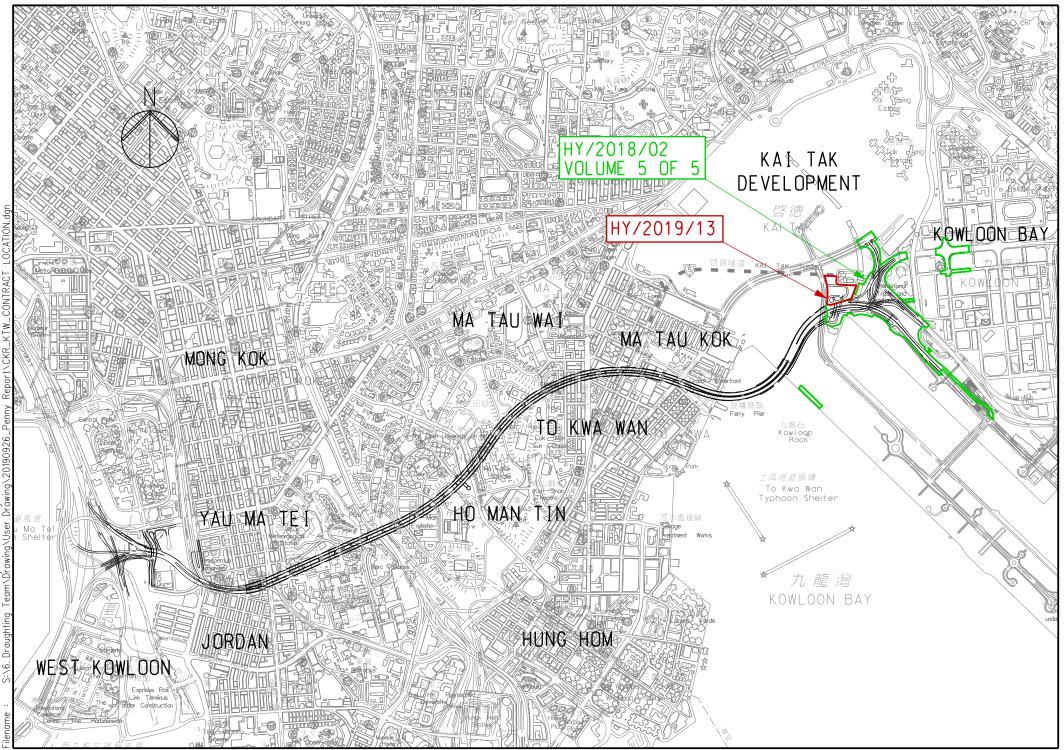
Vol. 5 of 5

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) April 2022



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





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

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

Reference Document/Plan

Document/ Plan to be Certified/ Verified:	Monthly EM&A Report No.32 (April 2022)
Date of Report:	11 May 2022 (Rev. 1)
Date received by IEC:	12 May 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:

12 May 2022

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.32.docx



Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 32

(Period from 1 to 30 April 2022)

Rev. 0

(11 May 2022)

		Name	Signature
Prepared by		Andres T. T. Lo (Assistant Environmental Consultant)	A
Checked Reviewed by	&	Y.H.Law (Senior Environmental Consultant)	Malan
Approved Certified by	&	Kevin W. M. Li (Environmental Team Leader)	Ki

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EXECUTIVE SUMMARY

- A.1 Alchmex Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This report is the 32nd monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 April 2022 to 30 April 2022.
- A.2 A summary of major Construction activities 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.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheet piling Work at U-Turn.
- Central Divider Removal at Kai Fuk Road.
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (24-hour TSP) monitoring	
E-A1	6 times
Construction dust (1-hour TSP) monitoring	
E-A1	18 times

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 6, 13, 20 and 27 April 2022. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 13 April 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 6 and 20 April 2022. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 3.
- A.7 No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring were recorded during the reporting month.
- A.8 No complaint or non-compliance was received in the reporting month.
- A.9 No notification of summons and prosecution was received in the reporting period.

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

Construction Activities to be undertaken

- Pile Cap Construction at U turn, Portion 1A, Portion 3B & Portion 2B.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheetpiling Work at U-Turn & Portion 3B.

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.

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

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

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

- Pile Cap Construction at U Turn, Portion 1A,Portion 3B & Portion 2B.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheet piling Work at U-Turn.
- Central Divider Removal at Kai Fuk Road.
 - 1.5. The project organisational chart specifying management structure and contact details are shown in Appendix C.
 - 1.6. A summary of the valid permits, licences, and /or notifications on environmental protection for this Project is presented in Table 1.2

Table 1.2 Summary of the Status of Valid Environmental Licence,

Permit/ Licences/	Valid Period			
Notification	From	То	Status	Remark
/Reference No.	PIOIII	10		
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Lie	cense			
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Constructi	on Works under	the Air Pollution	Control (Construc	tion Dust) Regulation
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Produce	r Registration			
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Dispo	sal of Constructi			·
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permi	it	· · · ·		
GW-RE0231-22	8-Mar-22	16-Sep-22	Valid	General Work for Area A
			Valid	General Work at Area B
GW-RE0234-22	8-Mar-22	16-Sep-22		
				and Site Office
GW-RE0069-22	3-Feb-22	25-Jul-22	Valid	Kai Cheung U Turns
GW-RE0201-22	22-Mar-22	11-Sep-22	Valid	Portion 2B
CUL DE0070 00			Valid	Road Diversion at Kai
GW-RE0079-22	13-Feb-22	31-May-22		Fuk Road
		7.14 22	Valid	Removal of Existing
GW-RE0252-22	24-Mar-22	7-May-22		Gantry

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 2.1 Summary 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 (March 2022)	14 April 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:

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

Table 2.2 Summary for the location of monitoring station

3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

- 3.1.1 The impact monitoring had been carried out in accordance with section 5.8 of the approved EM&A Manual to determine the 1-hour and 24-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting month.
- 3.1.2 The sampling frequency of at least once in every 6 days, shall be strictly observed at the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least 3 times in every 6 days should be undertaken when the highest dust impact occurs.
- 3.1.3 General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.
- 3.2. Monitoring Equipment

Air Quality

- 3.2.1 1-hour TSP levels and 24-hour TSP had been measured with direct reading dust meter and High Volume Samplers respectively. It has been demonstrated its capability in achieving comparable results with high volume sampling method as set out in the Title 40 of the Code of Federal Regulations, Chapter 1 (Part 50).
- 3.2.2 The 1-hour TSP meter was calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter followed manufacturer's Operation and Service Manual. The 24-hour TSP meter was calibrated against firmware 80570-8100-V1.0.4, annually. Operation of the 24-hour TSP meter followed manufacturer's Operation and Service Manual. Valid calibration certificate of dust monitoring equipment is attached in Appendix H.
- 3.2.3 A summary of the equipment that was deployed for the 24- hour averaged monitoring is shown in Table 3.1. The TSP monitoring was conducted as per the schedule presented in Appendix G.
- 3.2.4 The equipment used for 1-hour TSP and 24-hour TSP measurement and calibration are summarised in Table 3.1

Monitoring ParameterMonitoring Equipment		Serial Number	Date of Calibration
1-hour TSP	LD-5R Digital Dust Indicator	761173	1 Jul 2021
24-hour TSP	TE-5170X High Volume	1049	2 and 19 Apr 2022
Sampler			
	TE-5028A Calibration Kit	3702	3 Aug 2021

Table 3.1 Construction Dust Monitoring Equipment

3.3. Monitoring Methodology and QA/QC results

Air Quality

- 3.3.1 The 1-hour TSP monitor, portable dust meters (Sibata Digital Dust Indicator Model LD-5R) was used for the impact monitoring. The 1-hour TSP meters provides a real time 1-hour TSP measurement based on 90° light scattering. Three 1-hour TSP level were logged per every six days.
- 3.3.2 The 24-hour TSP monitor, High Volume Samplers (Tisch TE-5170x High Volume Air Sampler) were used for the impact monitoring. The 24-hour TSP monitoring consists of the following:
 - The HVS was set at the monitoring location, with electricity supply connected and secured;
 - HVS was calibrated before commencing the 1st measurement;
 - The filter paper was weight and provided by HOKLAS lab (Acumen Laboratory and Testing Limited and ALS Technichem (HK) Pty Ltd) before and after the sampling. Certificate of HOKLAS accredited laboratory can be referred to Appendix I;
 - The airflow over time during sampling process was recorded by the HVS.
- 3.3.3 HVSs were free-standing with no obstruction. The following criteria were considered in the installation of the HVS:
 - Appropriate support to secure the samples against gusty wind needed to be provided the monitoring station;
 - A minimum of 2m separation from walls, parapets and penthouses was required for rooftop samplers;
 - No furnace or incinerator flues was nearby;
 - Airflow around the sampler was unrestricted; and
 - Permission could be obtained to set up the samplers and gain access to the monitoring station.
 - Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring
 - A secured supply of electricity is needed to operate the samplers.

3.3.4 Preparation of Filter Papers

- Glass fiber filters were labelled and sufficient filters that were clean and without pinholes were selected;
- ♦ All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°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.
- 3.3.5 Field Monitoring
 - The power supply was checked to ensure that the HVS was working properly;
 - The filter holder and area surrounding the filter were cleaned;

- The filter holder was removed by loosening the foul bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully;
- The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter;
- The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied should be sufficient to avoid air leakage at the edges;
- The shelter lid was closed and secured with an aluminum strip;
- The HVS was warmed- up for about 5 minutes to establish run- temperature conditions;
- A new flow rate record sheet was inserted into the flow recorder;
- The flow rates of the HVS was checked and adjusted to between 1.13-1.19 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 and ALS Technichem (HK) Pty Ltd) for analysis.
- 3.3.6 Maintenance and Calibration
 - The HVS and their accessories were maintained in a good working condition. For example, motor brushes were replaced routinely and electrical wiring was checked to ensure a continuous power supply; and
 - ◆ The flow rate of each HVS with mass flow controller was calibrated using an orifice calibrator, Initial calibrations of the dust monitoring equipment were conducted upon installation and prior to commissioning. Five-point calibration was carried out for HVS using TE-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.

3.3.7 Wind Data Monitoring

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

3.4. Monitoring Locations

Air Quality

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

Table 3.2 Location of the Dust Monitoring Station

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

- 3.5. Monitoring date, time, frequency and duration
- 3.5.1 A summary of impact monitoring duration, sampling parameter and frequency is presented in Table 3.3.

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

 Table 3.3: Summary of Impact Monitoring Programme

3.6. Result Summary

Air Quality

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

	2
Monitoring Station	Major Dust Source
E-A1	Nearby traffic

 Table 3.4 Observation at Dust Monitoring Station

3.6.2 Air quality impact monitoring for the reporting month was carried out on 2, 8, 13, 19, 22 and 28 April 2022 at E-A1.

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

Monitoring Location	Range(µg/m ³)	Action Level(µg/m ³)	Limit Level(µg/m ³)
E-A1	51 - 68	279	500
Ta	ble 3.6 Summary of 24-ho	our TSP Monitoring Result	S
Monitoring Location	Range(µg/m ³)	Action Level(µg/m ³)	Limit Level(µg/m ³)
E-A1	11-79	142	260

Table 3.5 Summary of 1-hour TSP Monitoring Results	Table 3.5
----------------------------------------------------	-----------

Waste management

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

			Ç	Juantity		
				Non-inert C&	D Materials	
			Others,			
			e.g.	Recy	ycled material	8
	Inert C&D	Chemical	General			
Reporting period	Materials	Waste	Refuse			
	(in 'tonnes)	(in'000 Kg)	disposed			
			at	Paper/card board	Plastics	Metals
			Landfill	(in '000 Kg)	(in '000 Kg)	(in '000 Kg)
			(in			
			'tonnes)			
April-2022	898.73	0.00	95.61	0.05	0.00	0.00

Table 3.7 Quantities of waste generated from the Project

COMPLAINTS, NOTIFICATION 4. SUMMARY **SUMMONS** OF OF AND **PROSECUTIONS**

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

Table 4.1 Environmental C	Complaint Handling Procedure
Complaint Received via Project Hotline	Complaint Received via 1823 or from other
	government departments
Contractor notify ER, ET and IEC	ER notify Contractor, ET and IEC
Contractor log complaint and date of receipt on	to the complaint database. Contractor, ER and ET to
conduct invest	igation of complaint
If complaint is considered not valid	If complaint is found valid
ET or ER to reply the complainant if necessary	Contractor to identify and implement remedial
	measures in consultation with the IEC, ET and
	ER.
	The ER, ET and IEC to review the effectiveness
	of the Contractor's remedial measures and the
	updated situation; ET to undertake additional
	monitoring and audit to verify the situation if
	necessary, and oversee that circumstances leading
	to the complaint do not recur. ER to conduct
	further inspection as necessary.
If the complaint is referred by the EPD, the Co	ntractor to prepare interim report on the status of the
complaint investigation and follow-up actions s	tipulated above, including the details of the remedial
measures and additional monitoring identified	or already taken, for submission to EPD within the
time frame as	signed by the EPD
The ET to record the details of the complaint, re	sults of the investigation, subsequent actions taken to
address the complaint and updated situation in	cluding the effectiveness of the remedial measures,
supported by regular and additional mor	nitoring results in the monthly EM&A reports

Table 4.1	Environmental	Complaint	Handling	Procedure

- 4.2. 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.
- 4.3. No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring was recorded during the reporting month.
- 4.4. No complaint and non-compliance were received in the reporting month.
- 4.5. No notification of summons and successful prosecution was received in the reporting period.
- 4.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix M.

5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 6, 13, 20 and 27 April 2022, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 6 and 20 April 2022.
- 5.2. One joint site inspection with IEC also undertaken on 13 April 2022. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Date	Environmental Observations	Follow-up Status
6 April 2022	NA	NA
13 April 2022	NA	NA
20 April 2022	NA	NA
27 April 2022	NA	NA

Table 5.1 Si	te Observations
--------------	-----------------

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

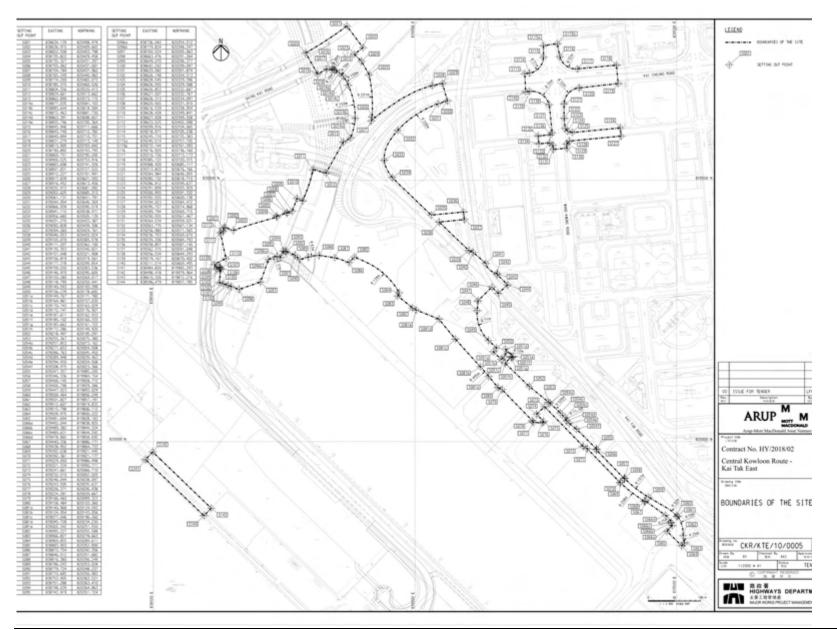
6. **FUTURE KEY ISSUES**

- 6.1. The construction activities provided by Contractor in the next reporting month are:
 - Pile Cap Construction at U turn, Portion 1A, Portion 3B & Portion 2B.
 - RC structure for Adit at Area Part 1B.
 - RC structure for Underpass S3 at Portion 3B.
 - Construction of Temporary Platform at Kai Tak Nallah.
 - Retaining Wall Construction at U-Turn & Portion 2B.
 - Sheetpiling Work at U-Turn & Portion 3B.
- 6.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust and waste management.
- 6.3. The tentative schedule of 1-hour TSP and 24-hour TSP monitoring in the next reporting period is presented in Appendix N.
- 6.4. The construction programme for the Project for the next reporting month is presented in Appendix B.

7. CONCLUSION AND RECOMMENDATIONS

- 7.1. This 32nd monthly EM&A Report presents the EM&A works undertaken during the period from 1 April 2022 to 30 April 2022 in accordance with the EM&A Manual and the requirement under EP-457/2013/C and EP-457/2013/D.
- 7.2. Air quality (including 1-hour TSP and 24-hour TSP) was carried out in the reporting period. No exceedance of the Action and Limit Level was recorded for air quality impact monitoring during the reporting month.
- 7.3. Weekly environmental site inspections by the representative of ET, Contractor and Engineer were conducted during the reporting period. Joint site inspection with IEC were carried out on 13 April 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.
- 7.4. No complaint and non-compliance situation were received in the reporting month.
- 7.5. No notification of summons or prosecution was received since commencement of the Contract.
- 7.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

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



Appendix B Construction Programme

ta Date: 25-Feb- int Date: 22-Mar-	-22 15:15					Centr		loon	Rou	Y/2018/02 e - Kai Tak East						Alchmex -	Paul Y Join	Venture
γID	Activity Name		Orig Dur	Stat	Finish	Late Stat	Late Finish	Total Float	TRA (Day)	February 34 3 30 06 13 20	27 06	March 35 13 20	27	April 36	24	May 37 08 15 22	1 30 1 00	June 38
entral Kow	vloon Route - Kai Tak East (I	Month 34 Update) (Re	732	28-Feb-20 A	09-Sep-22	22-Dec-21	01-Jan-26	972	659.00	3 00 00 13 20		10 20	2/ 00	10 17		40 10 22	25 00	14 17
PRELIMIN/	ARIES AND GENERAL REQU	IREMENTS	83	20-0ec-21 A	30-Apr-22	10-Mar-22	04-Sep-25	984	0.00									
Salient Key	Dates and Milestones																	
Key Dates			108	20-Dec-21 A	30-Apr-22	10-Mar-22	04-Sep-25	1223	0.00									
Sections of	the Works		108	20-Dec-21 A	30-Apr-22	10-Mar-22	04-Sep-25	1223	0.00									
KD-12	KD12 - Section 12 Completion of Struc	t. of Underpass S21 Allow access to	0		20-Dec-21 A		04-Sep-25											
KD-17	1B2,1D2,1D4,2D,2E,3D for Util (646d KD17 - Section 17: Comprises the com		0		14-Mar-22*		10-Mar-22	-4				•						
KD-04	Parts 1D4, 2D, 2E & 3D (459 days) KD04 - Section 4: Comprises the Establ	lishment Works for Landscape	0		30-Apr-22*		04-May-22	4										
Section Subi	Softworks under Section 3 (365 days) ject to Excision		0	22-Apr-22	22-Apr-22	22-Apr-22	22-Apr-22	0	0.00									
SE-505	PM's Notify to execute Section 5 of the	Works (Latest Date 1 095 days)		22-Apr-22*		22-Apr-22		0										
SE-506	PM's Notify to execute Section 6 of the			22-Apr-22*		22-Apr-22		0										
			0	22.967.22°				0										
	nt Safety Audit Scheme ACC D	031(5)	0	2443an-22 A														
Safety Aduit					24-Jan-22 A		08-0d-23		0.00									
SA-1112	6th Safety Audit at 6 months intervals		0	24-Jan-22 A		08-Oct-23												
Utilities Sch	hedule (WSD/DSD/CLP/TG/P	CCW/HKB/ATC/KT Tur		25-Feb-22	30-Apr-22													
Utilities Mon	thly Meeting		51	25-Feb-22	30-Apr-22	10-Jul-23	07-Sep-23	400	0.00									
UU-1046	12nd Utilities monthly meeting		0	25-Feb-22		10-Jul-23		400										
UU-1048	13rd Utilities monthly meeting		0	30-Apr-22		07-Sep-23		400							•			
DESIGN AN	ND ENGINEERING		683	28-Feb-20 A	14-Jul-22	19-Apr-22	13-May-23	243	0.00									
Permanent	Works Design & Engineering																	
DES - Kiosks			60	12-Apr-22	27-Jun-22	28-Feb-23	13-May-23	257	0.00									
DES-1228	DES - Prepare preliminary proposal sul	bmission	48	12-Apr-22	13-Jun-22	28-Feb-23	28-Apr-23	257										
DES-1230	DES - Prepare submission of design an	d drawings	12	14-Jun-22	27-Jun-22	29-Apr-23	13-May-23	257	-									
Cost Saving) Design & Engineering		573	28-Feb-20 A	26-Feb-22	07-Jan-23	09-Jan-23	257	0.00									
	undation of Ring Road Underpass	& Ventilation Adit	573	28-Feb-20 A	26-Feb-22	07-Jan-23	09-Jan-23	257	0.00									
	sign for Foundation of Ring Road U		573	28-Feb-20 A	26-Feb-22	07-Jan-23	09-3an-23	257	0.00									
DES-0198	CSD-F Submit to PM & all relevant part			28-Feb-20 A	26-Feb-22	07-Jan-23	09-Jan-23	257	0.00									
DES-0198	CSD-F Consent to start the works	на на притита	0	AUTOPEU A	26-Feb-22	57/501/23	09-Jan-23	257										
			-	05-Nov-21 A		10.10.22		01										
	Works Design & Engineering																	
	orary Works for Bridges			05-Nov-21 A		19-Apr-22	14-Jan-23	190	0.00									
	Temp working platform for Bridge !			05-Nov-21 A		19-Apr-22	18-May-22	41	0.00									
DES-1322	DES - Project Manager checking and ap works	pproval; consent to start the Portal	24	05-Nov-21 A	24-Mar-22	19-Apr-22	18-May-22	41										
DES_T05 - 1	Temp working platform for Bridge !	S7 over Kai Cheung Slip Roa	74	25-Feb-22	28-May-22	21-Apr-22	20-Jul-22	43	0.00									
DES-1324	DES - Prepare preliminary proposal sul	bmission	26	25-Feb-22	26-Mar-22	21-Apr-22	23-May-22	43										
DES-1326	DES - ICE checking and approval		24	28-Mar-22	28-Apr-22	24-May-22	21-Jun-22	43							-			
Current Adual W Otical R	Vork Remaining Work	Central Ko	owloo				t (Monti ng Prog) (Rev28 - CSD)	Baseline: Layout: KTE	TE-WP28_M34 - 3 Months Roli filters: 3 Months	ng Programme Rolling_1, KTE - S	Submission.	25-Oti 20-Nov 25-Nov 24-Doo 25-Doo 24-Jan 24-Jan	21 Monthly Programm -21 Submit CSD Programm -21 Monthly Programm -21 Submit CSD Programm -21 Monthly Programm	erme Rev 25 e M31 amme Rev 26 e M32	Checked Image: Checked TYY D TYY D TYY D TYY D TYY D TYY D TYY D

ID	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day	February 34 30 06 13 20	27	06	March 35 13	20	27	03 1	April 38	17	24	01	May 37 08	15	22	29 0	30 3 5 12	ne 5 19	Ŧ
DES-1328	DES - Project Manager checking and approval; consent to start the Portal works	24	29-Apr-22	28-May-22	22-Jun-22	20-3ul-22	43											4								T
ES_TO6 - Te	mp working platform for Bridge S2 & S8 over KF Rd & KC Rd	74	25-Feb-22	28-May-22	23-Apr-22	14-Jan-23	190	0.00																		
DES-1330	DES - Prepare preliminary proposal submission	26	25-Feb-22	26-Mar-22	23-Apr-22	25-May-22	45			+		-														
DES-1332	DES - ICE checking and approval	24	28-Mar-22	28-Apr-22	17-Nov-22	14-Dec-22	190							-	-	-	-	- 1								
DES-1334	DES - Project Manager checking and approval; consent to start the Portal	24	29-Apr-22	28-May-22	15-Dec-22	14-Jan-23	190											-	-	-	-					
DES_T17 - EL	works S Design for Bridge S8 - 8A-S8 to 8D-S8	36	25-Feb-22	08-Apr-22	01-Sep-22	17-0d-22	154	0.00																		
DES-1378	DES - Prepare preliminary proposal submission	0	25-Feb-22	25-Feb-22	01-Sep-22	01-Sep-22	154																			
DES-1380	DES - ICE checking and approval	12	25-Feb-22	10-Mar-22	02-Sep-22	16-Sep-22	154																			
DES-1382	DES - Project Manager checking and approval; consent to start the ELS works	24	11-Mar-22	08-Apr-22	17-Sep-22	17-0d-22	154							_	_											
	ary Works for Underpasses, Adit and Roads		25-Nov-21 A	14-Jul-22	11-May-22	05-Sep-22	45	0.00			17															
			28-Mar-22	14-3ul-22	26-May-22	05-Sep-22	45	0.00																		
	mp works for construction of Sign Gantries, Lighting Poles &							0.00									-			_						
DES-1390	DES - Prepare preliminary proposal submission		28-Mar-22	14-May-22	26-May-22	08-Jul-22	45													_						
DES-1392	DES - ICE thedding and approval		16-May-22	15-Jun-22	09-Jul-22	08-Aug-22	45													-						
DES-1394	DES - Project Manager checking and approval; consent to start the works		16-Jun-22	14-Jul-22	09-Aug-22	05-Sep-22	45																			1
DES_T10 - Te	mporary works for Traffic Deck over Underpass S3	24	25-Nov-21 A	24-Jan-22 A	11-May-22	11-May-22		0.00																		
DES-1404	DES - ICE checking and approval	0	25-Nov-21 A	07-Dec-21 A	11-May-22	11-May-22																				
DES-1406	DES - Project Manager checking and approval; consent to start Underpass S3	24	07-Dec-21 A	24-Jan-22 A	11-May-22	11-May-22																				
ONSTRUCT	ION	430	25-Mar-21 A	09-Sep-22	22-Dec-21	01-Jan-26	972	659.00																		
Major Tempo	orary Traffic Management Scheme																									
TTM Scheme fo	or Kai Fuk Road	89	25-Jan-22 A	17-Jun-22	12-May-22	17-Jun-22	0	0.00																		
KFR-TTA-1.1	TTA - Kai Fuk Road - Stage 1.1	0	25-Jan-22 A		12-May-22				*****																	
KFR-TTA-1.2	TTA - Kai Fuk Road - Stage 1.2	0	25-Feb-22		12-May-22		59																			
KFR-TTA-1.3	TTA - Kai Fuk Road - Stage 1.3	0	28-Feb-22		12-May-22		57			•																
K/R-TTA-2	TTA - Kai Fuk Road - Stage 2	0	25-Mar-22		12-May-22		35																			
KFR-TTA-281	TTA - Kai Fuk Road - Stage 28-1, (Night Work) (Span 1E to 1F/7A-WB)	0	24-May-22		19-May-22		4																			
KFR-TTA-3	TTA - Kai Fuk Road - Stage 3	0	17-Jun-22		17-Jun-22		0																			
	li the Works of the Site, except Section 2 to 17	325	04-Aup-21 A	09.5m-22	19-5th-22	01-30-26	972	518.00																		
Sch_1 Prelimin		170	02-Dec/21 A	18-Jui-22	25-Feb-22	26-34-23	300	18.00																		
Site Establish			02-Dec-21 A		25-Feb-22	26-Jul-23	300	18.00																		
						26-34-23	308	18.00																		
	æel platform over Kai Tak River		02-Dec-21 A	08-Jul-22	25-Feb-22	20-301-23	308	18.00																		
DIA Stage 1				24-3an-22 A		30-Mar-22		6.00																		
1-2036	SE(Stage 1) - Install F3 concrete block and decking for Portion 1 (S1)			24-Jan-22 A	30-Mar-22	30-Mar-22		6.00																		
1-2334	SE(Stage 5) - Install F3 concrete block and decking for Portion 2 (S1/S3/OKRE)	60	02-Dec21 A	08-Feb-22 A	25-Feb-22	25-Feb-22		6.00																		
1-2334B	SE(STage 5) - Fabrication of concrete biks and deck (on-site)(OKRW/S4)	65	23-Dec-21 A	25-Jan-22 A	27-Jun-22	27-Jun-22																				
1-2336	SE(Stage 5) - Install F3 concrete block and decking for Portion 3 (ORRW/S4)	72	25-Jan-22 A	10-Mar-22	14-Jun-22	27-Jun-22	86	6.00			_															
DIA reinstati	ement works	107	25-Feb-22 A	08-Jul-22	07-Mar-22	26-Jul-23	308	0.00																		
1-2338A	SE - Early removal of cofferdam (S1) and reinstate for bdge falsework	12	25-Feb-22 A	02-Mar-22	07-Mar-22	11-Mar-22	8			-																
										-		_				-	-	_	1							Ť
Current Mile											ject ID: K	TE-WP2	8_M34						Det 25-Od-2	1 Mo		Ravie amme M30	1		Chedied ThY	D
Actual Work Ottical Rem		owloo							ev28 - CSD)		seline: yout: KTE	- 3 Mont	ns Rolling	Program	ime				20-Nov-2 25-Nov-2			Programme amme M31			THY THY	D
Remaining			Th	ee Mon	th Rolli	ng Prog	gramn	ne			er: TASK f					ubmissio	in.		24-Deo2 25-Deo2	1 Sul	bmit CSD F	Programme amme MS2	Rev 26		TWY	D

	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	34	-		35	-		April			37		-	34		_
									30 06 13 20	27	06	13 20	27	03	10 17	24	01	08 1	5 22	29	05 12	19	26
1-2338B	SE - Early removal of cofferdam (S3) and reinstate for bdge falsework		29-Mar-22	12-Apr-22	13-Jul-23	26-Jul-23	376							1									
1-2338E	SE - Early removal of cofferdam (S4A) and reinstate for bdge falsework	12	20-May-22	02-Jun-22	14-Jun-22	27-Jun-22	20																
1-2338C	SE - Early removal of cofferdam (ORE) and reinstate for bdge falsework	12	24-Jun-22	08-Jul-22	05-Sep-22	19-Sep-22	61																-
Cemporary Wo	orks for Early Commencement of 8A Pilling Works	52	17-May-22	18-Jul-22	14-May-22	15-Jul-22	-2	0.00															
Temp Traffic	Steel Deck at KCR near Abutment 1G																						
1-1600A	8A - Traffic Deck - Mobilisation; site dearance	2	17-May-22	18-May-22	14-May-22	16-May-22	-2																
1-1602	8A - Traffic Deck - Install sheetpiles	6	19-May-22	25-May-22	17-May-22	23-May-22	-2												-				
1-1604	8A - Traffic Deck - exc to 1st layer of strut; install 1st layer of strut	6	26-May-22	01-Jun-22	24-May-22	30-May-22	-2																
1-1606	8A - Traffic Deck - exc to 2nd layer of strut; install 2nd layer of strut	6	02-Jun-22	09-Jun-22	31-May-22	07-Jun-22	-2													-	-		
1-1608	8A - Traffic Deck - construct RC footing (approx 45m3 conc)	8	10-Jun-22	18-Jun-22	08-Jun-22	16-Jun-22	-2														-		
1-1610	8A - Traffic Deck - erection of steel strut and sheetpile deck	24	20-Jun-22	18-Jul-22	17-Jun-22	15-Jul-22	-2															_	-
h_3.1 Bridge	S1 Works	173	30-Nov-21 A	04-Jul-22	01-Mar-22	05-Jul-22	1	27.00															
	Pier / Abutment	80	30-Nov-21 A	02-Mar-22	01-Mar-22	07-Mar-22	3	6.00															
Abutment 1A-			30-Nov-21 A		01-Mar-22	05-Mar-22	3	4.00															
3.1-2328	S1 - Construct Abutment A-1A-S1			16-Feb-22 A		01-Mar-22		3.00															
3.1-2330	S1 - A-IA-S1 Install Permeate Membrane and Baddfill				01-Mar-22	05-Mar-22	3	1.00															
	31 - Artarist ansair Permane Promotane and backin		31-Dec-21 A		07-Mar-22	07-Mar-22	-	2.00		T													
Ner 1E-S1 3.1-2334	S1 - Construct Pier 1E-S1 (2 Lifts)			28-Jan-22 A	07-Mar-22	07-Mar-22		2.00			ļļ.									ļ.,			ļ
	S1 - Constud Pier 1E-S1 (Z Lifts)																						
1 - Deck			03-Mar-22	04-Jul-22	07-Mar-22	05-Jul-22	1	21.00															
51 - Span 1A-1			03-Mar-22	04-Jul-22	07-Mar-22	05-Jul-22	1	10.00															
3.1-2358	S1 - Span IA-1E Falsework and formworks	30	03-Mar-22	07-Apr-22	07-Mar-22	11-Apr-22	3	4.00															
3.1-2359	S1 - Span 1A-1E Install Boarings	6	08-Apr-22	14-Apr-22	12-Apr-22	21-Apr-22	3	2.00															
3.1-2360	S1 - Span 1A-1E Web and Soffit	24	19-Apr-22	18-May-22	22-Apr-22	21-May-22	3	2.00								1		-					
3.1-2364	S1 - Span 1A-1E Deck Section	24	19-May-22	16-Jun-22	23-May-22	20-Jun-22	3	2.00											-	1 1	-		
3.1-2362	S1 - Span 1A-1E Post-tensioning (Stage 1)	12	20-Jun-22	04-Jul-22	21-Jun-22	05-Jul-22	1	0.00														_	-
51 - Span 1E-1	D	64	28-Mar-22	18-Jun-22	29-Mar-22	20-Jun-22	1	11.00															
3.1-2368	Completion of Pier/Portal 1D-S1 / S9	0		28-Mar-22		29-Mar-22	1	2.00					•										
3.1-2372	S1 - Span 1E-1D Falsework and formworks	25	29-Mar-22	30-Apr-22	30-Mar-22	03-May-22	1	4.00	· · · · · · · · · · · · · · · · · · ·														
3.1-2374	S1 - Span 1E-1D Install Bearings	6	03-May-22	10-May-22	04-May-22	11-May-22	1	2.00															
3.1-2376	S1 - Span 1E-1D Web and Soffit	15	11-May-22	27-May-22	12-May-22	28-May-22	1	1.00										_	_				
3.1-2378	S1 - Span 1E-1D Deck Section		28-May-22	18-Jun-22	30-May-22	20-Jun-22	1	2.00													_		
h_3.2 Bridge				29-Jun-22	21-Apr-22	30-Mar-23	222	32.00															
2 - Piling Wo			25-Feb-22	25-Feb-22	04-3ul-22	04-Jul-22	102	0.00															
Ning Works -			25-Feb-22	25-Feb-22	04-34-22	04-34-22	102	0.00															
3.2-2502	S2 - 2A Proof driling & Piles testing		25-Feb-22	25-Feb-22	04-3ul-22	04-3ul-22	102	0.00															
			04-Dec-21 A	29-Jun-22	21-Apr-22	30-Mar-23	222	32.00															
	Pier / Abutment		26-Feb-22	23-May-22			102																
Ner 2A					05-Jul-22	22-Sep-22		7.00		_													
3.2-2532	S2 - Install sheetpile for pile cap 2A	5	26-Feb-22	03-Mar-22	05-Jul-22	09-Jul-22	102	1.00										1					
Current Miles Actual Work Cotical Remaining V	Central P	Cowloo				t (Mont ing Prog			(Rev28 - CSD)	Bas	seline: out: KTE -	E-WP28_M34 3 Months Rolli iters: 3 Months	ng Progra		omission.		25-Od-21 20-Nov-2 25-Nov-2 24-Deo21 25-Deo21	Mont Subr Mont Subr Mont	Ny Programm nt CSD Progr Ny Programm	amme Rev 25 e M31 amme Rev 26 e M32			DC DC DC DC DC DC
																	24-Jan-22	Subr	nt CSD Progr	amme Rev 27		DY	DC

rID	Activity Name	Orig Du	r Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day)	ruary 4	Man 38	h		April 36		May 37		June 38	
3.2-2534	S2 - Excavation down to formation level C-2A	10	0 04-Mar-22	15-Mar-22	11-Jul-22	21-Jul-22	102	0.00	13 20	27 06 13	20 27	03 10	17 24	01 08	15 22	29 05	12 1	.9
3.2-2536	S2 - Prepare pile head (2 nrs) 2A		9 16-Mar-22	25-Mar-22	22-Jul-22	01-Aug-22	102	1.00										
3.2-2538	S2 - Construct pile cap C-2A	15	5 26-Mar-22	13-Apr-22	02-Aug-22	18-Aug-22	102	2.00			_	_						
3.2-2540	S2 - Construct Pier P-2A (3 Lifts)	25	9 14-Apr-22	23-May-22	19-Aug-22	22-Sep-22	102	3.00										
Pier 2B		25	25-Feb-22	30-Mar-22	19-Aug-22	22-Sep-22	142	3.00										
3.2-2550	S2 - Construct Pier P-28 (3 Lifts)	2	25-Feb-22	30-Mar-22	19-Aug-22	22-5ep-22	142	3.00			_							
Pier 2CL/2CR		51	3 25-Feb-22	10-May-22	22-Sep-22	30-Nov-22	170	3.00										
10-8562	S2 - Construct Pier P-2CR (3 Lifts)		25-Feb-22	30-Mar-22	22-5ep-22	27-0d-22	170											
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)	25	9 31-Mar-22	10-May-22	28-Oct-22	30-Nov-22	170	3.00										
Pier 2DL/2DR			19-Jan-22 A	29-Jun-22	22-Dec-22	02-Feb-23	174	4.00										
3.2-2566	S2 - Install sheetpile for pile cap 2DL/2DR		5 19-Jan-22 A		22-Dec-22	22-Dec-22		1.00										
3.2-2568	S2 - Excavation down to formation level 2DL/2DR		27-May-22	09-Jun-22	22-Dec-22	06-Jan-23	174	2.00										
3.2-2570	S2 - Prepare pile head (4 nrs) C-2DR & C-2DL		7 10-Jun-22	29-Jun-22	07-Jan-23	02-Feb-23	174	1.00										
Pier 2EL/2ER			5 04-Dec 21 A		06-3ul-22	30-Mar-23	245	10.00										
3.2-2584	S2 - Prepare pile head (3 nrs) C-2ER & C-2EL		8 04-Dec-21 A			06-Jul-22		1.00										
3.2-2588	S2 - Construct pile cap C-2EL		2 24-Dec-21 A			06-Jul-22		2.00										
3.2-2586	S2 - Construct pile cap C-2ER	15	2 24-Dec-21 A	09-Feb-22 A	06-Jul-22	06-Jul-22		2.00										
3.2-2590	S2 - Construct Pier P-2ER (2 Lifts)	21	30-Mar-22	26-Apr-22	02-Feb-23	24-Feb-23	245	2.00			•							
3.2-2592	S2 - Construct Pier P-2EL (3 Ufb)	25	27-Apr-22	01-Jun-22	25-Feb-23	30-Mar-23	245	3.00					-					
Abutment 2F		3.	2 14-Jan-22 A	29-Mar-22	21-Apr-22	24-0d-22	168	5.00										
3.2-2598	S2 - Prepare pile head (3 nrs) A-2F	13	3 14-Jan-22 A	26-Jan-22 A	21-Apr-22	21-Apr-22		1.00										
3.2-2600	S2 - Construct Abutment Base A-2F	14	07-Feb-22 A	05-Mar-22	21-Apr-22	29-Apr-22	43	2.00	_									
3.2-2602	S2 - Construct Abultment A-2F	21	07-Mar-22	29-Mar-22	29-5ep-22	24-0d-22	168	2.00										
Sch_3.3 Bridge	e S3 Works	111	14-Feb-22 A	25-Jun-22	05-Aug-22	26-Jul-23	318	20.00										
S3 - Pile Caps,	, Pier / Abutment	11	14-Feb-22 A	25-Jun-22	05-Aug-22	26-Jul-23	318	20.00										
Abutment 3A-		2	25-Feb-22	30-Mar-22	05-Aug-22	26-Jul-23	386	4.00										
3.3-2826	53 - Construct Abutment A-3A-53	19	25-Feb-22	18-Mar-22	05-Aug-22	26-Aug-22	130	3.00										
3.3-2828	S3 - A-3A-S3 Install Permeate Membrane and Baddfill	10	19-Mar-22	30-Mar-22	15-Jul-23	26-Jul-23	386	1.00										
Pier 3E-S3		4	14-Feb-22 A	28-Mar-22	09-Jun-23	12-Jul-23	376	9.00										
3.3-2830	S3 - Prepare Pile Head for 3E-S3		5 14-Feb-22 A		09-Jun-23	09-Jun-23		1.00										
3.3-2834	S3 - 3E-S3 Reinstatement of Slab of Kai Tak River		3 15-Feb-22 A	07-Mar-22	09-Jun-23	19-Jun-23	376	6.00										
3.3-2832	S3 - Construct Pier 3E-S3 (2 Lifts)		8 08-Mar-22	28-Mar-22			376	2.00										
					20-Jun-23	12-Jul-23												
Abutment 3D-			0 11-Apr-22	25-Jun-22	15-May-23	26-Jul-23	318	7.00				_						
3.3-2846	53 - Prepare pile head (3 nrs) A-3D-53		8 11-Apr-22	28-Apr-22	15-May-23	30-May-23	318	1.00										
3.3-2848	S3 - Construct Abutment Base A-3D-53		1 29-Apr-22	25-May-22	31-May-23	24-Jun-23	318	3.00							T			
3.3-2850	S3 - Construct Abutment A-3D-53		5 26-May-22	14-Jun-22	26-Jun-23	14-Jul-23	318	2.00										
3.3-2852	S3 - A-3D-S3 Install Permeate Membrane and Baddfill		0 15-Jun-22	25-Jun-22	15-Jul-23	26-Jul-23	318	1.00									-	-
Sch_3.4 Bridge	e S4 Works	17-	10-Dec-21 A	20-Jul-22	21-Mar-22	01-Jan-26	1016	69.00										
_														Dute	_	Revision	Church	Ked Ap
Current Mile		Central Kowlo	on Rout	o - Kai 1	Tak Eas	t (Mont	341	Indet	201	Project ID: KTE-V Baseline:	/P28_M34			25-Od-21 20-Nov-21	Monthly Program Submit CSD Pro	vme M30	TW	DC DC
Critical Rem		Central ROWIO				ing Proc)	Layout: KTE - 3 M				25-Nov-21 24-Deo-21	Monthly Program Submit CSD Pro	rme MS1	TW	DC DC
Remaining 1	Work			00 1101			, ann			Filter: TASK filter	: 3 Months Rollin	ig_1, KTE - Subr	nission.	25-Deo-21	Monthly Program	me M32	TYY	DC
										Page 4 of 17				24-Jan-22 25-Feb-22	Submit CSD Pro	gramme Rev 27 gramme Rev 28 with f	THY	DC

	Activity Name	Orig Dur Sta	t Finish	Late Stat	Late Finish	Total Float	TRA (Day)	My 3 20		1	arch 35			April 36	1		May 37	1		-	38	-
4 - Piling Wo	rks	105 10-Dec	21 A 26-Apr-22	21-Mar-22	01-Jan-26	1085	8.00	3 20	0 27	06	13 20	27	Q3 1	10 17	24	01 0	15	22	29	05	12 19	+
Piling Works -	Pier P-4K-S4-A	81 10-Der	21 A 24-Mar-22	21-Mar-22	01-Jan-26	1109	4.00															
3.4-3016	S4 - Bored Piles for 4K-S4-A-1 (1 nr)	33 10-Der	21 A 04-Jan-22 A	21-Mar-22	21-Mar-22		4.00															
3.4-3028	54 - 4K-54-A-2 Proof drilling & Piles testing	24 25-Fe	-22 24-Mar-22	11-Apr-22	13-May-22	37	0.00				_											
3.4-3020	54 - 4K-54-A-1 Proof drilling & Piles testing	24 25-Fe	-22 24-Mar-22	03-Dec-25	01-Jan-26	1109	0.00				_											
Piling Works -	Pier P-4K-S4-B	101 18-Der	21 A 26-Apr-22	21-Mar-22	01-Jan-26	1085	4.00															
3.4-3018	S4 - Bored Piles for 4K-54-8-1 (1 nr)	29 18-Der	21 A 19-Feb-22 A	21-Mar-22	21-Mar-22		4.00															
3.4-3022	S4 - 4K-S4-8-1 Proof drilling & Piles testing	24 25-Fe	-22 24-Mar-22	01-Apr-22	04-May-22	30	0.00				_				1							
3.4-3030	54 - 4K-54-8-1 Proof drilling & Piles testing	24 25-M	-22 26-Apr-22	03-Dec-25	01-Jan-26	1085	0.00						_	_	-							
4 - Pile Caps,	Pier / Abutment	115 04-Feb	22 A 05-Jul-22	21-Mar-22	09-Dec-22	132	52.00															
Her 4K-S4-A-		57 07-Feb	22 A 06-May-22	21-Mar-22	31-May-22	20	10.00															
3.4-3080A	S4 - 4K-54-A modification of KTR cofferdam prior to Pile head trimming	5 07-Feb	22 A 12-Feb-22 A	21-Mar-22	21-Mar-22																	
3.4-3080	S4- Prepare Pile Head for 4K-S4-A-1	24 25-Fe		21-Mar-22	21-Apr-22	20	1.00		1		-											
3.4-3084	54 - 4K-54-A-1 Reinstatement of Slab of Kai Tak River	5 25-44	-22 30-Mar-22	22-Apr-22	27-Apr-22	20	6.00															
3.4-3082	S4 - Construct Pier 4K-S4-A-1 (3 Lifts)	27 31-M		28-Apr-22	31-May-22	20	3.00						_	_	1	_						
ier 4K-S4-A-:		66 25-50		01-Apr-22	13-Jun-22	20	10.00															
3.4-3086	S4 - Prepare Pile Head for 4K-S4-A-2	24 25-Fe		01-Apr-22	04-May-22	30																
3.4-3090	S4 - 4K-S4-A-2 Reinstatement of Slab of Kai Tak River	5 2544		05-May-22	11-May-22	30	6.00															
3.4-3088	54 - Construct Pier 4K-54-A-2 (3 Lifts)	27 1346		12-May-22	13-Jun-22	20	3.00										_					
fer 4K-S4-B-:		89 11-Feb		14-May-22	14-Sep-22	71																
3.4-3092A	S4 - 4K-S4-B modification of KTR cofferdam prior to Pile head trimming	5 11-Feb			14-May-22	~	10.00															
3.4-3092	S4 - Prepare Pile Head for 4K-S4-8-1	24 25-M		14-May-22	11-Jun-22	37										_						
3.4-3096	54 - 4K-54-8-1 Reinstatement of Slab of Kai Tak River	5 27-44		08-Aug-22	12-Aug-22	84										-						
3.4-3094	54 - Construct Pier 4K-54-B-1 (3 Lifts)	27 20-Ma		13-Aug-22	14-Sep-22	71	3.00											1		1		
ier 4K-S4-B-		79 25-M		14-May-22	26-Sep-22	71																
3.4-3098	S4 - Prepare Pile Head for 4K-S4-8-2	24 25-44		14-May-22	11-Jun-22	37						1			1							
3.4-3102	S4 - 4K-S4-B-2 Reinstatement of Slab of Kai Tak River	5 27-46		19-Aug-22	24-Aug-22	94	6.00									-						
3.4-3100	54 - Construct Pier 4K-54-B-2 (3 Lifts)	27 01-Ju		25-Aug-22	26-Sep-22	71														1		
Pier 4E-S4		20 07-Feb		26-Sep-22	20-Oct-22	163	2.00															
3.4-3112	S4 - Construct Pier 4E-S4 (2 Lifts)	20 07-Feb	22 A 31-Mar-22	26-Sep-22	20-0ct-22	163		1														
Pier 4F-S4		43 14-M		21-0d-22	09-Dec-22	132	8.00								1							
3.4-3114	54 - 4F-54 ELS	4 14-Ma		21-0d-22	25-0d-22	132	1.00										-					
3.4-3116	S4 - Excavation Down to Formation Level 4F-S4	11 19-Ma		26-0d-22	07-Nov-22	132																
3.4-3118	S4 - Prepare Pile Head (2nns) for 4E-S4	10 01-Ju	-22 13-Jun-22	08-Nov-22	18-Nov-22	132																
3.4-3120	S4 - Construct Pile Cap 4F-S4	18 14-Ju		19-Nov-22	09-Dec-22	132	3.00															1
Ner 4G-S4		19 20-4;	-22 13-May-22	27-Sep-22	20-0d-22	132	0.00															
3.4-3132A	S4 - Construct Pier 4G-S4 (2 Lifts)	19 20-A¢	-22 13-May-22	27-Sep-22	20-Oct-22	132											-					
fer 4J-54		20 04-Feb	22 A 31-Mar-22	04-Jul-22	26-Jul-22	92	2.00															
_									_							Date	-		Revelor		Checke	a T
Current Miles Actual Work Critical Remaining V	central I	Kowloon R	oute - Kai Three Mor					D)	Ba	roject ID: KTE aseline: ayout: KTE - 3 Iter: TASK filt	Months Ro	ling Program		mission.		25-Od-21 20-Nov-21 25-Nov-21 24-Deo21 25-Deo21	Submit Monthly Submit	/ Programme CSD Programme / Programme	n M30 mme Rev 25 M31 mme Rev 26		TW TW TW TW TW TW	
									Pr	age 5 of 17						24-Jan-22 25-Feb-22	Submit	CSD Progra	mme Rev 27 mme Rev 28		TYY	

54 - Deck 54-Span (L) 54- Span 48-4K(L) 3.4-3172 54 54- Span 4K-43(L) (39	04-Feb-22 A 04-Jun-22 04-Jun-22	31-Mar-22 20-Jul-22 20-Jul-22	04-Jul-22 28-Jun-22 28-Jun-22	26-3ul-22 09-5ep-22	Float 92 44	2.00	13 20	27	06 13	20 2	03	10 17	24	01	08 15	22	29 05	12	19
64 - Deck S4-Span (L) S4- Span 48-4K(L) 3.4-3172 S4 S4- Span 4K-43(L) ((Stage 1)	39	04-Jun-22	20-Jul-22	28-Jun-22	09-5ep-22															
S4-Span (L) S4- Span 4B-4K(L) 3.4-3172 S4- S4- Span 4K-43(L) (39						9.00								1 î					
54- Span 4B-4K(L) 3.4-3172 54- 54- Span 4K-4J(L) (04-Jun-22	20-Jul-22																	
3.4-3172 S4 - 54- Span 4K-4J(L) (28-Jun-22	09-Sep-22	44	9.00													
54- Span 4K-4J(L) (6							3.00													
	 Span 4B(A) - 4K(A) Falsework and formworks 	24	04-Jun-22	02-Jul-22	28-Jun-22	26-Jul-22	20	3.00											-		-
	(Stage 2)	39	04-Jun-22	20-30-522	27-301-22	09-Sep-22	-44	6.00													
3.4-3276 S4	- Span 4K(A)-4J Falsework and formworks	39	04-Jun-22	20-Jul-22	27-Jul-22	09-Sep-22	44	6.00													-
ch_3.5 Bridge S7 W	lorks	169	04-Dec-21 A	08-3ul-22	23-Mar-22	13-Apr-23	223	23.00													
7 - Piling Works		90	04-Dec-21 A	28-Mar-22	23-Mar-22	22-Apr-22	18	8.00													
Piling Works - Pier P	-7B	90	04-Dec-21 A	28-Mar-22	23-Mar-22	22-Apr-22	18	8.00													
	- Bored Piles for 78-57-2 Part 2 (CNCE-0045)		04-Dec-21 A			23-Mar-22		0.00													
	- Bored Piles for 78-57-1 Part 1 (upto -74.0mPD) (CNCE-0045)		30-Dec-21 A		23-Mar-22	23-Mar-22		6.00													
	- Bored Piles for 78-57-1 Part 2 (CNCE-0045)		25-Jan-22 A			23-Mar-22		0.00													
	Demob Piling Plant and Equipment		16-Feb-22 A	22-Feb-22 A	23-Mar-22	23-Mar-22		2.00	_												
3.5-3402 57	- 78-57 Proof drilling & Piles testing	24	23-Feb-22 A	28-Mar-22	20-Apr-22	22-Apr-22	18	0.00	-												
7 - Pile Caps, Pier /	Abutment	153	23-Dec-21 A	08-Jul-22	03-May-22	13-Apr-23	223	15.00													
Pier 7B		53	05-May-22	08-Jul-22	03-May-22	09-Jul-22	1	7.00													
3.5-3415 \$7	- 78-57 ELS	5	05-May-22	11-May-22	03-May-22	07-May-22	-2	1.00								-	•				
3.5-3416 \$7	- Excavation down to formation level C-78-S7	4	12-May-22	16-May-22	10-May-22	13-May-22	-2	1.00									-				
3.5-3418 \$7	- Prepare pile head (2 nrs) C-78-S7	9	17-May-22	26-May-22	18-May-22	27-May-22	1	1.00													
3.5-3420 57	- Construct pile cap C-7B-57	15	27-May-22	14-Jun-22	28-May-22	15-Jun-22	1	2.00										-			
	- Construct Pier P-7B-67 (2 Lifts)		15-Jun-22	08-Jul-22	16-Jun-22	09-Jul-22		2.00													_
	- Constant in the second for barry		23-Dec-21 A	10-Mar-22	27-Mar-23	13-Apr-23	318	2.00													
Pier 7C																					
	- Construct Pier P-7C/S7 (2 Lifts)		23-Dec-21 A	10-Mar-22	27-Mar-23	13-Apr-23	318	2.00			_										
Abutment 7D		40	04-Jan-22 A	22-Mar-22	24-Dec-22	21-Jan-23	248	6.00													
3.5-3432 \$7	- Construct Abutment Base A-7D-S7	19	04-Jan-22 A	20-Jan-22 A	24-Dec-22	24-Dec-22		3.00													
3.5-3434 57	- Construct Abutment A-7D-57	22	25-Feb-22	22-Mar-22	24-Dec-22	21-Jan-23	248	3.00		1 1		-									
ch_3.6 Bridge S8 W	lorks	29	09-Apr-22	18-May-22	22-Jul-23	05-0d-23	409	6.00													
8 - Pile Caps, Pier /	Abutment	29	09-Apr-22	18-May-22	22-Jul-23	05-0d-23	409	6.00													
Pier 8C		29	09-Apr-22	18-May-22	22-Jul-23	24-Aug-23	375	3.00													
3.6-3634 58	- Construct. Pier P-8C-S8 (3 Lifts)	29	09-Apr-22	18-May-22	22-Jul-23	24-Aug-23	375	3.00							-		-				
Abutment 8D		21	09-Apr-22	07-May-22	09-Sep-23	05-0d-23	417	3.00													
	- Construct Abutment A-6D-58		09-Apr-22	07-May-22	09-Sep-23	05-0d-23	417	3.00													
			27-Nov-21 A	06-34-22	25-Feb-22	25-34-22	16	59.00													
ch_3.7 Bridge S9 W	rons						10														
9 - Piling Works			10-Jan-22 A			07-Mar-22		0.00													
Piling Works - Pier P			10-Jan-22 A		07-Mar-22	07-Mar-22		0.00													
3.7-3802 \$9	- 9A Proof drilling & Piles testing	23	10-Jan-22 A	13-Jan-22 A	07-Mar-22	07-Mar-22		0.00													
9 - Pile Caps, Pier /	Abutment	175	27-Nov-21 A	06-Jul-22	25-Feb-22	25-Jul-22	16	45.00													

)	Activity Name	Orig C	ur Start	Finish	Lale Stat	Late Finish	Total Float	TRA (Day)	February 34 30 06 13 20	March 35 27 06 13	20 27	April 36 03 10 17	24 01	May 37 08 15	22 29 04	June 38 12 1	9 24
Pier 9A			6 03-Jan-22 A	31-Mar-22	07-Mar-22	11-Apr-22	8	8.00									
3.7-3822	S9 - Install sheetpile for pile cap 9A		5 03-Jan-22 A	06-Jan-22 A	07-Mar-22	07-Mar-22		1.00									
3.7-3824	59 - Exzvation down to formation level C-9A		8 07-Jan-22 A	28-Jan-22 A	07-Mar-22	07-Mar-22		2.00									
3.7-3826	S9 - Prepare pile head (1nr) C-9A-S9		5 29-Jan-22 A	08-Feb-22 A	07-Mar-22	07-Mar-22		1.00									
3.7-3828	S9 - Construct pile cap C-9A-S9		8 09-Feb-22 A	15-Feb-22 A	07-Mar-22	07-Mar-22		2.00	-								
3.7-3830	S9 - Construct Pier P-9A-S9 (2 Lifts)		18 16-Feb-22 A	31-Mar-22	07-Mar-22	11-Apr-22	8	2.00									
Pier 9B			57 27-Nov-21 A	06-May-22	15-Mar-22	25-May-22	15	7.00									
3.7-3834	59 - Excavation down to formation level C-98		11 27-Nov-21 A	14-Jan-22 A	15-Mar-22	15-Mar-22		2.00									
3.7-3836	S9 - Prepare pile head (2nis) C-9B-S9		10 15-Jan-22 A		15-Mar-22	15-Mar-22		1.00									
3.7-3838	59 - Construct pile cap C-98-59		15 25-Jan-22 A		15-Mar-22	29-Apr-22	15	2.00				_					
3.7-3840	S9 - Construct Pier P-98-59 (2 Lifts)		10 09-Apr-22	06-May-22	30-Apr-22	25-May-22	15	2.00									
	55 - Construct Piel P-90-59 (2 Lind)						77	8.00									
Pier 9C			19 01-Dec-21 A		02-Jun-22	25-Jun-22	"										
3.7-3842	S9 - Install sheetpile for pile cap 9C		0 01-Dec-21 A			02-Jun-22		1.00									
3.7-3844	59 - Excavation down to formation level C-9C		11 06-Dec 21 A			02-Jun-22		2.00									
3.7-3846	S9 - Prepare pile head (2nis) C-9C-59		13 28-Dec-21 A	04-Jan-22 A	02-Jun-22	02-Jun-22		1.00									
3.7-3848	59 - Construct pile cap C-9C-59		15 05-Jan-22 A	14-Jan-22 A	02-Jun-22	02-Jun-22		2.00									
3.7-3850	S9 - Construct Pier P-9C-S9 (2 Lifts)		25-Feb-22	19-Mar-22	02-Jun-22	25-Jun-22	77	2.00									
Pier 9D		1	14 22-Dec-21 A	28-May-22	26-Apr-22	25-Jul-22	47	9.00									
3.7-3868A	S9 - Preparation for Pier Construction - 9D (2 nos)		15 22-Dec-21 A	07-Mar-22	26-Apr-22	06-May-22	47	2.00									
3.7-3870	S9 - Construct Pier P-9D-B-S9 (3 Lifts) (R)		9 08-Mar-22	11-Apr-22	07-May-22	11-Jun-22	47	3.00				-					
3.7-3868	S9 - Construct Pier P-9D-A-S9 (2 Lifts) (L)		12-Apr-22	10-May-22	13-Jun-22	06-Jul-22	47	2.00									
3.7-3876	59 - Construct Pier Portal P-9D		16 11-May-22	28-May-22	07-Jul-22	25-Jul-22	47	2.00							_		
Abutment 4H	I/9E	1	05 25-Feb-22	06-Jul-22	25-Feb-22	25-Jul-22	16	13.00									
3.7-3872	S9 - Install sheetpile for pile cap 4H/9E		8 25-Feb-22	05-Mar-22	25-Feb-22	05-Mar-22	0	1.00									
3.7-3874	S9 - Excavation down to formation level A-4H/9E		3 07-Mar-22	21-Mar-22	07-Mar-22	21-Mar-22	0	2.00		-							
3.7-3878	S9 - Prepare pile head (6nrs) C-4H/9H		4 22-Mar-22	07-Apr-22	22-Mar-22	07-Apr-22	0	2.00			. in provident of						
3.7-3880	59 - Construct Abutment Base A-4H/9E		6 08-Apr-22	13-May-22	08-Apr-22	13-May-22	0	4.00									
3.7-3882	59 - Construct Abutment A-4H/9E		12 14-May-22	21-Jun-22	02-Jun-22	11-3ul-22	16	4.00								_	
3.7-3883	S9 Install Permeate Membrane and Baddill		12 22-Jun-22	06-Jul-22	12-3ul-22	25-Jul-22	16	4.00									
	59 trotal Permote Plenorane and baddil																
S9 - Deck			57 01-Apr-22	25-Jun-22	12-Apr-22	20-Jul-22	20	14.00									
	-9A (Stage 1)		19 01-Apr-22	04-Jun-22	12-Apr-22	14-Jun-22	8	6.00									
3.7-3884	S9 - Span 1D-9A Falsework and formworks		13 01-Apr-22	20-Apr-22	12-Apr-22	29-Apr-22	8	2.00			-						
3.7-3886	S9 - Span 1D-9A Install Bearings		6 21-Apr-22	27-Apr-22	30-Apr-22	07-May-22	8	2.00					1				
3.7-3888	S9 - Span 1D-9A Web and Soffit		9 28-Apr-22	10-May-22	10-May-22	19-May-22	8	1.00					-				
3.7-3890	59 - Span 1D-9A Deck Section		9 11-May-22	20-May-22	20-May-22	30-May-22	8	1.00									
3.7-3892	S9 - Span 1D-9A Post-tensioning (Stage 1)		12 21-May-22	04-Jun-22	31-May-22	14-Jun-22	8	0.00						•			
59 - Span 9A	-96 (Stage 2)		1 07-May-22	25-Jun-22	26-May-22	06-Jul-22	8	5.00									
3.7-3894	S9 - Span 9A-98 Falsework and formworks		16 07-May-22	26-May-22	26-May-22	14-Jun-22	15	3.00							-		
Ument M	lestone									Project ID: KTE-WF	P28 M34			Date Data Monthly Per	Revision ogramme M30	Check	ed Appro
Adual Wo Otical Rer Remaining	maining Work	Central Kowlo				t (Monti ing Prog			(Rev28 - CSD)	Baseline: Layout: KTE - 3 Mo Filter: TASK filters:	onths Rolling Program		204 254 244	kov-21 Submit CS kov-21 Monthly Per beo21 Submit CS beo21 Monthly Per	D Programme Rev 25 ogramme M31 D Programme Rev 26 ogramme M32	THY THY THY THY	DC DC DC DC
										Page 7 of 17				an-22 Submit CS	D Programme Rev 27 D Programme Rev 28 with	THY	DC

	Activity Name	Orig Dur	Stat	Finish	Late Stat	Late Finish	Float	TRA (Day)	34 13 20 27	35 36 36 17 10 17	37 24 01 08 15 22 29 05
3.7-3896	59 - Span 9A-9B Web and Soffit	9	06-Jun-22	15-Jun-22	15-Jun-22	24-Jun-22	8	1.00			
3.7-3898	S9 - Span 9A-9B Deck Section	9	16-Jun-22	25-Jun-22	25-Jun-22	06-Jul-22	8	1.00			
59 - Span 98-	9C (Stage 3)	20	27-May-22	20-Jun-22	27-Jun-22	20-Jul-22	25	3.00			
3.7-3902	S9 - Span 98-9C Falsework and formworks	20	27-May-22	20-Jun-22	27-Jun-22	20-Jul-22	25	3.00			
th_3.8 Bridge	a S1/S9 Works	248	16-Sep-21 A	02-Jul-22	19-Feb-22	15-Jul-22	11	52.00			
1/S9 - Piling	Works	24	25-Feb-22	24-Mar-22	23-Feb-22	22-Mar-22	-2	3.00			
Piling Works -	Pier P-1F/7A	24	25-Feb-22	24-Mar-22	23-Feb-22	22-Mar-22	-2	0.00			
3.8-4010	S1/S9 - 1F/7A Proof drilling & Piles testing	24	25-Feb-22	24-Mar-22	23-Feb-22	22-Mar-22	-2	0.00			
Piling Works -	ABUT A-1G	2	25-Feb-22	26-Feb-22	25-Feb-22	26-Feb-22	0	3.00			
3.8-4014	S1/S9 - 1G Proof drilling & Piles testing	2	25-Feb-22	26-Feb-22	25-Feb-22	26-Feb-22	0	3.00	- -		
1/S9 - Pile C	aps, Pier / Abutment	172	25-Nov-21 A	02-Jul-22	19-Feb-22	15-Jul-22	11	36.00			
Pier 1D		97	25-Nov-21 A	28-Mar-22	19-Feb-22	23-Mar-22	-4	7.00			
3.8-4018	S1/S9 - Exzavation down to formation level C-1D-B-S1/S9	8	25-Nov-21 A	06-Dec-21 A	19-Feb-22	19-Feb-22		1.00			
3.8-4020	S1/59 - Prepare pile head (1nr) C-1D-B-51/59	5	07-Dec 21 A	22-Dec-21 A	19-Feb-22	19-Feb-22		1.00			
3.8-4021	51/59 - Construct pile cap C-1D-8-51/59	12	23-Dec 21 A	25-Feb-22	19-Feb-22	19-Feb-22	-4				
3.8-4026	S1/S9 - Construct Pier P-1D-8-S1/S9 (1 Lift)	6	25-Feb-22	03-Mar-22	21-Feb-22	26-Feb-22	-4	2.00			
3.8-4032	S1/S9 - Construct Portal P-1D-S1/S9	21	04-Mar-22	28-Mar-22	28-Feb-22	23-Mar-22	-4	3.00	-		
Pier 1E		63	11-Jan-22 A	23-May-22	28-Feb-22	18-May-22	-4	10.00			
3.8-4036	S1/S9 - Install sheetpile for pile cap 1E	6	11-Jan-22 A	14-Jan-22 A	28-Feb-22	28-Feb-22		1.00			
3.8-4038	S1/S9 - Exavation down to formation level C-1E-S1/S9	14	10-Feb-22 A	14-Mar-22	28-Feb-22	09-Mar-22	-1	2.00		•••••	
3.8-4040	S1/S9 - Prepare pile head (2nrs) C-1E-S1/S9	9	15-Mar-22	24-Mar-22	10-Mar-22	19-Mar-22	-4	1.00			
3.8-4042	S1/S9 - Construct pile cap C-1E-S1/S9	22	25-Mar-22	23-Apr-22	21-Mar-22	19-Apr-22	-4	3.00			
3.8-4044	S1/S9 - Construct Pier P-1E-S1/S9	23	25-Apr-22	23-May-22	20-Apr-22	18-May-22	-4	3.00			
Pier 1F/7A		78	25-Mar-22	02-3ul-22	23-Mar-22	04-Jul-22	1	9.00			
3.8-4046A	S1/S9 - Trial trench for sheetpile and removal of abandone of 1350	12	25-Mar-22	08-Apr-22	23-Mar-22	06-Apr-22	-2				
3.8-4046	S1/S9 - Install sheetpile for pile cap 1F/7A	6	09-Apr-22	19-Apr-22	07-Apr-22	13-Apr-22	-2	1.00			
3.8-4048	S1/S9 - Exavation down to formation level 1F/7A-S1/S9	12	20-Apr-22	04-May-22	14-Apr-22	30-Apr-22	-2	2.00			
3.8-4050	S1/S9 - Prepare pile head (1nr) C-1F/7A-S1/S9	5	05-May-22	11-May-22	06-May-22	12-May-22	1	1.00			
3.8-4052	S1/S9 - Construct pile cap C-1F/7A-S1/S9	20	12-May-22	04-Jun-22	13-May-22	06-Jun-22	1	3.00			
3.8-4054	S1/S9 - Construct Pier P-1F/7A-S1/S9 (2 Lifts)	23	06-Jun-22	02-Jul-22	07-Jun-22	04-Jul-22	1	2.00			
Abutment 1G		81	28-Feb-22	09-Jun-22	28-Feb-22	15-Jul-22	30	10.00			
3.8-4058	S1/S9 - Exavation down to formation level A-1G-S1/S9	16	28-Feb-22	17-Mar-22	28-Feb-22	17-Mar-22	0	2.00			
3.8-4060	51/59 - Prepare pile head (4nrs) C-1G-51/59	16	18-Mar-22	06-Apr-22	18-Mar-22	06-Apr-22	0	1.00			
3.8-4062	S1/S9 - Construct Abutment Base A-1G-S1/S9	18	07-Apr-22	30-Apr-22	07-Apr-22	30-Apr-22	0	3.00			
3.8-4064	S1/S9 - Construct Abutment A-1G-S1/S9	31	03-May-22	09-Jun-22	09-Jun-22	15-Jul-22	30	4.00			
1/59 - Deck		248	16-Sep-21 A	02-3ul-22	18-May-22	27-Jun-22	-4	13.00			
	1D-1E (Stage 1)	21	08-Jun-22	02-341-22	02-Jun-22	27-Jun-22	-4	3.00			
3.8-4068	51/59 - Span 1D-1E Falsework and formworks (L& R)	21	08-Jun-22	02-3ul-22	02-Jun-22	27-Jun-22	-4	3.00			

5	Activity Name	Orig Dur	Start	Finish	Late Stat	Late Finish	Total Float	TRA (Day	February 34	Marc 35	ħ		April 36			May 37			June 38	
\$1/\$0 . Seen	1E-1F/1E-7A (Stage 1)	222	16-Sep-21 A	07-Jun-22	18-May-22	01-Jun-22	-4	10.0	23 30 06 13 20	27 06 13	20 2	03	10 17	24	01 08	15	22 29	05	12 19	26
3.8-4079	S1/S9 - Span 1E-1F/7A steel portal - temp footing (Kai Fuk Road) Night works		16-Sep-21 A		18-May-22	18-May-22	65	10.0												
3.8-4080A	S1/S9 - Span 1E to 1F/7A Erect Steel Portal (over Kai Fuk Road) Night works (WB)(2-W)	12	24-May-22	07-Jun-22	19-May-22	01-Jun-22	-4	0.0												
3.8-40808	S1/S9 - Span 1E to 1F/7A Fabrication Steel Portal (over Kai Fuk Road) Day works (WB)(2-W)	10	24-May-22	04-Jun-22	21-May-22	01-Jun-22	-2										_			
ich_3.9 Bridge	e CKRW Works	183	29-Nov-21 A	15-Jul-22	21-Mar-22	30-Dec-22	139	33.0												
CKRW - Pilling	Works	94	29-Nov-21 A	24-Mar-22	21-Mar-22	11-Jul-22	85	4.0												
Piling Works -	Pier P-K5-CKRW	94	29-Nov-21 A	24-Mar-22	21-Mar-22	11-Jul-22	85	4.0												
3.9-4208	O/RW - Bored Piles for KS-O/RW-1 (1 nr)	36	29-Nov-21 A	17-Dec-21 A	21-Mar-22	21-Mar-22		4.0												
3.9-4210	OKRW - KS-OKRW-1 Proof drilling & Piles testing	24	25-Feb-22	24-Mar-22	14-May-22	11-Jun-22	61	0.0												
3.9-4204	OKRW - KS-OKRW-2 Proof drilling & Piles testing	24	25-Feb-22	24-Mar-22	13-Jun-22	11-Jul-22	85	0.0		l										
		03	21-Mar-22	15-Jul-22	13-Jun-22	30-Dec-22	139	29.0												
	aps, Pier / Abutment																			
Abutment A-K			21-Mar-22	25-Apr-22	29-Aug-22	30-Dec-22	205	4.0												
3.9-4236	OKRW - Construct Abutment A-K1-OKRW		21-Mar-22	11-Apr-22	29-Aug-22	19-Sep-22	130	4.0												
3.9-4238	OVRW - A-K1-OVRW Install Permeate Membrane and Baddill	9	12-Apr-22	25-Apr-22	19-Dec-22	30-Dec-22	205	0.0						1						
Pier K5-CKRW	V-1	47	27-Apr-22	23-Jun-22	13-Jun-22	06-Aug-22	37	9.0												
3.9-4240	CKRW - Prepare Pile Head for KS-CKRW-1	24	27-Apr-22	26-May-22	13-Jun-22	11-Jul-22	37	1.0								-	-			
3.9-4244	OKRW - KS-OKRW-1 Reinstatement of Slab of Kai Tak River	5	27-May-22	01-Jun-22	12-Jul-22	16-Jul-22	37	6.0									-			
3.9-4242	ORRW - Construct Pier KS-OKRW-1 (2 Lifts)	18	02-Jun-22	23-Jun-22	18-Jul-22	06-Aug-22	37	2.0									-		-	
Pier KS-CKRW	V-2	65	27-Apr-22	15-Jul-22	05-3ul-22	27-Aug-22	37	9.0												
3.9-4252	OKRW - Prepare Pile Head for K5-OKRW-2		27-Apr-22	26-May-22	05-Jul-22	01-Aug-22	55	1.0						-						
3.9-4256	OKRW - KS-CKRW-2 Reinstatement of Slab of Kai Tak River		27-May-22	01-Jun-22	02-Aug-22	06-Aug-22	55	6.0												
3.9-4254	OKRW - Construct Pier KS-OKRW-2 (2 Lifts)					-											T			1
			24-Jun-22	15-Jul-22	08-Aug-22	27-Aug-22	37	2.0											1	1
Abutment A-K			11-Apr-22	05-Jul-22	01-Aug-22	30-Dec-22	148	7.0												
3.9-4268	OKRW - Prepare pile head (4nrs) A-K4-OKRW	17	11-Apr-22	04-May-22	01-Aug-22	19-Aug-22	89	1.0						1						
3.9-4270	OKRW - Construct Abutment Base A-K4-OKRW	19	05-May-22	27-May-22	20-Aug-22	10-Sep-22	89	3.0								-				
3.9-4272	OKRW - Construct Abutment A-K4-OKRW	22	28-May-22	23-Jun-22	13-Sep-22	10-Oct-22	89	3.0										-	-	
3.9-4274	CKRW - A-K4-CKRW Install Permeate Membrane and Baddill	9	24-Jun-22	05-Jul-22	19-Dec-22	30-Dec-22	148	0.0												+
ch_4.2 Slip Re	oad Underpass S3	262	04-Aug-21 A	27-Jun-22	25-Feb-22	11-Feb-23	184	31.0												
S3 - Not relate	ed to TTA (Ramp W4-W1)	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	206	6.0												
ELS for Under	pass (Ramp)	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	205	6.0												
4-4504	S3 - Instal cofferdam	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	206	6.0												
	e 1 (Ramp W8-W5 & Box Section Bay B1)			24-Feb-22 A		11-May-22		16.0												
RC Structures				16-Feb-22 A		11-May-22		9.0												
			-					9.0												
Box Section																				
	20m) Pump Sump			16-Feb-22 A		11-May-22		7.0												
4-4570	S3-B1 - Consturct RC Wall & Sump Pump wall & slab upto +2.916	24	25-Nov-21 A	22-Dec-21 A	11-May-22	11-May-22		4.0												
4-4574	S3-B1 - Constant Top Slab	14	23-Dec-21 A	16-Feb-22 A	11-May-22	11-May-22		3.0												
Ramp W8 to 1	w5	145	04-Aug-21 A	14-Feb-22 A	25-Feb-22	25-Feb-22		2.0												-
Current Mile	None									Project ID: KTE-V	/D28 M34				Date		Revision		Chedied	
Adual Work	Central Ko	owloo	n Rout	e - Kai	Tak Eas	t (Mont	h 34 l	Updat	e) (Rev28 - CSD)	Baseline:					25-Od-21 20-Nov-21	Submit C	rogramme M30 SD Programme Rev 2	5	TWY	DC
Critical Remaining N	aining Work					ing Prog			.,	Layout: KTE - 3 M			haritalar		25-Nov-21 24-Deo-21		vogramme M31 SD Programme Rev 2	6	TWY	DC
										Filter: TASK filters	s a Months Rolli	1, KIE - S	Jornission.		25-Deo-21 24-Jan-22	Monthly P	rogramme M32 SD Programme Rev 2		TWY	DC
										Page 9 of 17					25-Feb-22		SD Programme Rev 2			DC

D	Activity Name	Orig Du	Stat	Finish	Late Stat	Late Finish	Total Float	TRA (Day	February 34		March 35			April 36	-		-	May 37			June 38	
Bay W5		24	05-Oct-21 A	14-Feb-22 A	25-Feb-22	25-Feb-22	r soal	0.00	30 06 13 20	27 06	13	20 27	03	10	17 24	01	08	15	22 2	8 05	12	19 3
								0.00														
4-4549	S3-W5 - Construct Side Wall (final pour)		05-0d-21 A		25-Feb-22	25-Feb-22																
Bay W6		26	04-Aug-21 A	12-Feb-22 A	25-Feb-22	25-Feb-22		2.00														
4-4542	S3-W6 - Construct Side Wall	26	04-Aug-21 A	12-Feb-22 A	25-Feb-22	25-Feb-22		2.00														
Miscellaneous		23	16-Dec21 A	24-Feb-22 A	11-May-22	11-May-22		7.00														
4-4585	S3 - Temp steel deck bridge over the Ramp W7-W8	0	16-Dec-21 A	24-Feb-22 A	11-May-22	11-May-22		3.00														
4-4584	S3 - Ramp W5-W8 Backfilling upto GL	12	25-Dec-21 A	24-Feb-22 A	11-May-22	11-May-22		2.00														
4-4576	S3 - Box Section B1 Baddiling upto GL	23	29-Jan-22 A	24-Feb-22 A	11-May-22	11-May-22		2.00														
S3 - TTA Stage	2 (Box Section Bay 2 & 3)	74	25-Mar-22	27-Jun-22	12-May-22	08-Aug-22	35	9.00														
TTA Advance			25-Mar-22	28-Apr-22	12-May-22	11-Jun-22	35	0.00														
4-4586	TTA - Implement TTA Stage 2		25-Mar-22	20101-22	12-May-22	AT-MILES	35	0.00														
4-4588	TTA - TTA Stage 2 Trial Run	2	25-Mar-22	26-Mar-22	12-May-22	13-May-22	35	0.00														
4-4590	TTA - Trial Pits / Site investigation	6	28-Mar-22	02-Apr-22	14-May-22	20-May-22	35	0.00					-									
4-4592	TTA - Utilities diversion / protection	18	04-Apr-22	28-Apr-22	21-May-22	11-Jun-22	35	0.00						-	-	•						
ELS for Underp	pass	48	29-Apr-22	27-Jun-22	13-Jun-22	08-Aug-22	35	9.00														
4-4594	S3 - Mobilisation	- 4	29-Apr-22	04-May-22	13-Jun-22	16-Jun-22	35	0.00								—						
4-4596	S3 - Instal cofferdam	33	05-May-22	14-Jun-22	17-Jun-22	26-Jul-22	35	7.00										j				
4-4600	S3 - Exavation down to 0.5m below 1st waling & strut; install waling & strut	11	15-Jun-22	27-Jun-22	27-Jul-22	08-Aug-22	35	2.00														_
Sch 56 Retaini	ing Walls and At-grade Road Works		25-Aug-21 A	09-5ep-22	29-Mar-22	16-Dec/23	374	148.00														
Retaining Wall			25-Nov-21 A		29-Mar-22	16-Dec-23	414	130.00														
	6																					
RW-S1-a			11-Mar-22	24-Jun-22	07-Sep-23	16-Dec-23	439	14.00			l											
5A-5000	RW-S1-a - Excavation down to formation level +2.2/+6.0	7	11-Mar-22	18-Mar-22	07-Sep-23	14-Sep-23	439	1.00														
5A-5002	RW-S1-a - Plate Load Test and Report	14	19-Mar-22	04-Apr-22	15-Sep-23	03-0d-23	439	2.00			-	-	-									
5A-5004	RW-S1-a - Construct Base Slab (Bay 1)	7	06-Apr-22	13-Apr-22	04-0ct-23	11-0d-23	439	1.00														
5A-5006	RW-S1-a - Construct Base Slab (Bay 2)	12	14-Apr-22	30-Apr-22	13-Oct-23	27-0d-23	440	2.00						-	-	-						
5A-5008	RW-S1-a - Construct Wall (Bay 1)	13	14-Apr-22	03-May-22	12-Oct-23	27-0d-23	439	2.00						-		-						
5A-5010	RW-S1-a - Construct Wall (Bay 2)	15	04-May-22	21-May-22	28-Oct-23	14-Nov-23	439	2.00										_				
5A-5012	RW-S1-a - Fill upto formation level	28	23-May-22	24-Jun-22	15-Nov-23	16-Dec-23	439	4.00														_
RW-S1		103	25-Feb-22	04-3ul-22	03-May-22	09-Sep-22	58	14.00														
Retaining Wa			25-feb-22	04.3.4.33	01.00.00	00.5mm 33																
				0100122	00110122	0704722																
5A-5024	RW-S1 - Excavation down to formation level +2.9/+4.0		25-Feb-22	08-Mar-22	24-Aug-22	03-Sep-22	146	2.00														
54-5037	RW-S1 - Plate Load Test and Report (P2)	5	25-Feb-22	02-Mar-22	11-Aug-22	16-Aug-22	135	1.00														
54-5028	RW-S1 - Plate Load Test and Report (P1)	5	09-Mar-22	14-Mar-22	05-Sep-22	09-Sep-22	146	2.00		-												
54-5035	RW-S1 - Excavation down to formation level +2.8	24	03-May-22	31-May-22	03-May-22	31-May-22	0	2.00								-		-	-			
5A-5051	RW-S1 - Plate Load Test and Report (P3)	4	20-May-22	24-May-22	20-May-22	24-May-22	0	0.00										-	•			
54-5052	RW-S1 - Construct Base Slab (Bay 2/1)	14	25-May-22	10-Jun-22	25-May-22	10-Jun-22	0	2.00											-	-		
54-5048	RW-S1 - Construct Base Slab (Bay 3)	7	11-Jun-22	18-Jun-22	27-Jun-22	05-Jul-22	13	1.00														
SA-5056	RW-S1 - Construct Wall (Bay 2/1)	19	11-Jun-22	04-Jul-22	11-Jun-22	04-Jul-22	0	3.00														_
Current Miles	Central Ko	owloo							ev28 - CSD)	Baseline:	KTE-WP28_ E - 3 Months		ogramme		-	20 25	Nov-21 Nov-21	Submit CSD Monthly Pro		Rev 25	TW TW TW	DC DC
- Remaining V	Nok		Thr	ee Mon	th Rolli	ing Prog	gramr	ne			K filters: 3 M			Submission	L	25 24	-Deo-21 Jan-22	Monthly Pro Submit CSD	Programme R gramme M32 Programme R		TW TW TW	DX

	Activity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	February 34			March 35				April 36				May 37				38	
5A-5044	RW-S1 - Construct Base Slab (Bay 4)	7	20-Jun-22	27-Jun-22	23-Jul-22	30-Jul-22	28	1.00	30 06 13 20	2	7 06	13	20	27 0.	3 10	17	24	01	08	15	22	29	05	12 1	9 2
RW-S2		191	25-Nov-21 A	25-Jul-22	30-Apr-22	25-Nov-22	103	23.00																	
5A-5098C	RW-S2 - Replacement of formation for Bay 6 (PML-330)			07-Dec-21 A	26-Sep-22	26-Sep-22	100	2010																	
5A-5102	RW-S2 - Construct Base Slab (Bay 6)		14-Dec-21 A		26-Sep-22	26-Sep-22		1.00																	
SA-5104	RW-S2 - Construct Wall (Bay 7)		25-Feb-22	02-Mar-22	13-0d-22	18-Oct-22	186	1.00		1															
5A-5113	RW-S2 - Plate Load Test and Report (P2)	5	25-Feb-22	02-Mar-22	09-Jun-22	14-Jun-22	82	1.00		1															
5A-5108	RW-S2 - Construct Wall (Bay 6)	5	03-Mar-22	08-Mar-22	19-Oct-22	24-0d-22	186	1.00																	
5A-5103	RW-S2 - Excavation down to formation level +3.0 (at Bay 0)	12	07-Mar-22	19-Mar-22	30-Apr-22	16-May-22	43																		
5A-5105	RW-S2 - Plate Load Test and Report (P3)	4	21-Mar-22	24-Mar-22	17-May-22	20-May-22	43																		
SA-5424	RW-S2 - Construct Base Slab (Bay 0)	20	25-Mar-22	21-Apr-22	21-May-22	14-Jun-22	43	2.00					-	-	-	-	1								
SA-5426	RW-S2 - Construct Wall (Bay 0) (2 Lifts)	24	12-Apr-22	14-May-22	02-Jul-22	29-Jul-22	63	2.00							-	-	-	-	-						
5A-5114	RW-S2 - Construct Base Slab (Bay 2/1)	19	22-Apr-22	16-May-22	15-Jun-22	07-Jul-22	43	3.00									<u> </u>	+	-	÷.					
5A-5110	RW-S2 - Construct Base Slab (Bay 3)	7	17-May-22	24-May-22	17-Sep-22	24-Sep-22	103	1.00													-				
5A-5118	RW-S2 - Construct Wall (Bay 2/1)	19	17-May-22	08-Jun-22	08-Jul-22	29-Jul-22	43	3.00												-			-		
5A-5106	RW-S2 - Construct Base Slab (Bay 5/4)	14	25-May-22	10-Jun-22	26-Sep-22	13-0d-22	103	2.00															_		
5A-5116	RW-S2 - Construct Wall (Bay 3)	9	25-May-22	04-Jun-22	14-0d-22	24-0d-22	117	1.00														-			
5A-5120A	RW-S2 - Fill up to formation level (SPT) for temp haul road to 8A from KCR	18	09-Jun-22	29-Jun-22	30-Jul-22	19-Aug-22	43																_	_	_
5A-5112	RW-S2 - Construct Wall (Bay 5/4)	9	11-Jun-22	21-Jun-22	14-0ct-22	24-0d-22	103	1.00															-		
5A-5120	RW-S2 - Fill up to formation level (SPT)		22-Jun-22	25-Jul-22	25-0d-22	25-Nov-22	103	4.00		+															
RW-S4			25-Nov-21 A		08-Apr-22	17-Jan-23	170	9.00																	
5A-5158A	RW-54 - Construct Wall (Bay 2) ind. TCSS duct;		25-Nov-21 A		05-Dec-22	05-Dec-22	110	1.00																	
5A-5137B								1.00																	
	RW-54 - Replacement of Existing Soil with Rock Fill and Sub-base (Bay 6) (PMI-000)		06-Dec-21 A		20-Apr-22	20-Apr-22	-																		
5A-5150A	RW-54 - Construct Wall (Bay 4) ind. TCSS duct			03-Jan-22 A	08-Apr-22	08-Apr-22																			
SA-5146	RW-S4 - Construct Base Slab (Bay 6);		20-Dec-21 A		20-Apr-22	20-Apr-22		2.00																	
5A-5146A	RW-S4 - Construct Wall (Bay 6) ind. TCSS duct		03-Jan-22 A	28-Jan-22 A	20-Apr-22	20-Apr-22																			
5A-5168	RW-S4 - Fill up to formation level	47	04-Jan-22 A	05-Mar-22	08-Apr-22	20-Apr-22	35	4.00			-														
5A-5162	RW-S4 - Construct Base Slab (Bay 1)	14	14-May-22	30-May-22	05-Dec-22	20-Dec-22	170	1.00												_		•			
5A-5162A	RW-S4 - Construct Wall (Bay 1) ind. TCSS duct	21	31-May-22	24-Jun-22	21-Dec-22	17-Jan-23	170	1.00		1												-			
RW-S7-a		54	22-Apr-22	27-Jun-22	21-0d-22	28-Feb-23	198	9.00																	
SA-5190	RW-S7-a - Plate Load Test and Report	14	22-Apr-22	10-May-22	21-Oct-22	05-Nov-22	149	2.00									-	+	-						
5A-5192	RW-S7-a - Construct Base Slab (RW-S7-a1)	14	11-May-22	26-May-22	07-Nov-22	22-Nov-22	149	2.00												1	-				
5A-5196	RW-S7-a - Construct Wall (RW-S7-a1)	9	27-May-22	07-Jun-22	05-Dec-22	14-Dec-22	159	1.00																	
5A-5416	RW-57-a - Construct Base Slab (RW-57-a2)	12	27-May-22	10-Jun-22	30-Jan-23	11-Feb-23	198	2.00													-	-			
5A-5418	RW-57-a - Construct Wall (RW-57-a2)	14	11-Jun-22	27-Jun-22	13-Feb-23	28-Feb-23	198	2.00		-													-		-
RW-S7		82	01-Apr-22	14-Jul-22	13-Sep-22	19-Jan-23	156	12.00																	
5A-5188	RW-S7 - Excavation down to formation level +3.5/+4.1	7	01-Apr-22	09-Apr-22	13-Sep-22	20-Sep-22	132	1.00						4	-										
5A-5191	RW-S7 - Plate Load Test and Report	14	11-May-22	26-May-22	07-Nov-22	22-Nov-22	149	2.00												1.					
5A-5194	RW-S7 - Construct Base Slab (Bay 1)		27-May-22	04-Jun-22	23-Nov-22	30-Nov-22	149	1.00																	
										1		1				1	1		1	i.			1	1	1
Current Mik									C . 62 . 22.		Project ID:	KTE-WP2	8_M34						Date 3d-21		vogramme M			Check ThY	ed Ag
Actual Work Critical Rem Remaining	wining Work	owloc				t (Monti ing Prog			(Rev28 - CSD)		Baseline: Layout: KTI Filter: TASH					mission.		254 24-0 25-0	kov-21 kov-21 koo-21 koo-21	Monthly P Submit C Monthly P	SD Program Yogramme M SD Program Yogramme M	V31 me Rev 26 V32		TW TW TW TW	DC DC DC DC
											Page 11 of	17						24-J	an-22 eh-22	Submit C	SD Program		att. M34 Ma	THY	

10	Activity Name	Orig	Dur Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day)	February 34		March 35	A4	ni S		May 37		June 38	_
5A-5198	RW-S7 - Construct Base Slab (Bay 2/3)		14 06-Jun-22	21-Jun-22	01-Dec-22	16-Dec-22	149	2.00	3 30 06 13 20	27 06	13 20 27	03 10	17 24	01 08	15 22	29 05	12 19	-
5A-5200	RW-S7 - Construct Wall (Bay 1)		9 08-Jun-22	17-Jun-22	15-Dec-22	24-Dec-22	159	1.00								_		
5A-5202	RW-57 - Construct Base Slab (Bay 4/5)		14 22-Jun-22	08-Jul-22	17-Dec-22	05-Jan-23	149	2.00										-
5A-5204	RW-S7 - Construct Wall (Bay 2/3)		19 22-Jun-22		28-Dec-22	19-Jan-23	156	3.00										
RW-57/58			83 11-Apr-22	23-34-22	13-Oct-22	01-Apr-23	204	13.00										
5A-5218	RW-57/58 - Excavation down to formation level +3.8/+	10	7 11-Apr-22		13-Oct-22	20-0d-22	149	1.00										
		3.9										-						
5A-5220	RW-57/S8 - Plate Load Test and Report		14 22-Apr-22		24-Dec-22	12-Jan-23	204	2.00										
5A-5222	RW-S7/S8 - Construct Base Slab (Bay 1)		7 11-May-22		13-Jan-23	20-Jan-23	204	1.00										
5A-5224	RW-S7/S8 - Construct Base Slab (Bay 2)		7 19-May-22	26-May-22	31-Jan-23	07-Feb-23	206	1.00							-			
5A/5226	RW-57/S8 - Construct Wall (Bay 1)		9 19-May-22	28-May-22	21-Jan-23	07-Feb-23	204	1.00										
5A-5228	RW-S7/S8 - Construct Base Slab (Bay 3)		7 27-May-22	04-Jun-22	10-Feb-23	17-Feb-23	208	1.00										
5A-5230	RW-S7/S8 - Construct Wall (Bay 2)		9 30-May-22	09-Jun-22	08-Feb-23	17-Feb-23	204	1.00										
5A-5232	RW-S7/S8 - Construct Wall (Bay 3)		9 10-Jun-22	20-Jun-22	18-Feb-23	28-Feb-23	204	1.00										
5A-5234	RW-S7/S8 - Fill upto formation level		28 21-Jun-22	23-Jul-22	01-Mar-23	01-Apr-23	204	4.00									-	÷
RW-S8-a			62 28-Apr-22	13-34/-22	07-Oct-22	13-Jan-23	152	9.00										
5A-5260	RW-S8-a - Plate Load Test and Report		14 28-Apr-22	16-May-22	07-Oct-22	22-Od-22	132	2.00										
5A-5262	RW-58-a - Construct Base Slab (RW-58-a1)		14 17-May-22	01-Jun-22	24-Oct-22	08-Nov-22	132	2.00										
5A-5264	RW-S8-a - Construct Wall (RW-S8-a1)		9 02-Jun-22	13-Jun-22	12-Nov-22	22-Nov-22	135	1.00									-	
5A-5420	RW-S8-a - Construct Base Slab (RW-S8-a2)		20 02-Jun-22	25-Jun-22	02-Dec-22	24-Dec-22	152	2.00										_
5A-5422	RW-58-a - Construct Wall (RW-58-a2) (2 Lifts)		24 15-Jun-22		14-Dec 22	13-Jan-23	152	2.00										
RW-S8	un an a constant the fun an est (a proj		61 11-Apr-22	27-km-22	21-5ep-22	02-Dec-22	132	7.00										
												_						
5A-5258	RW-S8 - Excavation down to formation level +2.6/+4.1		12 11-Apr-22		21-Sep-22	06-Od-22	132	1.00										
5A/5261	RW-S8 - Plate Load Test and Report		14 17-May-22		24-Oct-22	08-Nov-22	132	2.00										
5A-5266	RW-S8 - Construct Base Slab (Bay 1)		7 02-Jun-22	10-Jun-22	09-Nov-22	16-Nov-22	132	1.00										
5A-5268	RW-S8 - Construct Base Slab (Bay 2/3)		14 11-Jun-22	27-Jun-22	17-Nov-22	02-Dec-22	132	2.00										
5A-5270	RW-S8 - Construct Wall (Bay 1)		9 14-Jun-22	23-Jun-22	23-Nov-22	02-Dec-22	135	1.00										1
RW-59			110 25-Jan-22	A 16-Jun-22	29-Mar-22	16-Jun-22	0	20.00										
Stage 1			110 25-Jan-22	A 16-Jun-22	29-Mar-22	16-Jun-22		20.00										
5A-5302	RW-59 - Construct Base Slab (Bay 4)		9 25-Jan-22	A 10-Feb-22 A	29-Mar-22	29-Mar-22		2.00										
5A-5318	RW-59 - Fill upto formation level		28 11-Feb-22	A 05-Mar-22	23-Apr-22	03-May-22	45	4.00										
5A-5306	RW-S9 - Construct Base Slab (Bay 3)		9 11-Feb-22	A 12-Mar-22	29-Mar-22	14-Apr-22	27	2.00										
5A-5304	RW-S9 - Construct Wall (Bay 4)		14 25-Feb-22	12-Mar-22	29-Mar-22	14-Apr-22	27	2.00										
5A-5308	RW-59 - Construct Base Slab (Bay 2)		11 14-Mar-22	25-Mar-22	23-Apr-22	06-May-22	31	2.00										
5A-5310	RW-S9 - Construct Wall (Bay 3)		15 14-Mar-22	30-Mar-22	19-Apr-22	06-May-22	27	2.00										
SA-5314	RW-S9 - Construct Wall (Bay 2)		16 31-Mar-22		07-May-22	26-May-22	27	2.00										
5A-5312	RW-59 - Construct Base Slab (Bay 1)		10 314a-22		14-May-22	26-May-22		2.00										
5A-5312 5A-5316							0	2.00										
	RW-S9 - Construct Wall (Bay 1)		17 27-May-22		27-May-22	16-Jun-22	0											
Road Works			307 25-Aug-21	A 09-Sep-22	08-Apr-22	16-Dec-22	81	18.00										1
Current Mite	estore									Project ID: KTI	E.WD28 M34			Date		Revision	Checked	
Actual Work	k	Central Kowl	oon Rou	te - Kai	Tak Eas	st (Mont	h 34 l	Update) (Rev28 - CSD)	Baseline:				25-Od-21 20-Nov-21	Monthly Programm Submit CSD Programm	amme Rev 25	TWY	DX DX
Ottical Rem Remaining	walning Work Work					ing Prog					3 Months Rolling Pro ters: 3 Months Rolling		sion	25Nov-21 24-Dec-21	Monthly Programm Submit CSD Progr	amme Rev 26	TYY	DC
										Pitter: LASK fil	ters: 3 Months Kollin	g_1, KTE - Submit	aiun.	25-Deo-21 24-Jan-22	Monthly Programm Submit CSD Progra		THY	DX DX
										Page 12 of 17				25Feb-22	Submit CSD Progr	amme Rev 28 with M34	Mo TW	-1

5A5523 5A5523A 5A5523B At-grade Slip Ro 5A5510A	KHED - Tamp relocate existing Traffic Garry (MB) Kin23B KHEd - Tamp relocate existing Traffic Garry (EB) Fuck Road for KFR TTA Stage 1, 1, 1, 2, 8, 1,3 URR(Prestage for 1,1) - Road Pavement for KIR TTA Stage 1.1 (exic) badding), KFR(Prestage for 1,2) - Road works for contra flow socion KFR(Prestage for 1,2) - Road works for contra flow socion KFR(Prestage for 1,3) - Leveling of existing road	2 14 43 24 14 6		04-3ul-22 26-Feb-22 04-3ul-22 26-Feb-22 25-3an-22 A 16-Feb-22 A	10-May-22 10-May-22 28-Jul-22 10-May-22 10-May-22	12-Aug-22 11-May-22 12-Aug-22 11-May-22	Float 34 57 34	4.00	3 30 06 13 20	27 06	13 20	27 03	10	7 24	01 08	15	22 29	05	12 19	26
5A-5502 SA-5503 Pre-stage at Kall SA-5523 SA-5523A SA-5523B At-grade Slip Ro SA-5510A SA-5510	KFRD - Tomp rebotile existing Traffic Garthy (VMB) Kin23B KFRd - Tomp rebotile existing Traffic Garthy (EB) Fuk Road for KFR TTA Stage 1, 1, 1, 2 & 1.3 KFR(metage for 1.1) - Road Pavement for K/R TTA Stage 1.1 (inclusive) KFR(metage for 1.2) - Road works for centra flow sotion KFR(metage for 1.2) - Road works for centra flow sotion KFR(metage for 1.3) - Lewing of existing road ad SOO4 BIM - S004 - Road and Dainage works / Utilities, / TCSS dud tiping (before	2 14 43 24 14 6	25Feb-22 17-Jun-22 28-Dec-21 A 28-Dec-21 A 25-Jan-22 A	26-Feb-22 04-Jul-22 26-Feb-22 25-Jan-22 A	10-May-22 28-Jul-22 10-May-22	11-May-22 12-Aug-22	57	2.00												
5A-5500 Pre-stage at Kai SA-5523 SA-5523A SA-5523B At-grade Slip Ro SA-5510A SA-5510	KFRd - Temp relocate existing Traffic Garty (EB) Fak Road for KFR TTA Stage 1, 1, 1, 2 & 1, 3 KFR(hestage for 1,1) - Road Pavement for K/R TTA Stage 1.1 (inclusiding) KFR(hestage for 1,2) - Road works for centra flow sotion KFR(hestage for 1,2) - Road works for centra flow sotion KFR(hestage for 1,3) - Lewing of existing road ad SOO4 BIM - S004 - Road and Dainage works / Utilities, / TCSS dud tiping (hoffere	14 43 24 14 6	17-Jun-22 28-Dec-21 A 28-Dec-21 A 25-Jan-22 A	04-Jul-22 26-Feb-22 25-Jan-22 A	28-Jul-22 10-May-22	12-Aug-22														
Pre-stage at Kai SA-5523 SA-55238 SA-55238 At-grade Slip Ro. SA-5510A	Fuk Road for KFR TTA Stage 1, 1, 1, 2 & 1.3 KPR/hestage for 1.1) - Road Pavement for KPR TTA Stage 1.1 (inclustading) KPR/hestage for 1.2) - Road works for centra flow sotion KPR/hestage for 1.3) - Leweing of existing road ad SOO4 BIM- SO04 - Road and Dainage works / Utilites / TCSS duct taying (hofere	43 24 14 6	28-Dec-21 A 28-Dec-21 A 25-Jan-22 A	26-Feb-22 25-Jan-22 A	10-May-22		34		• • • • • • • • • • • • • • • • • • •											
5A-5523 5A-5523A 5A-5523B At-grade Slip Ro 5A-5510A 5A-5510	NR(Phestage for 1.1) - Road Pavement, for KR TTA Stage 1.1 (inclusted)(mg) NR(Phestage for 1.2) - Road works for centre flow section NR(Phestage for 1.3) - Lewing of existing road ad SOO4 BIM - SOO4 - Road and Dainage works / Utilities, / TCSS duct taying (before	24 14 6	28-Dec-21 A 25-Jan-22 A	25-Jan-22 A		11-May-22		2.00											1	1
5A5523A 5A5523B At-grade Slip Ro 5A5510A 5A5510	(Inclusted)(Inc), KRR(Nestage for 1.2) - Read works for contra flow sotion KRR(Nestage for 1.3) - Leveing of existing and Ad \$5064 BIM-\$5004 - Read and Dainage works / Utilites / TCSS duct bying (before	14	25-Jan-22 A		10-May-22		57	6.00												
54-55238 At-grade Slip Ro 54-5510A 54-5510	VRR(Pre-stage for 1.2) - Road works for contra flow section VRR(Pre-stage for 1.3) - Leveling of existing road ad 5004 BIM - 5004 - Road and Dainage works / Utilities / TCSS duct taying (before	6		16-Feb-22 A		10-May-22		2.00												
At-grade Slip Ro 54-5510A 54-5510	ad S004 BIN - S004 - Road and Drainage works / Utilities / TCSS duct laying (before		17-Feb-22 A		10-May-22	10-May-22		2.00												
54-5510A 54-5510	BIM - S004 - Road and Drainage works / Utilities / TCSS duct laying (before	24	27 1 GD 22 11	26-Feb-22	10-May-22	11-May-22	57	2.00	_											
5A-5510	BIM - S004 - Road and Drainage works / Utilities / TCSS duct laying (before KFR TTA Stage 2)		25-Feb-22	24-Mar-22	08-Apr-22	11-May-22	35	4.00												
5A-5510	KFR TTA Stage 2)	18	25-Feb-22	17-Mar-22	08-Apr-22	03-May-22	35	2.00												
	S004 - Road Pavement for KFR TTA Stage 2		18-Mar-22	24-Mar-22	04-May-22	11-May-22	35	2.00												
At-grade Road K		-				,					IT									
			17-Jun-22	08-Jul-22	06-Jul-22	26-Jul-22	15	4.00												
SA-5565	KORd - Reinstate Kai Cheung Road U-turn (Bridge S2)		17-Jun-22	08-Jul-22	06-Jul-22	26-Jul-22	15	4.00												1
Kai Fuk Road (El	B) - Maintain 3 traffic lanes until CKR commissioning (PMI 253	307	25-Aug-21 A	09-5ep-22	28-Jun-22	16-Dec-22	81	0.00												
5A-5844	KFR(EB) - 3 lanes - Tree felling proposa; LCSD thetking and approval	180	25-Aug-21 A	06-Apr-22	26-Aug-22	07-Oct-22	148													
5A-5846	KFR(EB) - 3 lanes - Tree felling works; TTA required	24	07-Apr-22	10-May-22	08-Oct-22	04-Nov-22	148						-							
5A-5842	KFR(EB) - 3 lanes - UU diversion for CLP/Towngas/HKT/HGC/HKBN; set-back	72	17-Jun-22	09-Sep-22	28-Jun-22	21-Sep-22	9												_	<u> </u>
5A-5848	KFR(EB) - 3 lanes - existing planter removal works	36	17-Jun-22	29-Jul-22	05-Nov-22	16-Dec-22	117												_	+
CH 6B Re-cons	truction of Existing Box Culvert	30	25-Feb-22	31-Mar-22	08-Aug-22	10-Sep-22	132	0.00												
	onstruction Works	30	25-Feb-22	31-Mar-22	08-Aug-22	10-Sep-22	132	0.00												
BC- Reinstateme			25-Feb-22	31-Mar-22	08-Aug-22	10-Sep-22	132	0.00												
								0.00												
6B-5782	BC - Reinstate hard paving and related UU		25-Feb-22	10-Mar-22	08-Aug-22	20-Aug-22	132													
6B-5784	BC - Reinstate planter wall in DSD compound	12	11-Mar-22	24-Mar-22	22-Aug-22	03-Sep-22	132													
68-5786	BC - Transplant 5 nos of tree in DSD compound	3	11-Mar-22	14-Mar-22	01-Sep-22	03-Sep-22	141				-									
68-5788	BC - Reinstate fending in DSD compound	6	25-Mar-22	31-Mar-22	05-Sep-22	10-Sep-22	132													
68-5790	BC - Complete reconstruction of Box Culvert	0		31-Mar-22		10-Sep-22	132					•								
ection 4 - Esta	ablishment Works for Landscape Softworks under	365	01-May-21 A	30-Apr-22	01-Mar-22	04-May-22	4	0.00												
ch_8 Establishn	nent Works	365	01-May-21 A	30-Apr-22	01-Mar-22	04-May-22	4	0.00												
8-6128	54 - Establishment Works for Landscape Softworks under Section 3	365	01-May-21 A	30-Apr-22	01-Mar-22	04-May-22	4	0.00		Le anni de anni			daaraadaa							
8-6130	S4 - Completion of the Works in Section 4	0		30-Apr-22		04-May-22	4													
	Road S5 Works (Subject to Excision)		22.40x.22	22-Apr-22	27-Mar-23	27-Mar-23	724	0.00							1					
			22.422				224	0.00												
	inage and Road Works		22-Apr-22	22-Apr-22	27-Mar-23	27-Mar-23	274	0.00												
58-6200	SS - Notified by PM's to execute Section 5 of the Works (Slip Road S5)	0	22-Apr-22		27-Mar-23		274							•						
	ape Route for Slip Road S6 Works (Subject to Exc																			
ch_5C S6 - Drai	inage and Road Works	0	22-Apr-22	22-Apr-22	28-Dec-22	28-Dec-22	205	0.00												
SC-6300	S6 - Notified by PM's to execute Section 6 of the Works (Slip Road S6)	0	22-Apr-22		28-Dec-22		205							•						
ection 8 - Ven	tilation and E&M adit and Ring Road Underpass	388	25-Mar-21 A	22-Jul-22	22-Dec-21	23-Jun-22	-24	78.00												
ch_6A Ventilati	on and E&M Adit Works	335	25-Mar-21 A	19-May-22	22-Dec-21	23-Jun-22	29	12.00												
Area Part 1D1, 1		335	25-Mar-21 A	19-May-22	22-Dec-21	23-Jun-22	29	12.00												
											1	1	1	1		1 1		4	1	-
Current Mileston											KTE-WP28_M34				Date 25-Oct-21	Monthly Pro	Ravision gramme M30		Chedies	DC
Adual Work Otical Remaining	Central Ko	owloc				•			(Rev28 - CSD)	Baseline:	TE - 3 Months Roll	na Droaram			20-Nov-21 25-Nov-21	Submit CSD	Programme Rev	25	TWY	DC DC
Remaining Wor			Th	ree Mon	th Roll	ing Prog	gram	me			K filters: 3 Months Roll		- Submission		24-Deo21	Submit CSI	Programme Rev	/ 26	TWY	DC
										Page 13 c					25-Deo21 24-Jan-22 25-Feb-22		gramme M32) Programme Rev) Programme Rev		THY	DC DC DC

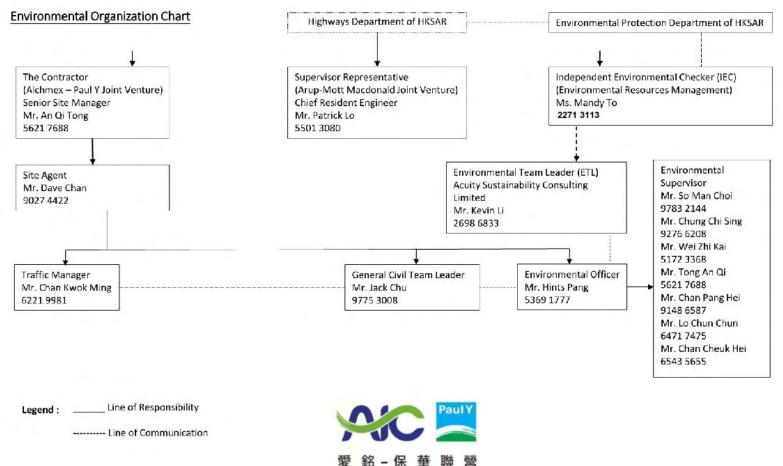
>	Activity Name	Orig Dur	Start	Finish	Late Stat	Late Finish	Float	TRA (Day)	34	1 12	35	38		37	38
VA - RC Struct	tures	118	15-Nov-21 A	21-Mar-22	28-Dec-21	21-Jan-22	-44	0.00	30 00 13 20	21	00 13 20	er us 10 1/ 2	01 0	10 22 29	V0 12 19
VA Sections -	Bay B5 (14.5m)		15-Nov-21 A	26-Feb-22	28-Dec-21	29-Dec-21		0.00							
6A-6571	VA-B5 - Baddilling to strik L3/L4/L5	50	15-Nov-21 A	26-Feb-22	28-Dec-21	29-Dec-21	-44								
VA Sections -	- Bay B6 (~14m)	50	15-Jan-22 A	21-Mar-22	28-Dec-21	21-Jan-22	-44	0.00							
6A-6577	VA-B6 - Baddfilling to strike L3/L4/L5	50	15-Jan-22 A	21-Mar-22	28-Dec-21	21-Jan-22	-44								
VA - Miscellan	eous	335	25-Mar-21 A	19-May-22	22-Dec-21	23-Jun-22	29	12.00							
VA - Stage 1			25.Mar.21 A	08.Mar.22	22-Dec 21	05.1ao.22	47	6.00							
64-6604	VA - Movement Joint / Waterproofing, Stage 1	22	25-Mar-21 A	01.40x-22	22-Dec-21	28-Dec-21	-47	2.00							
6A-6606	VA - Baddilling up to GL with additional concrete bik end wall, Stage 1		28-Dec-21 A		24-Dec-21	28-Dec-21	-47	4.00							
								4.00		1	<u></u>				
6A-6607	VA - Haul Road preparation & diversion, stage 1 (end May 2021)		02-Mar-22	08-Mar-22	29-Dec-21	05-Jan-22	-47								
6A-6608	VA - Movement Joint / Waterproofing, Stage 3	50	24-Jan-22 A	29-Mar-22	06-Jan-22	26-Jan-22	-47	2.00							
6A-6610	VA - Baddiling up to GL, Stage 3	56	09-Mar-22	19-May-22	06-Jan-22	18-Mar-22	-47	4.00						-	
6A-6612	Completion of Structure of vent. and E&M Adit within Parts 1B1, 1B2, 1D1, 1D3	0		19-May-22		23-Jun-22	29							•	
Sch_4.1 Ring F	Road Underpass	178	08-Dec-21 A	22-Jul-22	28-Dec-21	23-Jun-22	-24	66.00							
RR - Part 1D1,	, 1D2, 1D3, 1D4, 1B1 & 1B2	178	08-Dec-21 A	22-Jul-22	28-Dec-21	23-Jun-22	-24	66.00							
RR - ELS Work	ks	75	25-Dec-21 A	04-Apr-22	06-Jan-22	07-May-22	24	9.00							
RR - ELS Stag	je 5		25-Dec-21 A	04-Apr-22	06-Jan-22	07-May-22		9.00							
4-6732	RR - Excavation Down to 1st waling & Strut; Instal waling & Strut, 1818/182	17	25-Dec-21 A	03-Mar-22	06-Jan-22	12-Jan-22	-37	4.00							
4-6734	RR - Excavation Down to Final Formation Level, 1818/182		04-Mar-22	28-Mar-22	13-Jan-22	12-Feb-22	-37	4.00		-					
4-6736	RR - Excavation Down to Formation Level (Baddilling) (RR), 1818/182 (Open		29-Mar-22	04-Apr-22	30-Apr-22	07-May-22	24	1.00							
	ait) ions, Pump Sump & FS Plant Room		08-Dec-21 A	13-Jul-22	28-Dec-21	23-Jun-22	-16	37.00							
	(S011 CH0+134 to 0+146)	170	COLACETA	13-30722	200021	assumaa	-10	37.00							
4-6748	RR-R3 - Construct Top Slab	24	20100-22	25 mar22	20100-222	10110722		2.00							
			28-Feb-22	23-Mar-22	20-Apr-22	16-May-22	40	2.00							
4-6754	RR-R4 - Construct Top Slab	23	25-Feb-22	23-Mar-22	30-Mar-22	29-Apr-22	28	2.00							
4-6766	RR-RS - Construct Top Slab	23	25-Feb-22	23-Mar-22	30-Mar-22	29-Apr-22	28	2.00							
RR - Bay B6 ((S011 H0+180 to 0+193.3)		11-Mar-22	27-Hay-22	14-feb-22	29-Apr-22		7.60							
4-6768	RR-R6 - Construct Base slab	14	11-Mar-22	26-Mar-22	14-Feb-22	01-Mar-22	-22	3.00							
4-6770	RR-R6 - Construct External Wall	24	28-Mar-22	28-Apr-22	02-Mar-22	29-Mar-22	-22	2.00							
4-6772	RR-R6 - Construct Top Slab	23	29-Apr-22	27-May-22	30-Mar-22	29-Apr-22	-22	2.00					+		
RR - Bay B7 ((S011 CH0+193.3 to 0+211.6) (at-grade) (RU1)	160	08-Dec 21 A	30.Jun-22	28-Dec-21	23-Jun-22	-6	10.00							
4-6778	RR-RU1 - Construct: RC Walls (PS plantroom 1 & 2)	40	08-Dec-21 A	26-Jan-22 A	21-Apr-22	21-Apr-22		4.00							
4-6776	RR-RU1 - Construct Intermediate Slab, RC Walls & Slabs up to -0.825		25-Feb-22	06-Apr-22	28-Dec-21	12-Feb-22	-44	4.00							
4-6777	RR-RU1 - Construct. Plantroom Slabs up to -0.675 (FS plantroom 2)	15	07-Apr-22	27-Apr-22	30-Mar-22	20-Apr-22	-6								
4-6779	RR-RU1 - Construct. Top Slabs up to +3.375/+4.500 (PS plantroom 1 & 2)		28-Apr-22	16-Jun-22	21-Apr-22	09-Jun-22	-6								
4-6780	RR-RU1 - Construct Top Salos up to +3.373/+4.500 (75 paratoom 1 at 2) RR-RU1 - Construct RC Walls up to +7.300		17-Jun-22	30-Jun-22	10-Jun-22	23-Jun-22	-6	2.00							
46/80	RX+01 - CONSTRUE NO, WARS UP TO +7,300	12	17-301-22	30-30n-22	10-301-22	23-301-22	-0	2.00		1					
Current Mile	Central K	owloo	n Route	e - Kai '	Tak Eas	t (Monti	1 34 U	Indat	(Rev28 - CSD)		oject ID: KTE-WP28_M34 Iseline:		25-0d-21 20-Nov-21	Ravision Monthly Programme M30 Submit CSD Programme Rev 25	Chedied A Thy DC Thy DC
Critical Remaining V	aining Work					ing Prog				La	yout: KTE - 3 Months Rol	ing Programme s Rolling_1, KTE - Submission.	25-Nov-21 24-Deo-21 25-Deo-21 24-Jan-22	Monthly Programme M31 Submit CSD Programme Rev 26	TYY DC TYY DC TYY DC

<	Act	Svity Name	Orig Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	February 34		March 35			April 36			May 37			June 38	
• 10 · · · · · · · · · · · · · · · · · ·	y 88 (S011	CH0+211.6 to 0+225) (at-grade) (RU2)	61	074pr-22	23-Jun-22	14-Rtb-22	29-Apr-22	-44	4.00	06 13 20	27 0	26 13	20 27	0.3	10 17	24 01	08	15	22 29	05	12 1	9 3
	RR	R-RU2 - Construct Base slab	15	07-Apr-22	27-Apr-22	14-Feb-22	02-Mar-22	-44	2.00													
no. 1 1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 <	RR	R-RU2 - Construct Side Walls 1st pour	23	28-Apr-22	26-May-22	03-Mar-22	29-Mar-22	-44								-	-		- 11			
non-state	RR-	R-RU2 - Construct Side Walls 2nd pour	23	27-May-22	23-Jun-22	30-Mar-22	29-Apr-22	-44	2.00										-	_	_	
• Mail - Conduction · Mail	y B9 (S011)	CH0+225 to 0+239) (at-grade) (RU3)	53	28-Apr-22	02-3ul-22	09-Mar-22	16-May-22	-39	4.00													
• Res - Guada Smake Small · Res - Guada Smake Smake Smake Smake Smake Smake Smake<					27-May-22	09-Mar-22	06-Apr-22	-39	2.00								_		_			
end e	RR-	R-RU3 - Construct Side Walk 1st pour	9	28-May-22	08-Jun-22		20-Apr-22	-39														
Rest-Controlline Rest-Controlline <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>2.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Τ.</td><td></td><td></td></td<>									2.00											Τ.		
• Ref					2210722	2170122	10110922	- 37	2.00											1.7		1
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in 2 val 21 (val 20 val 257 th 0 v27.51) (val 4 val 20 (val 7 val 4 val																						
4496 (MAG) Contact bas ski (MAG)	A RR-	R-VA - Construct base slab	30	20-May-22	24-Jun-22	19-Mar-22	27-Apr-22	-47										-		-		-
Rescalation Mail Mail Status	γ B12 (S011	1 CH0+265.675 to 0+273.5) (at-grade) (RU5)	18	14-Jun-22	05-Jul-22	10-May-22	30-May-22	-29	2.00													
nit stage 1 not stage 1	RR	R-RU5 - Construct Base slab	18	14-Jun-22	05-Jul-22	10-May-22	30-May-22	-29	2.00												-	÷
4460 #1-4bernet just // Maternation, Sage 2 51 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9<	cellaneous	Works	70	28-Apr-22	22-Jul-22	21-Apr-22	14-Jun-22	-32	20.00													
4464 №-bodifing up to 2, Sope ² 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492 19.492	age 2 Miscel	Baneous Works		28-Apr-22	21-Jun-22	21-Apr-22	14-Jun-22		8.00													
Rit Sage 1 Same 2 Same 2 <td>RR</td> <td>R - Movement joint / Waterproofing, Stage 2</td> <td>32</td> <td>28-Apr-22</td> <td>07-Jun-22</td> <td>21-Apr-22</td> <td>30-May-22</td> <td>-6</td> <td>4.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>÷ 1</td> <td></td> <td></td>	RR	R - Movement joint / Waterproofing, Stage 2	32	28-Apr-22	07-Jun-22	21-Apr-22	30-May-22	-6	4.00							-	-			÷ 1		
4400 Ri-Hommstraft/Watepoolng.Soge4 2 84902 95.402 95.402 94.902 92 4.00 4400 Ri-Johdmitz op to 2. Soge4 2 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902 94.902	RR	R - Backfiling up to GL. Stage 2	32	14-May-22	21-Jun-22	06-May-22	14-Jun-22	-6	4.00											_		
4600 # - Hommarijari / Watnooring, Sage 4	age 4 Miscel	ellaneous Works	36	28-May-22	11-3/1-22	30-Apr-22	14-Jun-22	-22	8.00													
44600 Ri- daditing up G. Stope 4 0.4 0.4 0.14/42 0.14/42 0.4 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42 0.14/42<			24	28-May-22	25:Jun-22	30-Apr-22	30-May-22	-22	4.00											_		_
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4680 Ri-Hovement jart // Watepoording. Sage 5 2 24 Jun 2 23 Jul 22 30 Jul 22 30 Jul 22 40 40 ction 10 - Footbridge, E&M Installation and Miscellaneous W 70 13 Jun 24 09 Jul 22 09 Jul 22 <td< td=""><td></td><td></td><td></td><td></td><td>22.3.1.22</td><td></td><td>10.40+22</td><td></td><td>4.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>					22.3.1.22		10.40+22		4.00													
ctor 10 - Footbridge, E&H Installation and Miscellaneous We 7 13m 2A 04M2 14W2 04M2 0 40 dr, Z Jaandow KS-20 73 33m 2A 04M2 12Wey2 04M2 0 40 S-20 - Demolition / Filing Works 73 13m 2A 04M2 12Wey2 04M2 0 400 S-20 - Demolition / Filing Works 73 13m 2A 04M2 12Wey2 04M2 0 400 7732 K30-Greent Hite formation low (//Bite domino					22.54.22		20.14-, 22		4.00													_
A. J. Abandom Existing Subway KS-20 77 33.4m-24 04.9422 12.44m-22			- · ·			30-401-22		-11	4.00													1
S20 - Demolitism Filling Works 77 13.892.20 09.40422 17.4892.20 09.40422 09.4042 0.400 S20 - Chereal fil to formation lead / Ublies diversion / Laging indice subway 16 13.892.20 09.40422 12.4892.20 09.40422 12.4892.20 02.00 77332 S20 - Chereal fil to formation lead / Ublies diversion / Laging indice subway 16 13.892.20 02.402 12.4892.20 02.400 02.00 77332 S20 - Chereal fil to formation lead / Ublies diversion / Laging indice subway 16 13.892.20 02.402 12.4892.20 02.400 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000 2.000								0														
Cal Fuk Road (WB) 73 33.87.24 04.402 12.489/22 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422 04.3422								0														
7332 \$20 - General III to formation lead / Utilities duenion / Laging nicks dueni / Laging nicks duenion / Laging nicks dueni / Laging ni					04-Jul-22			0														
7734 \$\$20 = bidowsk will for \$\$20 ewsk will	Road (WB)		75	13-Jan-22 A	04-Jul-22	12-May-22	04-Jul-22	0	4.00													
Call Fuk Road (Central) 24 25 Marc2 26 Marc2 10 Marc2	KS	520 - General fill to formation level / Utilities diversion / Laying inside subway	16	13-Jan-22 A	27-Jan-22 A	12-May-22	12-May-22		2.00													
7335 \$\$20 - Trid therds for showay loss section 10 0 4/q-22 19 4/q-22 274/q-22 41 - 7735 \$\$20 - Trid therds for showay loss section 10 0 4/q-22 19 4/q-22 29 4/q-22 41 - 7737 \$\$20 - Trid therds for showay loss section 10 0 4/q-22 19 4/q-22 10 4/q-2 10 4/q-2	KS	520 - Bridkwork wall for Subway	14	17-Jun-22	04-Jul-22	17-Jun-22	04-Jul-22	0	2.00												-	-
77336 KS20 - Instal sheeple for subway box section 10 0 44yar2 10 54yar2	Road (Centr	tral)	24	25-Mar-22	26-Apr-22	19-May-22	16-Jun-22	41	0.00													
AS20 - Reindage road parement badies implament KPR TTA Stage 3 6 204 pr.22 26 Apr.22 16 Jun.22 17 Jun.22 16 Jun.22 16 Jun.22 16 Jun.22 16 Jun.22 16 Jun.22	KS	520 - Trial trench for sheetpile works	8	25-Mar-22	02-Apr-22	19-May-22	27-May-22	41						-								
Chick In 11 - Structure of Bridge CKRE 65 24-69-22 23-3un-22 15-5ep-22 70 16.00 A_3.10 Bridge CKRE Works 65 25-feb-22 23-3un-22 07-3un-22 15-5ep-22 70 16.00 KRE - Pling Works 24 25-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 24 25-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 24 25-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 26-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 26-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 26-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Pling Works - Per P-KS-CKRE 26-feb-22 24-48a-22 07-3un-22 05-6ap-22 107 0.00 Polipet ID: KTE-WP28,M34 Baseline: Baseline: 25-0a1 Math/Phogement Mon <t< td=""><td>KS</td><td>520 - Install sheetpile for subway box section</td><td>10</td><td>04-Apr-22</td><td>19-Apr-22</td><td>28-May-22</td><td>09-Jun-22</td><td>41</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	KS	520 - Install sheetpile for subway box section	10	04-Apr-22	19-Apr-22	28-May-22	09-Jun-22	41														
h_3.10 Bridge CKRE Works 95 2546-52 23.3u-22 07.3u-22 15.9u-22 10 10.0 KRE - Piling Works 24 25 Feb-22 24 Hus-22 07.3u-22 054u-922 107 0.00 0.00 Nilmy Works - Fier P-KS-CKRE 24 25 Feb-22 24 Hus-22 07.3u-22 054u-922 107 0.00 0.00 V Central Kowloon Route - Kai Tak East (Month 34 Update) (Rev28 - CSD) Project ID: KTE-WP28_M34 Baseline: Project ID: KTE-WP28_M34 Baseline: Data Provem	KS	520 - Reinstate road pavement before implement KFR TTA Stage 3	6	20-Apr-22	26-Apr-22	10-Jun-22	16-Jun-22	41														
h_3.10 Bridge CKRE Works 95 2546-52 23.3u-22 07.3u-22 15.9u-22 10 10.0 KRE - Piling Works 24 25 Feb-22 24 Hus-22 07.3u-22 054u-922 107 0.00 0.00 Nilmy Works - Fier P-KS-CKRE 24 25 Feb-22 24 Hus-22 07.3u-22 054u-922 107 0.00 0.00 V Central Kowloon Route - Kai Tak East (Month 34 Update) (Rev28 - CSD) Project ID: KTE-WP28_M34 Baseline: Project ID: KTE-WP28_M34 Baseline: Data Provem	11 - Struc	cture of Bridge CKRE	95	25-Feb-22	23-Jun-22	07-Jun-22	15-Sep-22	70	16.00													
KRE - Piling Works 24 25 Feb-22 24 Her/22 07 Jun-22 05 Her/22 107 0.00 Piling Works - Fier P-K5-CKRE 24 25 Feb-22 24 Her/22 13 Jun-22 05 Her/22 107 0.00 V Curret Medore 24 25 Feb-22 24 Her/22 13 Jun-22 05 Her/22 107 0.00 Project ID: KTE-WP28_M34 Project ID: KTE-WP28_M34 Central Kowloon Route - Kai Tak East (Month 34 Update) (Rev28 - CSD) Project ID: KTE-WP28_M34 250-82 Month/Hogenere No.0			95	25-Feb-22	23-Jun-22	07-Jun-22	15-Sep-22	70	16.00													
Ving Works - Pier P-KS-CKRE 24 25 Feb: 22 24 Hur 22 13 Jun 22 05 Aug 22 107 0.00 • Carrert Medore • Central Kowloon Route - Kai Tak East (Month 34 Update) (Rev28 - CSD) Project ID: KTE-WP28_M34 Baseline: • Date • Provem			24	25-Feb-22	24-Mar-22	07-Jun-22	05-Aug-22	107	0.00													
Central Kowloon Route - Kai Tak East (Month 34 Update) (Rev28 - CSD) Projet ID: KTE-WP28_M34 ZO40																						
Clikal Remaining Visik Clikal Remaining Visik Layout: KTE - 3 Months Rolling Programme Layout: KTE - 3 Months Rolling Programme Security Visik Layout: KTE - 3 Months Rolling Programme Security Visik Layout: KTE - 3 Months Rolling Programme Security Visik Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling 1, KTE - Submission.	rent Miestone uai Work ical Romaining W	Central Ko		on Rout	e - Kai 1	Гаk Eas	t (Mont	h 34 L	Jpdate	v28 - CSD)	Baseline Layout:	e: KTE - 3 Mont	hs Rolling Pri		Submission.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5-Od-21 0-Nov-21 5-Nov-21 9-Deo-21 5-Deo-21	Submit CSD Monthly Prog Submit CSD Monthly Prog	gramme M30 Programme Re gramme M31 Programme Re gramme M32	iev 25 iev 26	Ched TYY TYY TYY TYY TYY	ipd

	Activity Name	Orig Dur	Start	Finish	Late Stat	Late Finish	Total Float	TRA (Day)	34		35 35		April 36			37	_	38		
3.10-7510	OKRE - KS-OKRE-1 Proof drilling & Piles testing	24	25-Feb-22	24-Mar-22	13-Jun-22	11-Jul-22	85	0.00	30 06 13 20	27	06 13 20	27 03	10 17	24 0	1 08	15 2	2 29	05 12	19	2
3.10-7518	OKRE - KS-OKRE-2 Proof drilling & Piles testing	24	25-Feb-22	24-Mar-22	09-Jul-22	05-Aug-22	107	0.00			_									
Piling Works -	ABUT A-K4-CKRE	17	25-Feb-22	16-Mar-22	07-Jun-22	25-Jun-22	80	0.00												
3.10-7526	ORE - ABUT A-K4-ORE Proof drilling & Piles testing	17	25-Feb-22	16-Mar-22	07-Jun-22	25-Jun-22	80	0.00												
CKRE - Pile Car	os, Pier / Abutment	95	25-Feb-22	23-Jun-22	27-Jun-22	15-Sep-22	70	16.00												
Abutment A-K		29	25-Feb-22	30-Mar-22	05-Aug-22	10-Sep-22	133	4.00												
3.10-7536	OKRE - Construct Abutment A-K1-OKRE		25-Feb-22	19-Mar-22	05-Aug-22	27-Aug-22	130	4.00												
3.10-7538	ORE - A-K1-ORE Install Permeate Membrane and Baddill		21-Mar-22	30-Mar-22	01-Sep-22	10-Sep-22	133	0.00			_									
Pier K5-CKRE-		47	27-Apr-22	23-Jun-22	12-3ul-22	03-Sep-22	61	4.00												
3.10-7540	OCRE - Prepare Pile Head for KS-OCRE-1		27-Apr-22	26-May-22	12-3ul-22	08-Aug-22	61	1.00												
3.10-7544	ORE - KS-ORE-1 Reinstatement of Slab of Kai Tak River; remaining works		27-May-22	01-Jun-22	09-Aug-22	13-440-22	61	1.00												
	3.01 10 HINKARS C 19941 1 310 (ALLIPE + 10).																			
3.10-7542	ORE - Construct Pier KS-ORE-1 (2 Lifts)		02-Jun-22	23-Jun-22	15-Aug-22	03-Sep-22	61	2.00											1	
Pier K5-CKRE-			27-Apr-22	23-Jun-22	12-Jul-22	03-Sep-22	61	4.00						-						
3.10-7552	CKRE - Prepare Pile Head for KS-CKRE-2		27-Apr-22	26-May-22	12-Jul-22	08-Aug-22	61	1.00									•			
3.10-7556	OKRE - KS-OKRE-2 Reinstatement of Slab of Kal Tak River; remaining works	5	27-May-22	01-Jun-22	09-Aug-22	13-Aug-22	61	1.00									-			
3.10-7554	ORE - Construct Pier KS-ORE-2 (2 Lifts)	18	02-Jun-22	23-Jun-22	15-Aug-22	03-Sep-22	61	2.00												
Abutment A-K-	4-CKRE	68	17-Mar-22	11-Jun-22	27-Jun-22	15-Sep-22	80	4.00												
3.10-7568	ORE - Prepare pile head (4ns) AK4-ORE	20	17-Mar-22	09-Apr-22	27-Jun-22	20-Jul-22	80	0.00			-		•							
3.10-7570	OKRE - Construct Abutment Base A-K4-OKRE	17	11-Apr-22	04-May-22	21-Jul-22	09-Aug-22	80	1.00							1					
3.10-7572	ORE - Construct Abutment A-K4-ORE	22	05-May-22	31-May-22	10-Aug-22	03-Sep-22	80	3.00							-	_	-			
3.10-7574	ORE - A-K4-ORE Install Permeate Membrane and Baddill	9	01-Jun-22	11-Jun-22	05-Sep-22	15-Sep-22	80	0.00										_		
	Inderpass S21 xxd Underpass S21		25-00-21 A 25-00-21 A	19-Apr-22 19-Apr-22	08-Aug-22 08-Aug-22	31-Dec-22 31-Dec-22	211 211	18.00												
521 - RC Struc			25-Feb-22	10-Mar-22	16-Dec-22	31-Dec-22	241	2.00												
	h Sections - South (CH000 to CH143.981)		25-Feb-22	10-Mar-22	16-Dec-22	31-Dec-22	241	0.00												
-	-10 - At-Grade Slab (CH009.376 to 000)		25-6-0-22	10.45-12	IV DOCT	JI Occili	241	0.00												
	S21-82-10 - Construct At Grade slab			10-0109-22	10-040-22	31-046-22	291	0.00			_									
4-7812			25-Feb-22	10-Mar-22	16-Dec-22	31-Dec-22	241	0.00												
	h Sections - North (CH205.700 to CH354.957)		25-Feb-22	10-Mar-22	16-Dec-22	31-Dec-22	241	2.00												
	9 - At Grade Slab Part 3E (CH321.11 to 354.957) Part 3E																			
4-7868	S21-B3-9 - Construct At Grade slab	12	25-Feb-22	10-Mar-22	16-Dec-22	31-Dec-22	241	2.00			-									
521 - Miscellar	neous Works	139	25-0d-21 A	19-Apr-22	08-Aug-22	26-Sep-22	132	16.00												
S21 - Waterpro	oofing and Backfilling Works	139	25-0d-21 A	19-Apr-22	08-Aug-22	26-Sep-22	132	16.00												
S21 - Box Sec	tions (CH143.981 to CH205.700)		25-06-21 A	08-Apr-22	08-Aug-22	26-Sep-22		12.00												
4-7870	S21 - Waterproofing / Movement Joint / Masonry Wall (Box Section)	48	25-Oct-21 A	31-Mar-22	08-Aug-22	10-Sep-22	132	6.00												
4-7872	S21 - Baddfiling up to GL. (Box Section)	48	01-Nov-21 A	08-Apr-22	26-Sep-22	26-Sep-22	138	6.00	_				•							
S21 - U-Troug	h Sections - North (CH205.700 to CH321.110)	36	01-Nov-21 A	31-Mar-22	15-Aug-22	19-Sep-22	138	4.00												
4-7946	S21 - Wateproofing / Movement Joint / Masonry Wall (U-Trough Section -	36	01-Nov-21 A	31-Mar-22	15-Aug-22	19-Sep-22	138	4.00				-								
S21 - Final Co	North) mpletion Works	12	01-Apr-22	19-Apr-22	13-Sep-22	26-Sep-22	132	0.00												
															Dute		Revision		Chedied	A
Current Miles		owloa	n Pout	. Kai '	Tak Eac	t (Mont	341	Indat	(Rev28 - CSD)	Project Basel	t ID: KTE-WP28_M3	4			25-Od-21	Monthly Program			TYY I	DC
Critical Rema	ining Work	0.000				ng Proc			(10020 - 030)	Layou	t KTE - 3 Months Ro				25-Nov-21	Monthly Program	mme NG1		DYY I	DC
Remaining W	Nork		in	ee won	AT ROLL	ing Prog	rann	e			TASK filters: 3 Month		- Submission.			Monthly Program	ogramme Rev 26 mme M32		DYY I	DC
															24-Jan-22		ogramme Rev 27		DY I	DC

4-7814 4-7816		Orig Dur	Stat	Finish	Late Stat	Late Finish	Total	TRA (Day	February		March	_	A	el .			May			June		39
	S21 - Final Completion Works	12	01.4mm 22	10.404.33	13-Sep-22	26-Sep-22	Float 132	0.00		27 06	13 20	27	03 10	17 3	14 01	1 08	15	22 3	29 05	12	19	26 03
4-/816			01-Apr-22	19-Apr-22	15-540-22								-	Τ. Ι.								
	S21 - Completion of Structure of Underpass S21	0		19-Apr-22		26-Sep-22	132	0.00														
	- Sleeve pipes for District Cooling System (Subject to		20-0ec-21 A	23-Apr-22																		
	eve pipes for DCS (Kai Tak River West)		25-Feb-22	02-Mar-22	01-Mar-22	05-Mar-22	3	3.00														
	Section A (39m)	5	25-Feb-22	02-Mar-22	01-Mar-22	05-Mar-22	3	3.00														
10-8478	DCS(W)_A - Reinstatement (Pavement / fending / etc.)	5	25-Feb-22	02-Mar-22	01-Mar-22	05-Mar-22	3	3.00	-	-												
Sch_10 Sle	eve pipes for DCS (Kai Tak River East)	90	20-Dec-21 A	23-Apr-22	22-Feb-22	10-Oct-22	138	22.00														
DCS-East P	Portion 1 (approx 37.5m)	90	20-Dec-21 A	23-Apr-22	22-Feb-22	10-Oct-22	138	8.00														
10-8522	DCS(E) - Install sleeve pipes 3x1800 ID (L=37.5m)	24	20-Dec-21 A	15-Jan-22 A	22-Feb-22	22-Feb-22		6.00														
10-8524	DCS(E) - Baddfiling works for DCS pipes	12	17-Jan-22 A	08-Mar-22	22-Feb-22	04-Mar-22	-3	2.00		-												
10-8524A	DCS(E) - Baddfiling works in DCS area (up to G.L.)	36	09-Mar-22	23-Apr-22	26-Aug-22	10-Oct-22	138			-												
DCS-East F	Portion 2 (approx 37.5m)	78	28-Dec-21 A	06-Apr-22	26-Feb-22	10-Oct-22	150	14.00														
10-8534	DCS(E) - Install sleeve pipes 3x1800 ID (L=37.5m)	19	28-Dec-21 A	31-Jan-22 A	26-Feb-22	26-Feb-22		6.00	_													
10-8536	DCS(E) - Baddfiling works for DCS pipes	12	28-Dec-21 A	03-Mar-22	26-Feb-22	04-Mar-22	1	2.00		-												
10-8536A	DCS(E) - Baddfiling works in DCS area (up to G.L.)	28	04-Mar-22	06-Apr-22	05-Sep-22	10-Oct-22	150						-									
10-8508	DCS(W)_C - Final completion works	5	09-Mar-22	14-Mar-22	05-Mar-22	10-Mar-22	-3	6.00														
10-8510	DCS(W)_C - Completion of Sleeve pipes for DCS (Section 17)	0		14-Mar-22		10-Mar-22	-3															

Appendix C Project Organization Chart



Alchmex - Paul Y Joint Venture

Appendix D Dust Event-Action Plan (EAP)

	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
ACTION LEV	EL			
1.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.	 Rectify any unacceptable practice; Amend working methods if appropriate.
2.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 LEVEL			1	
1.Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and 	 Check monitoring data submitted by ET; Check Contractor's working method; 	 Confirm receipt of notification of failure in writing; Notify Contractor; 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC

EVENT	ACTION			
EVENT	ET	IEC	ER	CONTRACTOR
	 EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	3. Ensure remedial measures properly implemented.	 within 3 working days of notification; Implement the agreed proposals; 4. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	 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. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Note:

ET – Environmental Team

ER – Engineer's Representative

IEC – Independent Environmental Checker

Appendix E Noise Event-Action Plan (EAP)

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

Note:

ET – Environmental Team

IEC -- Independent Environmental Checker

ER – Engineer's Representative

Appendix F Environmental Mitigation Implementation Schedule (EMIS)

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
			Constru	ction Dust Impact				
\$4.3.10	D1	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	 APCO To control the dust impact To meet HKAQO and TM-EIA criteria 	Implemented
\$4.3.10	D2	 Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/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 	Implemented
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 	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

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

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N1	 Implement the following good site practices: Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs; Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities. 	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	Implemented
\$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	Sreen the noisy plant items to be used at all construction	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
		plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	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
S6.9.1.1	W1	 In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following: Construction Runoff At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under 	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	• Implemented

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		 of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes; All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing 						

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

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

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

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

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
		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 Manage	ement (Construction	Waste)			
\$7.4.1	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 	batching plants and be turned into concrete for	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
		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.						
\$7.5.1	WM2	 <u>Construction and Demolition Material</u> Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling 	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 	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
		 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. 	disposal					
S7.5.1	WM3	 <u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage; 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 	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	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						
\$7.5.1	WM4	 <u>Excavated Contaminated Soils</u> 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	РВН4	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
\$7.5.1	WM5	 Land-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location; All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the sea except at the 	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
		 approved locations; Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action. The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers; The Contractors shall comply with the conditions in the dumping licence. All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material; The material shall be placed into the disposal pit by bottom dumping; Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site; Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site. For Type 3 special disposal treatment, sealing of 						

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
		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.						
\$7.5.1	WM6	 <u>Chemical Waste</u> <u>Chemical waste</u> that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes; Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation; The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	• Implemented

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	WM7	 capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated; Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD. 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; Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant 	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	• Implemented

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
		collection. Participation in a local collection scheme should be considered by the Contractor.						
			Land Contamir	nation			•	
S8.9 & Appendix 8.4		 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	РВН4	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:					Remediation Goals (RBRGs) for Contaminated Land Management	• N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures			Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
Appendix 8.4		Park), no If the analysis noncompliand excavation sl vertically an location(s) of acceptance of conducted for excavation, sampling and all contamina supervised by A Remediation clean-up sha endorsemen	further excavation was indicates presence ce of the acceptation was indicates presence ce of the acceptation of the acceptation of the carried out ad/or horizontally of the sample(s) which criteria. Further satisfies or compliance testing ated materials are re- y a Land Contamination Report (RR) to co all be prepared and on the prior to the co	of contamination (i.e. ince criteria), further it in 0.5m increment depending on the ich has exceeded the impling shall also be ting. The process of should continue until emoved and should be tion Specialist. demonstrate adequate submitted to EPD for mmencement of any						• N/A
	construction/development works within the sites. No construction/development works shall be carried out prior to the endorsement of the RR by EPD.					Hazard to Life				

Contract No. HY/2018/02 Environmental Monitoring & Auditing

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
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
S9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
			Land	dscape & 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

Contract No. HY/2018/02 Environmental Monitoring & Auditing

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
S10.10.1 Table 10.11	LV5	 Lighting Control during Construction 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
\$10.10.1 Table 10.11	LV7	<u>Tree Protection & Preservation</u> • Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	 'Guidelines for Tree Risk Management and Assessment Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB Latest recommended horticultural practices from 	• 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
							GLTM Section, DEVB	
S10.10.1 Table 10.11	LV8	 Tree Transplantation For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006. 	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	 ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004 	• N/A
S10.10.1 Table 10.11	LV9	Compensatory Planting • For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction stage	 ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB 	• N/A

Contract No. HY/2018/02 Environmental Monitoring & Auditing

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
		 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. 					• ETWB TCW 2/2004	
\$10.10.1 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	LV12	Reinstatement • All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government	Minimize landscape impact	Contractor	Within Project Site	Construction Phase	• N/A	• N/A

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

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
		departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)						
		·	Cultural Heritage	Impact (Construct	on Phase)			
S11.4.4	CH1	The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	Construction stage	AMOs requirements	Implemented
				EM&A Project				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	EIAO Guidance Note No. 4/2010 TM-EIAO	Implemented
S13.2-13.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual; Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures; An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	Implemented

Appendix G Monitoring Schedule of the Reporting Month

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

April 2022

Appendix H Calibration Certificates (Air Monitoring)

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Our Report R	efrence No.		RPT-21-HVS	-0003	//	\rightarrow			
Standard Eq	uipment Inf	ormation				<u>n - C</u>			
	on Date		MFC	Tisch's TSP HVS TE-517(X 1045 17-Jun 21 17-Aug 21	Tish HVS Calibrator TE-5028 1050 24-Sep-20 24-Sep-21				\mathcal{D}
Verification	Date		Time		K-Factur	Counts/ Minute (R)	Total Counts	∽sP S•.mple	Dust Concentration (ug/m3), (C)
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2	27/6/2021	1 .58 44	1261.44	180.00	0.00050	61.70	1539	R210872/2	59.26
3	27/6/2021	1 262.31	1265.31	1°5.00	0.00097	10.00	1983	R210872/3	9.72
4	1/7/2021	1. 65.81	1268.84	180.00	0 00093	78.30	2313	R210887/1	73.15
5	1/7/2021	12. 9.10 1272.50	1272.10 1275.50	180.00	0.00096	14.40 28.50	1407 1299	R210887/2 R210887/3	13.89 24.07
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	2	3	4	1	1.0350	6.7	2.50	
-	3	5	6	1	0.9420	8.0	3.00	
-	4	7	8	1	0.8650	9.3	3.50	
L		9	10	1	0.0540	16.2	6.00	
			C	ata Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(Tstd) Ta)		Qa		
	(m3)	(x-axis)	(y-ax	s}	Va	(x-axis)	(y-axis)	
ľ	0.9922	0.7534	1.223	33	0.9945	0.7552	0.7678	
Ľ	0.9887	0.9553	1.579	1	0.9911	0.9576	0.9913	
L	0.9870	1.0478	1.730		0.9893	1.0503	1.0859	
ŀ	0.9853	1.1390	1.868		0.9876	1.1417	1.1729	
ŀ	0.9761	1.4925 m=	2.446		0.9784	1.4960 m=	1.5356 1.03041	
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L	Qstd=	1/m ((√∆H (Pa <u>Tstd</u> Pstd Ta)-ь)	Qa=	1/m((√∆H	(та/Ра))-b)	
		Conditions		_				
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Pstd:		mm Hg ev			US EPA reco	mmends ar	nual recalibration	n per 1998
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Pa: actual bai b: intercept	rometric pr	essure (mm	ig/		the	e Atmospher	e, 9.2.17, page 30	0.

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

InnoTech Instrumentation Co. Ltd.

創新科儀有限公司

HIVOL SAMPLER CALIBRATION DATA SHEET (TSP)

Site Information					
Location:	Emax	Site ID:	Date:	02-Apr-2022	
Serial No:	1049	Model: TE-5170X	Operator:	Kate Wong	

	Ambi	ent Condition	
Corrected Pressure (mm Hg):	767.5	Temperature (deg K):	288.2

Calibration Orifice							
Model:	TE-5028A	Slope:	1.64554				
Serial No.:	3702	Intercept:	-0.00368				
Calibration Due Date:	3-Aug-22	Corr. Coeff:	0.99975				

Calibration Data In,H2O Qa, X-Axis I, CFM Plate or IC, Y-Axis Test# (in) (m3/min) (chart) (corrected) 0.744 28.9 29.53 1 1.43 31.8 2 1.79 0.834 32.52 3 2.24 0.932 34.4 35.15 4 2.86 1.052 37.8 38.61 5 3.46 1.158 40.6 41.47

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

m=	28.6412	b=	8.4176	Corr. Coeff=	0.9994
Sampl	er set point(SSP)	42	CFM		
			Calculations		
Qstd = 1/m[Sqrt	(H2O(Pa/Pstd)(Tstd/Ta))-b]		m = sampler slope		
IC = I[Sqrt(Pa/Pa	std)(Tstd/Ta)]		b = sampler interceptI = chart response		
Qstd = standard	flow rate		Tav = average temperature		
IC = corrected cl	hart response		Pav = average pressure		
I = actual chart r	esponse				
m = calibrator Q	2std slope				
b = calibrator Q	std intercept				
Ta = actual temp	erature during calibration (deg K)			
Pa = actual press	sure during calibration (mm	Hg)			
Tstd = $298 \deg H$	X				
Pstd = 760 mm H	Hg				
For subsequent c	calculation of sampler flow: t(298/Tav)(Pav/760)]				
	蔷薇菇				
Checked by:	x vi4		Date:	2-Ap	r-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:	19-Apr-2022			
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong			

	Ambie	ent Condition	
Corrected Pressure (mm Hg):	763.0	Temperature (deg K):	293.3

Calibration Orifice								
Model:	TE-5028A	Slope:	1.64554					
Serial No.:	3702	Intercept:	-0.00368					
Calibration Due Date:	3-Aug-22	Corr. Coeff:	0.99975					

Calibration Data In,H2O Qa, X-Axis I, CFM Plate or IC, Y-Axis Test# (in) (m3/min) (chart) (corrected) 0.717 29.2 29.45 1 1.36 2 1.65 0.791 30.7 31.05 3 1.91 0.851 32.3 32.62 4 2.31 0.936 34.6 34.92

1.010

36.6

36.92

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

2.70

m=	25.7554	b=	10.8170	Corr. Coeff=	0.9991
Samp	ler set point(SSP)	42	CFM		
		c	Calculations		
Qstd = 1/m[Sqrt	(H2O(Pa/Pstd)(Tstd/Ta))-b		m = sampler slope		
IC = I[Sqrt(Pa/P	Pstd)(Tstd/Ta)]		b = sampler interceptI = chart response		
Qstd = standard	flow rate		Tav = average temperature		
IC = corrected c	hart response		Pav = average pressure		
I = actual chart	response				
m = calibrator (Qstd slope				
b = calibrator Q	2std intercept				
Ta = actual temp	perature during calibration (deg K)			
Pa = actual pres	sure during calibration (mm	Hg)			
Tstd = 298 deg	K				
Pstd = 760 mm	Hg				
For subsequent	calculation of sampler flow:				
	rt(298/Tav)(Pav/760)]				
	生更法				
Checked by:	夜 344		Date:	19-Aj	pr-22

5

Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



Hong Kong Accreditation Service 香港認可處

Certificate of Accreditation 認可證書

This is to certify that 特此證明

ACUMEN LABORATORY AND TESTING LIMITED

浩科檢測中心有限公司

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

is accredited by the Hong Kong Accreditation Service (HKAS) to ISO/IEC 17025:2017 for performing specific laboratory activities as listed in the scope of accreditation within the test category of 續香港認可處根據ISO/IEC 17025:2017認可 進行戰於認可範圍內下感測試類別中的指定實驗所活動

Environmental Testing

環境測試

This accreditation to ISO/IEC 17025:2017 demonstrates technical competence for a defined scope and the implementation of a management system relevant to laboratory operation (see joint IAF-ILAC-ISO Communiqué). 此項 ISO/IEC 17025:2017 的题可資格證明此實驗所集備給全範疇內所須的技術能力並 實施一業與實驗所運作相關的管理體系 (見圖原题可論道、圖醚實驗所認可合作相識及圖醚標準化組織的聯合公報)。

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

SHOM Wal-leung, Executive Administrator 就行幹事 沈偉良

lssue Date : 2 December 2019 簽發日期:二零一九年十二月二日

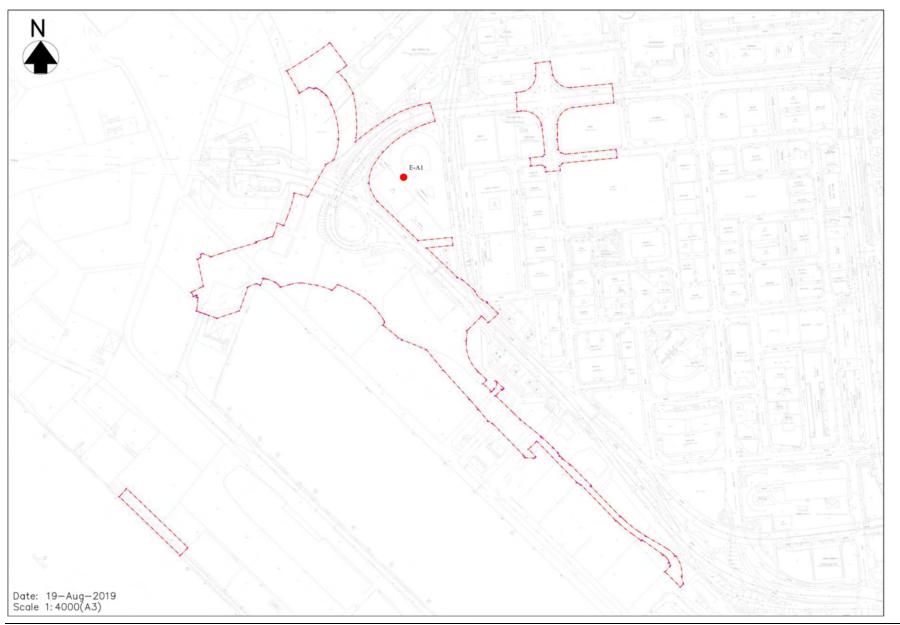
Registration Number : HOKLAS 241 註冊號碼 :



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

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書設照書港即可處訂立的框款及條件發出 L001875

Appendix J Location Plan of Air Quality Monitoring Station



Acuity Sustainability Consulting Ltd.

Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	2, 8, 13, 19, 22 and 28 April 2022
Parameter:	TSP 1-hour
Other Factors:	Nearby traffic

	1-hour TSP (μg/m ³)										
Date	Weather	Start Time	1 st Hour (μg/m ³)	2 nd Hour (μg/m ³)	3 rd Hour (μg/m ³)						
02/04/2022	Fine	9:33	53	62	59						
08/04/2022	Sunny	9:10	58	67	66						
13/04/2022	Fine	9:40	51	60	61						
19/04/2022	Cloudy	10:21	56	53	64						
22/04/2022	Sunny	9:43	52	58	61						
28/04/2022	Sunny	9:25	57	64	68						

Contract No. HY/2018/02 Environmental Monitoring & Auditing

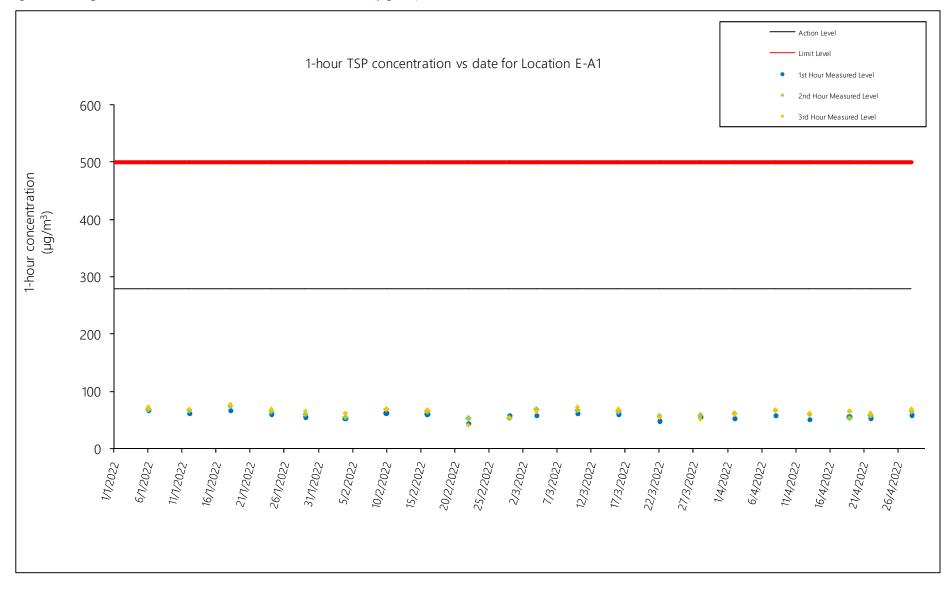
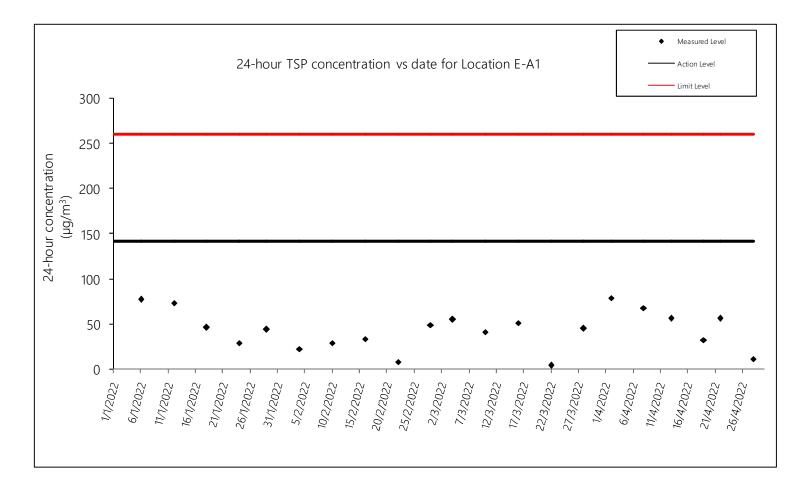


Figure 1: Graphical Illustration of Measured 1-hour TSP (µg/m³) Levels at E-A1

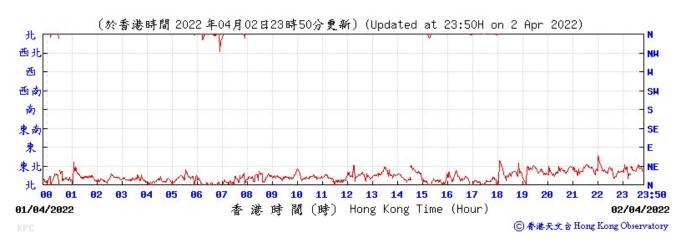
Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	2, 8, 13, 19, 22 and 28 April 2022
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

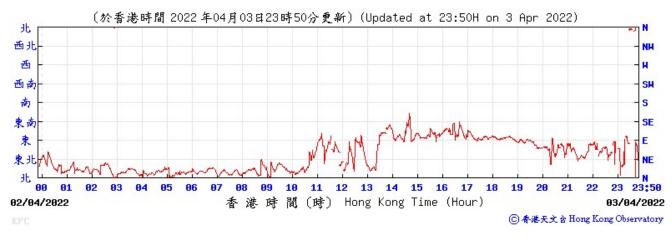
											Calibration: ion due date:			Slope = Intercept =	
										Date of	Calibration:	19-Apr-22		Slope =	
										Calibrat	ion due date:	3-May-22		Intercept =	10.8170
Start Date	Weather		Elapse Time		с	hart Readin	g	Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Flow Rate Standard Volume		Filter Weight (g)		Conc.
	Condition	Initial Final Actual (min) Min Max Avg (°C)	(mm hPa)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m ³)						
2/4/2022	Fine	3622.68	3646.68	1440.00	41	42	41.5	15.0	1023.2	1.19	1718	2.7431	2.8794	0.1363	79
8/4/2022	Sunny	3646.68	3670.68	1440.00	39	42	40.5	23.6	1015.7	1.13	1621	2.7334	2.8438	0.1104	68
13/4/2022	Fine	3670.68	3694.68	1440.00	39	41	40.0	25.3	1006.8	1.09	1573	2.7300	2.8182	0.0882	56
19/4/2022	Cloudy	3694.68	3718.68	1440.00	39	42	40.5	20.1	1017.3	1.17	1686	2.7370	2.7902	0.0532	32
22/4/2022	Sunny	3718.68	3742.68	1440.00	41	42	41.5	24.8	1012.3	1.19	1712	2.7462	2.8428	0.0966	56
28/4/2022	Sunny	3742.68	3766.68	1440.00	40	42	41.0	28.4	1010.8	1.13	1620	2.7187	2.7362	0.0175	11
									· · · · · · · · · · · · · · · · · · ·					min	11
														max	79

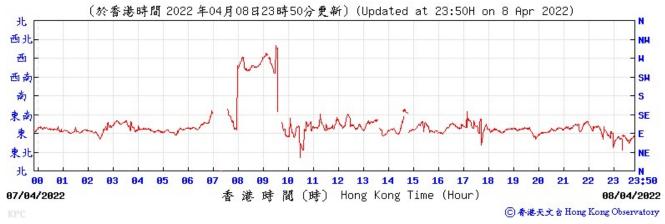
Figure 2: Graphical Illustration of Measured 24-hour TSP (μ g/m³) Levels at E-A1

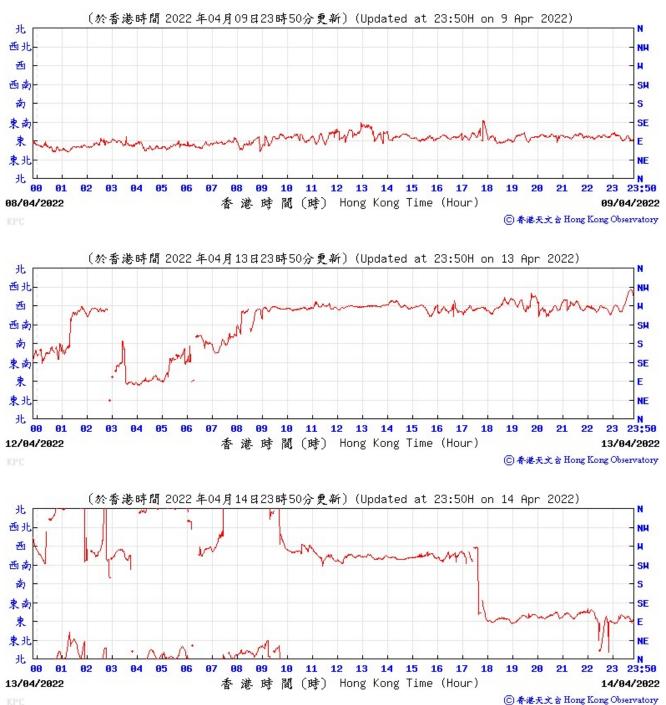


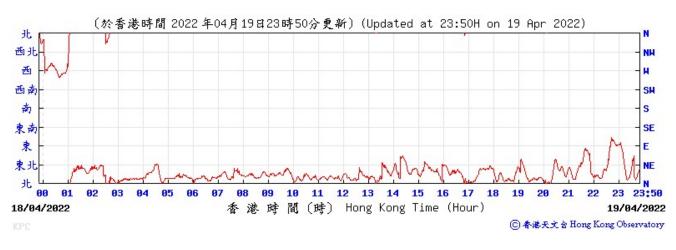
WIND DIRECTION DATA FOR 2,3,8,9,13,14,19,20,22,23,28,29 April 2022

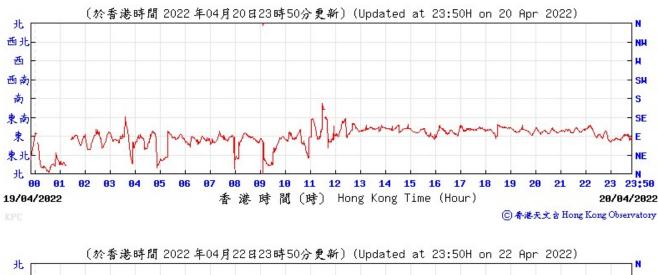


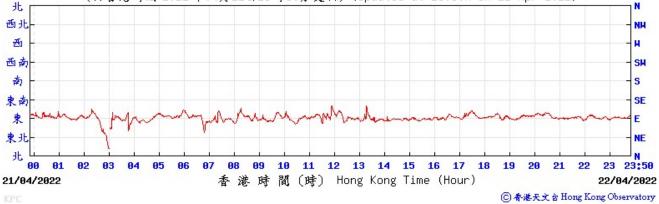




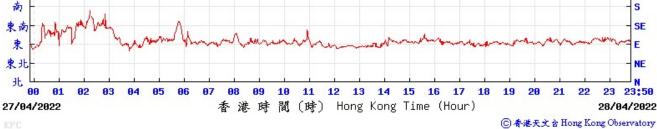








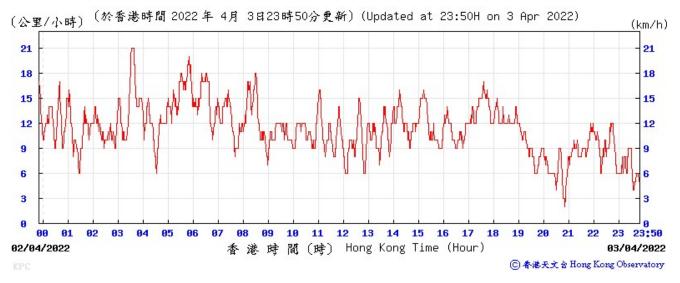








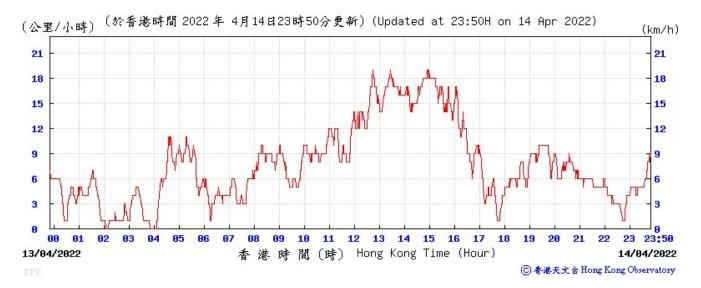
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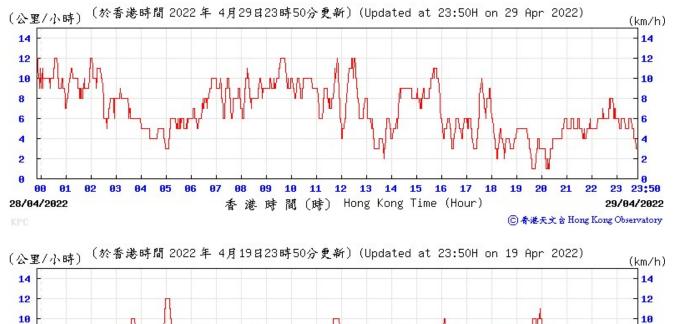
Acuity Sustainability Consulting Ltd.











11 12 13 14

香港時間(時) Hong Kong Time (Hour)

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19/04/2022

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18/04/2022

Appendix L Waste Flow Table

Monthly Summary Waste Flow Table

Name of Department: Highways Department

Contract No. / Works Order No.: <u>HY/2018/02</u>

Monthly Summary Waste Flow Table for <u>April 2022</u>

[to be submitted not later than the 15th day of each month following reporting month] (All quantities shall be rounded off to 2 decimal places.)

		Actual Quantities of <u>Inert</u> Construction Waste Generated Monthly							
Month	(a)=(b)+(c)+(d)+(e)+(f)+(g)+(h)+(i)+ (j)+(k) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill			
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)			
Jan-22	1,776.24	0	0	0	1,687.11	0			
Feb-22	800.73	0	0	0	715.04	0			
Mar-22	489.40	0	0	0	453.64	0			
Apr-22	995.29	0	0	0	898.73	0			
May-22	-	-	-	-	-	-			
Jun-22	-	-	-	-	-	-			
Jul-22	-	-	-	-	-	-			
Aug-22	-	-	-	-	-	-			
Sep-22	-	-	-	-	-	-			
Oct-22	-	-	-	-	-	-			
Nov-22	-	-	-	-	-	-			
Dec-22	-	-	-	-	-	-			
Total	4,061.66	0	0	0	3,754.52	0			
2019	7,646.10	340.00	140.00	0.00	6,643.48	0.00			
2020	142,655.94	0.00	140.00	34,998.72	105,790.14	1,109.00			
2021	100,327.04	0.00	100.00	40,313.27	57,782.06	0.00			
Accumulated Total	254,690.74	340.00	380.00	75,311.99	173,970.20	1,109.00			

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly											
Month	onth (g) Metals		(h) Paper/ cardboard packaging		(i) Plastics		Chemic	(j) al Waste	(k) Others, e.g. General Refuse disposed at Landfill			
	(in '(000kg)	(in '0	00kg)	(in '00)0kg)	(in '0	00kg)	(in 'tonnes)			
	generated	recycled	generated	recycled	generated	recycled	generated	recycled	generated			
Jan-22	0	0	0.15	0.15	0	0	0	0	88.98			
Feb-22	0	0	0.16	0.16	0	0	0	0	85.53			
Mar-22	0	0	0.10	0.10	0	0	0	0	35.66			
Apr-22	0	0	0.05	0.05	0	0	0	0	96.51			
May-22	-	-	-	-	-	-	-	-	-			
Jun-22	-	-	-	-	-	-	-	-	-			
Jul-22	-	-	-	-	-	-	-	-	-			
Aug-22	-	-	-	-	-	-	-	-	-			
Sep-22	-	-	-	-	-	-	-	-	-			
Oct-22	-	-	-	-	-	-	-	-	-			
Nov-22	-	-	-	-	-	-	-	-	-			
Dec-22	-	-	-	-	-	-	-	-	-			
Total	0	0	0.46	0.46	0	0	0	0	306.68			
2019	22.57	22.57	0.05	0.05	0.00	0.00	0.00	0.00	500.00			
2020	207.47	207.47	1.28	1.28	0.00	0.00	0.00	0.00	409.33			
2021	1,028.67	1,028.67	0.53	0.53	0.00	0.00	0.00	0.00	1,102.52			
Accumulated Total	1,258.71	1,258.71	2.32	2.32	-	-	-	-	2,318.53			

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

Statistical Summary of Exceedances									
	Air Quality								
Location	Action Level	Limit Level	Total						
E-A1	0	0	0						

Statistical Summary of Environmental Complaints

Departing David	Environmental Complaint Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature					
1 April 2022– 30 April 2022	0	2	N/A					

Statistical Summary of Environmental Non-compliance

Donouting Donio d	Environmental Non-compliance Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 April 2022– 30 April 2022	0	0	N/A	

Statistical Summary of Environmental Summons

Donouting Douis d	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 April 2022–	0	0	NI/A		
30 April 2022	0	0	N/A		

Statistical Summary of Environmental Prosecution

Departing David	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 April 2022– 30 April 2022	0	0	N/A		

Appendix N Monitoring Schedule of the Coming Month

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

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. 19 (April 2022)

Version 1 Date of Report: 12 May 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

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





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

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

Reference Document/Plan

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.19
Date of Report:	12 May 2022 (Version 1)
Date received by IEC:	12 May 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:

12 May 2022

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.19_20220512.docx

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EXECUTIVE SUMMARY

Introduction

- This is the 19th 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 April 2022 – 30th April 2022.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
 - Piling works (pipe piles and sheet piles)

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 6, 12, 19 & 26 April 2022, whereas joint site inspection with the representative of IEC was conducted on 19 April 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 (April 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.

Noise

- One Action Level had been triggered as one noise-related complaint received.
- No Limit Level exceedance for noise.

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**.

	•	t Details	Follow un/ Domodial	Status/ Remarks
Event	Number	Brief Description	Follow-up/ Remedial Actions	
Complaints Received	EC001_ CKRBEM 20220414_001	Noise Nuisance from the site office at Muk Long Street on 10/4/2022 (Sunday)	 No major construction works were conducted. Minimize the works arrangement during the restricted hour. The complaint was considered as non- project-related. 	The Complaint Investigation Report is under investigation and the investigation results will be reported in the subsequent Monthly EM&A Report.
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:
 - Piling works (pipe piles and sheet piles);
 - 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 19th 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 April 2022 – 30th April 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 Project Contacts	

Party	Role	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

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:
 - Piling works (pipe piles and sheet piles).

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

Downit / Licon of No.	Valid I	Status								
Permit / License No.	From	То	Status							
Environmental Permit (EP)										
EP-457/2013/D	15 Jun 2021	N/A	Valid							
Notification of Construction Works under Air Pollution Control Ordinance (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 F	Producer – Kai Tak									
5211-286-G2347-54	13 Jul 2020	N/A	Valid							
Wastewater Discharge Licence - 1	Kai Tak									
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid							
Construction Noise Permit - Kai	Tak Site (General W	orks [grouting, pili	ng])							
GW-RE0248-22	24 Mar 2022	23 Sep 2022	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 are 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 No Limited Level and one Action Level had been triggered as one noise-related complaint received.
- 3.3 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 are shown in **Table 6.1** of this report.

4 WASTE MANAGEMENT

Monitoring Requirements

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

Results and Observations

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

	Quantity														
	Inert C&D	Materials	Non-inert C&D Materials												
Reporting Period	TotalDisposed asQuantityPublic FillGenerated(in '000m³)		Others, e.g. general refuse (in '000m ³)	Metals (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)									
April 2022	2.606	2.606	0.042	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 are 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 12 & 26 April 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 6, 12, 19 & 26 April 2022 in the reporting month. Joint site inspection with the representative of IEC was conducted on 19 April 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			
T ut utilicitet 5	Dute					
Water Quality	26 Apr 2022	Stagnant water under the air compressor should be cleared at Kai Tak Ventilation Building Site.	Stagnant water under the air compressor had been cleared at Kai Tak Ventilation Building Site.			
Air Quality	26 Apr 2022	The damaged NRMM label should be changed at Kai Tak Ventilation Building Site.	The damaged NRMM label had been changed at Kai Tak Ventilation Building Site.			
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A			
Waste / Chemical	6 Apr 2022	Oil leakage should be avoided from the air compressor at Kai Tak Ventilation Building Site.	Oil leakage from the air compressor had been cleared at Kai Tak Ventilation Building Site.			
Management	19 Apr 2022	Oil leakage should be avoided from the crane at Kai Tak Ventilation Building Site.	Oil leakage from the crane had been cleared at Kai Tak Ventilation Building Site.			
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.

Noise

- One Action Level had been triggered as a noise-related complaint received.
- No Limit Level exceedance for noise.

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 One environmental complaint of construction noise from the site office at Muk Long Street was received in the reporting month. No major construction works were conducted after investigation. The minimization on works arrangement during the restricted hour will be adopted. The complaint was considered as non-project-related. No notifications of summons and successful prosecutions was received. 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 (March 2022)	14 April 2022

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Piling works (pipe piles and sheet piles);
 - 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 19th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st April 2022 – 30th April 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.

Noise

8.3 No Limit Level and one Action Level had been triggered as one noise-related complaint received.

Landscape and visual

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

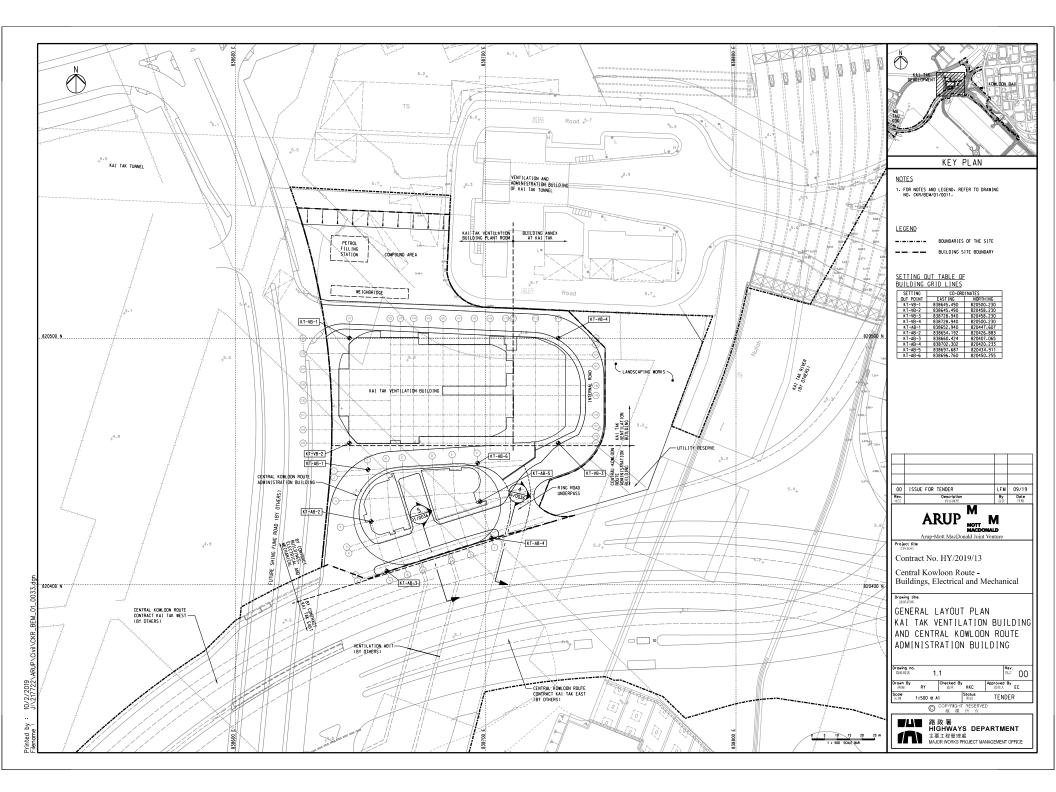
Site Audit

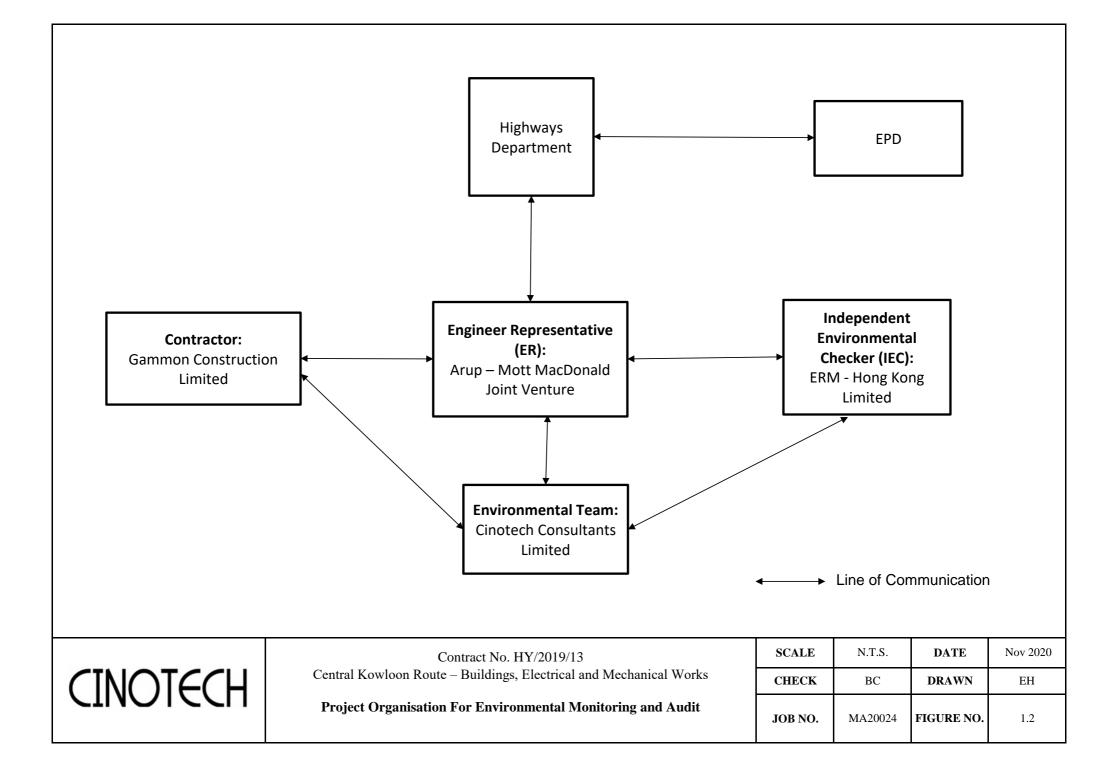
8.5 4 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 6, 12, 19 & 26 April 2022, whereas joint site inspection with the representative of IEC was conducted on 19 April 2022. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

8.6 One environmental complaint and no notification of summons and successful prosecutions was received in the reporting month.

FIGURES



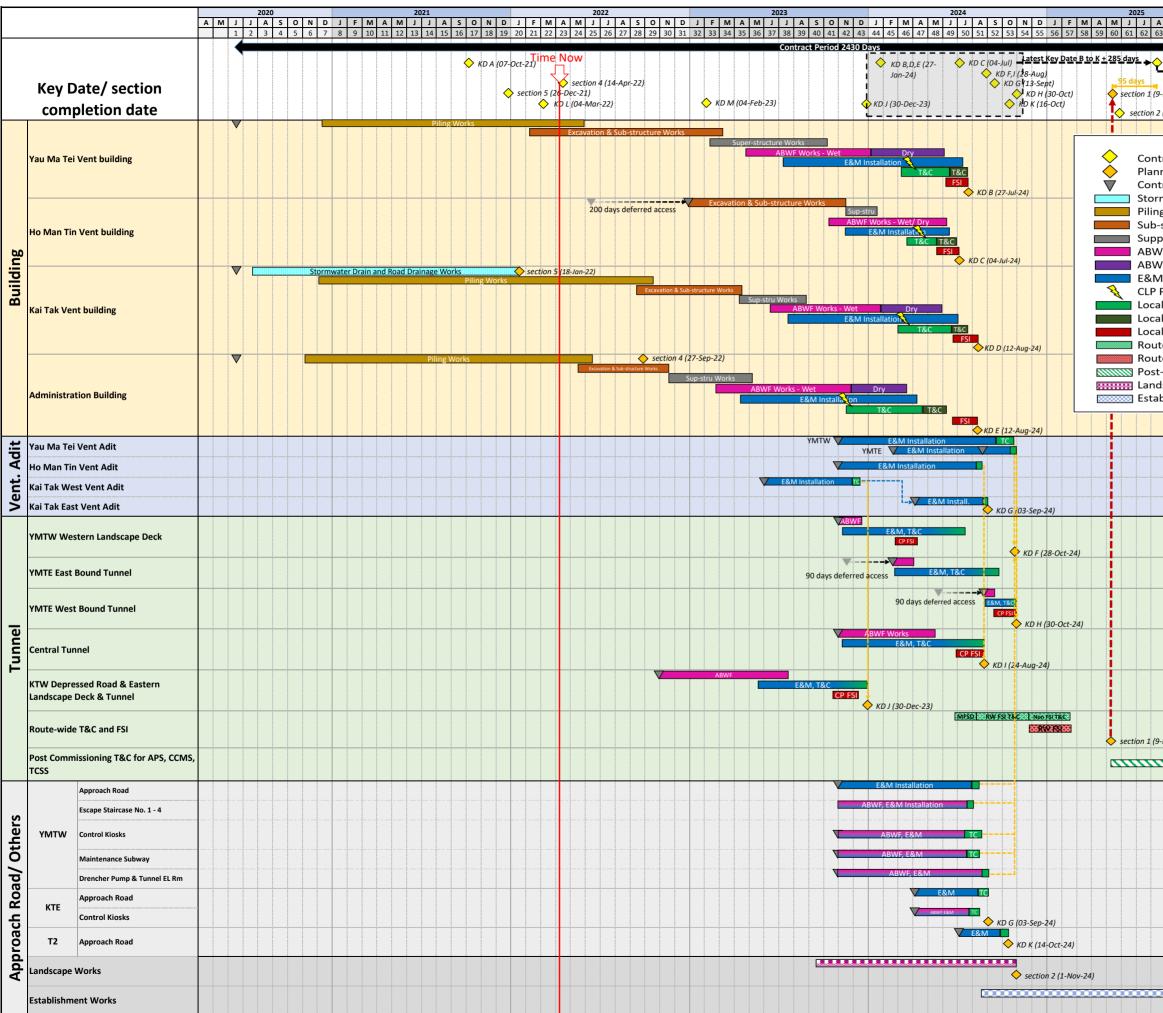


APPENDIX A CONSTRUCTION PROGRAMME



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

Summary Programme





路政署 HIGHWAYS DEPARTMENT 主要王信管理通 MAJOR WORKS PROJECT MANAGEMENT OFFICE

										20	26							20	27	
A 53	S 64	0 65	N 66	D 67	J 68	F 69	M 70	A 71	M 72	J 73	J 74	A 75	S 76	0 77	N 78	D 79	J 80	F 81	M 82	A 83
5	04	03	00	07	00	09	70	/1	12	75	74	75	70	//	78	73	80		02	03
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APPENDIX B SUMMARY OF WASTE GENERATION AND DISPOSAL RECORDS

Monthly Summary Waste Flow Table

Name of Department: HyD

Contract No.: HY/2019/13

Central Kowloon Route - Buildings, Electrical and Mechanical Works Kai Tak Site Area

				violitiny 5u			10 101 <u>202</u>					
		Actual Quanti	tes of Inert C&D	Materials Genera	ated Monthly			Actual	Quantites of C&	D Waste Generat	ted 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	1.458	0.000	0.000	0.000	1.458	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												
Jun												
Sub-Total	6.637	0.000	0.000	0.000	6.637	0.000	0.000	0.000	0.000	0.000	0.000	0.120
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total (2022)	6.637	0.000	0.000	0.000	6.637	0.000	0.000	0.000	0.000	0.000	0.000	0.120
Total (whole)	25.845	0.000	0.000	0.000	25.845	0.000	0.000	0.000	0.000	1.080	0.000	0.389

Monthly Summary Waste Flow Table for 2022 (year)

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:

bensiej valaes ana banki accors adopteat			
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
The reported and forecast volume figures are in "hulk" volume	with Bulk Factor applied as per Not	e (5)	

(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	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status		
	n Dust Impact			~		~ .				
\$4.3.10	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	*		
\$4.3.10	D2	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/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	Α		
\$4.3.10	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.	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 A		
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads.						۸		
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						۸		
		The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.)t	ot						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	Implementati on 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.						٨
		Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously.						۸
		Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet						٨
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						٨
		Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides						۸
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on 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	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	٨
	n Noise (Airbor	· ·	•	1	I	1	1	
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.						۸
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						۸
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						٨
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	-					N/A
S5.4.1	N2	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	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
\$5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
\$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	۸
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
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 (Construction	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	Implementati on 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.						A
		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.						^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.						۸
		Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.						٨
		Precautions be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.						٨
		All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.						A
		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	Implementati on 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	Tunneling Works and Underground Works 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.					- 110-055	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
\$6.9.1.3	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	٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.5	W4	Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted. 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 treated in to the ground. If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers. If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged shall not be higher than pollutant levels of groundwater to be recharged shall not be high	Address To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	- Water Pollution Control Ordinance - 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	Implementati on 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 	٨
		The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.					- 1M-DSS	٨
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						۸
Waste Mana	gement (Const	ruction Waste)		•				
S7.4.1		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 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.	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	^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status	
\$7.5.1		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 disposal	Contractor	All construction sites	Construction stage	Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 10/2005	^ 	
		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					19/2005	^ N/A	
		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.							
		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.						^	
\$7.5.1		<u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	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	A
		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	Implementati on 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 area	Practice Guide (PG) for Investigation and Remediation of Contaminated Land · GN/GM for land contamination	^
\$7.5.1	WM5	Land-based and Marine-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location. 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.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	^ 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. Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.	-					N/A 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. The material shall be placed into the disposal pit by bottom dumping.	-					N/A N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on 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	Chemical waste that is produced, as defined by Schedule 1 of the Waste	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites		 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	۸
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.						*
		The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient 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.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
		Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.						۸
\$7.5.1		General Refuse General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimize production of the general refuse and avoid odour, pest	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	۸
		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.	and litter impacts					^
		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.						۸
		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.						۸
Land Contai			r	n		0	1	
S8.9 & Appendix 8.4		Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	Prior to commencemen t of construction works within the contaminated area	Practice Guide (PG) for Investigation and Remediation of Contaminated Land - Guidance Notes for Contaminated Land Assessment and Remediation Guidance Manual for Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.						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.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L			I	~			· · · · · · · · · · · · · · · · · · ·	-
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	^
S9.18	Н9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	۸
Landscape a	nd Visual		•					
S10.10.1 Table 10.11	LV3	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	/	٨
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.						^
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	Erosion Control 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	Implementati on 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.	*	Contractor	Within Project site	Construction Phase	 '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.		Contractor	Within Project site and designated off- site locations	Prior to Construction Phase	ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004	N/A
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.		Contractor	Within Project site	Construction Phase	ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementati on 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)				•		
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.	0	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	Implementati on Stage	Requirements and/ or standards to be achieved	Implementation Status
EM&A Proj	ect							
\$13.2			Control EM&A Performance	Highways Department	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	٨
S13.2-13.4	EM2	1 · 5 · · · · · · · · · · · · · · · · ·	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	 EIAO Guidance Note No. 4/2010 TM-EIAO 	۸
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;	entre e					۸
		An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.						٨

Remarks: 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: April 2022

Log Ref.	Location	Received Date	Details of Complaint/ warning/ summon and prosecution	Investigation/ Mitigation Action	Status
EC001_ CKRBEM 20220414_001	BEM Site Office at Muk Long Street	14-Apr-22	Noise Nuisance from the site office at Muk Long Street on 10/4/2022 (Sunday)	 No major construction works were conducted. Minimize the works arrangement during the restricted hour. The complaint was considered as non-project-related. 	The Complaint Investigation Report is under investigation and the investigation results will be reported in the subsequent Monthly EM&A Report.

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