26-5 12 26-5	p-22 11-Od:-22 p-22 11-Od:-22 p-22 11-Od:-22	16-Dec-22 16-Dec-22 16-Dec-22	21-Fd>-24 21-Fd>-24 31-Dec-22 31-Dec-22 31-Dec-22	248 248 68 68 68	2.00 0.00 0.00									
Section 12 - Un Sch_4.3 Slip Roz S21 - RC Struct S21 - U-Trough S21 - Bay B2-1 4-7812	ad Underpæss 521 ure Sections - South (CH000 to CH143.981) 10 - At Gravits Silab (CH1005.376 to 000) (S2143-10 - Construct Af Gode skib	12 265 12 265 12 265 12 265 12 265	p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22	16-Dec-22 16-Dec-22 16-Dec-22 16-Dec-22	21-fd>24 21-fd>24 31-Dec22 31-Dec22 31-Dec22 31-Dec22	248 248 68 68 68 68 68	2.00 0.00 0.00									
Section 12 - Un Sch_4.3 Slip Roz S21 - RC Struct S21 - U-Trough S21 - Bay B2-1 4-7812 S21 - U-Trough	ad Underpass 521 ure Sections - South (CH000 to CH143,981) 10 - At Grade Slab (CH009,376 to 000) [521432-10 - Construct Af Gode Sab Sections - North (CH205,700 to CH354,957)	12 26-5 12 26-5 12 26-5	p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22	16-Dec-22 16-Dec-22 16-Dec-22	21-Fd>-24 21-Fd>-24 31-Dec-22 31-Dec-22 31-Dec-22	248 248 68 68 68	2.00 0.00 0.00									
Section 12 - Un Sch_4.3 Slip Roz S21 - RC Struct S21 - U-Trough S21 - Bay B2-1 4-7812 S21 - U-Trough	ad Underpæss 521 ure Sections - South (CH000 to CH143.981) 10 - At Gravits Silab (CH1005.376 to 000) (S2143-10 - Construct Af Gode skib	12 265 12 265 12 265 12 265 12 265	p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22 p-22 11-Ott-22	16-Dec-22 16-Dec-22 16-Dec-22 16-Dec-22	21-fd>24 21-fd>24 31-Dec22 31-Dec22 31-Dec22 31-Dec22	248 248 68 68 68 68 68	2.00 0.00 0.00									
Section 12 - Ur Sch_4.3 Slip Roa S21 - RC Struct S21 - U-Trough S21 - Bay B2 - 1 4-7812 S21 - U-Trough	ad Underpass 521 ure Sections - South (CH000 to CH143,981) 10 - At Grade Slab (CH009,376 to 000) [521432-10 - Construct Af Gode Sab Sections - North (CH205,700 to CH354,957)	12 26-5 12 26-5 12 26-5 12 26-5 12 26-5 12 26-5	p-22 11-Od:22	16-Dec-22 16-Dec-22 16-Dec-22 16-Dec-22	21-fd>24 21-fd>24 31-Dec22 31-Dec22 31-Dec22 31-Dec22	248 248 68 68 68 68 68	2.00 0.00 0.00									
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Activity ID	Activity Name	Orig D.	r Start	Finish	Lale Start	Late Finish	Total T Ficat	TRA (Døy)	September 41	_		October 42			,	43		-	C	ecember 44		_	Ja	nuary 45	uary 46
S21 - Roads an	nd Pavings	8	03-Jan-23	19-Apr-23	03-Jan-23	21-Feb-24	248	10.00	28 04 11 18	25	02	09 10	23	30	06	13	20	27	04	1 1	8 25	01	08	15	22 29
4-7876	S21 - Install Profile Barriers (1) (ind. TCSS duding)		03-Jan-23*	31-Mar-23	03-Jan-23	31-Mar-23	0	5.00														_			
4-7878	S21 - Install Profile Barriers (2) (ind. TCSS duding)		17-Jan-23	19-Apr-23	22-Nov-23	21-Feb-24	248	5.00																_	
Section 17 - S	Sleeve pipes for District Cooling System (Subject to	12	25-Apr-22 A	26-Sep-22	22-Sep-22	12-Dec-22	65	3.00																	
	pipes for DCS (Kai Tak River West)		26-5ep-22	26-Sep-22	22-5ep-22	22-Sep-22	-2	3.00																	
DCS-West Sed			26-5ep-22	26-Sep-22	22-5ep-22	22-Sep-22	-2	3.00																	
10-8478	DCS(W)_A - Reinstatement (Pavement / fencing / etc.)		26-Sep-22	26-Sep-22	22-Sep-22	22-Sep-22	-2	3.00																	
	pipes for DCS (Kai Tak River East)		25-Apr-22 A		12-Dec-22	12-Dec-22	65	0.00																	
sector and the sector se	ion 1 (approx 37.5m)		25-Apr-22 A	26-Sep-22	12-Dec-22	12-Dec-22	65	0.00																	
10-8524A	DCS(E) - Baddfiling works in DCS area (up to G.L.)		25-Apr-22 A		12-Dec-22	12-Dec-22	65																		
	ion 2 (approx 37.5m)		25-Apr-22 A	26-Sep-22	12-Dec-22	12-Dec-22	65	0.00																	
10-8536A	DCS(E) - Badfilling works in DCS area (up to G.L.)		25-Apr-22 A		12-Dec-22	12-Dec-22	65	0.00		L															
10-8536A	DLS(E) - Badmiing works in DLS area (up to G.E.)	2	25-Apr-22 A	26-Sep-22	12-Dec-22	12-Dec-22	65			Ē															
Current Miles Actual Work Critical Remaining V	anng Work Central K	(owlo				t (Montl ng Prog			te) (Rev33- CSD)		Project ID: Baseline: Layout: K1 Filter: TAS	'E - 3 Mont	ns Rolling I			mission.		25 25 25 25	Date Apr-22 May-22 Jun-22 Jun-22 Aug-22 Sep-22	Submit C Submit C Submit C Submit C	thly Updates SD Piogram SD Piogram SD Piogram SD Piogram	evision me Rev 30w me Rev 31w me Rev 32w me Rev 32w me Rev 33w	th M38 Mon. Ih M39 Mon. Ih M40 Mon.	TYY TYY TYY TYY TYY	Approved DC DC DC DC DC DC DC

Appendix C Project Organization Chart



多 站 一 沐 華 哪 宮 Alchmex - Paul Y Joint Venture

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

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

EVENT	ACTION			
EVENI	ЕТ	IEC	ER	CONTRACTOR
	 3.Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5.Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	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	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; 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. 	 to avoid further exceedance; 2.Submit proposals for remedial actions to IEC within 3 working days of notification; 3.Implement the agreed proposals; 4.Resubmit proposals if problem still not under control;

Note:

ET – Environmental Team

ER – Engineer's Representative

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

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

Note:

ET – Environmental Team

IEC – Independent Environmental Checker

ER – Engineer's Representative

Appendix F Environmental Mitigation Implementation Schedule (EMIS)

Environm	ental M	itigation Implementation Schedule – Contra	ict No.: $HY/20$	18/02 (Kai Tak I	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				
S4.3.10	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	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented
S4.3.10	D2	• Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m ² to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented after reminder
xS4.3.10	D3	 Proper watering at exposed spoil should be undertaken throughout the construction phase; Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; 	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact to meet HKAQO and TM-EIA criteria 	Implemented

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
		 The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle. Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing facilities and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period; The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Any skip hoist for material transport should be totally enclosed by impervious sheeting; 						

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
		 Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies. 						
S4.3.10	D6	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	• TM-EIA	Implemented
			Construction	n Noise (Airborne)				
S5.4.1	N1	 Implement the following good site practices: Only well-maintained plant should be operated onsite, and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; 	Control construction airborne noise	Contractor	All construction sites	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
		 Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. 						
\$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
S5.4.1	N7	Implement a noise monitoring programme under EM&A	reduce the construction airborne noise Monitor the	Contractor	Selected rep.	Construction stage	• TM-EIAO	Implemented
		programme.	construction noise levels at the selected representative locations		noise monitoring station			
			Water Quality	(Construction Phase	se)			
S6.9.1.1		 In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: <u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or 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; 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 	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	Implemented 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
		 incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction; All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means; The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows; All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; 						

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
		 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; Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes; All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing 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 						

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
		 the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby; Adopt best management practices; All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable. 						
S6.9.1.2	W2	 <u>Tunneling Works and Underground Works</u> Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable. Uncontaminated discharge should pass through sedimentation tanks prior to off-site discharge; 	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-DSS TM-EIAO 	N/A

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
		 The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater; Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 						
S6.9.1.3	W3	 Sewage Effluent Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance TM-DSS 	Implemented
\$6.9.1.5	W4	 Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted. A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The 	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	 Water Pollution Control Ordinance TM-DSS TM-EIAO 	Implemented

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
		 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. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. If groundwater recharging wells are deployed, recharging 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. 						

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.						
\$6.9.1.6	W6	 <u>Accidental Spillage</u> In order to prevent accidental spillage of chemicals, the following is recommended: All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains; The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings. Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation. 	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	Implemented
			Waste Managem	ent (Construction Wa	ste)			
S7.4.1	WM1	 On-site sorting of C&D material 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 	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
S7.5.1	WM2	 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. Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible; Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; and Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction. 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	Implemented

EIA Ref.	EM& A Log Ref.	Recommended Mitigation Measures C&D Waste	Objectives of the Recommended Measures & Main Concerns to address Good site	Implementation Agent Contractor	Location / Timing All	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
57.5.1	W M 3	 Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage. 	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	Implemented
\$7.5.1	WM4	 Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below. 	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land GN/GM for land contamination 	Implemented

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	WM5	 All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations; Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; The Contractors shall comply with the conditions in the dumping license. All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; 	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
		 Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; Discharge shall be undertaken rapidly, and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal. 						
S7.5.1	WM6	 Chemical Waste Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	Implemented 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
		 Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD. 						
\$7.5.1	WM7	 General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes; A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible; 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance	Implemented

EIA Ref.	EM& A Log Ref.	 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. 	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
			Land	Contamination				
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 excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable. 	The contaminated soil will be excavated for on-site reuse	Contractor	PBH4	Prior to commencement of construction works within the contaminated area	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land Guidance Notes for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-Based 	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	LC4	 If the results of analysis below the RBRGs (Public Park), no further excavation will be required. If the analysis indicates presence of contamination (i.e. noncompliance of the acceptance criteria), further excavation shall be carried out in 0.5m increment vertically and/or horizontally depending on the location(s) of the sample(s) which has exceeded the acceptance criteria. Further sampling shall also be conducted for compliance testing. The process of excavation, sampling and compliance testing should continue until all contaminated materials are removed and should be supervised by a Land Contamination Specialist. A Remediation Report (RR) to demonstrate adequate alego up chall be prometed and supervised to ERD for 						N/A
8.4		clean-up shall be prepared and submitted to EPD for endorsement prior to the commencement of any construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.						
S9.18		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	card to Life	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

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	 <u>Good Site Management</u> Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance. Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	<u>Screen Hoarding</u> • Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV5	 <u>Lighting Control during Construction</u> All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts. 	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV6	 <u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil. 	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV7	<u>Tree Protection & Preservation</u> • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area 	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	Tree Transplantation • For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected	Minimize landscape and visual impact	Contractor	Within Project site and designated off- site locations	Prior to Construction stage	 Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from GLTM Section, DEVB ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, 	N/A
S10.10.1	LV9	by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	Minimize	Contractor	Within Project	Construction stage	Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004 • ETWB TCW	N/A
Table 10.11		• 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	visual impact and also enhance landscape		site		 Latest recommended horticultural practices from 	

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
		 felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006. Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works 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. 					Greening, Landscape and Tree Management (GLTM) Section, DEVB • ETWB TCW 2/2004	
S10.10.1 Table 10.11	LV10	 Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment. 	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	N/A
S10.10.1 Table 10.11	LV12	Reinstatement • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	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
		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	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented
\$13.2- 13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual; Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented

Appendix G Monitoring Schedule of the Reporting Month

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

Tentative Environmental Monitoring Schedule (October 2022)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
25	26	27	28	29	30	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	17 Impact Dust Monitoring (E-A1)	18	19	20	21	22 Impact Dust Monitoring (E-A1)
23	24	25	26	27	28 Impact Dust Monitoring (E-A1)	29
30	31	1	2	3	4	5

Appendix H Calibration Certificates (Air Monitoring)





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

27-Mar-22	to	3-Apr-22
4-Apr-23		
Sibata LD-5R		
882150		
RPT-22-HVS-0001	L	
	4-Apr-23 Sibata LD-5R 882150	4-Apr-23 Sibata LD-5R

Standard Equipment Information							
Verification Equipment Type		Tisch's TSP	Tish HVS				
vernication Equipment Type		HVS	Calibrator				
Standard Equipment Model No.		TE-5170X	TE-5028A				
Equipment serial no.	MFC	1049	3702				
Last Calibration Date		22-Mar-22	3-Aug-21				
Next Calibration Date		21-Jun-22	4-Aug-22				

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	27/3/2022	4945.81	4949.09	196.80	0.00087	58	11349	R220486/1	50
2	27/3/2022	4949.09	4952.83	224.40	0.00078	68	15259	R220486/2	53
3	27/3/2022	4952.83	4956.42	215.40	0.00077	62	13283	R220486/3	47
4	3/4/2022	4991.80	4995.40	216.00	0.00042	53	11448	R220538/1	22
5	3/4/2022	4995.40	4998.79	203.40	0.00040	58	11729	R220538/2	23
6	3/4/2022	4998.79	5002.26	208.20	0.00060	61	12770	R220538/3	37
					0.00064				

0.6

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

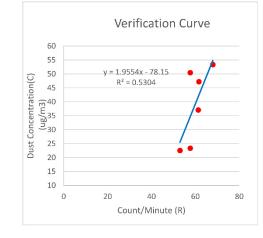
By Linear Regression of y on x:

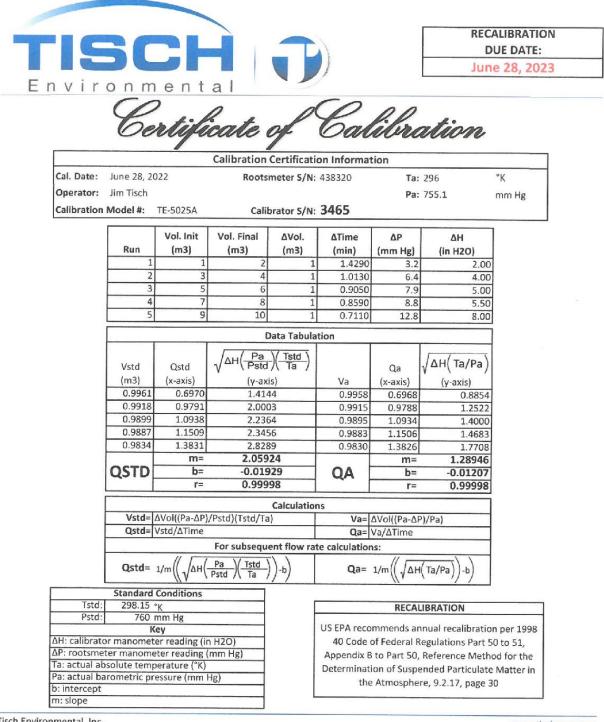
slope, mh= 1.9554 intercept,ch= -78.1505 *Correlation Coefficient,R= 0.7283

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

verification are required.

Date: 14-04-2022





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

InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

			BRATION Information	DATA SH	EET (TSP)				
.			mormation						
Location:	Emax	Site ID:		Date:	28-Sep-2022				
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong				
Ambient Condition									
Corrected Press	sure (mm Hg):	756.1	Temperature	(deg K):	302.0				
		Calib	oration Orifice	e					
Model:		Г	E-5028A	Slope:	1.03041				
Serial No.:			3702	Intercept:	-0.00231				
Calibration Due	Date:	1	2-0ct-22	Corr. Coeff:	0.99975				
		Cali	bration Data	1					
Plate or	In,H20		a, X-Axis	I, CFM	IC, Y-Axis				
Test #	(in)		m3/min)	(chart)	(corrected)				
1	1.58		1.211	32.4	32.10				
2	2.11		1.399	33.6	33.29				
3	2.34		1.473	34.1	33.79				
4	2.73	1.591		34.7	34.38				
5	3.48		1.796	36.1	35.77				
Sampler Calibta	ation Relationship (Qa or	ı x-axis, IC	on y-axis)						
Sampler Calibta m=	ation Relationship (Qa or 6.2034	n x-axis, IC b=	on v-axis) 24.5992	_	Corr. Coeff= 0.9992				
m=				-	Corr. Coeff= 0.9992				
m=	6.2034	b= 32	24.5992	-	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta))	b= 	24.5992 CFM Calculations m = sampler s		Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta))	b= 	24.5992 CFM Calculations m = sampler s b = sampler in	tercept	Corr. Coeff= 0.9992				
m= Sampl Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)]	b= 	24.5992 CFM Calculations m = sampler s b = sampler in I = chart respo	tercept	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate	b= 	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate nart response	b= 	24.5992 CFM Calculations m = sampler s b = sampler in I = chart respo	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate aart response esponse	b= 	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r m = calibrator Q	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate lart response esponse lstd slope	b= 	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch i = actual chart r m = calibrator Q to = calibrator Qs Ta = actual temp	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate esponse esponse esponse std slope std slope std intercept erature during calibration	b= 32 -b] (deg K)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch IC = actual chart r m = calibrator Qs D = calibrator Qs Ta = actual temp Pa = actual press	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate lart response esponse lstd slope std intercept lerature during calibration sure during calibration (mi	b= 32 -b] (deg K)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r m = calibrator Qs b = calibrator Qs Ta = actual temp	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate lart response esponse lstd slope std intercept lerature during calibration sure during calibration (mi	b= 32 -b] (deg K)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r m = calibrator Qs b = calibrator Qs Ta = actual temp Pa = actual temp Pa = actual press Tstd = 298 deg K Pstd = 760 mm F	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate easponse esponse est distope std slope std slope std intercept erature during calibration (mil c lg	-b] -b] (deg K) m Hg)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r m = calibrator Q b = calibrator Q b = calibrator Q Ta = actual temp Pa = actual press Tstd = 298 deg K Pstd = 760 mm F For subsequent of	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate esponse esponse est std slope std slope std intercept erature during calibration sure during calibration (min	-b] -b] (deg K) m Hg)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				
m= Sample Qstd = 1/m[Sqrt IC = I[Sqrt(Pa/Ps Qstd = standard IC = corrected ch I = actual chart r m = calibrator Q b = calibrator Q fa = actual temp Pa = actual press Tstd = 298 deg K Pstd = 760 mm F For subsequent of	6.2034 er set point(SSP) (H2O(Pa/Pstd)(Tstd/Ta)) std)(Tstd/Ta)] flow rate hart response esponse esponse std slope std intercept werature during calibration ure during calibration (mic calibration of sampler flow	-b] -b] (deg K) m Hg)	24.5992 CFM Calculations m = sampler in I = chart respo Tav = average t	tercept onse cemperature	Corr. Coeff= 0.9992				

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HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information						
Emax	Site ID:		Date:	11-0ct-2022		
1049	Model:	TE-5170X	Operator:	Kate Wong		
		Emax Site ID:	Emax Site ID:	Emax Site ID: Date:		

Ambient Condition					
Corrected Pressure (mm Hg):	762.7	Temperature (deg K):	297.3		

Calibration Orifice

Model:	TE-5028A	Slope:	1.03041
Serial No.:	3702	Intercept:	0.00231
Calibration Due Date:	25-Oct-22	Corr. Coeff:	0.99975

Calibration Data

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.74	1.282	32.2	32.29
2	2.42	1.512	34.6	34.70
3	2.66	1.585	35.5	35.60
4	3.09	1.709	37.1	37.21
5	3.85	1.908	39.2	39.32

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

m=	11.3568	b=	17.6651	Corr. Coeff=	0.9992
Samp	ler set point(SSP)	31	CFM		
Qstd = 1/m[Sqr IC = I[Sqrt(Pa/F	t(H2O(Pa/Pstd)(Tstd/Ta))-I Pstd)(Tstd/Ta)]		Calculations m = sampler slope b = sampler intercept I = chart response		
Qstd = standard IC = corrected c			Tav = average temperature Pav = average pressure		
I = actual chart : m = calibrator (b = calibrator Q	response Qstd slope		01		
Ta = actual tem Pa = actual pres	perature during calibration (sure during calibration (mm				
•					
Checked by:	黄雪莺		Date:	11-0	ct-22

InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information

Location:	Emax	Site ID:		Date:	24-Oct-2022
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

Ambient Condition Corrected Pressure (mm Hg): 762.1 Temperature (deg K): 298.4

Calibration Orifice						
Model: TE-5028A Slope: 1.64554						
Serial No.:	3702	Intercept:	-0.00368			
Calibration Due Date:	7-Nov-22	Corr. Coeff:	0.99975			

Calibration Data Plate or In,H2O Qa, X-Axis I, CFM IC, Y-Axis Test # (in) (m3/min) (chart) (corrected) 0.762 31.63 1 1.56 31.6 0.873 33.23 2 2.05 33.2 3 2.29 0.923 33.8 33.83 4 2.88 1.034 35.6 35.63 5 1.099 36.43 3.25 36.4

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

m=	14.4274	b=	20.6132	Corr. Coeff=	0.9993
Sample	er set point(SSP)	38	CFM		
IC = I[Sqrt(Pa/Ps Qstd = standard f IC = corrected ch I = actual chart re m = calibrator Qs Ta = actual temp Pa = actual temp Pa = actual press Tstd = 298 deg K Pstd = 760 mm H For subsequent c	low rate art response esponse std slope td intercept erature during calibration (ure during calibration (mm	o] (deg K) v Hg)	Calculations m = sampler slope b = sampler intercept I = chart response Tav = average temperature Pav = average pressure		
Checked by: _	黄雪街		Date:	24-00	rt-22

Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



Appendix J Location Plan of Air Quality Monitoring Station

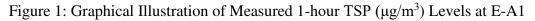


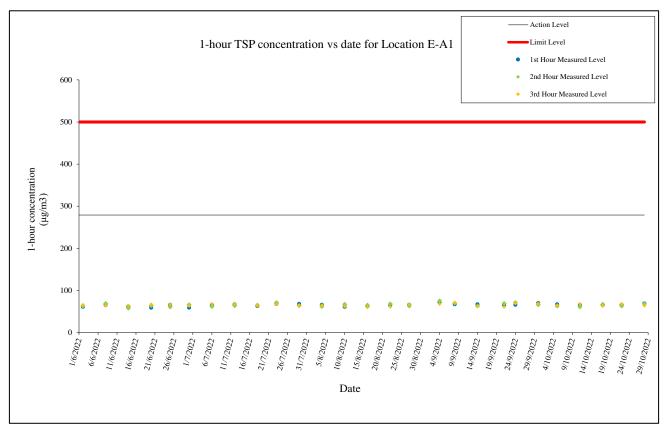
Acuity Sustainability Consulting Limited

Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	5, 11, 17, 22 and 28 October 2022
Parameter:	TSP 1-hour
Other Factors:	Nearby traffic

Date	Weather	Start Time	1 st hour (μg/m ³)	2 nd hour (μg/m ³)	3 rd hour (μg/m ³)
5 October 2022	Sunny	12:30	67	63	65
11 October 2022	Sunny	12:16	66	61	68
17 October 2022	Sunny	12:10	65	67	63
22 October 2022	Sunny	13:24	66	63	68
28 October 2022	Sunny	13:27	69	68	64





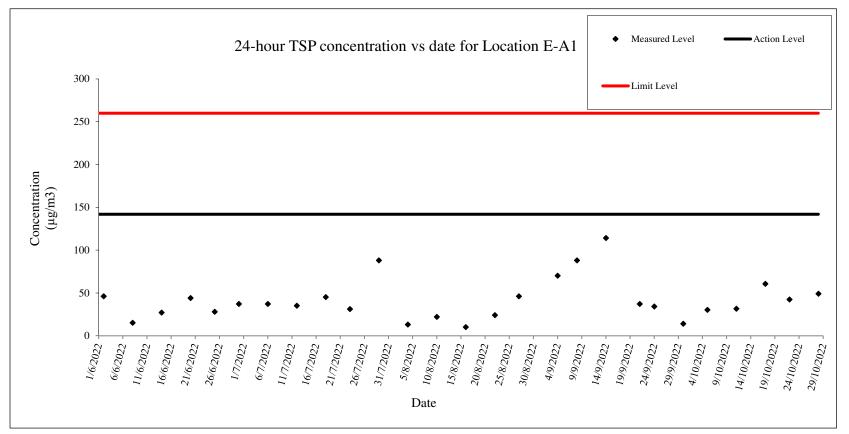
Location: Monitoring date:

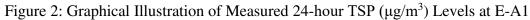
Other Factors:

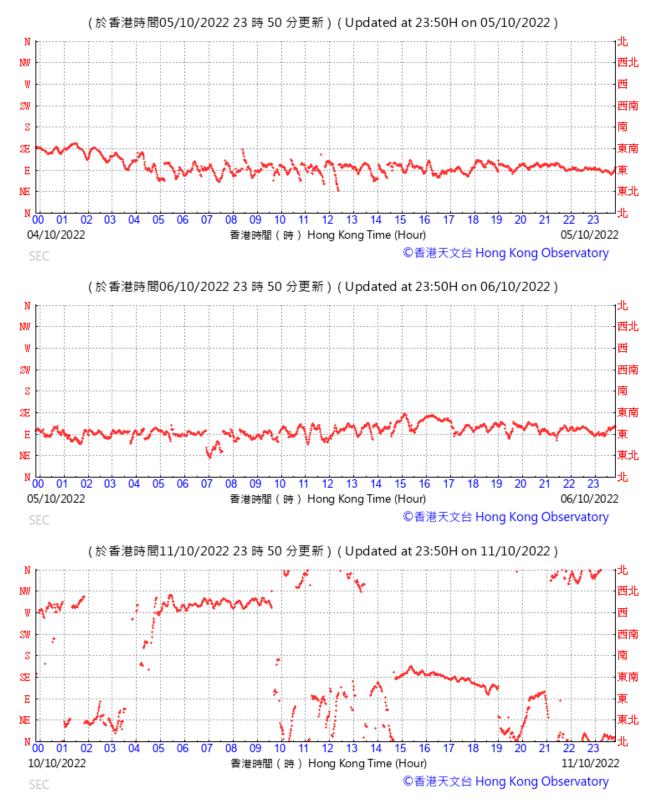
Parameter:

Hong Kong International Trade and Exhibition Centre (E-A1) 5, 11, 17, 22 and 28 October 2022 TSP 24-hour Nearby traffic

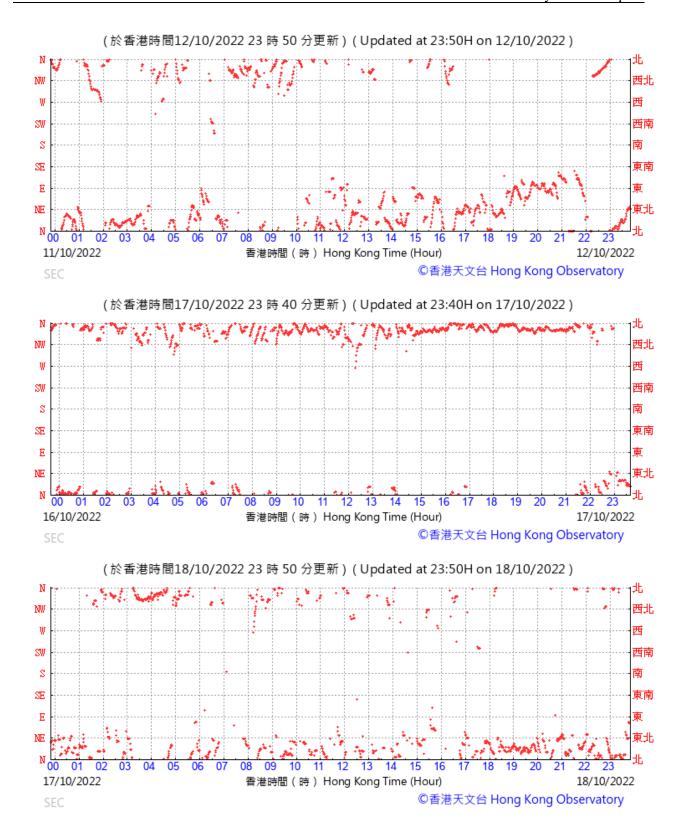
										Date of	Calibration:	28-Sep-22		Slope =	6.2034
										Calibrati	on due date:	12-Oct-22	!	Intercept =	24.5992
										Date of	Calibration:	11-Oct-22	2	Slope =	11.3568
										Calibrati	on due date:	25-Oct-22	!	Intercept =	17.6665
										Date of	Calibration:	24-Oct-22	!	Slope =	14.4274
										Calibrati	on due date:	7-Nov-22	2	Intercept =	20.6132
Start Date	Weather Condition		Elapse Time		Avg Air Chart Reading Avg Air Temp Avg Atmospheric Pressure Standard Avg Air Temp Standard		Filter W	Veight (g) Particulate weight		Conc.					
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m³/min)	(m ³)	Initial	Final	(g)	$(\mu g/m^3)$
05/10/2022	Sunny	6172.77	6196.77	1440.00	38	38	38.0	29.1	1014.4	2.12	3054	2.7553	2.8476	0.0923	30
11/10/2022	Sunny	6196.77	6220.77	1440.00	40	42	41.0	24.1	1016.8	2.67	3848	2.7316	2.8527	0.1211	31
17/10/2022	Sunny	6220.77	6244.77	1440.00	36	38	37.0	27.2	1008.9	1.67	2411	2.7741	2.9201	0.1460	61
22/10/2022	Sunny	6244.77	6268.77	1440.00	38	39	38.5	26.6	1015.5	1.83	2636	2.7419	2.8532	0.1113	42
28/10/2022	Sunny	6268.77	6292.77	1440.00	37	40	38.5	25.5	1015.4	1.24	1787	2.7702	2.8583	0.0881	49
														Min	30
														Max	61

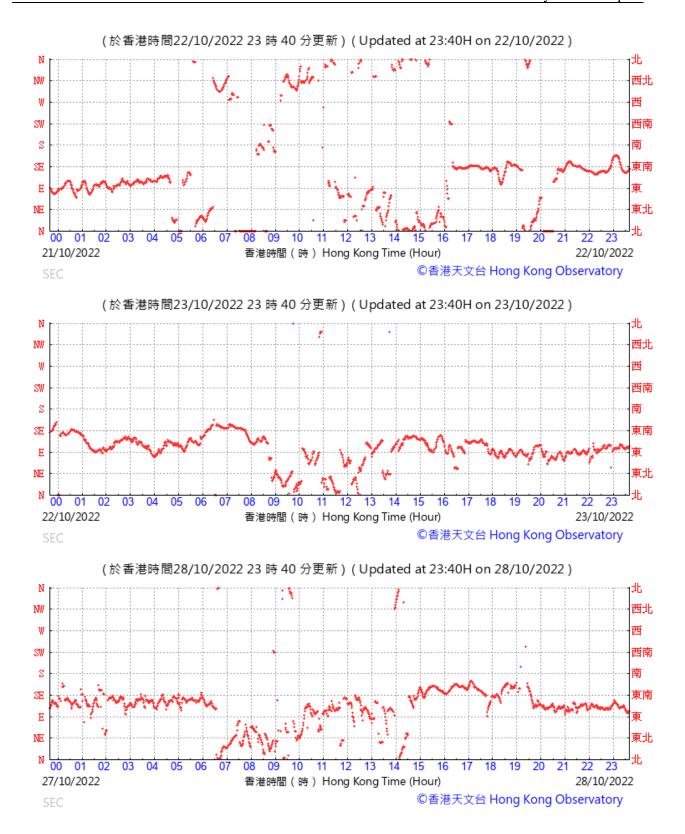


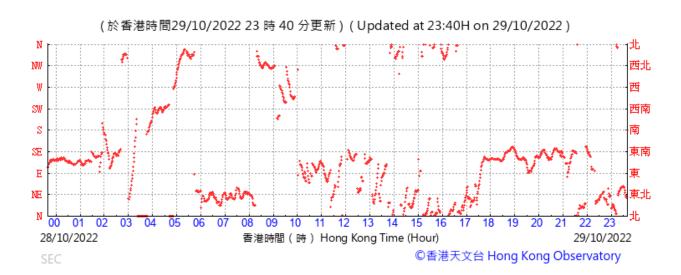


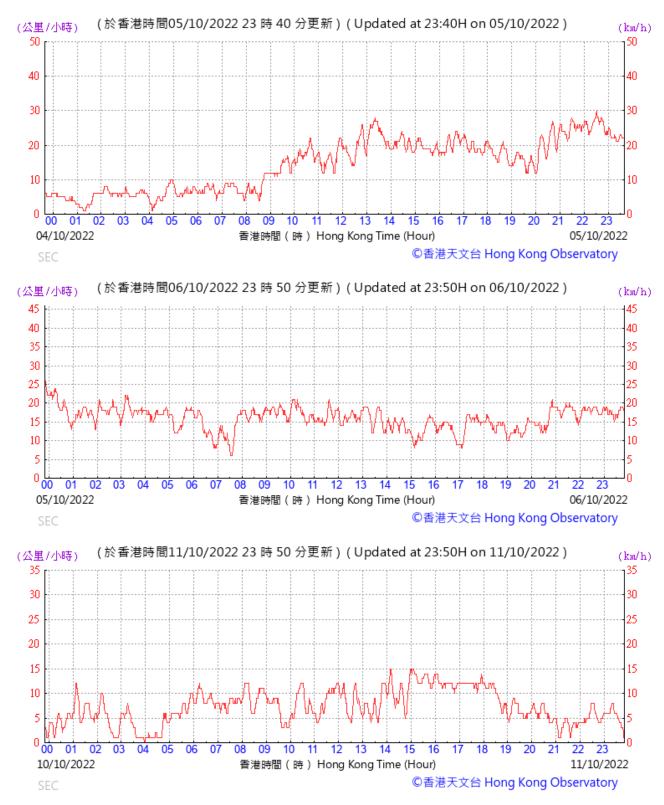


WIND DIRECTION DATA FOR 5, 6, 11, 12, 17, 18, 22, 23, 28 and 29 Oct 2022

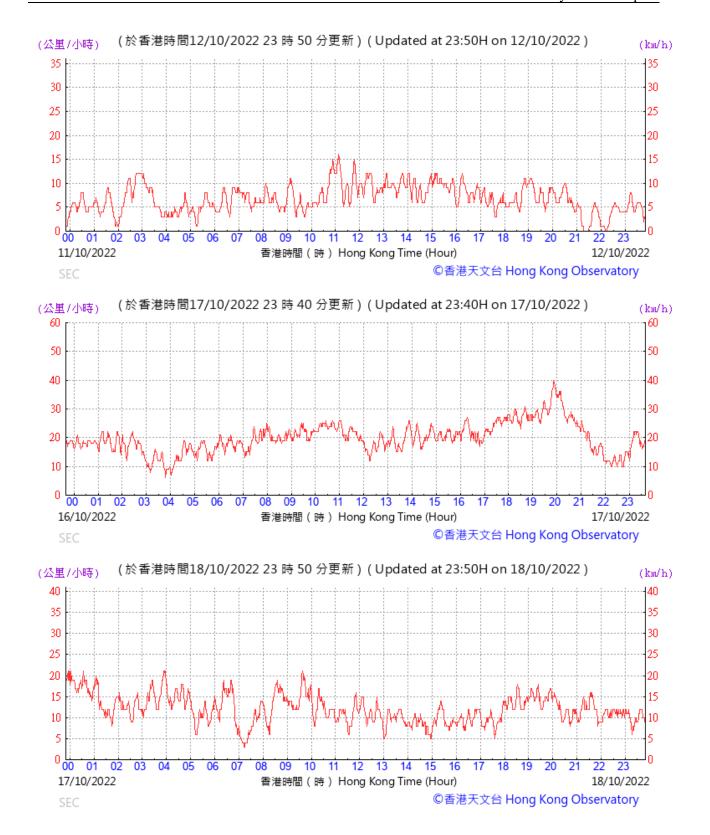


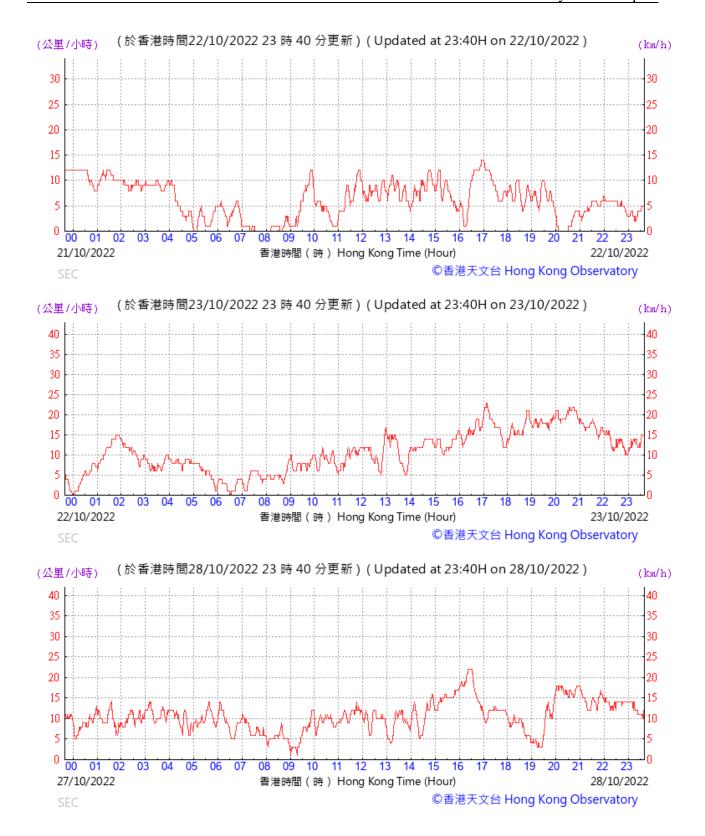


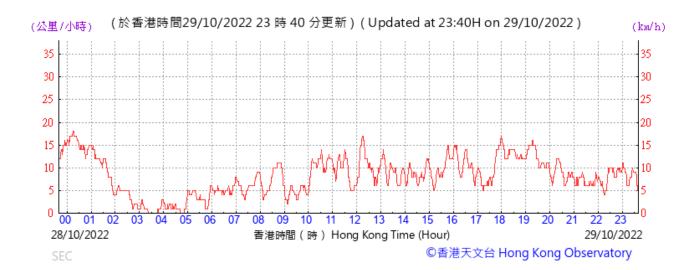




WIND SPEED DATA FOR 5, 6, 11, 12, 17, 18, 22, 23, 28 and 29 Oct 2022







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 - Aug 2022

					Ac	tual Quantities of	Inert C&D Materia	al Generated Mon	thly							Actual Quantities	of C&D Waste Ge	enerated Monthly		
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 (CWB)		Reused in other Projects (KTW)	Reused in other Projects (SFK- DH)	Reused in other Projects (Tapbo)		Disposed as Public Fill	Imported Fill	Metals (Steel)	Metals (Aluminum)	Metals (Copper)	Paper/cardboard 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	98.11	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
Jan	1.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.69	0.00	0.00	0.00	0.00	150.00	0.00	0.00	88980.00
Feb	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	160.00	0.00	0.00	85530.00
Mar	0.45	0.00	0.00	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	100.00	0.00	0.00	35660.00
Apr	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	50.00	0.00	0.00	96510.00
May	1.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.00	141.03	0.00	0.00	50.00	0.00	0.00	93100.00
Jun	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.00	0.00	0.00	0.00	25.00	0.00	0.00	92250.00
Jul	1.12	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	30.00	0.00	0.00	103880.00
Aug	1.42	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.00	0.00	75.00	0.00	30.00	118290.00
Sep	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	30.00	0.00	0.00	102150.00
Oct	0.78	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	20.00	0.00	50.00	171230.00
Nov																				
Dec																				
Total	258.29	0.34	1.58	2.28	4.40	32.89	0.17	12.83	1.63	20.50	0.62	180.14	1.11	1,258,801.03	48.00	0.00	2,549.00	0.00	80.00	3,006,980.00

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

Donosting David	Env	ironmental Complaint Statist	ics
Reporting Period	Frequency	Cumulative	Complaint Nature
1 October 2022	0	2	N/A
31 October 2022	U	2	N/A

Statistical Summary of Environmental Non-compliance

Donorting Daried	Enviro	nmental Non-compliance Sta	tistics
Reporting Period	Frequency	Cumulative	Details
1 October 2022 	0	0	N/A

Statistical Summary of Environmental Summons

Donorting Dariad	Env	rironmental Summons Statist	ics
Reporting Period	Frequency	Cumulative	Details
1 October 2022 	0	0	N/A

Statistical Summary of Environmental Prosecution

Departing Davied	Envi	ronmental Prosecution Statis	tics
Reporting Period	Frequency	Cumulative	Details
1 October 2022 - 31 October 2022	0	0	N/A

Appendix N Monitoring Schedule of the Coming Month

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

Tentative Environmental Monitoring Schedule (November 2022)

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

Acuity Sustainability Consulting Limited

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. 25 (October 2022)

Version 1 Date of Report: 9 November 2022

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

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Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract: Buildings, Electrical and Mechanical Works (HY/2019/1	Works Contract:	Buildings, Electrical and Mechanical Works (HY/2019/13)
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Reference Document/Plan

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.25
Date of Report:	9 November 2022 (Version 1)
Date received by IEC:	9 November 2022

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/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

9 November 2022

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.25_20221109.docx

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EXECUTIVE SUMMARY

Introduction

- This is the 25th 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 1st October 2022 – 31st October 2022.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
 - Excavation & sub-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 5, 11, 18, 25 October 2022, whereas joint site inspection with the representative of IEC was conducted on 11 October 2022. 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 (October 2022) 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 5	or eng wionen			
	Event Details		Follow-up/ Remedial	Status/ Remarks
Event	Number	Brief Description	Actions	
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-

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.

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 12th December 2020.

Purpose of the Report

1.5 This is the 25th 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 1st October 2022 – 31st October 2022. 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**.

Table 1.1	Key Froject Contacts		
Party	Role	Contact Person	Phone No.
AMMJV	Engineer Representative	Mr. Dennis Yu	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 1.1Key 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.

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	eriod	Status
Fermit / License No.	From	То	Status
Environmental Permit (EP)			
EP-457/2013/D	15 Jun 2021	N/A	Valid
Notification of Construction Wor	ks under Air Pollutio	n Control Ordinar	ice (APCO)
457346	18 Jun 2020	End of Project	Valid
Billing Account for Construction	Waste Disposal		
7037679	26 Jun 2020	N/A	Valid
Registration of Chemical Waste P	Producer – Kai Tak		
5211-286-G2347-54	13 Jul 2020	N/A	Valid
Wastewater Discharge Licence - I	Kai Tak		
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid
Construction Noise Permit - Kai	Гак Site (General Wo	orks [grouting, pili	ng])
GW-RE0968-22	30 Sep 2022	29 Mar 2023	Valid
Construction Noise Permit for W	orks at 2nd office		
GW-RE0739-22	2 Aug 2022	1 Dec 2022	Valid
Wastewater Discharge Licence at	2nd office		
WT00041796-2022	21 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**.

			Quant	ity			
Inert C&D Materials Non-inert C&D Materials							
Reporting Period	Total Quantity Generated (in '000m ³)	Disposed as Public Fill (in '000m ³)	Others, e.g. general refuse (in '000m ³)	Metals (in '000kg)	Paper/cardboard Packaging (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)
October 2022	6.025	6.025	0.026	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 11 & 25 October 2022. 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 5, 11, 18 & 25 October 2022 in the reporting month. Joint site inspection with the representative of IEC was conducted on 11 October 2022. 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	11 Oct 2022	Ponding water should be removed at KVB site	Ponding water has been removed at KVB site.
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	<i>Chemical</i> N/A was identified in the reporting		N/A
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 complaints, 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 (September 2022)	14 October2022

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Excavation & Sub-structure 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 25th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st October 2022 – 31st October 2022 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.

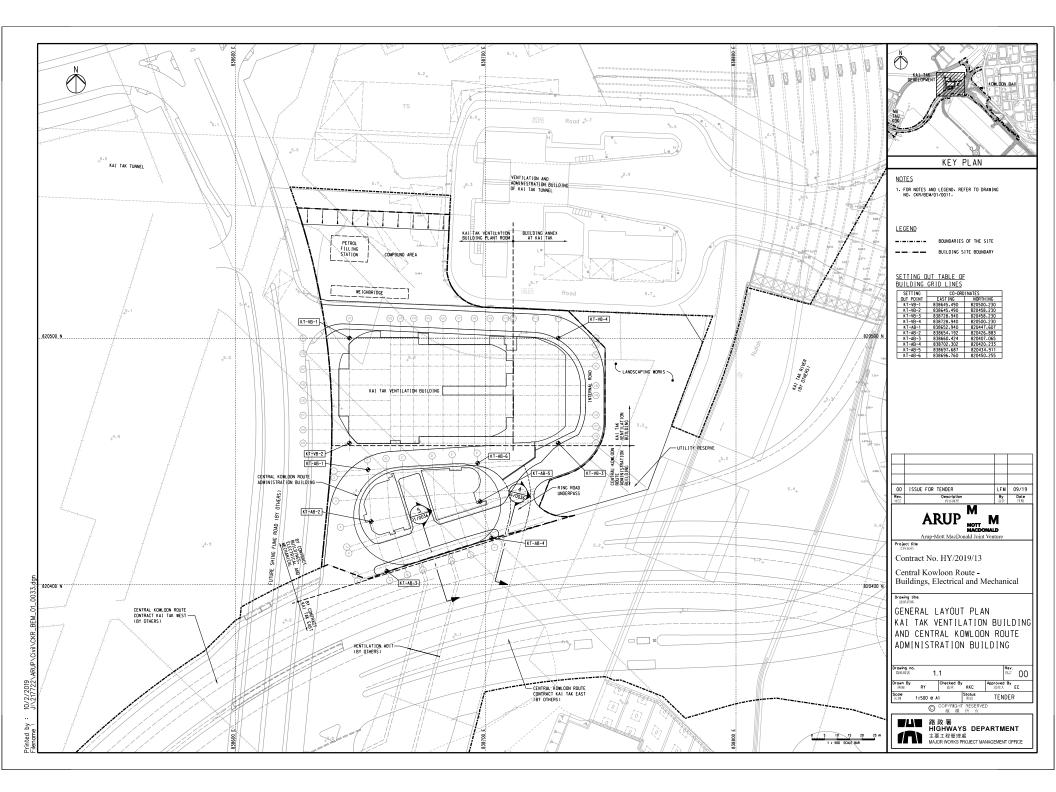
Site Audit

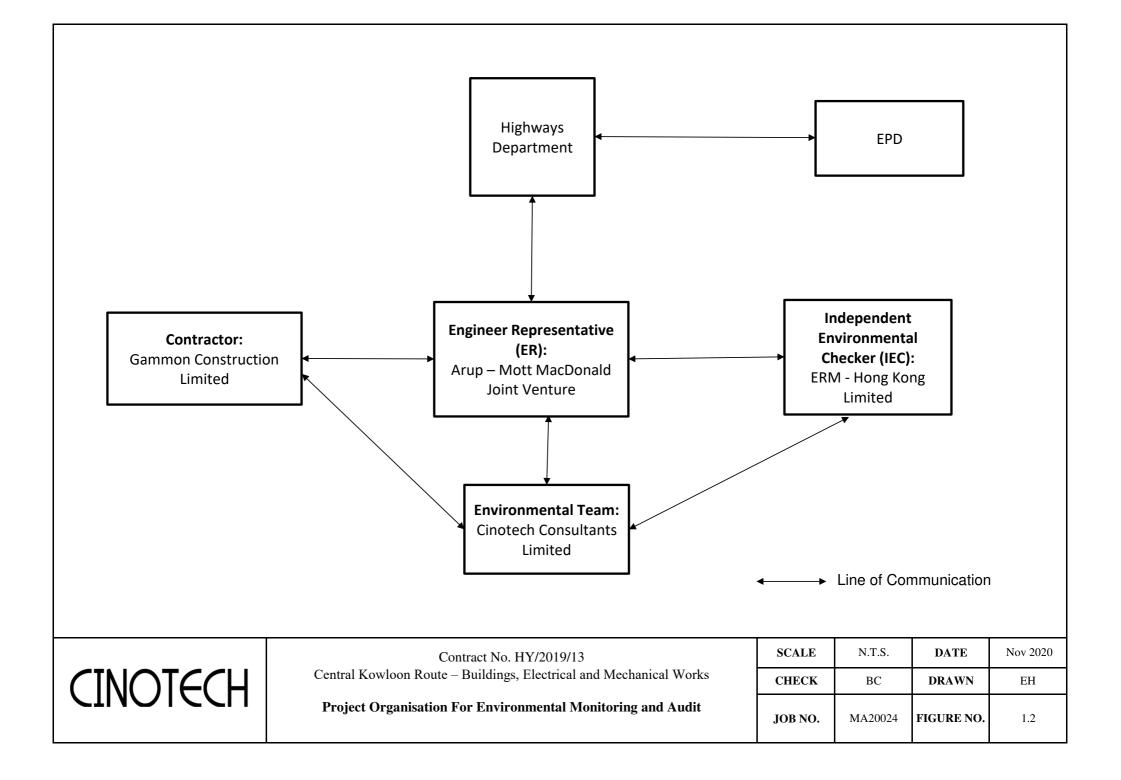
8.4 4 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 5, 11, 18 & 25 October 2022, whereas joint site inspection with the representative of IEC was conducted on 11 October 2022. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

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

FIGURES



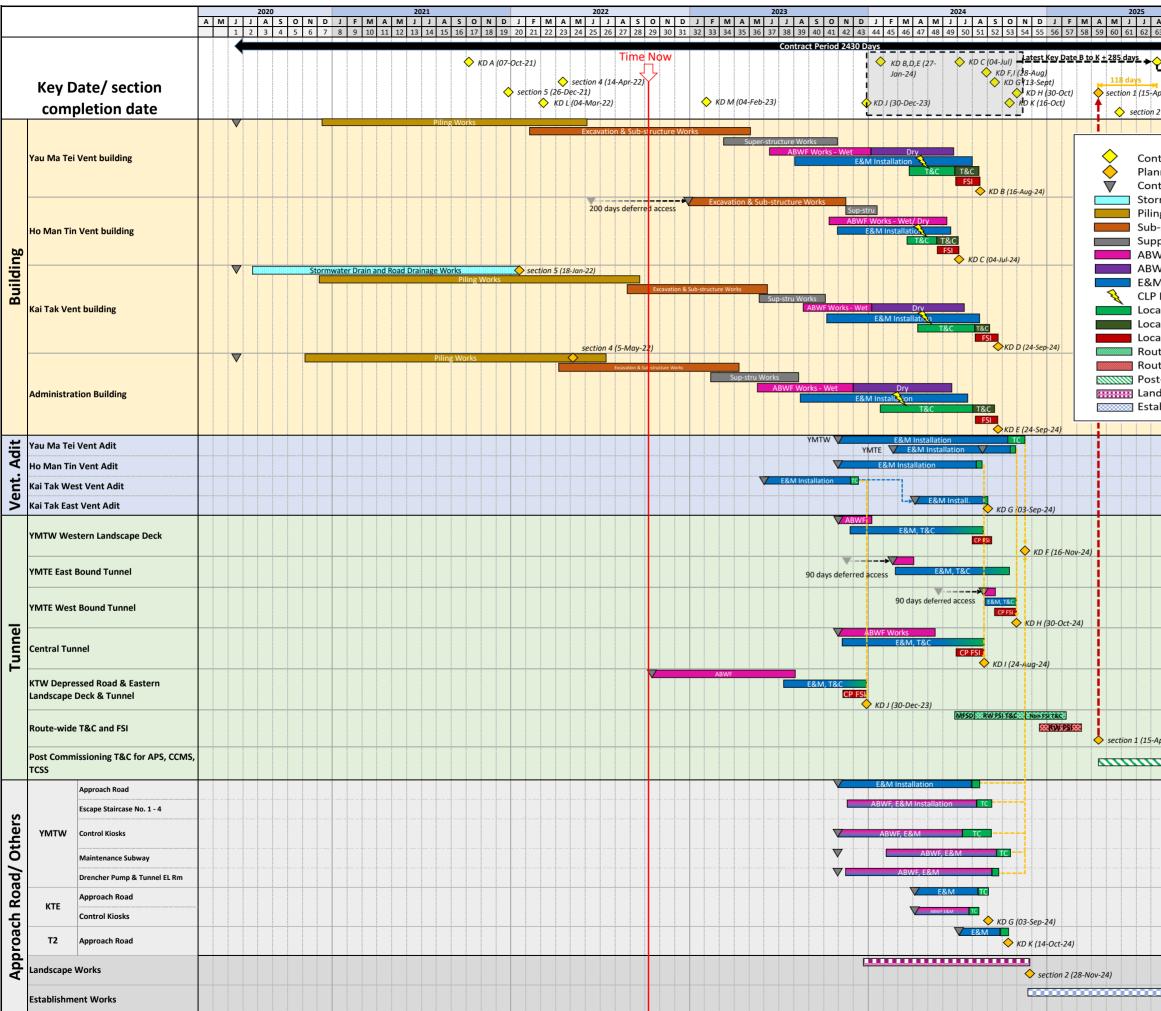


APPENDIX A CONSTRUCTION PROGRAMME



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

Summary Programme





路政署 HIGHWAYS DEPARTMENT 主要王程管理感 MAJIO WORKS PROJECT MANAGEMENT OFFICS

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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 Fl	low Tab	le f	⁻ or 2022 ((year))

		Actual Quanti	tes of Inert C&D	Materials Genera	ited Monthly			Actual	Quantites of C&	D Waste Generat	ed 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	1.451	0.000	0.000	0.000	1.451	0.000	0.000	0.000	0.000	0.000	0.000	0.017
Feb	1.121	0.000	0.000	0.000	1.121	0.000	0.000	0.000	0.000	0.000	0.000	0.029
Mar	1.462	0.000	0.000	0.000	1.462	0.000	0.000	0.000	0.000	0.000	0.000	0.033
Apr	2.606	0.000	0.000	0.000	2.606	0.000	0.000	0.000	0.000	0.000	0.000	0.042
May	2.446	0.000	0.000	0.821	1.625	0.000	0.000	0.000	0.000	0.000	0.000	0.037
Jun	1.888	0.000	0.000	0.495	1.393	0.000	0.000	0.000	0.000	0.000	0.000	0.014
Sub-Total	10.976	0.000	0.000	1.317	9.659	0.000	0.000	0.000	0.000	0.000	0.000	0.171
Jul	1.932	0.000	0.000	0.000	1.932	0.000	0.000	0.000	0.000	0.000	0.000	0.042
Aug	7.567	0.000	0.000	0.208	7.359	0.000	0.000	0.000	0.000	0.000	0.000	0.047
Sep	10.133	0.000	0.000	1.027	9.106	0.000	0.000	0.000	0.000	0.000	0.000	0.068
Oct	6.025	0.000	0.000	0.000	6.025	0.000	0.000	0.000	0.000	0.000	0.000	0.026
Nov												
Dec												
Total (2022)	36.632	0.000	0.000	2.552	34.080	0.000	0.000	0.000	0.000	0.000	0.000	0.354
Total (whole)	55.840	0.000	0.000	2.552	53.289	0.000	0.000	0.000	0.000	1.080	0.000	0.623

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:

sity values and bank ractors 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
	n Dust Impact				A 11		ADCO	^
S4.3.10	DI	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet HKAQO and TM-EIA criteria	A
S4.3.10	D2	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/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	^
\$4.3.10	D3	Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the nearby sensitive	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet	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.	receivers				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.						٨
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						٨
		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.						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
		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.						۸
		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.						۸
		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						٨
		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
S4.3.10	D6		Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	^
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	۸
		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.						^
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						^
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						^
		Mobile plant should be sited as far away from NSRs as possible and practicable.	•					^
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.						N/A
S5.4.1	N2	1 5 8 5	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Timing	Implementatio n Stage	standards to be achieved	Implementation Status
S5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy 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	^
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	^
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	N/A
	ity (Constructio	on Phase)						
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.						~
		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.		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.						^
		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.						Λ
		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.						^
		Adopt best management practices.						^
		All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet 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		<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	^

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
S6.9.1.5	W4	<u>Groundwater from Potential Contaminated Area:</u> No direct discharge of groundwater from contaminated areas should be adopted.	To minimize groundwater	Contractor	Excavation areas where	Construction stage	- Water Pollution Control Ordinance - TM-EIAO	٨
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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.			contamination is found	15	- TM-DSS	۸
		If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers.						^
		If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater 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	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	^
		The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.						^
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						^
	8 (ruction Waste)	•	1	P	1	· · · · · · · · · · · · · · · · · · ·	
S7.4.1	WM1	<u>On-site sorting of C&D material</u> Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated 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	~

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	standards to be achieved	Implementation Status
S7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. Carry out on-site sorting.	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	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate						^
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.	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.						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.						^
S7.5.1	WM3	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	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	^
	,	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 	^
S7.5.1	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	^
		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.	-					^
		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	^
		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.						^
S7.5.1	WM7	General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes. A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes,	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	^
		on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law. Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible.						^
		Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.						٨
Land Contai S8.9 &	mination LC2	Excavation of the Contaminated Soil	The contaminated	Contractor	DD114	Deicata	Drastics Crift (DC)	N/A
S8.9 & Appendix 8.4		Prior to commencement of the excavation works at the contamination zone, the	soil will be excavated for on- site reuse	Contractor	PBH4	Prior to commencemen t of construction works within the	Practice Guide (PG) for Investigation and Remediation of Contaminated Land - Guidance Notes for Contaminated Land	IN/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 area	Assessment and Remediation • Guidance Manual for	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	-			-			· · · · · · · · · · · · · · · · · · ·	^
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	1	~
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	^
Landscape a	nd Visual	•						
S10.10.1 Table 10.11	LV3	Good Site Management 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 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.						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 & 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.	visual impact	Contractor	Within Project site		 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from GLTM Section, 	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		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	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	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)		<u> </u>	I	<u> </u>		
S11.4.4	CHI	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	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 on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status	
EM&A Proj	EM&A Project								
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	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	 EIAO Guidance Note No. 4/2010 TM-EIAO 	٨	
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;	a a a a a a a a a a a a a a a a a a a					^	
		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.						^	

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: October 2022

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, warning/summon and prosecution was received in the reporting period.