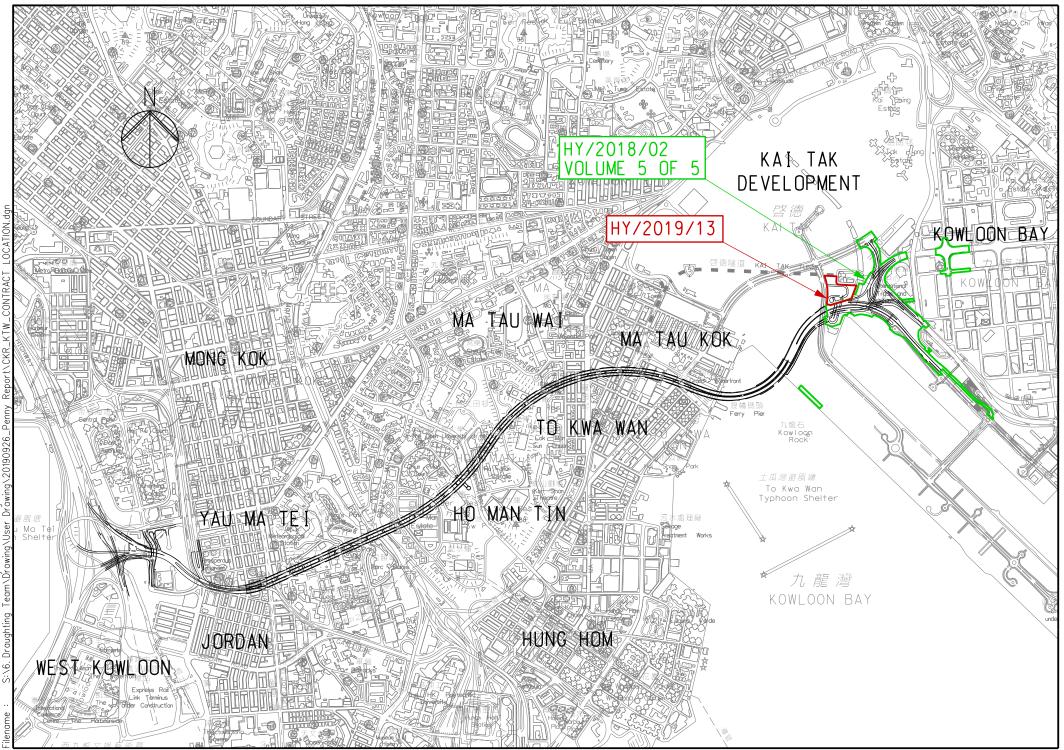
Vol. 5 of 5

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) February 2022



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





Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

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

Reference Document/Plan

Document/ Plan to be Certified/ Verified:	Monthly EM&A Report No.30 (February 2022)
Date of Report:	10 March 2022 (Rev. 1)
Date received by IEC:	10 March 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:

10 March 2022

Our ref: 0436942_IEC Verification Cert_KTE_Monthly EM&A Rpt No.30.docx



Alchmex – Paul Y Joint Venture

Central Kowloon Route Contract HY/2018/02

Section of Kai Tak East

Monthly EM&A Report No. 30

(Period from 1 to 28 February 2022)

Rev. 1

(10 March 2022)

		Name	Signature
Prepared by		Andres T. T. Lo (Assistant Environmental Consultant)	A
Checked Reviewed by	&	Y.H.Law (Senior Environmental Consultant)	Malar
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 is the 30th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 February 2022 to 28 February 2022.
- A.2 A summary of major Construction activities by Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Bored Pile at Temporary Platform & Kai Cheung U Turn.
- Pile Cap Construction at Portion 1A, Kai Cheung Loop Road & Portion 2B.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 & S21 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	5 times
Construction dust (1-hour TSP) monitoring	
E-A1	15 times

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 9, 16 and 23 February 2022. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 9 February 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 9 and 23 February 2022. Details of the audit findings and implementation status are presented in Section 5. *Law: please confirm it is fact.*
- 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 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.
- Central Divider Removal at Kai Fuk Road.

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

- Bored Pile at Temporary Platform & Kai Cheung U Turn.
- Pile Cap Construction at Portion 1A, Kai Cheung Loop Road & Portion 2B.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 & S21 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,

Notification, Permit and I	Documentations
----------------------------	----------------

Permit/ Licences/	Valid	Period		
Notification /Reference No.	From	То	Status	Remark
Environmental Permit				
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Lie				
WT00035029-2019	17 Dec 2019	31 Dec 2024	Valid	-
Notification of Constructi			<u>`````````````````````````````````````</u>	ion Dust) Regulation
445001	Apr 2019	Dec 2023	Notified	-
Chemical Waste Produce				
WPN5113-247-A2940-01	17 May 2019	End of Project	Valid	-
Billing Account for Dispo				
7034073	15 Jun 2019	End of Project	Valid	-
Construction Noise Permi	it	1		I
GW-RE0910-21	30-Sep-21	28-Mar-22	Valid	General Work for Area A
GW-RE0920-21	24-Sep-21	22-Mar-22	Valid	General Work for Area B and Site Office
GE-RE0696-21	4-Aug-21	2-Feb-22	Superseded by	
OE-RE0090-21	4-Aug-21	2-1/60-22	GW-RE0069-22	Kai Cheung U Turns
GW-RE0069-22	3-Feb-22	25-July-22	Valid	
GW-RE0857-21	13-Sep-21	12-Mar-22	Valid	Portion 2B
GW-RE1306-21	18-Jan-22	11-Mar-22	Valid	Central Divider Removal
GW-KE1500-21	18-Jan-22	11-11111-22	vanu	at Kai Fuk Road
CW DE1104 21	25 Mars 21	24 E-h 22	¥7.1:1	Existing Gantry Removal
GW-RE1104-21	104-21 25-Nov-21 24-Feb-22 Valid	Valid	at Kai Fuk Road	
CW DE0074 22	12 E-h 22	16 Mar 22	Valid	Road Paving Work at Kai
GW-RE0074-22	13-Feb-22	16-Mar-22		Cheung Loop Road
CW DE0070 22	12 Ech 00	21 May 22	Valid	Road Diversion at Kai
GW-RE0079-22	13-Feb-22	31-May-22		Fuk Rd

2. ENVIRONMENTAL STATUS

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

Table 2.1 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 (January 2022)	14 February 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 Parameter	Monitoring 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	4 and 22 Feb 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 4, 10, 16, 22 and 28 February 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	41 - 69	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	8-49	142	260

Waste management

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

			Ç	Juantity		
				Non-inert C&	D Materials	
			Others,			
			e.g.	Recy	ycled material	S
	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)			
February-2022	715.04	0.00	85.53	0.16	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	omplaint 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 investi	gation 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 is								
	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 Cor	ntractor to prepare interim report on the status of the								
complaint investigation and follow-up actions st	ipulated above, including the details of the remedial								
measures and additional monitoring identified	or already taken, for submission to EPD within the								
time frame ass	signed by the EPD								
The ET to record the details of the complaint, res	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 mon	itoring 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, 3 site inspections were carried out by the representative of ET, Contractor and Engineer on 9, 16 and 23 February 2022, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 9 and 23 February 2022.
- 5.2. One joint site inspection with IEC also undertaken on 9 February 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
9 February 2022	NA	NA
16 February 2022	 Hydraulic Breaker should be placed with cover or canvas to prevent oil leakage at S3. 	1. Hydraulic Breaker is removed.
23 February 2022	NA	NA

Table 5.1 Site 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.

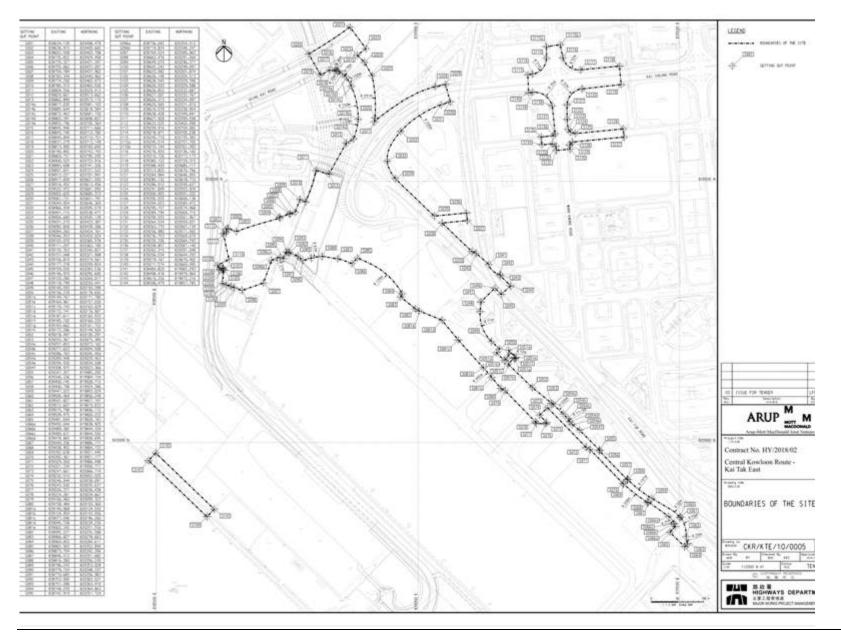
6. **FUTURE KEY ISSUES**

- 6.1. The construction activities provided by Contractor in the next reporting month are:
 - Pile Cap Construction at 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.
 - Central Divider Removal at Kai Fuk Road.
- 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 30th monthly EM&A Report presents the EM&A works undertaken during the period from 1 February 2022 to 28 February 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 9 February 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



Acuity Sustainability Consulting Ltd.

Appendix B Construction Programme

ata Date: 25-Jan-22 int Date: 18-Feb-22	12 10:30			Contract No. HY/2018/02 Centre Kowloon Route - Kai Tak East														Alchmex – Paul Y Joint Venture						
y ID	Activity Name		Orig Dur Stat	Finit	Lab Siat	Late Finish	Total Ficel	TRA (Day	linuary 33		Fabraay S4	-	- 16	nch: 5		April 36			May 37	_				
on the U. Kourd	loon Route - Kai Tak East (Month 22 Hadate) /De	667 28-Ftb-20 A	24-3un-22	09-Dec-21	23-Dec-25	1031	665.00	28 02 04 18	23 3	06 13	20 27	06 1	3 20	27 (3	10	17 24	@1	(8 15	22				
			149 11-5m-21 A		00-0-0-22	31-402-25	2400	0.00										5						
	RIES AND GENERAL REQU	JIREMENTS																						
	Dates and Milestones			201407-22			1249			E.	11													
Key Dates			108 20-Dec-21 A		08-Feb-22	31-Aug-25	1219	0.00																
Sections of th	he Works		108 20-Dec-21 A	30-Apr-22	08-Feb-22	31-Aug-25	1219	.0.00										1						
KD-12	KD12 - Section 12 Completion of Str. 182,102,104,20,2E,30 for UN (646	et. of Underpass 521 Allow access to	0	20-Dec-21 A		31-Aug-25																		
KD-17	KD17 - Section 17: Complians the con	nplotion of sloeve pipes for DCS within	0	17-Feb-22*		08-Feb-22	-0																	
KD-04	Parts 1D4, 2D, 2E & 3D (459 days) KD04 - Section 4: Comprises the Estal	blishment Works for Landscape	0	30-Apr-22*		04-May-22	- 4																	
Section Subje	Softworks under Section 3 (365 days act to Excision	1	0 22-for22	22-Apr-22	22-Apr-22	22-Apr-22	Ð	0.00										1						
55-505	PH's Notify to execute Section 5 of th	e Works (Latest Date 1,096 dave)	0 22-Apr-22*	(Ac	22-Apr-22	26	0																	
SE-506	PM's Notify to execute Section 6 of th		0 22-4pr-22*		22-Apr-22		0		hana karakara karakara karakara karakara karakara	100		m hurd			inter den er	Sund-		inn-Èr		4-mil				
							U																	
	t Safety Audit Scheme ACC	D31(5)																						
Safety Aduit			0 24-Jan-22 A	24-1an-22 A	03-5-0-23	03-540-23		0.00										0						
S41112	6th Safety Audit at 6 months intervals	C)	0 24-Jan-22 A	1	03-5ap-23			_		•														
Utilities Sche	edule (WSD/DSD/CLP/TG/I	PCCW/HKB/ATC/KT Tur	127 11-Marc21 A	01Mpr/22	05(44)23	02.5ab 23	-412	0.00										1						
Utilities Month	hly Meeting		127 11-Nov-21 A	01-Apr-22	05-34-23	02-Sep-23	417	0.00																
UU-1044	11st Ublities monthly meeting		0 11-Nov-21 A	1	05-Jul-23																			
UU-1046	12nd Utilities monthly meeting		0 25-Jan-22		05-34-23		417																	
UU-1048	13rd Utilities monthly meeting		0 01-4or-22		02-500-23		417								100									
1/2001/00/040	and a second sec		10 07070.070		100.000 000										10			1						
	D ENGINEERING																							
	Works Design & Engineering	r.																						
DES - Kiosks			48 12-Apr 22	13-Jun-22	28-Feb-23	28-Apr-23	257	0.00										1						
DES-1228	DES - Prepare preliminary proposal s.	ubmission	48 12-Apr-22	13-Jun-22	28-feb-23	28-Apr-23	257									CC				_				
Cost Saving I	Design & Engineering		532 25-Hitt-20 A	26-lim-22	07-3m-23	09-1in-21	276	0.00																
CSD-F for Four	indation of Ring Road Underpass	& Ventilation Adit	552 28-Feb-20-A	26.3an/22	07-Jan-23	09-Jan-23	278	0,00																
Detailed Desi	ign for Foundation of Ring Road I	Underpass & Ventilation Adit	552 28-Feb-20 A	26-Jan-22	07-Jan-23	09-Jan-23	278	0.00		-														
DE5-0198	CSD-F Submit to PM & all relevant par	ties for review and approval	51 28-Feb-20 A	26-3an-22	07-Jan-23	09-1an-23	278																	
DES-0200	CSD-F Consent to start the works		0	26-Jan-22		09-Jan-23	278																	
			118 05-409-21 A	LUCKING AL	01-40-22	1+in-21																		
	Works Design & Engineering						190																	
	ary Works for Bridges		100 05-Nov-21 A		12-Apr-22	14-Jan-23	234	0.00										1						
DES_T03 - Te	emp working platform for Bridge		24 05-Nov-21 A	28-Feb-22	12-Apr-22	14-May-22	59	0.00										E						
DES-1322	DES - Project Manager direcking and a works	approval; consent to start the Portal	24 05-Nov-21 A	28-Fab-22	12-Apr-22	14-May-22	59																	
DES_TOS - Te	emp working platform for Bridge	S7 over Kai Cheung Slip Roa	51 25-Jan-22	31-Mar 22	17-May-22	16-3ul-22	94	0.00																
DES-1324	DES - Prepare preliminary proposal su	ubmission	3 25-Jan-22	27-Jan-22	17-May-22	19-May-22	54			-														
DES-1326	DES-102 checking and approval		24 28-Jan-22	03-Mar-22	20-May-22	17-Jun-22	84			-				-										
Current Ne	50	011101102									ect ID: KTE-WP27_M	33			25-04-	a Northy	Revie Programme M00	0	TW	ided Ap				
Adual Wor Otical Pan Permang	maining Work	Central Kowloon Route - Kai Tak East (Month 33 Update) (Rev27 - CSD) Three Month Rolling Programme							e) (Rev27 - CSD)	File	eline: out: KTE - 3 Months R r: TASK filters: 3 Mont e 1 of 17			sion.	20-Nov 25-Nov 24-Dec 25-Dec 24-Jon	21 Monthly 21 Submit 1 21 Monthly	CSD Programme Programme MS1 CSD Programme Programme MS2 CSD Programme	1 9 Rov 26 2	TW TW TW TW TW	00 80 80 80 80				

	Activity Name	Orig Dur	Stat	Firish	Late Stat	Late Finish	Total Fiper	TRA (De)	Jaruay 33		February 34	M9 3	ch S		April 36		1/89 37	
28	DES - Project Manager diverking and approval; consent to start the Portal	24	04-Mar-22	31-Mer-22	18-Jun-22	16-3ul-22	84		26 02 09 16	23 30	06 13 20	27 06 1	3 20 2	7 03	90 17	24 - 61	08 15	22
	works smp working platform for Bridge S2 & S8 over KF Rd & KC Rd	51	25-3an-22	31-Mar-22	19-May-22	14-Jan-23	234	0.0										
1330	DE5 - Prepare preliminary proposal submission		25-Jan-22	27.Jan-22	19-May-22	21 May 22	86			_								
-1332	DES - ICE checking and approval		28-Jan-22	03-Mar-22	17-Nov-22	14-Dec-22	234											
-1334	DES - Project Manager checking and approval; consent to start the Portal		04-Mar-22	11-Mar-22	15-Dec-22	14-Jan-23	234						-					
	works					13-00-22	159	0.0							إستابت			
	S Design for Bridge S8 - 8A-S8 to 8D-S8		25-Jan-22	29-Mar-22	15-Aug-22			9.00										
ES-1378	DES - Prepare preliminary proposal submission		25-Jan-22	15-Feb-22	15-Aug-22	29-Aug-22	159											
ES-1380	DES - JCE checking and approval		16-Feb-22	01-Mar-22	30-Aug-22	13-Sep-22	159				-							
5-1382	DES - Project Manager decking and approval; consent to start the ELS works		02-Mar-22	29-Mar-22	14-Sep-22	13-Oct-22	159							1				
5 - Tempor	ary Works for Underpasses, Adit and Roads	138	25-Nov-21 A	21-May-22	05-Apr-22	01-Sep-22	86	0.00										
S_T08 - Te	emp works for construction of Sign Gantries, Lighting Poles &	86	28-3an-22	23-May-22	23-May-22	01-5ep-22	86	0.0										
€S-1390	DES - Prepare preliminary proposal submission	36	28-Jan-22	17-Mar-22	23-May-22	05-Jul-22	86			E				1				
ES-1392	DES - ICE checking and approval	26	18-Mar-22	21-Apr-22	06-3.4-22	01-Aug-22	86						(C)					
ES-1394	DES - Project Manager disoking and approval, consent to start the works	24	22-Apr-22	21-May-22	05-Aug-22	01-Sep-22	86					i 1 i		1		_	-	2
ES_T10 - Te	imporary works for Traffic Deck over Underpass S3	24	25-Nor-21 A	26-3an-22	05-Apr-22	07-Apr-22	54	0.0										
E5-1404	DES-ICE chedding and approval	0	25-Nov-21 A	07-Dec-21 A	06-Apr-22	05-Apr-22						1 1 1		-				
5/1406	DES - Project Manager checking and approval; consent to start Underpass S3	24	07-Dec21 A	26Jan-22	05-Apr-22	07-Apr-22	54			-								
STRUCT	ION	365	25-Ma+21 A	24-Jun-22	00-Dec-21	23-Dec25	1091	665.0										
	prary Traffic Management Scheme																	
	or Kai Fuk Road	36	24-Mar-22	12-May-22	07-May-22	16-May-22	3	0.0										
-TTA-1.1	TTA - Kai Fuk Road - Stage 1.1		24 Mar-22		07-May-22		33					1						
R-TTA-1.2	TTA - Kai Fuk Road - Stage 1.2	0	24 Mar 22		07-May-22		33											
R-TTA-1.3	TTA - Kai Fuk Road - Stage 1.3		24-Mar-22		07-May-22		33											
R-TTA-2	TTA - Kai Fuk Road - Stage 2		19-4pr-22		07-May-22		15											
R-TTA-201	TTA - Kai Fuk Road - Stage 28-1, (Night Work) (Span 1E to 1F/7A/WB)	100	12-May-22		16-May-22		3											
owner weren			04-Augent A	la lun 22	Distances	23-025	1031	600.0						1200-0				
	If the Works of the Site, except Section 2 to 17		28-0d-21 A	06-Jun-22	11-Feb-22	22-3.4-23	332	21.0										
	naries Works																	
	ment Works		28-00-21 A		11-Feb-22	22-364-23	332	21.0										
	teel platform over Kai Tak River	165	28-00-21 A	21-May-22	11-Feb-22	22-34-23	344	21.0										
DIA Stage 1			anima) A	(Antenista)	-Interval	1000		0.0										
1-2036	SE(Stage 1) - Install P3 concrete block and decking for Portion 1 (S1)			24-Jan-22 A	26-Mar-22	26-Mar-22		6.0										
1-23278	SE(Stage 2) - outercasing installation for 4K-S4-8	4	30-0d-21 A	03-Nov-21 A	19-Feb-22	19-Feb-22		3.0										
01A Singe S																		
1-2337	SE(Stage 5) - Remove conferdam for 1D; erect F3 platform (1 nos)	18	28-0d-21 A	10-Nov-21 A	11-Feb-22	11-Feb-22												
1-23344	SE(STage S) - Fabrication of conorate bills and deck (on site)(S1/S3/CKRE)	75	08-Nov-21 A	24-Jan-22 A	08-Mar-22	08-Mar-22												
1-2334	SE(Stage 5) - Initial F5 concrete block and dealing for Portion 2 (SL)/S3/CKRE	60	02-Dec 21 A	19-Feb-22	22-Feb-22	12 Mar-22	15	6.0			_							
1-23348	(SI/SU/UNE) SE(STage 5) - Pabrication of concrete bills and desk (on-ste)(CKRW/SH)	65	25-Jan-22	21-Apr-22	29-Mar-22	20-Jun-22	48			-								
Current Mi											ID: KTE-WP27_M33			25-00-21	Northly Program		TW	ded A
	* Central K	owloo) (Rev27 - CSD)	Baselin Layout:	e: KTE - 3 Months Rollin;	Programme		20-Nov-21 25-Nov-21	Northly Program	ogramma Rav 25 mme MS1	TW	00
Remaining	Wole		In	ee Mon	IN ROLL	ing Prog	Iramn	ie				olling_1, KTE - Submis	sion.	24-Dec-21 25-Dec-21	Monthly Program	ogramme Rev 26 mme MS2	TW	00
	1													24-Jon 22		ogramme Rev 27		DC DC

	Activity Name	Orig Dur	Slat	Finish	Late Stat	Late Finish	Totol Filoat	TRA (De	33 26 02 08 16	Fénnasy Milerch 34 35 23 30 06 13 20 27 06 13 20	27 03	Apri 36 50 17 24 01 06	Mily 3.7 1 15 22
1-2336	SE(Stage 5) - Install F3 concrete block and decking for Portion 3 (OGRW/S4)	72	21-Feb-22	21-May-22	28-Mar-22	27-Jun-22	30	6,0					
DIA reinstatu	ament works	16	29.5m-23	12040722	mMa-22	22.944.02	17	ñ-0					
1-2338A	SE - Early removal of cofferdam (S1) and reinstate for bidge falsework	12	29-3an-22	18-Feb-22	03-Mar-22	16-Mar 22	22						
1-2338B	SE - Early removal of coffedam (S3) and reinstate for bdge falsework	12	29-Mar-22	12-Apr-22	10-3.4-23	22-Jul-23	373				0		
Temporary W	forks for Early Commencement of 8A Pilling Works	52	30-Mar-22	06-Jun-22	10-May-22	11-Jui-22	29	0.0					
Temp Traffic	Sizel Deck at KCR near Abutment 16		10 Nor 22-	0050022	10-1967-62			0.5					
1-1600A	8A - Traffic Deck - Mobilisation; site clearance	2	30-Mar-22	31-Mar-22	10-May-22	11-May-22	29				0		
1-1602	8A - Traffic Deck - Instal sheetpiles	6	01-Apr-22	08-Apr-22	12-May-22	18-May-22	29				-		
1-1604	8A - Traffic Deck - exc to 1st layer of strut; install 1st layer of strut.	6	09-Apr-22	19-Apr-22	19-May-22	25-May-22	29				-		
1-1606	8A - Traffic Dock - exc to 2nd layer of strut; install 2nd layer of strut	6	20-Apr 22	26-Apr-22	26-May-22	01-Jun-22	29						
1-1608	8A - Traffic Deck - construct RC footing (approx 45m3 cond)	8	27-Apr-22	06-May-22	02-Jun-22	11-3un-22	29						
1-1610	8A - Traffic Deck - erection of steel strut and sheetplie deck	24	07-May-22	06-Jun-22	13-Jun-22	11-364-22	29						
h 3.1 Bridge	e S1 Works	182	17-Nov-21.A	11-Jun-22	29-Jan-22	15-Jun-22	4	28.0					
The second s	, Pier / Abutment	98	17-Nov-21 A	25 Feb-22	29-Jan-22	02.Mar 22	4	7.0					
Abutment 1A-			30-Nov-21 A	25+Feb-22	29-Jan-22	02-Mar-22	4	4.0					
3.1-2328	S1 - Construct Abutment A-JA-S1		30-Nov-21 A	14-Reb-22	29-Jan-22	18-Feb-22	4	3.0					
3.1-2330	51 - A-1A-51 Install Permate Membrane and Bacifil		15-Feb-22	25-Feb-22	19-Feb-22	02-Mar 22	4	1.0					
Ner 1E-S1			17-Nov-21 A	28-Jan-22	26-Reb-22	62-Mar-22	22	3.0					
3.1-2332	51 - Prepare Pile Head for 1E-51 inside cofferdam		17-Nov-21 A			26-Feb-22		1.0					
3.1-2334	S1 - Construct Rer IE-S1 (2 Lifts)		31-Dec-21 A	28-Jan-22	26-feb-22	02.Mar-22	22	2.0					
	STH COURSES HE TOST (2 DID)		26-Feb-22	11-Jun-22	03-Mar-22	16-309-22	~~~	21.0					
il - Deck	£												
S1 - Span 1A-			26-Feb-22	11-300-22	03-Mar-22	16-Jun-22	•	10.0					
3.1-2358	51 - Span 1A-1E Falsework and formworks	30	26-Feb-22	D1-Apr-22	03-Mar-22	07-Apr-22	4	4.0					
3.1-2359	S1 - Span 1A-1E Initial Boarings	6	02-Apt-22	09-Apr-22	08-Apr-22	14-Apr-22	4	2,0					
3.1-2360	S1 - Span 1A-1E Web and Soffit	24	11-4pr-22	13-May-22	19-Apr-22	18-May-22	4	2.0					
3.1-2364	S1 - Span 1A-1E Deck Section	24	14-May-22	11-Jun-22	19-May-22	16-Jun-22	- 4	2.0					0
51 - Span 1E-	10	64	03-Mar-22	24-May-22	21-Mar-22	16-Jun-22	19	11.0					
3.1-2368	Completion of Pier/Portal 1D-SL / 59	0		03-Mar-22		21-Mar-22	15	2.0		2. T			
3.1-2372	51 - Span 1E-1D Falsework and formworks	25	04-Mar-22	01-Apr-22	26-Mar-22	28-Apr-22	19	4.0					
3.1-2374	51 - Span 1E-1D Install Bearings	6	02-Apr-22	09-Apr-22	29-Apr-22	06-May-22	19	2.0					
3.1-2376	S1 - Span 1E-1D Web and Soffit	15	11-Apr-22	30-Apr-22	07-May-22	25-May-22	19	1.0					
3.1-2378	\$1 - Span 1E-1D Deck Section	18	03-May-22	24-May-22	26-May-22	16-Jun-22	19	2.0				C	1
h_3.2 Bridge	e 52 Works	166	25-00-21 A	23-May-22	01-Mar-22	21-Apr-23	268	59.0					
2 - Piling Wo	orks	22	25-Jan-22	25-Feb-22	08- <i>km</i> -22	04-364-22	102	0.0					
Piling Works -	- ABUT A-2A	22	25-3an-22	25-Fab-22	08-Jun-22	84-364-22	102	0,0					
3.2-2502	52 - 2A Proof drilling & Pilestesting	22	25-Jan-22	25 Feb-22	08-Jun-22	04-34-22	102	0.0					
2 - Pile Caps,	, Pier / Abutment	166	25-0d-21 A	23-May-22	01-Mar-22	21-Apr-23	258	59.0					
Pier 2A		68	26-Peb-22	23-May-22	05-Jul-22	72-Sep-22	102	7,0			+		
													1
Adual Wos	Contributive Contral Kowloon Route - Kai Tak East (Month 33 Update) (Rev27 - CSD) Cool/Remarking Viok Remarking Wok					Project ID: KTE-WP27_M33 Baseline Layout KTE - 3 Months Rolling Programme Filter: TASK titles: 3 Months Rolling_1, KTE - Submission, Page 3 of 17	Date 25-Oct-21 20-Nov-21 25-Nov-21 25-Nov-21 25-Nov-21 24-Jon-22	Submit CSD Programme Rev 26	Checked Ar TW OC TW OC				

D	Activity Name	C geO	ur Skart	Finish	Laie Stat	Late Finish	Totel Float	TRA (Day)	January 33		February	March 35		April 38	-	May 37	_
3.2-2532	52 - Install sheetplic for pile cap 2A		5 26-Feb-22	03-Mar-22	05-34-22	09-34-22	102	1.00	26 02 09 16	20 30	16 13 2	27 06 13 20	27 03	10 17 2	94 01 0	8 15 2	2
3.2-2534	S2 - Excavation down to formation level C-2A		0 04-Ma-22	15-Ma-22	11-34-22	21-34-22	102	0.00									
3.2-2536	S2 - Prepare pfe head (2 nm) 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		5 26-Mar-22	13-Apr-22			102	2.00					1		1		
					02-Aug-22	18-Aug-22											
3.2-2540	S2 - Construct Pier P-2A (3 Lifts)		9 14-Apr-22	23-May-22	19-Aug-22	22-Sep-22	102	3.00					1	I I I			
Pier 28			4 21-Jan-22 A	28-Apr-22	30-3un-22	22-Sep-22	121	9.00									
3.2-2542	S2 - Install sheetpile for pile cap 28		6 21-Jan-22 A	31-Jan-22	30-Jun-22	07-Jul-22	121	1.00									
3.2-2544	S2 - Excavation down to formation level C-28	1	2 08-Feb-22	21-feb-22	08-Jui-22	21-Jul-22	121	2.00			0						
3.2-2546	S2 - Prepare pile head (2 nm) C-2B		9 22-Fab-22	03-Mar-22	22-34-22	01-Aug-22	121	1.00									
3.2-2548	S2 - Construct pile cap Ci28	1	5 04-Mar-22	21-Mai-22	02-Aug-22	18-Aug-22	121	2.00									
3.2-2550	S2 - Construct Pier P-28 (3 Life)	2	9 22-Mar-22	28-Apr-22	19-Aug-22	22-Sep-22	121	3.00									
Pier 2CL/2CR	p.	11	0 25-Od-21 A	01-Apr-22	29-Sep-22	30-Nov-22	197	11.00									
3.2-2560	S2 - Construct pile cap C-201.	1	0 25-08-21 A	20-Dec-21 A	28-0d-22	28-04-22		2.00									
3.2-2558	52 - Construct pile cap G-2CR	1	1 25 Oct 21 A	20-Dec-21 A	29-Sep-22	29-5ep-22		3.00									
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)	2	9 03-Jan-22 A	01-Apr-22	28-06-22	30-Nov-22	197	3.00	Birmine and a second			-					
3.2-2562	S2 - Construit Pier P-2OR (3 Lifts)	2	9 03-Jan-22 A	25-Feb-22	29-Sep-22	27-0e-22	197	3.00	Real Property lies and the	-							
Pier 2DL/2DR	1	8	2 25-Jan-22	13-May-22	15-Dec-22	21.401-23	276	13.00									
3.2-2566	S2 - Install sheetpile for pile cap 2DL/2DR		6 25-Jan-22	31-lan-22	15-Dec-22	21-Dec-22	261	1.00		_							
3.2-2568	S2 - Excavation down to formation level 2DL/2DR		1 08-Fab-22	19-6:b-22	22-060-22	06-3an-23	261	2.00									
3.2-2570	S2 - Prepare pile head (4 nrs) C-2DR & C-2DL		7 21-feb-22	11-Mar-22	07-Jan-23	02-Peb-23	261	1.00	hand and an house of the			n han han han han han han han han han ha			n panipa	en paralan	e
3.2-2572	S2 - Construct pile cap C-2DR		9 12-Mar-22	22-Ma-22	03-660-23	13-feb-23	261	1.00			E 10 10						
	and the second														- 1		
3.2-2574	S2 - Construct Pier P-2DR (3 L/hs)		9 23-Mar-22	29-Apr-22	15-Mar-23	21.4pr-23	286	3.00									
3.2-2576	S2 - Construct pile cap C-2DL		0 23-Mar-22	02-Apr-22	14-Feb-23	24-Fdb-23	261	2.00									
3.2-2578	S2 - Construit Pier P-2DL (3 Lifts)		9 04-Apr-22	13-May-22	25-Peb-23	30-Mar-23	261	3.00									
Pier 2EL/2ER			7 03-Nov-21 A	26-Apr-22	01-Mar-22	30-Mar-23	274	12.00									
3.2-2582	S2 - Excavation down to formation level 2EL/2ER	1	3 03-Nov-21 A	03-Dec-21 A	01-Mar-22	01-Mar-22		2.00									
3.2-2584	S2 - Prepare pile head (3 ms) C-2ER & C-2EL	1	3 04-Dec21 A	17-Dec-21 A	17-May-22	17-May-22		1.00									
3.2-2588	S2 - Construct pile cap C-2EL	1	2 24-Dec-21 A	09-Mar-22	10-Jun-22	23-Jun-22	84	2.00									
3.2-2596	S2 - Construct pile cap C-2ER.	3	2 24-Dec-21 A	23-Feb-22	17-May-22	09-Jun-22	84	2.00		-							
3.2-2590	S2 - Construct Pier P-2ER (2 Lifts)	2	0 24-Feb-22	18-Mar-22	02-Feb-23	24-filb-23	274	2.00			10000			and the second		1	
3.2-2592	52 - Construct Pier P-2EL (3 Uffs)	2	9 19-Ma-22	26-Apr-22	25-Feb-23	30-Mar-23	274	3.00				-					
Abutment 2F		10	1 01-Nov-21 A	20-Apr-22	01-Mar-22	20-0ct-22	150	7.00									
3.2-2596	S2 - Excavation down to formation level A-2F	1	1 01-Nov-21 A	19-Feb-22	01-Mar-22	19-Mar-22	24	2.00									
3.2-2598	S2 - Prepare pile head (3 ms) A-2F	1	3 21-Feb-22	07-Mar-22	21-Mar-22	04-Apr-22	24	1.00									
3.2-2500	S2 - Construit Abutment Base A-2F	1	4 08-Mar-22	23-Mar-22	06 Apr 22	25-Apr-22	24	2.00							111 - 111		
3.2-2602	S2 - Construct Abutment A-2F	2	0 24-Mar-22	20-Apr-22	26-Sep-22	20-06-22	150	2.00				1					
ich_3.3 Bridge	e S3 Works		7 25-lan-22	31-Hav-22	05-4-0-22	22-34-23	336	20.00									
53 - Piling Wo			7 25-3an-22	08-Feb-22		18-May-23	373	0.00									
as Pring Wo	u 1.2		er son de	Jernerde	11-100-12	10-01-23	303	0.00					t f		1		_
Cuttern Mile	•	Central Kowlo	on Rout	e - Kai '	Tak Eas	t (Mont	h 33 L	Jpdat	e) (Rev27 - CSD)	Projec Basel	t ID: KTE-WP27_M33 ne:	-0.6	D: 25-045- 25-Nov-	21 Monthly Programma 21 Submit CSD Program	mme Rev 25	TWY	DX DX
- Official Rem Remaining 1						ing Prog						ng Programme Rolling_1, KTE - Submission.	25 Nov 24-Dec 25-Dec 24-Jan	21 Monthly Programme 21 Submit CSD Programme 21 Monthly Programme	M01 mme Rev 26 M02	TW/ TW/ TW/	D X X X

	Activity Name	Ong Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day	33 26 02 09 16	February Nerr/t April Mey 14 16 36 37 23 30 06 13 26 27 03 10 17 14 05 31
iling Works - I	Pier P-3E-S3	7	25-Jan-22	08-560-22	11-May-23	18-May-23	373	0.00		
3.3-2806	53 - 38-53 Proof chilling & Piles texting	7	25-Jan-22	08-Rdb-22	11-May-23	18-May-23	373	0.00		
3 - Pile Caps, I	Pier / Abutment	90	09-Feb-22	31-May-22	85-Aug-22	22-Jul-23	335	20.00		
butment 3A-5	3	29	15-Feb-22	19-Mar-22	05-Aug-22	22-34-23	392	4.00		
3.3-2826	S3 - Construct Abutment A-3A-S3	19	15-Feb-22	(18-Mar-22	05-Aug-22	26-Aug-22	139	3.00		
3.3-2828	53 - A-3A-53 Instal Permeate Nembrane and Baddfil	10	09-Mar-22	19-Mar-22	12-344-23	22-34-23	392	1.00		
fer 3E-S3		41	09-Feb-22	78-Mar-22	19-May-23	08-34-23	373	9.00		
3.3-2830	53 - Prepare Pile Head for 3E-53	5	09-Feb-22	14-Feb-22	19-May-23	24-May-23	173	1.00		
3.3-2834	53 - 3E-53 Reinstatement of Slab of Kal Tak River	18	15-Feb-22	07-Mar-22	25-May-23	15-3un-23	373	6.00		
3.3-2832	S3 - Construct Pier 3E-S3 (2 Lifts)	18	08-Mar-22	28-Mar-22	16-Jun-23	08-34-23	373	2.00		
butment 3D-5			16-Mar-22	31-May-22	11-May-23	22-34-23	336	7.00		
3.3.2846	S3 - Prepare pile head (3 ns) A 30 63		16-Mar 22	30-Mar-22	11-May-23	25 May 23	336	1.00		a de la contra de la
3.3-2848	S3 - Construct Abutment Base A-3D-S3		31+10-22	28-Adr-22	27-May-23	20-Jun-23	136	3.00		
3.3-2850	53 - Construct Abutment A3D-53		29-Apr-22	1.22.23.22	State of State	11-30/23	336	2.00		
			XV1018200010	19-May-22	21-Jun-23					
.3-2852	53 - A-3D-SJ Instal Permeate Membrane and Baddfil		20-May-22	31-May-22	12-3:4-23	22-34-23	336	1.00		
1_3.4 Bridge			25-0d-21 A	31-May-22	19-Hdb-22	23-Dec25	1051	63.00		
+ - Piling Wor		124	26-0d:21 A	28-Mar-22	19-Feb-22	23-Dec 25	1100	16.00		
iling Works - I	Pier P-4K-S4-A	107	01-Nov-21 A	23-Mar-22	19-Fid>-22	23-Dec-25	1104	8.00		
3.4-3024	54 - Bared Piles for 4K-54-1/2 (1 nr)	24	01-Nov-21 A	26-Nov-21 A	19-Feb-22	19-Fdb-22		4.00		
3.4-3016	54 - Bored Piles for 4K-SH-A-1 (1 nr)	33	10-Dec-21 A	23-Feb-22	19-Feb-22	14-Mar-22	15	4.00		
3,4-3028	S4 - 4K54-A-2 Proof drilling & Piles testing	24	25-3an-22	28-Feb-22	11-Apr-22	13-May-22	58	0,00		
3.4-3020	54 - 4K-54-A-1 Proof drilling & Piles testing	24	24-Feb-22	23-Mar-22	26-Nov-25	23-Dec 25	1104	0.00		
fling Works - I	Pier P-4K-S4-B	318	114kov-21 A	28-Mar-22	19-Fdb-22	23-Dec-25	1100	8.00		
3.4-3026	SH - Bared Piles for 4K-54-6-2 (1 m)	25	11-Nov-21 A	14-Feb-22	19-Feb-22	04-Mar-22	16	4.00		
3.4-3018	54 - Boned Piles for 4K-54-8-1 (1 nr)	29	18-Dec-21 A	23-Feb-22	05-Mar-22	14-Mar-22	16	4.00		
3.4-3022	S4 - 4K-S4-8-1 Proof drilling & Pilesteeting	24	24-Feb-22	23-Mar-22	01-Apr-22	04-May-22	31	0.00		
3.4-3030	54 - 4K-54-8-1 Proof difling & Piles testing	24	01-Mar-22	28-Mar-22	25-Nov-25	23-Dec-25	1100	0.00		
fling Works - I	Pier P-4F-54	24	25-0d-21 A	28-0d-21 A	04-348-22	04-34-22		0.00		
3.4-3038	S4 - 4FS4 Proof drilling & Pilestesting	24	26-0d:21 A	28-0d-21 A	04-Jul-22	04-346-22		0.00		
	Pier / Abutment		25-0d-21 A	31-May-22	15-Mar-22	07-New-22	132	42.00		
ier 4K-S4-A-1			24-Feb-22	12-May-22	15-Mar-22	31-May-22	16	10.00		
3.4-3080A	54 - 4K-54-A modification of KTR cofferdam prior to Pile head trimming		24-Reb-22	01-Mar-22	15-Mar-22	19-Mar-22	16	1010	kana ing Panahana in	n han han han han han han han han han ha
3.4-3080	S4-Pepae Pie Head for 4KS4A1		02 Mar 22	29-Mar 22	21-Nar-22	21.40(22	16	1.00		
	a management of the second second					14664062				
3.4-3084	54 - 9K-54-A-1 Reinstatement of Slab of Kai Tak River		30-Man 22	04-Apr-22	22-Apr-22	27-Apr-22	16	6.00		
3.4-3082	S4 - Construct Pier 4K-S4-A-1 (3 Lifts)		06-Apr-22	12-May-22	28-Apr-22	31-May-22	16	3.00		
ler 4K-54-A-2			02-Mar-22	24 May-22	01-Apr-22	13-Jun-22	15	10.00		
3.4-3085	54 - Prepare Pile Head for 4K.54-X-2	24	02-Mar-22	29-Mar-22	01-Apr-22	04-May-22	26	1.00		
3.4-3090	S4 - 4K-54-A-2 Reinstatement of Slab of Kai Tak River	S	30-Mar-22	04-Apr-22	05-May-22	11-May-22	26	6.00		
Commit Minut	lone									Project ID: KTE-WP27_M33 Determine M33 TY
Adual Wok Offici Renal Renaring W	ining Work	Kowloo				t (Mont ng Prog) (Rev27 - CSD)	Baseline: 2044e-31 Submits Rolling Programme (W-20 TY) Layout KTE - 3 Months Rolling Programme (W-20 TY) Executive State 3 Months Rolling Programme (W-20 TY) Executive State 3 Months Rolling Programme (W-20 TY) Executive State 3 Months Rolling Programme (W-20 TY)
										Page 5 of 17 Pa

10	Activity Name	Ong Dur	Stat	Finish	Late Start	Late Finish	Total	TRA (Day	Jarcay	February Norch 34 35	701 May 36 31	
3.4-3088	54 - Construct Pier 4K-54-A-2 (3 Lifts)	77	21-Apr-22	24-May-22	12-May-22	13-3un-22	16	3.0	26 02 09 16	23 10 06 13 20 27 06 13 20 21	7 03 10 17 24 01 08 15	22
Pier 4K-S4-B-1			02-Mar-22	11-46#-22	07-May-22	12-Aug-32	99	7.0				
3.4-3092A	S4 - 4K-S4-B modification of KTR cofferdam prior to Pile head trimming	s	02-Mar 22	07-Mar-22	07 May 22	13 May 22	52					
3.4-3092	S4 - Prepare Pile Head for 4K-S4-B-1	24	08-Mar-22	04-Apr-22	14-May-22	11-Jun-22	52	1.0			7	
3.4-3096	S4 - 4K-S4-B-1 Reinstatement of Slab of Kai Tak River	5	06-Apr-22	11-Apr-22	09-Nug-22	12-Aug-22	99	6.0				
Pier 4K-54-8-2	L'en en e	29	08-Mar-22	11-Apr-22	14-May-22	24-Aug-22	109	7.0				
3.4-3098	S4 - Prepare Pile Head for 4K-S4-B-2	24	08-Mar-22	04.Apr-22	14 May 22	11-Jun-22	52	1.00			₩	
3.4-3102	54 - 4K-54-8-2 Reinstatement of Slab of Kai Tak River	5	66-Apr-22	11-Apr-22	19-Aug-22	24-Aug-22	109	6.0				
Pier 4E-S4		105	25-0ct-21 A	07-Mar-22	26-5ep-22	20-00-22	184	5.0				
3.4-3109	54 - Excevation down to formation level	6	25-0d-21 A	30-0d-21 A	26-Sep-22	26-5ep-22						
3.4-3108	S4 - Prepare Pile Head (1nr) for 4E-54	5	01-Nov-21 A	13-Nov-21 A	26-Sep-22	26-Sep-22		1.0				
3.4-3110	S4 - Construct Pile Cap 4E-54	17	15440v-21 A	26-Nov-21 A	26-Sep-22	26-Sep-22		2.0				
3.4-3112	54 - Construct Pier 46-54 (2 UIIto)		12-565-22	07-Mar-22	26-5ep-22	20-00-22	184	2.0				
Pier 4F-S4			14-May-22	31-May-22	21-0#22	07-Nov-22	132	3.0		and the second		
3,4-3114	54 - 4F64 ELS		14-May 22	18 May 22	21-0#22	25.00.22	132	1.0				
			and the second									
3.4-3116	S4 - Exervation Down to Formation Level 4F-S4		19-May-22	31-May-22	26-04-22	07-Nov-22	132	2.0				
Pier 4G-54			20-Apr-22	13-May-22	27-5ep-22	20-0d-22	132	0.0				
3.4-3132A	54 - Construct Pier 4G-54 (2 UPs)	19	20-Apr-22	13-May-22	27-Sep-22	20-0:5-22	132					
Pier 43-54		103	28-0d-21 A	07-Mar-22	04-348-22	26-348-22	113	5.0				
3.4-3137	54 - Excivation down to formation level	6	28-0d:21 A	10-Nov-21 A	04-34-22	04-Jul-22						
3.4-3135	54 - Prepare Pile Head (1 n/) for 43-54	5	11-Nov-21 A	16-Nov-21 A	04-Jul-22	01-Jul-22		1.00				
3.4-3140	54 - Construct Pile Cap 43-54	17	18-Nov-21 A	26-Nov-21 A	04-3ul-22	04-Jul-22		2.0				
3.4-3142	54 - Construct Pier 43-54 (2 Lifts)	20	12-Feb-22	07-Mar-22	04-3u6-22	26-Jul-22	113	2.0				
Sch_3.5 Bridge	S7 Works	167	30-00-21 A	24449/22	25-Jan-22	13-ADI-23	260	22.0			1 () () () () () () () () () (
S7 - Piling Wor	ks	114	04-Dec-21 A	30-Apr-22	25-3an-22	17-May-22	12	8.0				
Piling Works - I	Pier P-78	114	84-Dec 21 A	30-404-22	25-Jan-22	17-May-22	12	8.0				
3.5-3400-20	57 - Bored Piles for 78-57-2 Part 2 (CNCE-0045)	25	04-Dec 21 A	28-Dec-21 A	25-3an-22	25-3an-22		0.0				
3.5-3400-1	57 - Bored Piles for 78-57-1 Part 1 (upto -74.0mPD) (CNCE-0045)	55	30-Dec-21 A	25-Feb-22	25-3an-22	25-Feb-22	0	6.0				
3.5-3400-10	57 - Bored Piles for 78-57-1 Part 2 (CNCE-0045)		26-Feb-22	29-Mir-22	26-160-22	29-Mar-22	0	0.0				
3.5-3402	S7 - 78-57 Proof chilling & Piles testing		30-Mar-22	30-Aur-22	14-Apr-22	17-Mar-22	12	0.0				
3.53400-3	483 015 016 1997 (017) 70302 (1300) 70		2202222	0.0000000000000000000000000000000000000	-100 -1 00-70	Success.	0					
	57 - Demob Pling Plant and Equipment		304Mar-22	06-Apr-22	30-Mar-22	06-Apr-22		2.0				
AL 19450-5650	Pier / Abutment		30-0d-21 A	24+May-22	03+May-22	13-Apr-23	260	14.0				
Pier 78			03-May-22	24-May-22	03-May-22	24-May-22	0	3.00				
3.5-3415	57 - 78-57 ELS	5	03-May-22	07-May-22	03-May-22	07-May-22	0	1.00				
3.5-3416	S7 - Exavation down to formation level C-78-S7	4	10-May-22	13-May-22	10-May-22	13May-22	0	1,0				
3.5-3418	57 - Prepare pile head (2 rvs) C-78-S7	9	14-May 22	24-1439-22	14May-22	24-May-22	0	1.0				
Pier 7C		71	30-0ct-21 A	28-3an-22	06-Apr-23	13-Apr-23	347	3.0				
3.5-3424	S7 - Prepare pile head for 7C-57	7	30-0ct-21 A	10-Nov-21 A	06-4pr-23	06-Apr-23		1.0				
Current Milest	long								62	Project ID: KTE-WP27_M33	Data Povezo C	Jucked A
Adual Work	Central I	Kowlog	n Rout	e - Kai 1	Tak Eas	t (Mont	h 33 L	Jpdat	e) (Rev27 - CSD)	Baseline:	25-0d-21 Monthly Programme M30 TY1 20-Nov-21 Submit CSD Programme Rev 25 TY1	Y DC
-Critical Rement	und your					ing Prop				Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	25-Nov-21 Monthly Programme M31 TY1 24-Dec-21 Submit CSD Programme Ray 26 TY1	V DC
	(i)									Files, LASK mers, 3 Months Rolling_1, KLE - Submission.	25-Dex-21 Monthly Programme M32 TY1 24-Jan 22 Submit CSD Programme Rev 27 TY1	Y DC
										Page 6 of 17		

iD	Activity Name	Orig Dar	Start	Finish	Laie Stat	Late Finish	Tobs	TRA (Day	January	February 33	March 35	April		May
3.5-3425	Cl. Contract do no C2C C2		10.000.01.4	2.0-21.1	06.400.22	05.444.22	Float	_	26 02 09 16	23 30 66 13 20 27 06	13 20 27	03 10 17	24 01	08 15 22
	57 - Construct pile cap C-70-57			12-Dec-21 A	06-Apr-23	06-Apr-23								
3.5-3426	S7 - Construct Pier P-7C-57 (2 Lifts)		1900.000000	28-Jan-22	06-Apr-23	13-Apr-23	347	2.00						1
Abutment 7D		120	05-Nov-21 A	23-Mar-22	13-5ep-22	21-Jan-23	247	8.00						
3.5-3428	S7 - Exavation down to formation level A-7D-57	7	05-Nov-21 A 1	6-Nov-21 A	13-Sep-22	13-Sep-22		1.00						
3.5-3430	S7 - Prepare pile head (3 nrs) A-7D-S7	13	15-Nov-21 A	27-Jan-22	29-Nov-22	01-Dec-22	247	1.00		=				
3.5-3432	57 - Construct Abultment Base A-7D-57	19	28-Jan-22	25-Feb-22	02-Dec-22	23-Dec-22	247	3.00						
3.5-3434	S7 - Construct Abutment A-7D-S7	22	26-Feb-22	23-Mar-22	24-Dec-22	21-3an-23	247	3.00						
Sch_3.6 Bridg	e S8 Works	29	30-Mar-22	07-May-22	19-34-23	29-5ep-23	414	6.00						
	, Pier / Abutment	29		07-May-22	19-hi-23	29-Sep-23	414	6.00						
Pier 8C				07-May-22	19-346-23	21 Aug-23	380	3.00						
						1.00								
3.6-3634	S8 - Construct Pier P-9C-58 (3 Uifs)			07-May-22	19-Jul-23	21-Aug-23	380	3.00						
Abutment 8D		21	30-Mar-22	27-Apr-22	06-Sep-23	29-Sep-23	422	3.00						
3.6-3642	S8 - Construct Abutment A-6D-58	21	30-Mar-22	27-Apr-22	05-Sep-23	29-5ep-23	422	3.00			-	_		
Sch_3.7 Bridg	e S9 Worles	180	25 Oct 21 A	09-Jun-22	09-Feb-22	21-308-22	35	59.00						
S9 - Piling Wo	arks	23	25-Jan-22	26-Feb-22	09-Feb-22	07-Mar-22	.7	0.00						
Piling Works	Pier P-9A	23	25-Jan-22	25-Feb-22	09-Feb-22	07-Mar-22	7	0.00						
3.7-3802	S9 - 9A Proof drilling & Pilestesting	23	25-Jan-22	26-Feb-22	09-Feb-22	07-Mar-22	7	0.00						
59 - Pile Cans	, Pier / Abutment	180	25-00-21 A	09-Jun-22	22-840-22	21-346-22	35	47.00						
Pier 9A	, rid / reducided			29-Mar-22	07-Mar-22	07-Apr-22	-	8.00						
							1		1 100					
3.7-3822	S9 - Install sheetpile for pile cap 94,		03-Jan-22 A 0			07-Mar-22		1.00						
3.7-3824	S9 - Excavation down to formation level C-94	8	07-Jan-22 A 2	8-Jan-22 A	07-Ma-22	07-Mar-22		2.00						
3.7-3826	59 - Prepare pile head (1nr) C-9A-59	5	29-Jan-22 A	28-60-22	07-Mar-22	07-Mar-22	7	1.00						
3.7-3828	59 - Construct pile cap C-9N-59	8	28-feb-22	08-Mar-22	08-Mar-22	16-Mar-22	7	2.00						
3.7-3830	59 - Construit Pier P-9A-59 (2 Lifts)	18	09-Mar-22	29-Mar-22	17-Mar-22	07-Apr-22	7	2.00						8 B
Pier 98		45	23-Nov-21 A	06-Mar-22	22-Feb-22	21-May-22	58	8.00						
3.7-3832	S9 - Install sheetpile for pile cap SB	10	23-Nov-21 A 2	6-Nov-21 A	22-680-22	22-Feb-22		1.00	Frank and starting from the					
3.7-3834	S9 - Excavation down to formation level C-98	11	27-Nov-21 A 1	4-3an-22 A	11-Apr-22	11-Apr-22		2.00						
3.7-3836	S9 - Prepare pile head (2nis) C-98-59		15-3an-22 A 2		11-Apr-22	11-Apr-22		1.00						
3.7-3838							58							
	S9 - Construct pile cap C-98-59		25-Jan-22 A		11-Apr-22	26-Apr-22		2.00						
3.7-3840	S9 - Construct Pier P-98-S9 (2 Lifts)			08-Mar-22	27-Apr-22	21-May-22	58	2.00						
Pier 9C		59	01-Dec21 A	23-Feb-22	30-May-22	22-3un-22	95	8.00						
3.7-3942	S9 - Install sheetpile for pile cap 9C	10	01-Dec-21 A 0	14-Dec-21 A	30-May-22	30-May-22		1.00						
3,7-3844	S9 - Excavation down to formation level C-9C	11	06-Dec 21 A 2	4-Dec-21 A	30-May-22	30-May-22		2.00						
3.7-3846	59 - Prepare pile head (2nvs) C9C-59	13	28-Dec-21 A 0	14-Jan-22 A	30-May-22	30-May-22		1.00						
3.7-3848	59 - Construct pile cap C-9C-59	15	05-Jan-22 A 1	4-Jan-22 A	30-May-22	30-May-22		2.00						
3.7-3850	59 - Construit Pler P-9C-59 (2 Lifts)	20	25-Jan-22	23-Feb-22	30-May-22	22-3.m-22	95	2.00						milionarea
Pier 9D	CONTRACTOR (CONTRACTOR)		25-08-21 A		22-66-22	21-36-22	65	10.00						
3.7-3864	S9 - Construct pile cap C-90-A-S9 (L)		25-00-21 A				~3	1.00						
3,7-3954	29 - Construct bie cap C-90-9-59 (L)	,	2500-21 A	29-00-21 A	21460-22	22460-22		1.00					1	i i
Current Mit											1	Date	Rovition	Oreded
Actual Viol		Central Kowloc	on Route	- Kai T	ak Eas	t (Monti	h 33 I	Jodat	e) (Rev27 - CSD)	Project ID: KTE-WP27_M33 Baseline:		Oct-21 Monthly Program	nmu M30 Sgisintine Rev 25	1117 D
	wining Work					ing Prog			-,	Layout: KTE - 3 Months Rolling Programme	25	Nov-21 Monthly Program	nme M81 xoamme Ray 26	TYY D
Remaining	Nex									Filter: TASK filters: 3 Months Rolling_1, KTE - Sub	mission. 21	Deo 21 Monthly Program	nme MB2	TW O
										Page 7 of 17	24	Jan 22 Submit CSD Pr	ogramme Rev 27	TYY: D

yiD	Activity Name		ig Dor Start	Finist	Late Start	Late Finish	Total Picat	TRA (Day	January 33 26 02 08 16	February Warch 34 36 23 30 06 13 20 27 06 13 20	April Way 36 37 27 03 10 17 24 01 08 15 22
3.7-3868A	S9 - Preparation for Pier Construction - 90 (2 nos)		35 22-Dec-2	1.A 10-Feb-22	22-401-22	03-May-22	65	2,00			
3.7-3870	59 - Construct Pier P-9D-8-59 (3 Lifts) (R)		29 11-Feb-	22 16-Mar-22	04469/22	08-Jun-22	65	3.00			
3.7-3868	59 - Construct Plar P-9D-A-59 (2 Lifts) (L)		20 17-Mar	22 09-Apr-22	09-Jun-22	02-Jul-22	65	2.00			
3.7-3876	59 - Construct Pier Portal P-9D		16 11-Apr	22 03-May-22	04-346-22	21-Jul-22	65	2.00			
Abutment 4H/	/9E		93 14-Feb	22 (09-301-22	22-Feb-22	07-34-22	23	13.00			
3.7-3872	59 - Enstall sheetpile for pile cap 4H/9E		8 14-Feb-	22 22-Feb-22	22-Feb-22	02-Mar-22	7	1.00			
3.7-3874	59 - Extavation down to formation level A-4H/9E		13 23-Feb	22 09-Mar-22	03-Mar-22	17-Mar-22	7	2.00			
3.7-3878	59 - Prepare pile head (6nis) C-8H/9H		14 10-Mar	22 25-Mar-22	18-Mar-22	02-Apr-22	7	2.00	2		• • • • • • • • • • • • • • • • • • •
3.7-3890	59 - Construct Abultment Base A-4HJ/9E		26 26-Mar	22 29-Apr-22	04-Apr-22	10-May-22	7	4.00			G
3.7-3892	59 - Construct Abultment A-4H/9E		32 30-Apr	22 09-Jun-22	30-May-22	07-3:#-22	23	4,00			
59 - Deck			49 30-Mar	2 01-3un-22	08-4pr-22	16-34-22	37	12.00			
59 - Span 1D-	9A (Stage 1)		40 30 Mar	22 01-Jun-22	08-Apr-22	10-3un-22	7	6.00			
3.7-3884	59 - Span 1D-9A Fakework and formworks		13 30-Man	22 14-Apr-22	08-Apr-22	26-Apr-22	7	2.00			
3.7-3896	59 - Span 1D-9A Install Beatings		6 19-Apr	26 2500 2555	27-Apr-22	04-May-22	7	2.00			
3.7-3688	59 - Span 1D-9A Web and Sofft		9 26-Apr		05-Mm-22	16-May-32	7	1.00			
3.7-3890	59 - Span 1D-9A Deck Section		9 07-May		17-May-22	26-May-22		1.00			
3.7-3892							1				
	59 - Span 1D-9A Post-tensioning (Stage 1)		12 19 May		27-May 22	16-Jun-22	1	0.00			
59 - Span 9A-			16 19-Apr		23May 22	10-3un-22	27	3.00			
3.7-3894	S9 - Span SA-98 Falsework and formworks		16 19-Apr	22 07-May-22	23-May-22	10-Jun-22	27	3.00			
59 - Span 98-			20 10-May	22 01-Jun-22	23-Jun-22	16-Jul-22	37	3.00			
3.7-3902	S9 - Span 98-9C Falsework and formworks		20 10-May	22 01-Jun-22	23-Jun-22	16-30-22	37	3.00			
Sch_3.8 Bridge	e 51/59 Works		223 16/5ep/	LA 01-Jun-22	27-Jan-22	02-Sep-22	78	48.00	· · · · · · · · · · · · · · · · · · ·		
S1/S9 - Piling	Works		24 25-381-	22 28-Feb-22	21-Rdp-22	06-Apr-22	31	3.00			
Piling Works -	Pler P-1F/7A		24 25-Jan-	22 28-Feb-22	09-Mar-22	06-Apr-22	31	0.00			
3.8-4010	S1/S9 - 1F/7A Proof drilling & Piles testing		24 25-Jan-	22 28-565-22	09-Mar-22	06-Apr-22	31	0.00			
Piling Works -	ABUT A-1G		2 25-Jan-	22 26-Jan+22	21-Feb-22	22-Feb-22	17	3.00			
3.84014	S1/59 - 1G Pitoof drilling & Piles testing		2 25-3an-	22 26-3an-22	21-Feb-22	22-Feb-22	17	3.00			
51/59 - Pile C	aps, Pier / Abutment		174 13-Nov-	1 A 01.Jun-22	27-Jan-22	02-Sap-32	78	35.00	8		disconduction and an one print a second s
Pier 1D			103 13-Nov-	1 A 03-Mar-22	27-Jan-22	07-Mar-22	3	8.00			
3.8-4016	S1/S9 - Instal sheetpile for pile cap 1D-B		5 13-Nov-1	1 A 18-Nov-21 /	27-3an-22	27-3an-22		1.00			
3.8-4018	S1/S9 - Excavation down to formation level C-1D4	8-51/59		1A 06-Dec-21 A		27-Jan-22		1.00			
3.84020	51/59 - Prepare pile head (1rr) C-10-8-51/59	nextwo U		1.A 22-Dec-21.A		27-3an-22		1.00			
3.84021	S1/59 - Construct pile rap C 1D B 51/59		12 23 0002		27-Jan-22	27.3an-22	3				
3.8-4025	51/59 - Construct Pier P-1D-B-51/59 (1 Uft)		6 25-Jan-		28-Jan-22	10-Feb-22	3	2.00			
3.8-4025	S1/59 - Construct Pertal P-10-51/59		21 08-feb-		11-Feb-22	07-Mar-22	3	3.00			
	21/32 - YOURINE HOURI H-115-21/24										
Pier 1E			74 08-Feb-		11-Feb-22	14-May-22	3	10.00			
3.8-4036	S1/59 - Instal sheetpile for pile cap 1E		6 08-Feb-		11-Feb-22	17-Feb-22	3	1.00			
3.8-4038	S1/59 - Escavation down to formation level C-1E-5	\$1/59	14 15-Feb-	22 62-Mar-22	18-Reb-22	05-Mar-22	3	2.00			
	1								4 of 1991 of 199		Data Revisors Oxded App
Connert Mile Actual Work Critical Rem Remaining 1	k alahing Work	Central Kow		ute - Kai hree Mo					e) (Rev27 - CSD)	Proyet D: KTE-VH27_M33 Baseline: Layout: KTE - 3 Months Rolling Programme Filter: TASK filter x: 3 Months Rolling_1, KTE - Submission. Page 8 of 17	25:0527 Marthy Programme Mail TY DC 20:Non-41 Solen (CD) Programme Mail TYY DC 25:Non-27 Monthly Programme Mail TYY DC 26:Non-26 Solen (CD) Programme Mail TYY DC 26:Non-27 Solen (CD) Programme Mail TYY DC 26:Non-17 Monthly Programme Mail TYY DC 26:Non-17 Monthly Programme Mail TYY DC 29:Non-17 Monthly Programme Mail TYY DC 29:Non-17 Monthly Programme Mail TYY DC

	100	Staff	Finish	Late Start	Late Finish	Total Float	TRA (Day)	33	Feb 3	4	16 35		38	
S1/59 - Prepare pile head (2nrs) C-1E-S1/59	9	03-#1ar-22	12-Mar-22	07-Mar-22	16-Nar-22	3	1,00	02 89 16	23 10 06	13 20 27	06 13 21	27 00	10 17	24 01
S1/S9 - Construct plin cap C-1E-S1/S9	22	14-Mar-22	05-Apr-22	17-Mar-22	12-Apr-22	3	3.00				-			
S1/59 - Construct Pier P-1E-S1/59	23	69-Apr-22	11-May-22	13-Apr-22	14 May 22	3	3.00							
	43	67-Apr-22	01-Jun-22	07-4or-22	01-Jun-22	D	7.00							
\$1/99 - Instal sheetnik for nie on 16/24	6	07-Acr-22	13-005-22	07-401-22	13-405-72	0	1.00					-		
														_
												1		
						1		1 1				1 1		8
51/59 - Construct pile cap C-15/7A-51/59	50	10-May-22	01-Jun-22	10-May-22	01-Jun-22	0	3.00							
	81	27-389-22	14-May-22	23-Rdb-22	02-5ep-22	93	10.00							
51/59 - Excavation down to formation level A-1G-51/59	16	27-Jan-22	21-Feb-22	23-Peb-22	12-Mar-22	17	2.00		Parties in the local data					
S1/S9 - Prepare pile head (4rms) C-1G-S1/S9	16	22 Feb-22	11-Mar-22	14-Mar-22	31-Mar-22	17	1.00				-			
S1/S9 - Construct Abutment Base A-1G-S1/S9	18	12-Mar-22	01-Apr-22	01- 4 pr-22	26-Apr-22	17	3.00		11 I I		0			
S1/S9 - Construct Abutment A-1G-S1/S9	31	02-Apr-22	14-May-22	29-348-22	02-Sep-22	93	4.00					-		-
	217	16-5ep-21.A	25 May-22	14May-22	28May-22	3	10.00							
-1F/1E-7A (Stage 1)				14-May-22	28-May-22	3	10.00							
						83								
(WB)(2-W)							0.00							
works (WB)(2-W)			in an											
CKRW Works	150	25-00-21 A	06Jun-22	05-Mar 22	23-Dec25	1047	34,00							
Vorks	73	29 Nov-21 A	28-Feb-22	05-Mar-22	11-34-22	105	4.00							
fer P-K5-CKRW	73	29-Nov-21 A	28-Feb-22	05-Mar-22	11-Jul-22	105	4.00					1		
ORW - Bored Piles for KS-ORW-1 (1 nt)	36	29-Nov-21 A	17-Dec-21 A	05-Mar-22	05-Nar-22		4.00							
OKRW - KS-O/RW-1 Proof dnling & Piles testing	24	25-Jan-22	28-Feb-22	14-May-22	11-Jun-22	82	0.00			50				
OKRW - KS-CKRW-2 Proof drilling & Piles testing	24	25-Jan-22	28-Feb-22	13-Jun-22	11-),#-22	106	0.00							
os, Pier / Abutment	126	25-0d-21 A	06-Jun-22	13-Jun-22	23-Dec-25	1047	30.00							
					23-Dec-25	1089	7.00							
					23-Dec-25		3.00		10 10 10			1.1		
						120								
													T.	
1		100320000			4000000000									
ORRW - Prepare Pile Head for K5-ORW/-L	24	06-Apr-22	07-May-22	13-Jun-22	11-Jui-22	52	1.00					-	1 1 1	
OKRW - KS-DKRW-1 Reinstatement of Slab of Kai Tak River	5	10-May-22	14-May-22	12-346-22	16-Jul-22	52	6.00							
ORRW - Construct Pier KS-ORRW-1 (2 Life)	18	16-May-22	06-Jun-22	18-34-22	06-Aug-22	52	2.00							
2	29	06-Apr-22	14-May-22	05-304-22	05-Aug-22	70	7.00					10.10		
OSRW - Prepare Pile Head for K5-OSRW-2	24	06-Apr-22	07-May-22	05-30422	01-Aug-22	70	1,00							
OKRW - K5-CKRW-2 Reinstatement of Slab of Kai Tak River	5	10-May 22	14-May-22	02-Aug-22	05-Aug-22	70	6.00		1 1 1					
-CKRW	58	16-Mar-22	28-May-22	01-Aug-22	10-00-22	110	7.00							
OGRW - Prepare pile head (4nns) A-K4-CKRW	17	16-Mar-22	04-Apr-22	01-Aug-22	19-Aug-22	110	1.00					E E		
	S1/59 - Prevate pile head (4m) C-IG-S1/59 S1/59 - Forulat Rutimet Rate A-IC-S1/59 S1/59 - Forulat Rutimet A-IC-S1/59 S1/59 - Conduct Rutimet A-IC-S1/59 S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) Night worke S1/50 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/50 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/59 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/50 - Som IE 1-IF/7A data politi - temp looking (Val FAA Road) S1/59 - Som IE 1-IF/7A Road Road Road Road Road Road Road Road	S1(29) - Install sharpple for pile op 11/77A 0 S1(29) - Install sharpple for pile op 11/77A 12 S1(29) - Construct pile op C1/677A 51 S1(29) - Construct pile op C1/677A 200 S1(29) - Construct pile op C1/677A 51 S1(29) - Construct Abutment for formution lovel A-1G-S1/59 110 S1/29 - Construct Abutment A-1G-S1/59 311 S1/29 - Construct Abutment A-1G-S1/59 311 S1/29 - Construct Abutment A-1G-S1/59 311 S1/29 - Span 1E - 11/77A dated pottal - temp fooding (54 FL/6 Road) Night works (16/6 C/20) 312 S1/29 - Span 1E - 11/77A flavitation Stel Pottal (over K4 FL/6 Road) Night works (16/6 C/20) 312 S1/29 - Span 1E - 11/77A flavitation Stel Pottal (over K4 FL/6 Road) 312 S1/29 - Span 1E - 11/77A flavitation Stel Pottal (over K4 FL/6 Road) 312 S1/29 - Span 1E - 11/77A flavitation Stel Pottal (over K4 FL/6 Road) 312 S1/29 - Span 1E - 11/77A flavitation Stel Pottal (over K4 FL/6 Road) 312	SLS9 - Exerution down to fermidon level JI/7A-SL/S9 112 14-Ar-22 SLS9 - Exerution down to fermidon level JI/7A-SL/S9 128 1944-22 SLS9 - Constant pile op C-15/7A-SL/S9 128 1944-22 SLS9 - Exerution down to fermidon level A-1G-SL/S9 128 27-3m-22 SL/S9 - Exerution down to fermidon level A-1G-SL/S9 128 27-3m-22 SL/S9 - Exerution down to fermidon level A-1G-SL/S9 128 22-460-22 SL/S9 - Constant A-Lide-SL/S9 138 12-497-22 SL/S9 - Constant A-Lide-SL/S9 130 12-497-22 SL/S9 - Span LE 1-197A- Stade posts - terro fooding (Vol FLA Road) Night words 12 12-497-22 SL/S9 - Span LE 1-197A- Stade posts - terro fooding (Vol FLA Road) Night words 12 12-497-22 SL/S9 - Span LE 1-197A- Stade posts - terro fooding Vol FLA Road) Night words 12 12-497-22 SL/S9 - Span LE 1-197A- Stade posts - terro fooding Vol FLA Road) Night words 12 12-497-22 SL/S9 - Span	Image: space	Image: Section of the plence print/A Image: Section of the plence plence print/A Image: Section of	Image: Section of the sectin of the section of the section	Image: Section in the sequence of the section in the sectin in the sectin	Sites Sites <th< th=""><td>Signer shake showed in formation in weight showed in the showed in th</td><td>Sign-bandwarder brute-og-107ASing-Sing</td><td>Non-standard<!--</td--><td>102-3-andaquinely-leg with the second seco</td><td>101-matchanet herein prink 101 1402</td><td>101 1040</td></td></th<>	Signer shake showed in formation in weight showed in the showed in th	Sign-bandwarder brute-og-107ASing-Sing	Non-standard </td <td>102-3-andaquinely-leg with the second seco</td> <td>101-matchanet herein prink 101 1402</td> <td>101 1040</td>	102-3-andaquinely-leg with the second seco	101-matchanet herein prink 101 1402	101 1040

D	Activity Name	Orig Dur	Slat	Finish	Late Stat	Late Finish	Total Fical	TRA (Day)	January 33 26 (2) 09 15	7 etmay 34 23 50 06 43 50 27 44	March 35 13 20 27	April 36	21 21 22	1/89 3/
3,9-4270	CKRW - Construct Abutment Base A-K4-CKRW	19	06-Apr-22	30-Apr-22	20-Aug-22	10-Sep-22	110	3.00	au oz ya 10		10 20 21			12 22
3.9-4272	CKRW - Construct Abutment A-K4-O/RW	22	03-May-22	28-Miny-22	13-Sep-22	10-Oct-22	\$10	3.00						
ch_4.2 Slip Ro	oad Underpass 53	235	04Aug-21A	25 May 22	09-Feb-22	11-Feb-23	211	24.00						
53 - Not relate	ed to TTA (Ramp W4-W1)	18	11-Apr-22	05-May-22	16-Jan-23	11-Feb-23	227	6.00						
ELS for Underp	pass (Ramp)	18	11-Apr-22	05-May-22	16-3m-23	11-Feb-23	227	6.00					8	
4-4504	S3 - Install collection	18	11-Apr-22	05-May-22	16-Jan-23	11-ftd-23	227	6.00						
53 - TTA Stage	e 1 (Ramp W8-W5 & Box Section Bay B1)	187	04-Aug-21 A	23-Mar-22	09-Feb-22	06-May-22	33	18.00					*****	
RC Structures		145	04-Aug-21 A	16-Feb-22	09-Feb-22	28-Mar-22	33	11.00						
Box Section		66	30 Fact 21 A	18.846-22	11-82-22	JLMar 23		7.00						
Bay B1 (L=2	10m) Pump Sump	60	30-0d-21 A	16-Fab-22	11-Mar-22	26 Mar 22	33	7.00						
4-4569	53-B1 - Construct Base Slab (with Plant Room)	30	30-0d-21 A	03-Dec-21 A	11-Mar-22	11-Mar-22								
4-4570	53-61 - Consturt: RC Wall & Sump Pump wall & stab upto +2.916		25-Nor-21 A		11-Mar-22	11-Mar-22		4.00						
4-4574	S3-B1 - Constunt Top Skib		23-Dec-21 A	16-64-22	11-Mar-22	26-Mar-22	33	3.00						
Ramon Witness	10.00-00-000000000000000000000000000000		La Gazal A	1000 and	10-140-22	2010022		1.00						
Bay W5		10	05-0d-21 A	14-Feb-22	21-Feb-22	21-Feb-22	7	0.00						
4-4549	53-W5 - Construct Side Wall (final pour)		05-0d-21 A	14-Feb-22	21-Reb-22	21-Feb-22	7	0.00						
	22-M2 - Children 200 June (mile (con))	30			09-Feb-22	21 Feb 22	7	2.00				in the second		
Bay W6			04-Aug-21 A				1							
4-1542	S3-W6 - Construct Side Wall		04-Aug-21 A		09-Rdb-22	21-Feb-22	7	2.00						
Bay W8			25-0d-21 A			28-Mar-22		2,00						
4-4578	S3-W8 - Construct Side Wall		25-0d-21 A			28-Mar-22		2.00						
Miscellaneous		30	25-Dec/21 A	23-Mar-22	28-Mar-22	06-May-22	33	7.00				1.1.1.1.1		
4-4584	53 - Ramp W5-W8 Badefiling upto GL	12	25-0e021 A	23.Mor22	28-Mar-22	06-May-22	33	2.00						
4-4576	53 - Box Section B1 Baddfilling upto GL	30	17-Feb-22	23-Ner-22	28-Mar-22	06-May-22	33	2.00						
4-4585	S3 - Temp shell desk bridge over the Ramp W7-W8	21	17#eb-22	12-Nar-22	08-Apr-22	06-May-22	42	3.00						
S3 - TTA Stage	e 2 (Box Section Bay 2 & 3)	30	19-Apr-22	25-May-22	07-Nay-22	13-Jun-22	.15	0.00				1 1 1 1		
TTA Advance	Works	26	19-Apr-22	20-May-22	07-May-22	68-Jun-22	15	0.00						
4-4586	TTA - Implement TTA Stage 2	0	19-Apr-22		07-May-22		15							
4-4588	TTA - TTA Stage 2, Trial Run	2	19 Apr 22	20-Apr-22	07-May-22	10-May-22	15	0.00						
4-4590	TTA - Trial Pits / Site investigation	6	21-401-22	27 Apr 22	11-May-22	17+Yay-22	15	0.00				-	-	
4-4592	TTA - Utilities diversion / protection	18	28-Apr-22	20-May-22	18-May-22	08-3un-22	15	0.00						-
ELS for Underp	pass	4	21-May-22	25-May-22	09-Jun-22	13-Jun-22	15	0.00						
4-4594	S3 - Mobilisation	4	21-May-22	25-May-22	09-Jun-22	13-Jun-22	15	0.00		····		+		
ich 54 Retaini	ing Walls and At-grade Road Works		25-Aug-21 A		18-Feb-22	11-540-33	359	123.00						
Retaining Wall			25-0d-21 A		18-Feb-22	11-5ep-23	359	111.00						
RW-S1-a			23-May 22	30-May-22	04-500-23	11.500-23	380	1.00						
5A-5000	RW-51-a - Excavation down to formation level +2.2/+6.0		23-May-22	30 May 22	04-5ep-23	11-Sep-23	380	1.00						_
	The second	100	25-3en-22					13.00						
RW-51				08-Jun-22	27-Apr-22	06-5ep-22	76	13.00						
FirstAlming Wa			38-21		2.46-0	10000	1.102	11.00	T T T T			1 1 1 1		N D
Current Miles	atrop -									0.1.100 MTC 10003 1000		Dades	Revision	Checked Ap
Adual Work	Cent	ral Kowloo	on Rout	e - Kai ⁻	Tak Eas	t (Mont	h 33 l	Update	(Rev27 - CSD)	Project ID: KTE-WP27_M33 Baseline:		25-Oct-21 Monthly-Programm 20-Nov-21 Submit CSD Programm	pammo Rav 25	TW DC TW DC
-Citcal Remaining V	aining Work					ing Proc			,	Layout: KTE - 3 Months Rolling Programme		25-Nov-21 Monthly Program 24-Dec 21 Submit CSD Prog	me MS1	TW DC
- second A										Filter: TASK filters: 3 Months Rolling_1, KTE - Sub	missión.	25-Deo-21 Monthly Program 24-Jon-22 Submit CSD Prog	me MS2	TYY DC TYY DC
										Page 10 of 17		and a summer cap Prog	Mining PRIV 21	

	Activity Name	Orig Dar	Start	Finish	Late Start	Lale Finish	Float.	TRA (Dey)	33	2 0 1	34 35 06 13 20 27 06 13 1	20 27 00 10 17 24 01 00 15 27
5A-5037	RW-SL - Plate Load Test and Report (P2)	5	25-Jan-22	29-Jan-22	08-Aug-22	12-Aug-22	153	1.00				
5A-5024	RW-S1 - Excavation down to formation level +2.9/+4.0	10	30-Mar-22	11-Apr-22	29-Aug-22	31-Aug-22	115	2.00				
SA-5035	RWS1 - Excavation down to formation level + 2,8	24	02-Apr-22	05 May-22	27 Apr 22	26 May 22	17	2.00				
5A-5028	RW-S1 - Plate Load Test and Report (P1)	5	12-Apr-22	20-Apr-22	01-560-22	06-Sep-22	115	2.00		-		
5A-5051	RV#S1 + Plate Load Test and Report (P3)	4	23-Apr-22	27-Apr-22	16-May-22	19-May-22	17	0.00				
SA-5052	RW-SL - Construct Base Slab (Bay 2/1)	14	28-Apr-22	16-May-22	20-May-22	06-Jun-22	17	2.00				
SA-5048	RW-S1 - Construct Base Slab (Bay 3)	7	17-May-22	24-May-22	22-Jun-22	29-Jun-22	30	1.00				
SA-5056	RW-S1 - Construct Wall (Bay 2/1)	19	17-May-22	68-Jun-22	07-Jun-22	28-Jun-22	17	3.00				
W-S2		196	25-00-21 A	62-Jun-22	26-Apr-22	20-06-22	115	12.00	- data da unha set			
5A-5098A	RW/S2 - Replacement of formation for Bay 7 (PMI-330)			06-Nov-21 A		22-Sep-22						
5A-50988	RW-S2 - Plate Load Test and Report (P1) - after replacement of formation			11-Nov-21-A		22-Sep-22						
SA/5100	(PHI-330) RW/S2 - Construct Base Slab (Bay 7)			23-Nov-21 A		22.5cp.22	_	1.00		2.4		
SA-5098C	RW-S2 - Replacement of formation for Bay 6 (PMI-330)		25-Nov-21 A			22-5ep-22		1.00				
					22-5ep-22	102202020				1		
SA-5102	RWFS2 - Construct Base Slab (Bay 6)		14-0ec-21 A			22-5ep-22		1.00				
5A-5104	RW-S2 - Construct Wall (Bay 7)		25-Jan-22	29-Jan-22	10-Od-22	14-00-22	204	1.00				
5A-5113	RW-S2 - Plate Load Test and Report (P2)	5	25-Jan-22	29-Jan-22	04-3un-22	09-Jun-22	99	1.00		-		
5A-5108	RW-S2 - Construct Wall (Bay 6)	5	31-Jan-22	11-Feb-22	15Ot/22	20-00-22	204	1.00		1	-	
SA-5103	RW-S2 - Exceverition down to formation level + 3.0 (at Bay 0)	12	24-Mar-22	07-Apr-22	26-Apr-22	11-May-22	24					
5A/5105	RW-S2 - Plate Load Test and Report (P3)	.4	08-Apr-22	12-Apr-22	12-May-22	16-May-22	24					-
SA/5424	RW-S2 - Construct Base Slab (Bay 0)	20	13-Apr-22	11-May-22	17-May-22	09-Jun-22	24	2.00				
SA-5426	RW-52 - Construct Wall (Bay 0) (2 Lifts)	24	04-May-22	01-Jun-22	27-Jun-22	25-Jul-22	44	2.00				
SA-5114	RW-S2 - Construct Base Slab (Bay 2/1)	19	12-May-22	02-Jun-22	10-Jun-22	02-34-22	24	3.00				
W-54		183	25-0d-21 A	13-Jun-22	29-Mar-22	13-Jan-23	177	11.00				
5A-5158	RW-S4 - Construct Base Slab (Bay 2)	14	25-0d-21 A	12-Nov-21 A	01-Dec-22	01-Dec-22		1.00				
SA-5156	RW-S4 - Construct Wall (Bay 3) ind. TCSS dust	16	25-0d-21 A	11-Nov-21 A	05-May-22	06-May-22		1.60				
5A/5158A	RWS4 - Construct Wall (Bay 2) ind. TCSS duct;	21	25-Nov-21 A	03-Jan-22 A	01-Dec-22	01-Dec-22	_	1.00		1 8		
5A-51378	RW-54 - Replacement of Existing Sol with Rock Fill and Sub-base (Bay 6)	3	06-Dec-21 A	20-Dec-21 A	25-Apr-22	25-Apr-22						
5A-5150A	(PMI-000) RW/54 - Construct Wall (Bay 4) Incl. TCSS duct	47	08-Dec-21 A	03-Jan-22 A	29-Mar-22	29-Mar-22						
SA-5146	RW-54 - Construct Base Slab (Bay 6);	14	20-Dec-21 A	30-Dec-21 A	25-4pr-22	25-401-22		2.00				
50-51460	RW-54 - Construct Wall (Bay 6) ind. TCS5 duct		03-lan-22 A	28-lan-72	25-4ar-22	28-407-22	67			-		
5A-5168	RW-S4 - Fill up to formation level	47	04-Jan-22 A	05-Mer-22	29-Mar-22	06-May-22	48	4.00				
54-5162	RW-S4 - Construct Base Slob (Bay 1)		30-Apr-22	18-May-22	01-Dec-22	16-Dec-22	177	1.00				
5A-5162A	RWS4 - Construct Wall (Bay 1) incl. TCSS duct		19-May 22	13-Jun-22	17-Dec 22	13-Jan-23	177	1.00				
	INVESTIGATION OF THE DAY 1/ FRA. ILDO DAL		1002/08/950			111100000000000				-		
W-S7-a			21.Mar-22	28-May-22	21-Ott 22	28-Feb-23	222	9.00				
SA-5190	RW-S7-a - Plate Load Test and Report	22	21-Mar-22	06-Apr-22	21-Ott-22	05-Nov-22	173	2.00				
54-5192	RW-S7-a - Construct Base Slab (RW-S7-a1)		07-Apr-22	26-Apr-22	07-Nov-22	22-Nav-22	173	2.00				
SA-5196	RW/S7-a - Construct Wall (RW-S7-a1)		27-Apr-22	07-May-22	05-Dec-22	14-Dec-22	183	1.00				
SA-5416	RW-S7-a - Construct Base Slab (RW-S7-a2)	12	27-Apr-22	12-May-22	30-Jan-23	11-feb-23	222	2.00				
Current Mile	tore									Project C	KTE-WP27 M33	Date Peviden Chedred
Actual Work	Central K	owloc	n Rout	e - Kai 1	Tak Eas	t (Monti	1 33	Updat	(Rev27 - CSD)	Baseline:	1997 - 1997 - TANA	25-Od-21 Monthly Programme M00 ThY I 20-Nov-21 Submit G30 Programme Rev 25 ThY
Critical Plans	uining Work					ing Prog			013 02		TE - 3 Months Rolling Programme 5K filters: 3 Months Rolling_1, KTE - Submission.	25-Nov-21 Monthly Programme M01 TVY 1 24-Dex.21 Submit CSD Programme Rev 26 TVY 1
A MARCH COM						-081 - 325				sine. 14	as an a concerned only 1, NTE - OUMISSION.	25-Dep21 Monthly Programme M32 TVV

	Activity Name	Orig D	or Stat	Finish	Lole Start	Lote Finish	Total Fioat	TRA (Dey	33	34 35	37
5A-5418	RWS7-a - Construct Wall (RWS7-a2)		4 13-May-22	28-May-22	13-66-23	28-Peb-23	222	2.00	26 12 13 15	23 30 56 13 20 27 05 13 29	27 05 16 17 34 01 08 15 22
RW-57			2 04-Mar-22	15-347-22	13-Sep-22	19-Jan-23	180	12.00			
5A/5188	RWS7 - Experiation down to formation level +3.5/+4.1		7 01-Mar-22	11-Mar-22	13 Sep -22	29:5ep 22	156	1.00			
5A-5191	RWS7 - Plate Load Test and Report		4 07-Apr-22	26-Apr-22	87-Nov-22	22-Nov-22	173	2.00			
5A-5194	RWS7 - Construct Base Slab (Bay 1)		7 27-Apr-22	05-May-22	23/10/-22	3D-Nov-22	173	1.00			
5A-5198	RWS7 - Construct Base Slab (Bay 2/3)		4 06-May 22	23-May-22	01-Dec-22	16-Dec22	173	2.00			
54-5200	RWS7 - Construct: Wall (Bay 1)		9 10-May-22	19-May-22	15-Dec-22	24-Dec-22	183	1.00			
5A-5202	RW/S7 - Construct Base Slab (Bay 4/5)	1	4 24-May-22	09-Jun-22	17-Dec-22	05-Jan-23	173	2.00			
5A-5204	RWS7 - Construct Well (Bay 2/3)	1	9 24-May-22	15-Jun-22	28-Dec-22	19-3an-23	180	3.00			
RW-57/58		8	3 12-Mar-22	24-Jun-22	13-00-22	01-Apr-23	228	13.00			
5A-5218	RW/S7/58 - Excavation down to formation level +3.8/+3	9	7 12-Mar-22	19-Mar-22	13-06-22	20-Oct-22	173	1.00			
5A-5220	RWS7/S8 - Plate Load Test and Report	1	4 21-Mar-22	06-Apr-22	24-Dec 22	12.Jan-23	228	2.00			
54-5222	RW/S7/58 - Construct Base: Slab (Bay 1)		7 07-Ape-22	14-Apr-22	13-Jan-23	20-Jan-23	228	1.00			
5A-5224	RW-57/58 - Construct Base Siab (Bay 2)	2	7 19-Apr-22	26-Apr-22	31-389-23	07 16 -23	230	1.00			
5A-5225	RW+S7/58 - Construct Wall (Bey 1)		9 19-Apr-22	28-Apr-22	21-Jan-23	07-Feb-23	228	1.00			
5A-5228	RW-57/58 - Construct Base Siab (Bay 3)		7 27-Apr-22	05-May-22	10-Feb-23	17-Feb-23	232	1.00			
5A-5230	RW/S7/58 - Construct Wall (Bay 2)		9 29-4pr-22	11-May-22	(8-Feb-23	17-feb-23	228	1.00			
5A-5232	RW-57/58 - Construct Wall (Bay 3)		9 12-May-22	21-May-22	18-Feb-23	28-Feb-23	228	1.00			
54/5234	RW-57/58 - Fill upto formation level	2	8 23-May-22	24-Jun-22	01-Mar-23	01-Apr-23	228	4.00			
RW-S8-a			2 26-Mar-22	14-301-22	07-00-22	13-Jan-23	176	9.00			
5A-5260	RWS8-s - Plate Load Test and Report		4 26-Mar-22	12-00-22	07-Oc-22	22-02-22	156	2.00			
en and	Contraction and the second second second			120000000		Section States	1000				
5A-5262	RW-S8-e - Construct Bese Sab (RW-S8-e1)		4 13-Apr-22	03/May-22	24-0d-22	08-Nov-22	156	2.00			
54-5264	RWS8-e-Construct Wall (RWS8-e1)		9 04-May-22	14-May-22	124Wov-22	22-Nov-22	159	1.00			
5A-5420	RW/S8-a - Construct Base Slab (RW-S8-a2)		0 04-May-22	27-May-22	02-Dec-22	24-Dec-22	176	2.00			
5A-5422	RWS8-a - Construct Wall (RWS8-a2) (2 Lifts)	2	4 17-May-22	14-Jun-22	54-Dec-22	13-Jan-23	176	2.00			
RW-S8		6	1 12-Mar-22	28-May-22	21-5ep-22	02-Dec/22	156	7.00			
5A-5258	RWS8 - Excavation down to formation level +2.6/+4.1		2 12-Mar-22	25-Mar-22	21-Sep-22	06-0±-22	156	1.00			
5A-5261	RW/S8 - Plate Load Test and Report	3	4 13-Apr-22	03-May-22	24-00-22	08-Nov-22	156	2.00			
5A-5266	RW-S8 - Comtruct Base Slab (Bay 1)		7 04-May-22	12-May-22	094%0+22	16-Nov-22	156	1.00			
54-5268	RW/S8 - Construct Base Slab (Bay 2/3)	1	4 13-May-22	28-May-22	17-1407-22	02-Dec-22	156	2.00			
54-5270	RW458 - Construct Wall (Bay 1)		9 16-May-22	25-May-22	23-Nov-22	02-Dec-22	159	1.00			
RW-59		17	6 25-0d-21 A	04-Jun-22	18-Feb-22	13-Jun-22	7	24.00			
Stage 1			5 1500 DE A	04 3.41:22	10 116-22	19 441 27		24.05			
SA-5300	RW59 - Construct Base Stab (Bay 5)		4 25-0d-21 A	07-Dec-21 A	18-Fcb-22	18-Feb-22		2.00			
5A-5298	RW-59 - Construit Base Slab (Bay 6)		2 25-Oct-21 A	20-Nov-21 A		18-Feb-22		2.00			
5A-5302	RW-S9 - Construct Base Slab (Bay 4)		9 25-Jan-22	10-Feb-22	18-Feb-22	28-feb-22	15	2.00			
SA-5304	RWS9 - Construct Wall (Bay 4)		4 11-Feb-22	26-Feb-22	25-Mar-22	11-Apr-22	36	2.00			
5A-5306	RWS9 - Construct Base Slob (Bay 3)		9 11-Peb-22	21-965-22	01-Mar-22	10-Mar-22	15	2.00			
Carent Mile		o 35 3855 Av		n - 11794/145		19.13-013 - M	5			Project ID: KTE-WP27_M33	Data Revision Chicked 25-Oct-21 Marthy Programme MD TVY D
Adual Work	S	Central Kowlo							e) (Rev27 - CSD)	Baseline:	20Nov-21 Submi CSD Programme Rev 25 TYY D 25Nov-21 Menthy Programme W01 PYY D
Remaining \			Th	ree Mon	th Roll	ing Prog	gramn	ne		Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	24Deo21 Submit CSD Programme Rev 26 TVY D
	PAIN									A DESCRIPTION OF A	25-Das21 Monthly Programme MS2 TYY D

D	Activity Name	Ong Dur	Stat	Finish	Late Start	Late Finish	Total Ricat	TRA (Da)	Jarkesy 33 26 02 09 16	February Watch 34 36 23 30 06 13 20 27 06 13 20 27	April May 38 31 7 03 10 17 24 01 08 15 22
SA-5318	RW-59 - Hil upto formation level	28	22.466-22	25-Mar-22	11-Mar-22	13-Apr-22	15	4.0			
54-5308	RW-S9 - Construct Base Slab (Bay 2)	11	22-Feb-22	05-Mar-22	20-4pr-22	03-May-32	45	2.0			
5A/5310	RW-S9 - Construct Viail (Bay 3)	15	28-Feb-22	16-Mar-22	12-Apr-22	03-May-22	36	2.0	1		
SA-5314	RW-59 - Construct Wall (Bay 2)	16	17-Mar-22	04-Apr-22	04-May-22	23-May-22	36	2.0			📥 🐘 👘 👘
54-5312	RW-S9 - Construct Base Slati (Bay 1)	11	30-Apr-22	14-1434-22	11-May-22	23-May-22	7	2.0			
5A-5316	RM-S9 - Construct Wall (Bay 1)	17	16-May-22	04-Jun-22	24-May-22	13-3/m-22	7	2.0			
Road Works		204	25-Aug-21 A	10-May-22	04-Apr-22	01-Nov-22	145	12.0			
Initial Stage fo	or Kai Fuk Road	2	25-Jan-22	26-3an-22	05-May-22	05 May 22	75	2.0	2		
54-5502	KFRD - Temp relocate existing Traffic Gantry (MR) Km23B	2	25-3an-22	26-Jan-22	05-May-22	06-May-22	75	2.0			
Pre-stage at R	Kai Fuk Road for KFR TTA Stage 1, 1.1, 1.2 & 1.3	43	28-Dec-21 A	23-Feb-22	09-Apr-22	05-May-22	57	6.0			
54-5523	KFR(Prestage for 1.1) - Road Pavement for KFR TTA Stage 1.1	24	28-Dec-21 A	25-Jan-22 A	09-Apr-22	09-Apr-22		2.0			
54-5523A	(ind.backfilling) KFR(Pre-stage for 1.2) - Road works for contra flow section		25-Jan-22	16-Fab-22	09-Apr-22	28-Apr 22	57	2.0			
54-55238	KFR(Pre-stage for 1.3) - Leveling of existing road	6	17-Feb-22	23-Rdb-22	29-Apr-22	06-May-22	57	2.0			
At-grade Slip			17+Na-22	14-Apr-22	04-Apr-22	06-May-22	15	4.00			
SA-5510A	10M - S004 - Road and Dramage works / Utilities / TCSS duct laying (before		17-Mar-22	07-Apr-22	04-Apr-22	28-Apr-22	15	2.0			
	NPR TTA Stage 2)		And the second second								
5A-5510	5004 - Road Pavement for KRR TTA Stage 2	6	08-Apr-22	14-Apr-22	29-Apr-22	05-May-22	15	2.0			
	(EB) - Maintain 3 traffic lanes until CKR commissioning (PMI 253	204	25-Aug-21 A	10-May-22	29-3(#22	01-Nov-22	145	0.0			
5A-5844	KPR(EB) - 3 lanes - Tree felling proposa; LCSD diverking and approval	180	25-Aug-21 A	06-Apr-22	29-349-22	83-0:0-22	145				
54-5846	NFR(EB) - 3 lanes - Tree falling works; TTA required	24	07-Apr-22	10-May-22	05-06-22	01-Nov-22	145				
SCH_6B Re-co	nstruction of Existing Box Culvert	27	25-3av-22	03-Mar-22	09-Aug-22	10-Sep-22	156	0.0			
Box Culvert re	-construction Works	27	25-3en-22	(13-Mar-22	08-Aug-22	10-Sep-22	156	0.0			
BC- Reinstate	ment Works	27	25-Jan-22	(3-Man-22	08-Aug-22	10-Sep-22	156	0.0			
6B-5782	BC - Reinstate hard paving and related UU	12	25-381-22	10-Feb-22	08-Aug-22	20-Aug-22	156				
68-5784	BC - Reinstate planter wall in DSD compound	12	11-Feb-22	24-Feb-22	ZZ-Aug-22	03-Sep-22	156				
68-5786	BC - Transplant 5 nos of tree in OSD compound	3	11-Feb-22	14-565-22	01-Sep-22	03-Sep-22	165				
68-5788	BC - Reinstate fending in DSD compound	6	25-Feb-22	03-Mar-22	05-5ep-22	10-Sep-22	156				
68-5790	BC - Complete reconstruction of Box Culvet	0		03-Mar-22		10-Sep-22	156				
Section 4 - Es	stablishment Works for Landscape Softworks under	165	01-Novo1A	10/00/27	29-345-72	-00 May 02		0.0			
Sch 8 Establis		365	01-Noy-21 A	30-Apr-22	29-3an-22	04May-22	4	0.0			
86128	S4 - Establishment Works for Landscape Softworks under Section 3		01-May-21 A		29-3an-22	04-May-22	4	0.0			
8-6130	S4 - Completion of the Works in Section 4	.0		30-Apr-22		04-May-22	4				
1201002-0	2210-2014-5120100-00-00-00-00-00-00-00-00-00-00-00-00		22.846.92	20-40-22	27-Mar-23	2010000		0.00			
	ip Road S5 Works (Subject to Excision)		22.40/22	12.Acr22	27-Mar-23	27.Mar 23	274	0.0			
	rainage and Road Works			124pr12		27/10/23		0.0			100
SB-6200	55 - Notified by PM sto execute Section 5 of the Works (Slip Road 55)	0	22-Apr-22		27-Mar-23		274	_			
	scape Route for Slip Road S6 Works (Subject to Exc			124gr-22	39-06622						
to the second second	rainage and Road Works		22-Apr-22	22-Apr-22	26-Dec-22	28-Dec-22	205	0.0			
50-6300	S5 - Notified by PM'sto execute Section 6 of the Works (Slip Road S5)	0	22-Apr-22		28-Dec-22		205				
ection 8 - Ve	entilation and E&M adit and Ring Road Underpass	-357	25 Mar 21 A	15-Jun-22	00/Dec/21	253.6-22	1	-6A.0			
Current Mile	ulore						_			Project ID: KTE-WP27_M33	Data Pavison Onded 25-04-21 Monthly Programme M30 TVY C
Adusi Wok	aning Work Central AC	owloo				t (Montl ing Prog			e) (Rev27 - CSD)	Baseline Layout: KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	23-Hon-21 Submit CBD Programme Not.25 TVY E 25-Bon-21 Monthly Programme Not.21 TVY E 24-Don-21 Submit CBD Programme Not.25 TVY E 25-Don-21 Submit CBD Programme Not.2 TVY E
										Page 13 of 17	24-Jan 22 Submit GSD Programme Rev 27 TVY

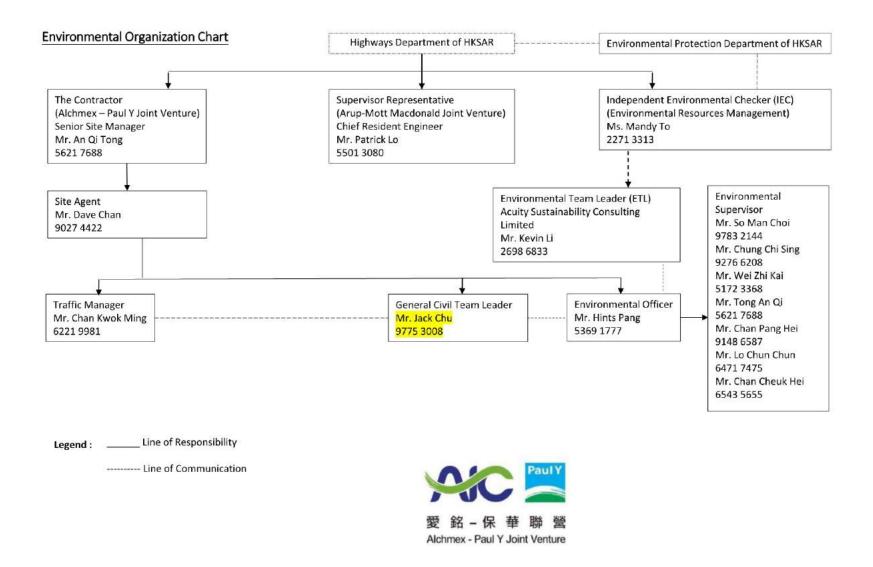
s	Activity Name	Ong Dur	Start	Finish	Late Start	Late Finish	Total Float	TRA (Day)	301089	Helirusy 34	Verch 36		36		37	
6A Ventila	ation and E&M Adit Works	325	25-Mar-21 A	05-May-22	09-Dec-21	23-3/0-22	39	12.00	26 02 09 16	23 30 06 13 20 27	06 13 20 27	03	10 17 24	01	08 15	22
	, 103, 161 & 182		25-Mar 21 A		09-Dec-21	23-Jun-22	39	12.00				1 1				
- RC Struct	* The second		15-Nov-21 A	Sector Charles	10-Dec-21	08-feb-22	-35	0.00						Ŧ		
					10-06023	08/18/22	-03	0.00								
	Blay BS (14.5m)				10.000.01	I Determine		1.10								
64-6571	WABS - Backfilling to strik L3/L4/L5		15-Nov-21 A		10-Dec-21	10-Dec-21	-35		E P T T					1		
														Ī		
6A6577	VAB6 - Backfilling to strike L3/L4/L5	50	15-Jan-22 A	21-Mar-22	11-Dec-21	08-Feb-22	-35					. d		1		
A - Miscellan	recus	325	25-Mar-21 A	06-May-22	69-Dec 21	23-Jun-22	39	12,00						1		
/A Slage 1	Macellanetas works		35-10-21.4		00-Disc 21											
6A-6604	Wi - Movement Joint / Weterproofing, Stage 1	32	25-Mar-21 A	28-Jan-22	09-Dec-21	13-Dec-21	-37	2.00								
6A-6606	VA - Backfiling up to GL with additional concrete bik end wall, Stage 1	16	28-Dec-21 A	28-3an-22	11-Dec-21	13-Dec21	-37	4.00		-		1.1		1		
6A-6607	VA - Haul Road preparation & diversion, stage 1 (end May 2021)	6	29-Jan-22	11-Fab-22	14-Dec-21	20-Dec-21	-37									
/A - Strige 31	Nacellaneous works		24-380-222 A	61-14-22	11:06:21	15-14-21		8.00								
6A-6608	Wi - Movement Joint / Veiterproofing, Stage 3	50	24-Jan-22 A	29-Mar-22	21-Dec-21	144Feb-22	-17	2.00			_					
6A-6610	WA - Backfilling up to GL, Stage 3		25-feb-22	05-May-22	06-Jan-22	18-Mar-22	-37	4.00			- ilean - Samelar	Diam's				
6A-6612	Completion of Structure of vent. and ESM Adit within Parts 181, 182, 1D1,	0		06-May-22		23-Jun-22	39									
	1D3	1 10	20-040-21 A	15Jun 22	28-Dec/21	14-Jun-22		56.00								
-	Road Underpass		20-0xt-21 A	15-10-22	28-Dec 21	14-349-22		56.00								
	, 1D2, 1D3, 1D4, 1B1 & 1B2	- C.					-1									
R - ELS Work			25-0ec-21 A	10-Mar-22	06-Jan-22	07-May-22	45	9.00								
ik - Elsslay																
4-6732	RR - Excavation Down to 1st walling & Strut; Install walling & Strut; 181&182	17	25-Dec 21 A	31-Jan-22	05-Jan-22	12-Jan-22	-16	4.00								
4-6734	RR - Excavation Down to Final Formation Level, 1818182	21	Q8-Feb-22	(3-Mar-22	13-3an-22	12-Feb-22	-16	4,00								
4-6736	RR - Excevation Down to Formation Level (Backfilling) (RR), 1818-182 (Open out)	6	04-Mar-22	10-Mar-22	30-Apr-22	07-May-22	45	1.00		-	•			6		
R - Box Secti	ions, Pump Sump & FS Plant Room	187	20-0xt-21 A	13-Jun-22	28-Dec-21	09-Jun-22	-3	35.00				1		1		
QR - 8ay 83 ()	(S011 CHO+134 to 0+146)			and states	7046-72	104000-22							*****			••••••
4-6746	RR-R3 - Construct Enternal Wall	23	20-0xt-21 A	13-Jan-22 A	20 -4 pr-22	20-Apr-22		2.00						1		
4-6748	RR-R3 - Construct Top Slab	21	27-Jan-22	26-Feb-22	20-401-22	16-May-22	61	2.00	0 1 1 1							
UR - 8ay 84 ((S011 CH0+146 to 0+161)	50	20-00-20 A	-2016(0)27	30 Mar 22	3940133	10	4.10								
4-6752	RR-RA - Construct External Wall	24	20-0et-21 A	13-3an-22 A	30-Mar-22	30-Mar-22		2.00						1		
4-6754	RR-R4 - Construct Top Slab	23	25-3an-22	26-Feb-22	30-Mar-22	29-Apr-22	49	2.00		eda a de la calenda de la c						
	9-011 CH0+151 to 3+100)		2001QLA	2016/022	10 442 22	20.49/22	10	100								
4-6764	197-PS - Construct External Wall		20-04-21 A	12.3+ 72 *	30-Mar-22	30-Nar-22	1	2.00						1		
							40							1		
4-6766	RRRS - Construct Top Slab		25 Jan 22	26-Feb 22	30-Mar-22	29 Apr 22	49	2.00						1		
	(\$611 H0+180 to 0+193.3)		OC Marks	111462	11522	1.	-	1.02				1				
4-6768	RR-R6 - Construct Base slab		01-Mar-22	16-Mar-22	14-Feb-22	01-Mar-22	-13	3.00						1		
4-6770	RR-R6 - Construct External Wall	24	17-Mar-22	14-Apr-22	02-Mar-22	29-Mar-22	-13	2.00				1	•	-		
4-6772	NR-R6 - Construct Top Slab	23	19-Apr-22	17-May-22	30-Mar-22	29-Apr-22	-13	2.00					-	-	-	
iR - Bay 87 ((8011 CH0+193.3 to 0+213.6) (el-grade) (801)	177	18-85y21 A	06-1u (22	11 0e-21	96-3ar/23	3	8.00								
	1											Data	R	arvializm		inclead
Current Miles Astusi Work Oticsi Rema	Central K	owloc							(Rev27 - CSD)	Project ID: KTE-WP27_M33 Baseline: Layout: KTE - 3 Months Rolling Programme		25-0d-21 20-Nov-21 25-Nov-21	Monthly Programme & Submit CSD Program Monthly Programme &	(3) me Rev 25 (3)	TYY TYY TYY	0
🔲 Remaining V			Th	ree Mon	th Roll	ng Prog	ramn	ne		Filter: TASK filters: 3 Months Rolling_1, KTE Page 14 of 17	- Submission.	24-Deo-21 25-Deo-21 24-Jan-22	Submit CSD Programme & Monthly Programme & Submit CSD Programme	me Rev 28 832	1197 1197 1197	0

D	Activity Name	Orig Dur Stat	Finish	Late Stat	Late Finish	Total Ficat	TRA (Day)	Литину 33	Februsey March 34 37 27 27 28 35	Apri 36 37 100 400 107 31 41	1/8) 1/
4-6775	RR-RU1 - Construct Side wall / Internal wall	38 18-Nov-21	17-Dec-21 A	28-Dec-21	28-Dec-21			02 VE 10	ee ee uo 12 20 27 06 13 20	27 03 70 17 24 41	we 13 22
4-6778	RR-RU1 - Construct RC Walls (PS plantroom 1 & 2)	40 08-Dec-21	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	34 15-Feb-22	25 Mar 22	28-Dec-21	12-Feb-22	-35	4.00				
4-6777	RR-RU1 - Construct: Plantroom Slabs up to -0.675 (PS plantroom 2)	15 26-Mar-22	13-Apr-22	30-Mar-22	20-Apr-22	3					
4-6779	RR-RU1 - Construct: Top Sabs up to +3.375/+4.500 (PS plantnoom 1 & 2)	40 14-Apr-22	06-Jun-22	21-Apr-22	09-Jun-22	3				C	
RR - Bay 88 (50	11 CH0+211.5 to 0+225) (at-grade) (7002)	11 36-Har 22	125000-222	19-160-22-	27Aun-22	-15	1.50				
4-6782	RR-RU2 - Construct Base slab	15 26-Mar-22	13-Apr-22	14-Feb-22	02-Mar-22	-35	2.00	· []· · · · · · · · · · · ·			
4-6783	RR-RU2 - Construct Side Walls 1st pour	23 14.4pr-22	16-May-22	03-Mar-22	29-Mar-22	-35				Rich and Annual Annu	
4-6786	RR48U2 - Construct Side Walls 2nd pour	23 17-May-22	13-Jun-22	30-Mar-22	29-Apr-22	-35	2.00				
RR - Bay 89 (50	11 CHD=225 to 0+239) (at-grader) (B153)	22 1040-22	27 May 22	00 Ma-72	22-40+22		2.00				
	RR-RU3 - Construct Base slab	24 14-4pr-22	17-May-22	09-Mar-22	05-Apr-22	-30	2.00				
	RR-RUJ - Construct Side Walls 1st pour	9 18-May-22		07-Apr-22	20-Apr-22	-30		· · · · · · · · · · · · · · · · · · ·			
	011 (146+239 to 6+252.255) (at-grade) (8134)		11.10-22	11.000							
	RR-RUH - Construct Base siab	13 18-May-22	01-Jun-22	11-Apr-22	28-Apr-22	-27	2.00				
		13 101-04-55	01:00:22	Interez	2010122	27	2.00				1.4
	011 CH0+252.245 to 0+265 675) (VA Section) RRVA-Construct have date			11110		-					
		30 07-May-22		19-Mar-22	27-Apr-22	-37					
RR - Miscellaneo		48 14 Apr 22		21-Apr-22	14-Jun-22	4	12.00				
	colla sector Works										
4-6982	RR - Novement joint / Waterproofing, Stage 2	32 14-Apr-22	26-May-22	21-Apr-22	30-May-22	3	4.00			C	
4-6684	RR - Backfilling up to GL. Stage 2	32 03-May-22	10-Jun-22	05-May-22	14-Jun-22	3	4.00				
filk - Stope 4 Mis	e el la remos Works	34 UNHMP22	12-300-22	Zidpill.	301 by 22						
4-6901	RR - Movement joint / Waterproofing, Stage 4	24 18-May-22	15-Jun-22	30-Apr-22	30-May-22	-13	4.00	· · · · · · · · · · · · · · · · · · ·			-
ction 10 - Foo	otbridge, E&M Installation and Miscellaneous Wc	217 234ug2)	163500-22	11-180-22	ideam-22	-20	9.00				
dh_7 Abandon E	Exisiting Subway KS-20	237 23-4.g-21	4 18-May-22	11-Mar-22	13-Jun-22	21	9.00				
(S-20 - Demolist	tion / Filling Works	237 23-4ug-21	4 18-May-22	11-Mar-22	13-Jun-22	21	9.00				
Kai Fuk Road (W	8)	195 23-Aug-21	23-Mar-22	11-Mar-22	06-May-22	33	9.00				
7-7328	KS20 - Exawate down to subway roof level	18 23-Aug-21	4 29-Jan-22	22-Mar-22	26-Mar-22	42	3.00				
7-7330	KS20 - Demolish extg subway & ramp (WB)	28 25-3an-22	04.Mar-22	11-Mar-22	13-Apr-22	33	4.00				
7-7332	KS20 - General fill to formation level / Utilities diversion / Laying inside subway	16 05 Mar 22	23 Mar 22	14-Apr-22	06-May-22	33	2.00				
Kai Fuk Road (Ce		24 19-Apr-22		16-May-22	13-Jun-22	21	0:00				
10040-1210-092-051 M (4	KS20 - Tital trench for sheetoile works	8 19-Apr-22		16-May-22	24-May-22	21					
7-7336	KS20 - Instal sheetple for subway box section	10 28-401-22	13-May-22	25-May-22	06-Jun-22	21		·			
	KS20 - Reinstate road pavement before implement KFR TTA Stage 3	6 12-May-22		07-Jun-22	13-Jun-22	21					
COSC CON		6 12 may 22	101.01.22	07-307-22	1556002	13	24,00				
	ucture of Bridge CKRE	157 19-8ev-21	06.30.22	19-Feb-22	15-540-22	85	20.00				
ch_3.10 Bridge (
KRE - Piling Wo		80 19-Nov-21		19-Feb-22	05-Aug-22	128	4.00				
Piling Works - Pie		80 19-Nov-21		19-Feb-22	05-Aug-22	128	4.00				
3.10-7506	CORE - Bored Piles for KS-CORE-1 (1 nr)	36 19-Nov-21	4 24-Dec-21 A	19-feb-22	19-Feb-22		4.00				
Current Mestor								1.0		Date Revision	Chieded A
Adual Work		wloon Rou	te - Kai '	Tak Fas	t (Mont	1 33 1	Indat	ev27 - CSD)	Project ID: KTE-WP27_M33 Baseline:	25-Od-21 MonthlyProgramme M00 29-Nov-21 Submit CSD Programme Ray 25	TYY DC TYY DC
Cital Remains	ig Work		ree Mon						Layout: KTE - 3 Months Rolling Programme	25-Kov-21 Manthly Programme M31 24-Deo.21 Submit CSD Programme Rev 26	TYY BC
- Remaining Work					3				Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	25-Deo-21 Monthly Programme MS2	TYY OC
									Page 15 of 17	24-Jon-22 Submit CSD Programme Rev 27	TYY DC

D	Activity Name	Orig Dur	Stat	Fisials	Lole Start	Lote Finish	Total Fioat	TRA (Døy)	January 33 26 52 08 16	February March 34 35 23 30 56 13 20 27 05 13	20 27 1 10	Apri 3H 10 17 34	Ma 37 01 [56]	15 22 1
3.10-7510	ORE - KS-OKRE-L Proof drilling & Piles testing	24	25-Jan-22	28-765-22	13-Jun-22	11-Jui-22	106	0.00	1					-
3.10-7518	ORRE - KS-OKRE-2 Proof drilling & Pike testing	24	25-Jan-22	28-Feb-22	09-Jui-22	05-Aug-22	128	0.00						
Piling Works -	ABUT A-K4-CKRE	17	25:301-22	19-Feb-22	07:3un-22	25-049-22	101	0.00						
3.10-7526	CKRE - ABUT A-K4-OKRE Proof delling & Piles testing	17	25:3an-22	19-Feb-22	07-3un-22	25-km-22	101	0.00						
CKRE - Pile Ca	ps, Pier / Abutment	89	15-Rdb-22	05-Jun-22	27-Jun-22	15-Sep-22	85	16.00						
Abutment A-K	1-CKRE	29	15-Feb-22	19-Mar-22	05-Aug-22	10-Sep-22	142	4.00						
3.10-7536	CKRE - Construct Abutment A-R1-CKRE	20	15-Feb-22	09-Mar-22	05-Aug-22	27-Aug-22	139	4.00						
3.10-7538	OKRE - A-KL-OKRE Install Permeate Membrane and Backfill	9	10-Mar-22	19-Mar-22	01-Sep-22	10-Sep-22	142	0.00						
Pier KS-CKRE-	1	47	06-Apr-22	06-Jun-22	12-34/-22	03-5ep-22	76	4.00						
3.10-7540	CKRE - Prepare Pile Head for KS-CKRE-1	24	06-Apr-22	07-May-22	12-30-22	08-Aug-22	76	1.00			0		_	
3.10-7544	OVRE - KS-OVRE-1. Rainstatement of Slab of Kai Tak River; remaining works	5	10-May-22	14-May-22	09-Aug-22	13-Aug-27	76	1.60						
3.10-7542	CRITE - Construct PlankS-CRITE-1 (2 Lifts)	18	16-May 22	06 Jun 22	15 Aug-22	03-Sep 22	76	2.00						
Pier K5-CKRE-	2	47	06-Apr-22	06-Jun-22	12-34-22	03-Sep-22	76	4.00						
3.10-7552	OKRE - Prepare Pile Head for KS-CKRE-2	24	06-Apr-22	074May-22	12-3ui-22	08-Aug-22	76	1.00				II I- I- I-	_	
3.10-7556	ORE - K5-OKRE-2 Reinstatement of Slab of Kal Tak River; remaining works		10-May-22	14-May-22	09-Aug-22	13-Aug-22	76	1.00					-	
3.10-7554	ORRE - Construct Pier KS-ORRE-2 (2 Lifts)	18	16-May-22	(05-Jun-22	15-Aug-22	03-Sep-22	76	2.00						
Abutment A-K	4-CKRE		21-Feb-22	174May-22	27-341+22	15-Sep 22	101	4.00						
3.10-7568	CRRE - Prepare pile head (4ns) AK4-CRRE		21-5/6-22	15-Mir-22	27-3an-22	20-Jul-22	101	0.00						
3.10-7570	OVPE - Construct Abutment Base A-K4-OVPE		16-Mar-22	04-Apr-22	21-3,6-22	00-Aug-22	101	1.00						
3.10-7572	ORE - Construct Abuttment Ar64-ORE		06-Apr-22	05-May-22	10-Aug-22	03-Sep-22	101	3.00			_		_	
3.10-7574	OFE - AKI-ORE Install Permate Kembrane and Bab/III		06-May-22	17-May-22	05-5ep-22	15-540-22	101	0.00					_	
49.322.49953.01	Inderpass S21	1.2	and the second			310000	101	24.00					1	2
	and Underpass 521	199	25-01-21 A	19-Act-22	14-36-22	31-0ec-22	251	24.00						
S21 - RC Struc			05-Nov-21 A		10-5ep-22	31-Dec-22	262	4.00						
	h Sections - South (CH000 to CH143.981)		25-Jan-22	14-Feb-22	16-Dec-22	31-Dec22	262	0.00						
	-10 - AL-Grade Slab (CH009.376 to 000)		1.4.12	11 50 31							÷ 4			
4-7812	521-82-10 - Construct At Grade skib		25-Jan-22	14-Fd>-22	16-Dec-22	31-Dec-22	262	0.00						
						10-5ep-22	204	2.00						
	tions (CH143.981 to CH205.700)		UDTROV21 A	30-Nov-21 A	10-5ep-22	10-349-22		2.00						
	2 - Box Section (CH159.3 to 175)				11-540-12	10/545-11								
4-7738	S21-B1-2 Construct External Walls (final pour) & Top Slab			30-Nov-21 A		10-Sep-22		2.00						
	h Sections - North (CH205.700 to CH354.957)		25-Jan-22	14-Feb-22	16-Dec-22	31-Dec-22	262	2.00			1			
	9 - At Grade Slab Part 3E (CH 321.11 to 354.657) Part 3E		25-34-32	144Feb (2)	16-846-22	-11-1		00						
4-7868	521-B3-9 - Construct At Grade state		25-Jan-22	14-Feb-22	16-Dec-22	31 Dec 22	262	2.00						
S21 - Miscellar			25-0d-21 A	19-Apr-22	14-34-52	26-Sep-22	132	20.00						
	oofing and Backfilling Works		25-0ch-21 A		14-34-52	26-Sep-22	132	20.00						
4-7870	S21 - Waterproofing / Novement Joint / Naxonry Wall (Box Section)	48	25-0d-21 A	31-Mar-22	14-Jui-22	10-Sep-22	132	6.00						
4-7872	S21 - Badefiling up to GL. (Box Section)	48	01-Nov-21 A	08-Apr-22	26-Sep-22	26-Sep-22	138	6.00						
-										T	Dat	e Perso		Chicked Ap
Current Mile		owloa	n Pout	o - Kai 1	Tak Eas	t (Mont	h 32	Indat	(Rev27 - CSD)	Project ID; KTE-WP27_M33 Baseline:	25-Od-2 20-Nov-2	Monthly Programme MOD		TW DC TW DC
Citical Rom	abing Wark	0.0100				ing Proc			(1002) • (30)	Layout KTE - 3 Months Rolling Programme	25-Nov-2	1 Monthly Programme MCII		TYY DC TYY DC
- Remaining V	Nork			os mon	an nom	ing riog	granti			Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	24Dec2 25-Dec2	1 Monthly Programme MS2	1000	TYY DC
										Page 16 of 17	24.Jan 2	2 Submit CSD Programme Ri	w 27	TW DC

Sections - North (CH205-706 to CH321.110)	100	Stat	Finst	Late Start	Late Finish	Total Float	TRA (Day)	26 02 09 16	29 54	February 34 05 13		05	8	27 03	36 10 1	17 24	AL	3/	1 20
	4	5140/21A	31.44(2)	31-092	2654922	176	8.00	20 02 09 16	20 10	06 10	0 0	08	2 60	er 00	10 1	64	41	15	ch.
S21 - Waterproofing / Movement Joint / Masonry Wall (U-Trough Section -	36	014kov-21 A	31-Mar-22	21-346-22	19-5op-32	138	4.00		0		-								
North) S21 - Baddfling up to GL. (U-Trough Section - North)	35	08-Nov-21 A	25-Dep-21 A	26-5ap-22	26-Sep-22		4.00									1			
pintion Works	Ê	EL Idraz	19 404-22	11540-12	1,5012	112	8.00							4					
S21 - Final Completion Works	12	01-Apr-22	19-Apr-22	13-Sep-22	26-Sep-22	132	0.00							-					
S21 - Completion of Structure of Underpass S21	0		19-Apr-22		26-Sep-22	132	0.00						-						
eve pipes for District Cooling System (Subject to	145	25-04121 A	35Mar22	15.3m72	10 0:022	159	37.00												
pes for DCS (Kai Tak River West)	8	25-Jan-22	09-Feb-22	22-Reb-22	02-Har-22	18	3.00							2		1			
	9	25-3an-22	09-Reb-22	22-Feb-22	02-Mar-22	18	3.00												
DCS(W) A - Reinstatement (Pavement / fencing / etc.)	8	25-Jan-22	(9-Fab-2 2	22-Feb-22	02-Mar-22	18	3.00			1						1			
pes for DCS (Kai Tak River East)	145	25-0d-21 A	15Mar-22	15-3an-22	10-00-22	159	34.00						-						
				15-3an-22			16.00												
ā stut																			
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			1.000000000000				2.00			1									
							10.00												
						171													
																-			
DCS(E) - Install skerve pipes 3x1800 (D (L=37.5m)			31-Jan-22 A	20-3an-22	20-Jan-22		6.00												
				20-3an-22	26-Jan-22		2.00												
DCS(E) - Backfilling works in DCS area (up to G.L.)			11-Mar-22	05-5ep-22	10-Oct-22	171										3			
DCS(W)_C - Final completion works	5	12 Feb-22	17-Feb-22	27-Jan-22	08-Feb-22	-8	6.00												
DCS(W)_C + Completion of Sieeve pipes for DCS (Section 17)	0		17-Feb-22		08-Feb-22	-8				•									
	n A (39m) DCS(W), A - Reinstatument (Presenent / Kenoring / etc.) per for DCS (Keil Tak River East) 1 (approx 37.5m) DCS(E) - Devettering aystem Installation (TBA subject to design) DCS(E) - Desutetin down to fermation keel (Part A for Pfe cape) ed walling a stud DCS(E) - Essenstein down to fermation keel (Part B for DCS) ed walling a stud DCS(E) - Desutetin down to fermation keel (Part B for DCS) ed walling a stud DCS(E) - Desutetin down to fermation keel (Part B for DCS) DCS(E) - Desuteting aystem Installation (TBA subject to design) DCS(E) - Desuteting aystem Installation DCS(E) - Desute	peer for DCS (Kal Talk River West) 8 n A (39m) 9 DCS(W), A - Paintalement (Persement / ferring / etc.) 9 peer for DCS (Kal Talk River East) 145 DCS(W), A - Paintalement (Persement / ferring / etc.) 145 DCS(W) - Departure quarter instation (TMA adapter to design) 145 DCS(W) - Expectent down to fermation level (Part I for DCS) net waiting & dist and compared instation (TMA adapter to design) 30 DCS(W) - Expectent down to fermation level (Part I for DCS) net waiting & dist and compared instation (TMA adapter to design) 324 DCS(W) - Expectent down to fermation level (Part I for DCS) net waiting & dist and compared instation (TMA adapter to design) 324 DCS(W) - Expectent down to fermation level (Part I for DCS) net waiting & dist DCS(W) - Expectent quarters instation (TMA adapter to design) 324 DCS(W) - Expectent quarters instation (TMA adapter to design) 325 DCS(W) - Expectent quarters instation (TMA adapter to design) 335 DCS(W) - Expectent quarters instation (TMA adapter to design) 335 DCS(W) - Expectent quarters instation (TMA adapter to design) 335 DCS(W) - Expectent quarters instation (TMA adapter to design) 335 DCS(W) - Expectent quarters instation (TMA adapter to design) 335	pers for DCS (Kai Tak River Weat) 28 29-ban 21 n A (39m) 25-ban 22 25-ban 22 DS(W), A - Neindatement (Pinement / fenerary / etc.) 26 25-ban 22 pers for DCS (Kai Tak River East) 26 25-ban 22 pers for DCS (Kai Tak River East) 25-ban 22 25-ban 22 pers for DCS (Kai Tak River East) 26 25-ban 24 DCS(F) - Deventing system Instalation (TBA add)st to design) 26 25-ban 24 DCS(F) - Deventing system Instalation (TBA add)st to design) 26 26-26-21 A DCS(F) - Deventing system Instalation (TBA add)st to design) 26 26-26-21 A DCS(F) - Destingt down to fermation lead (Pit B for DCS) hed waiting & 26 20-26-21 A DCS(F) - Instal size system Strabation (TBA add)st to design) 26 20-26-21 A DCS(F) - Instal size system Strabation (TBA add)st to design) 26 20-26-21 A DCS(F) - Desting system Instalation (TBA add)st to design) 26 26-26-22 A DCS(F) - Desting system Instalation (TBA add)st to design) 26 26-26-22 A DCS(F) - Desting system Instalation (TBA add)st to design) 26 26-26-22 A DC	Bits pipes for District Cooling System (Subject to per for DCS (Kai Tak River Weat) 11.5 25-08-21 25-189-22 a (39m) 25-38-22 09-feb-22 DS(M), A. Pairdatament (Pinement / fencing / etc.) 26 25-38-22 09-feb-22 DS(M), A. Pairdatament (Pinement / fencing / etc.) 26 25-38-22 09-feb-22 DS(M), A. Pairdatament (Pinement / fencing / etc.) 164 25-08-21 25-08-22 DS(F) - Downtring system installation (TRA adapts to design) 168 25-08-21 04-feb-21 A DS(F) - Downtring system installation (TRA adapts to design) 268 25-08-21 A 04-feb-21 A DS(F) - Downtring system installation (TRA adapts to design) 268 26-08-21 A 16-68-21 A DS(F) - Downtring system installation (TRA adapts to design) 278 20-48-21 A 20-48-21 A DS(F) - Install seem globe 31:000 DD (1-37.5m) 24 20-48-21 A 16-48-21 A DS(F) - Install seem globe 31:000 DD (1-37.5m) 24 20-48-21 A 11-48-22 DS(F) - Install seem globe 31:000 DD (1-37.5m) 24 20-48-21 A 11-48-22 DS(F) - Installeting seem installation (TRA adapts th design) 25<	Bits Standard Standard Standard Standard Standard Description Standard Sta	Bits Statistics Statistics <td>Bits Stand Stand</td> <th>Bits Status Status<td>Bit Pipes for District Cooling System (Subject to per for DCS (Kai Tak River West) 16 25 / 00 / 21 25 / 00 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00 / 21 25 / 00</td><td>Bit Pipes for District Cooling System (Subject to per for DCS (Kai Tak River West) 1% 2×0+21 5×1+02 0100427 0100427 010 0100 n A (39m) 1% 2×3-022 0×0+22 2×2+022 0×0+22 0×0 10 0.00 DS(M) A - 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Appendix C Project Organization Chart



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
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			
	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
\$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; 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
			Construc	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		 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.						
\$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. 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
\$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 	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 at the proposed recharge location(s) as well as the pollutant levels of 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 and rectified after observation
			Waste Manage	ement (Construction	Waste)			
S7.4.1	WM1	 On-site sorting of C&D material Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites 	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		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	 Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling 		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					
\$7.5.1	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 	generation and recycle the C&D materials as far as practicable so as to reduce the	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	 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	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> <u>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes;</u> <u>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;</u> The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient 	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	Implemented and rectified after observation

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	LC2	 Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant. The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling. The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable. 	The contaminated soil will be excavated for on-site reuse	Contractor	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
		Park), no f If the analysis noncomplianc excavation sh vertically an location(s) of acceptance of conducted for excavation, sampling and all contamina	further excavation s indicates presence ce of the accept hall be carried ou od/or horizontally f the sample(s) wh criteria. Further sa or compliance testing	e of contamination (i.e. ance criteria), further ut in 0.5m increment depending on the nich has exceeded the ampling shall also be sting. The process of g should continue until emoved and should be						
Appendix 8.4	LC4	A Remediation clean-up shat endorsement construction, construction,	on Report (RR) to all be prepared and it prior to the co /development wor	demonstrate adequate d submitted to EPD for promencement of any ks within the sites. No ks shall be carried out						• N/A

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

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

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

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

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

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 (Constructi	ion 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				
\$13.2	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

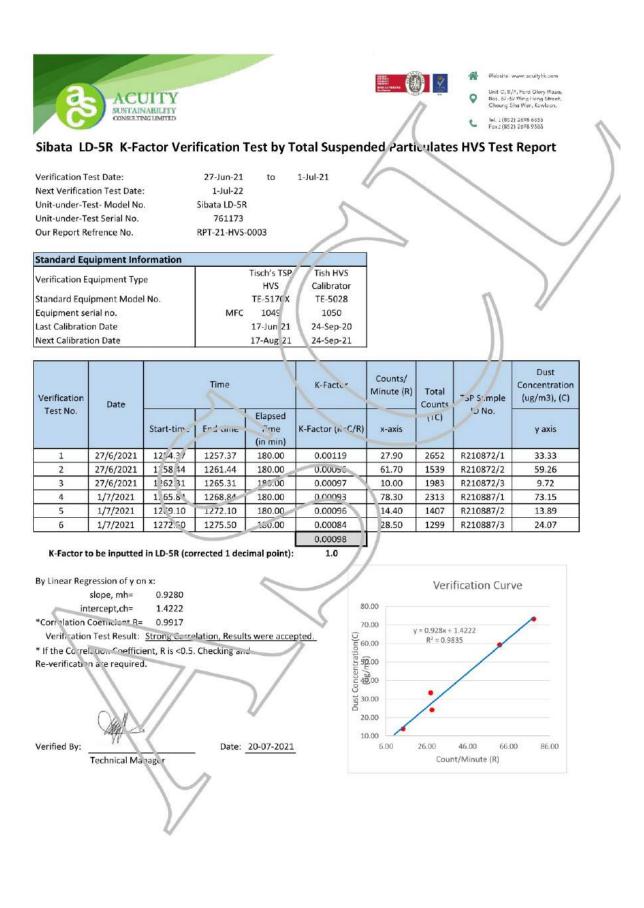
Appendix G Monitoring Schedule of the Reporting Month

February 2022

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

Acuity Sustainability Consulting Ltd.

Appendix H Calibration Certificates (Air Monitoring)



							1000 CONTRACTOR (1000)	ALIBRATIO
'IE							Aug	ust 3, 2022
			-					
nvir		ent	dl					
	Ce		alibration C				ation	
Cal. Date:	August 3, 2	021	Rootsr	neter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					Pa:	750.57	mm Hg
Calibration		TE-5028A	Calib	rator S/N:	3702			
Canoration	woder N.	12-3028A	Callb	rator s/re.	3702	7.1.2.1]
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔP	۵H]
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3170	4.1	1.50	1
	2	3	4	1	1.0350	6.7	2.50]
	3	5	6	1	0.9420	8.0	3.00	4
	4	7	8	1	0.8650	9.3	3.50	
	5	9	10	1	0.6540	16.2	5.00	1
			D	ata Tabula	tion]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd} \right)}$)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)	
	(m3)	(x-axis)	(y-axi		Va	(x-axis)	(y-axis)	
	0.9922	0.7534	1.223	3	0.9945	0.7552	0.7678	1
	0.9887	0.9553	1.579	3	0.9911	0.9576	0.9913	1
	0.9870	1.0478	1.730		0.9893	1.0503	1.0859	
	0.9853	1.1390	1.868		0.9876	1.1417	1.1729	
	0.9761	1.4925	2.446		0.9784	1.4960	1.5356	
	OCTO	m=	1.645		0.4	m=	1.03041	
	QSTD	b= r=	-0.003		QA	b= r=	-0.00231 0.99975	
		1-1	6.055			1-	0.00070	1
				Calculation				
			/Pstd)(Tstd/Ta)		ΔVol((Pa-Δf	P)/Pa)	
1	Qstd=	Vstd/∆Time				Va/ATime		
			For subseque	ent flow rat	te calculatio	15:		
	Qstd=	1/m (($\sqrt{\Delta H})$	Pa Pstd (Tstd Ta)-b)	Qa=	$1/m \left(\sqrt{\Delta F} \right)$	(Та/Ра))-ь)	1
		Conditions]					
Tstd:	298.15	5		[RECA	IBRATION	
Pstd:		mm Hg			US ERA MORE	mende	nual recalibratio	on ner 1999
All calibrate		ey er reading (ir	1420)				legulations Part	
		er reading (i					Reference Meth	
		perature (°K)	101					
		essure (mm	Hg)		Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30.			Charles and a second second second
ra. accuai De	a a line a la l		- APT					

Fisch 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:	04-Feb-2022
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

Ambient Condition

Corrected Pressure (mm Hg):	766.1	Temperature (deg K):	287.6
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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

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.32	0.717	27.8	28.46
2	1.62	0.792	30.2	30.88
3	2.06	0.893	33.3	34.06
4	2.60	1.005	36.2	36.97
5	3.07	1.090	38.5	39.38

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

m=	29.1080	b=	7.7736	Corr. Coeff=	0.9991
Sample	Sampler set point(SSP)		CFM		
Qstd = 1/m[Sqrt(H IC = I[Sqrt(Pa/Pstd Qstd = standard flo IC = corrected chan I = actual chart resp m = calibrator Qst b = calibrator Qstc Ta = actual temper	20(Pa/Pstd)(Tstd/Ta))-b])(Tstd/Ta)] w rate t response ponse d slope	42	CFM Calculations m = sampler slope b = sampler intercept I = chart response Tav = average temperature Pav = average pressure		
Pstd = 760 mm Hg For subsequent cald (1.21*m+b)/[Sqrt(2 Checked by:	culation of sampler flow:		Date:	4-Fe	b-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:	22-Feb-2022
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

Ambient Condition

Corrected Pressure (mm Hg):	766.6	Temperature (deg K):	283.9
-----------------------------	-------	----------------------	-------

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

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.34	0.727	25.2	25.98
2	1.54	0.777	27.0	27.81
3	1.77	0.834	29.0	29.80
4	1.94	0.872	30.1	30.97
5	2.20	0.930	31.9	32.80

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

m=	33.5276	b=	1.7125	Corr. Coeff=	0.9994
Sample	er set point(SSP)	41	CFM		
Qstd = 1/m[Sqrt(H2 IC = I[Sqrt(Pa/Pstd	PO(Pa/Pstd)(Tstd/Ta))-b] D(Tstd/Ta)]		Calculations m = sampler slope b = sampler intercept		
Qstd = standard flo IC = corrected char I = actual chart resp m = calibrator Qstd b = calibrator Qstd Ta = actual tempera Pa = actual pressure Tstd = 298 deg K Pstd = 760 mm Hg	w rate t response ionse d slope intercept ture during calibration (deg K) e during calibration (mm Hg) ulation of sampler flow:		I = chart response Tav = average temperature Pav = average pressure		
Checked by:	菱银石		Date:	22-Fe	b-22

Appendix I The Certification of Laboratory with HOKLAS Accredited Analytical Tests



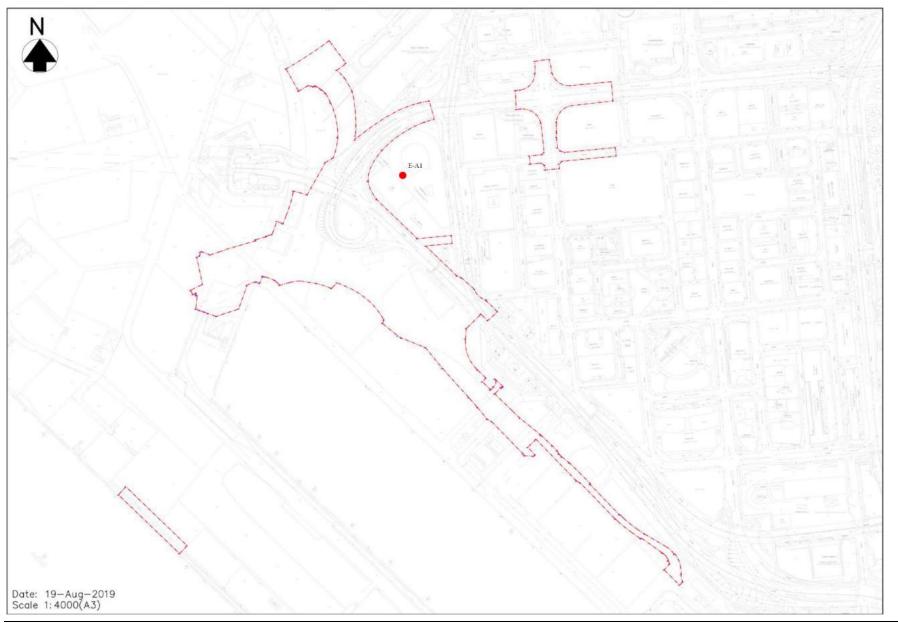
Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書說回書灌證可處訂立的框款及條件程出

L001875

註冊號碼:

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:	4, 10, 16, 22 and 28 February 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)					
04/02/2022	Fine	9:10	53	55	62					
10/02/2022	Fine	9:00	61	69	68					
16/02/2022	Fine	8:57	59	64	66					
22/02/2022	Cloudy	10:29	44	52	41					
28/02/2022	Fine	9:20	58	53	55					

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

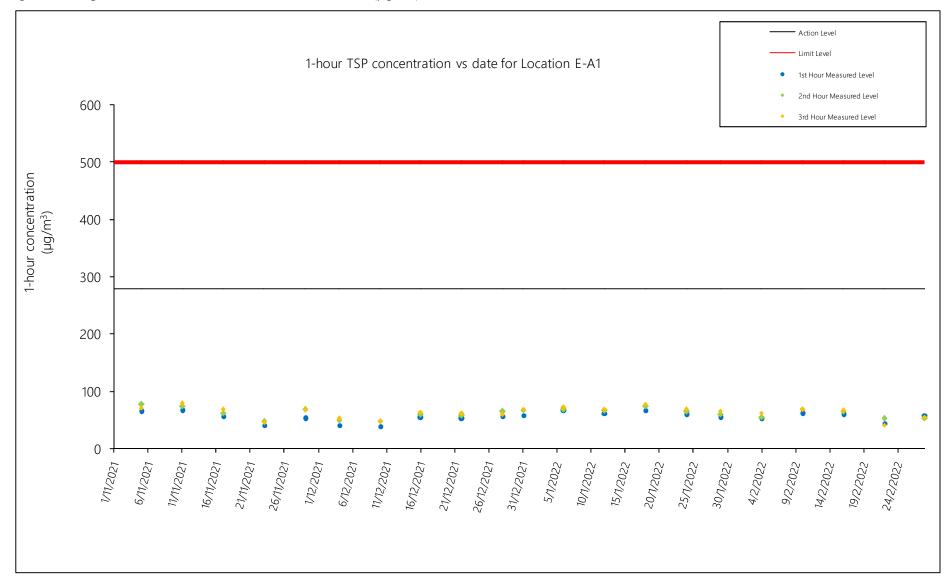


Figure 1: Graphical Illustration of Measured 1-hour TSP (µg/m³) Levels at E-A1

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 22 and 28 February 2022
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

											Calibration: on due date:			Slope = Intercept =	
										Date of	Calibration:	18-Jan-22		Slope =	33.5276
										Calibrati	on due date:	1-Feb-22		Intercept =	1.7125
Start Date	Weather		Elapse Time		Chart Reading		Avg Air Temp	Avg Atmospheric Pressure	Flow Rate	Standard Air Volume	Filter Weight	(g)	Particulate weight	Conc.	
	Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m ³ /min)	(m ³)	Initial	Final	(g)	(µg/m ³)
4/2/2022	Fine	3382.68	3406.68	1440.00	40	42	41.0	14.4	1021.4	1.18	1696	2.7746	2.8115	0.0369	22
10/2/2022	Fine	3406.68	3430.68	1440.00	39	41	40.0	17.0	1017.7	1.13	1629	2.7437	2.7915	0.0478	29
16/2/2022	Fine	3430.68	3454.68	1440.00	39	40	39.5	16.9	1016.0	1.11	1601	2.7681	2.8210	0.0529	33
22/2/2022	Cloudy	3454.68	3478.68	1440.00	39	41	40.0	10.7	1022.0	1.2	1701	2.7757	2.7896	0.0139	8
28/2/2022	Fine	3478.68	3502.68	1440.00	38	41	39.5	18.9	1018.6	1.1	1648	2.7432	2.8244	0.0812	49

min

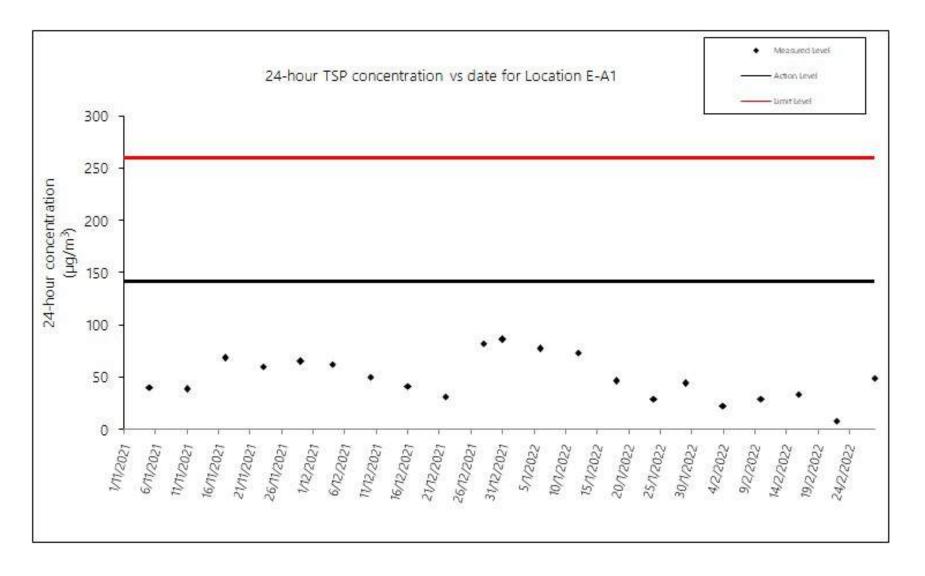
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Acuity Sustainability Consulting Ltd.

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



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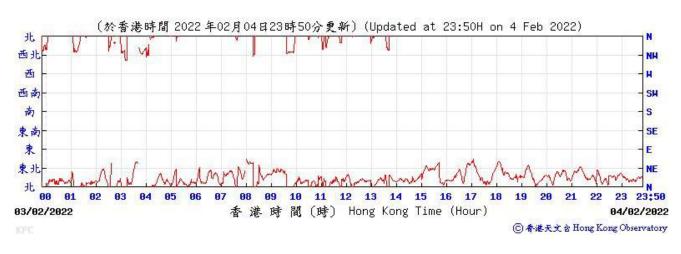
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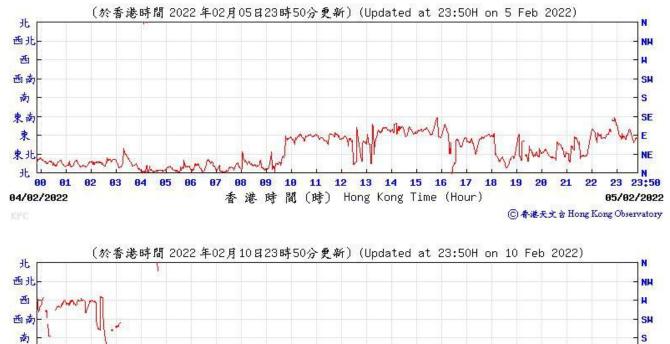
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WIND DIRECTION DATA FOR 4,5,10,11,16,17,22,23,28 February 2022 and 1 March 2022



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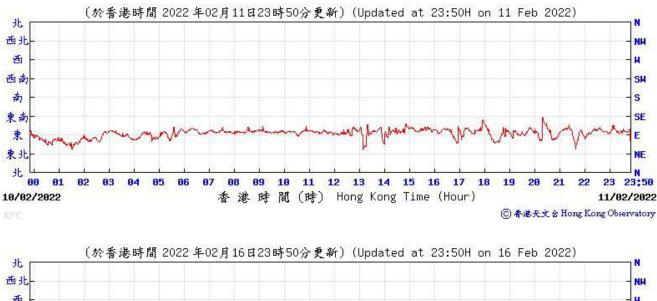
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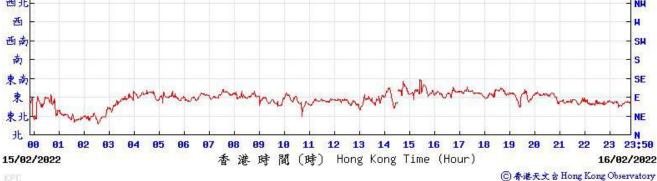
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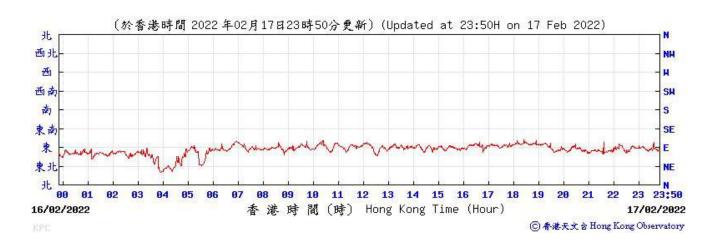
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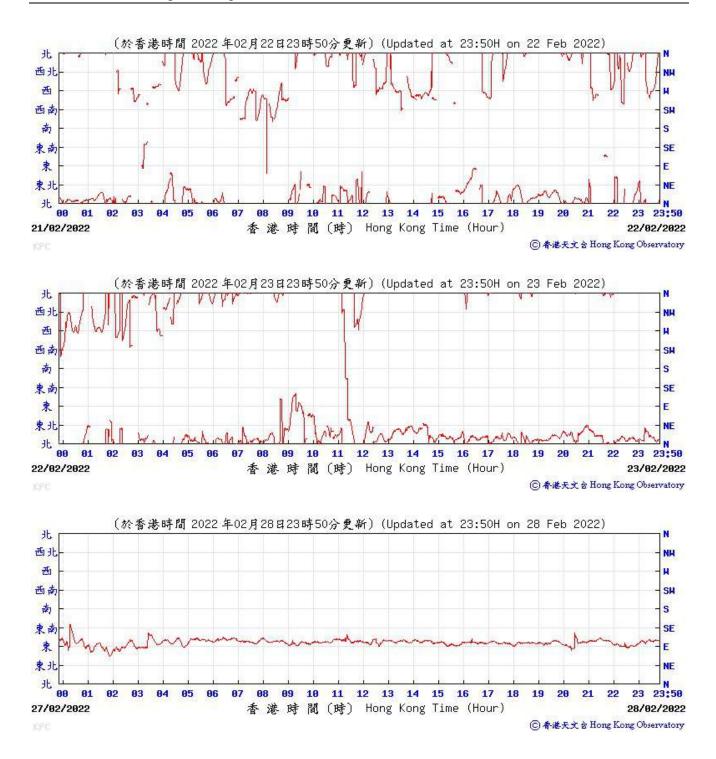
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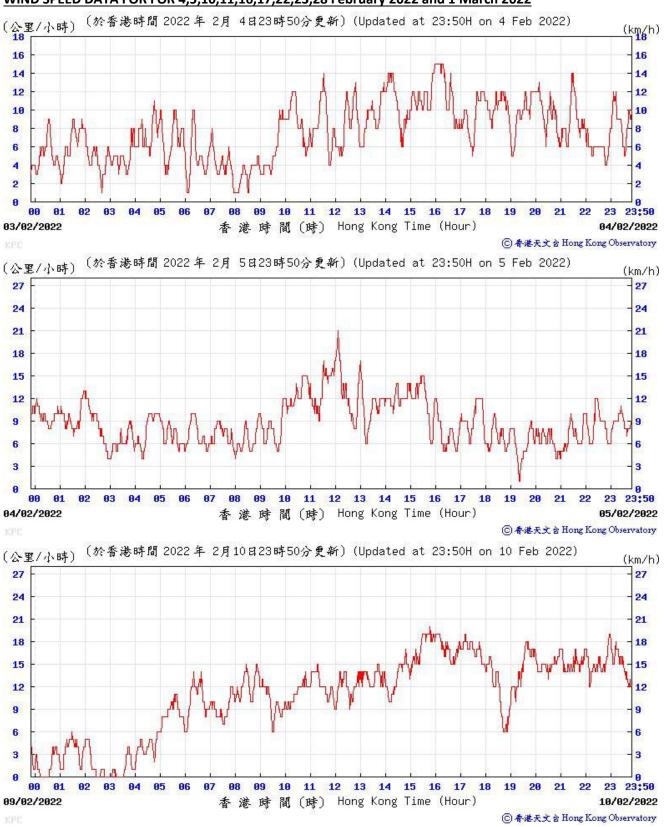




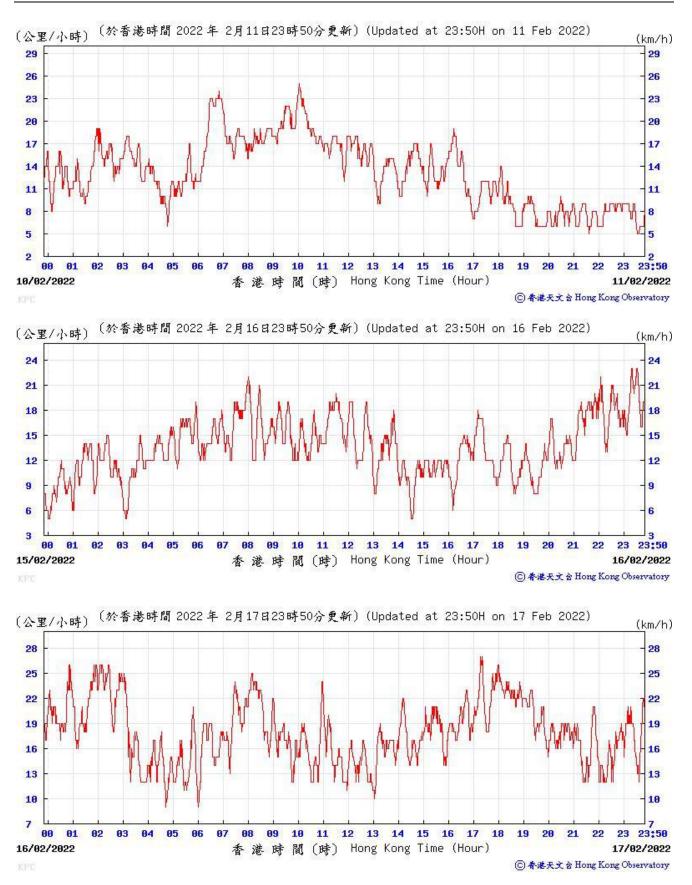


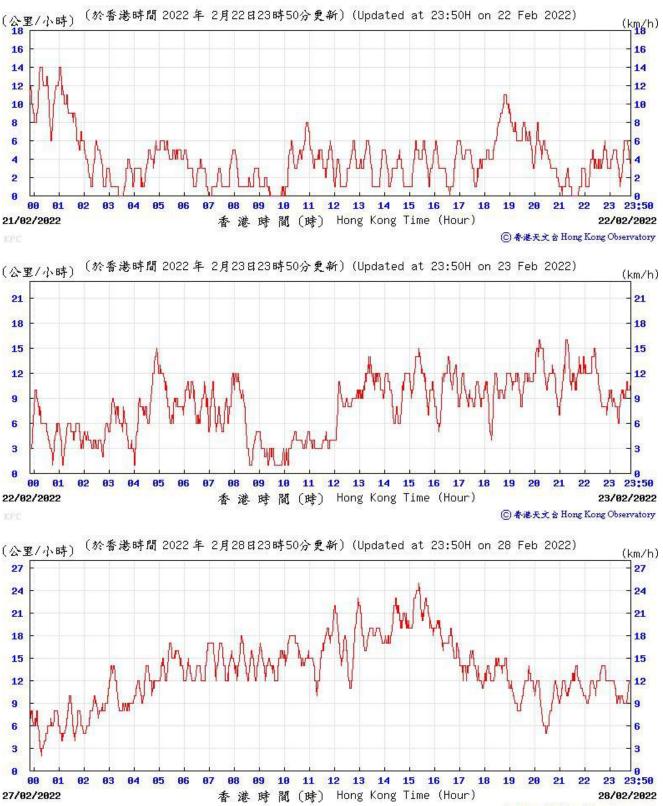




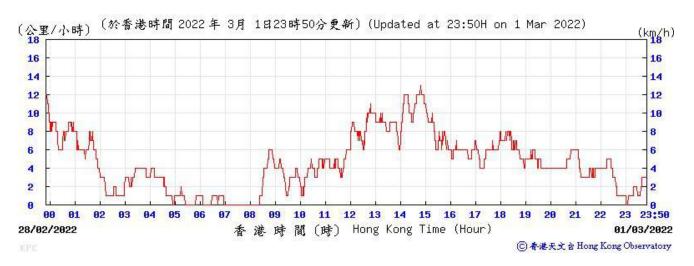


WIND SPEED DATA FOR FOR 4,5,10,11,16,17,22,23,28 February 2022 and 1 March 2022





② 香港天文 含 Hong Kong Observatory



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 February 2022

[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	-	-	-	-	-	-		
Apr-22	-	-	-	-	-	-		
May-22	-	-	-	-	-	-		
Jun-22	-	-	-	-	-	-		
Jul-22	-	-	-	-	-	-		
Aug-22	-	-	-	-	-	-		
Sep-22	-	-	-	-	-	-		
Oct-22	-	-	-	-	-	-		
Nov-22	-	-	-	-	-	-		
Dec-22	-	-	-	-	-	-		
Total	2,576.97	0	0	0	2,402.15	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	253,206.05	340.00	380.00	75,311.99	172,617.83	1,109.00		

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly								
Month	(g) Metals		(h) Paper/ cardboard packaging		(i) Plastics		(j) Chemical Waste		(k) Others, e.g. General Refuse disposed at Landfill
	(in '(000kg)	(in '0	00kg)	(in '00	00kg)	(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	-	-	-	-	-	-	-	-	-
Apr-22	-	-	-	-	-	-	-	-	-
May-22	-	-	-	-	-	-	-	-	-
Jun-22	-	-	-	-	-	-	-	-	-
Jul-22	-	-	-	-	-	-	-	-	-
Aug-22	-	-	-	-	-	-	-	-	-
Sep-22	-	-	-	-	-	-	-	-	-
Oct-22	-	-	-	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-	-	-	-
Total	0	0	0.31	0.31	0	0	0	0	174.51
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	2.17	2.17	-	-	-	-	2,186.36

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

Donouting Douiod	Environmental Complaint Statistics			
Reporting Period	Frequency	Cumulative	Complaint Nature	
1February 2022– 28 February 2022	0	2	N/A	

Statistical Summary of Environmental Non-compliance

Donouting Donio d	Environmental Non-compliance Statistics			
Reporting Period	Frequency	Cumulative	Details	
1February 2022– 28 February 2022	0	0	N/A	

Statistical Summary of Environmental Summons

Departing David	Environmental Summons Statistics			
Reporting Period	Frequency	Cumulative	Details	
1February 2022– 28 February 2022	0	0	N/A	

Statistical Summary of Environmental Prosecution

Donouting David	Environmental Prosecution Statistics			
Reporting Period	Frequency	Cumulative	Details	
1February 2022– 28 February 2022	0	0	N/A	

Appendix N Monitoring Schedule of the Coming Month

Marc	ch 2022					
Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	1	2	3	4 Impact Dust monitoring (E-A1)	5
6	7	8	9	10 Impact Dust monitoring (E-A1)	11	12
13	14	15	16 Impact Dust monitoring (E-A1)	17	18	19
20	21	22 Impact Dust monitoring (E-A1)	23	24	25	26
27	28 Impact Dust monitoring (E-A1)	29	30	31	1	2
		-				

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. 17 (February 2022)

Version 1 Date of Report: 9 March 2022

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

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

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

CINOTECH CONSULTANTS LTD

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Environmental Permit No. EP-457/2013/D

Central Kowloon Route

Independent Environmental Checker Verification

Works Contract:	Buildings, Electrical and Mechanical Works (HY/2019/13)
-----------------	---

Reference Document/Plan

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.17
Date of Report:	9 March 2022 (Version 1)
Date received by IEC:	9 March 2022

Reference EP Condition

Environmental Permit Condition:

Submission of Monthly EM&A Report of the Project

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

3.4

IEC Verification

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

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

9 March 2022

Our ref: 0436942_IEC Verification Cert_BEM_Monthly EM&A Rpt No.17_20220309.docx

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EXECUTIVE SUMMARY

Introduction

- This is the 17th 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 February 2022 – 28th February 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 8, 15 & 22 February 2022, whereas joint site inspection with the representative of IEC was conducted on 15 February 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 (February 2022) and the investigation results and/or follow-up actions is provided below:

Air Quality Monitoring

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

Landscape and Visual Monitoring

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

Complaint Handling, Prosecution and Public Engagement

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

Event	E	vent Details	Follow up/Domodial Actions	Status/
Event	Number	Brief Description	Follow-up/ Remedial Actions	
Complaints	0			
Received	0	-	-	-
Notification of				
Summons and	0			
Prosecutions	0	-	-	-
Received				

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

Reporting Changes

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

Future Key Issues

- 7. The key works or activities will be anticipated in the coming two months are as follows:
 - Piling works (pipe piles and sheet piles).

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 17th 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 February 2022 – 28th February 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	
	incy i reject contacts	

	J J		
Party	Role	Contact Person	Phone No.
AMMJV	Engineer Representative	Mr. Dennis Yu	3695 0419
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
ERM	Independent Environmental Checker	Ms. Mandy To	2271 3313
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

Permit / License No.	Valid I	Status							
Fernit / 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	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	Гак Site (General W	orks [grouting, pili	ng])						
GW-RE0944-21	24 Sep 2021	23 Mar 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 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)	Paper/cardboard Packaging (in '000kg)	Chemical waste (in '000kg)							
February 20221.121		1.121	0.029	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 15 February 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 8, 15 & 22 February 2022 in the reporting month. Joint site inspection with the representative of IEC was conducted on 15 February 2022. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

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

Parameters	Date	Observations	Follow-up Actions
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Air Quality	15 Feb 2022	Cement bags should be covered properly at Kai Tak Ventilation Building Site.	Cement bags had been been covered properly at Kai Tak Ventilation Building Site.
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A
Waste / Chemical Management	8 Feb 2022	Chemical should be placed on drip tray at Kai Tak Ventilation Building Site.	Chemical had been removed 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 air quality could be referred to Appendix D of the EM&A report in Contract No. HY/2018/02.

Air Quality Monitoring

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

Landscape and Visual Monitoring

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

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

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

Status of Required Submission under Environmental Permit

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

Table 6.2 Status of Required Submission under Environmental Permit

EP Condition (EP-457/2013/D)	Submission	Submission Date		
Condition 3.4	Monthly EM&A Report (January 2022)	14 February 2022		

7 FUTURE KEY ISSUES

- 7.1 Major site activities undertaken for the coming two months include:
 - Piling works (pipe piles and sheet piles).
- 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 17th Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1st February 2022 – 28th February 2022 in accordance with the EM&A Manual and the requirements under the EP.

Air Quality Monitoring

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

Landscape and visual

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

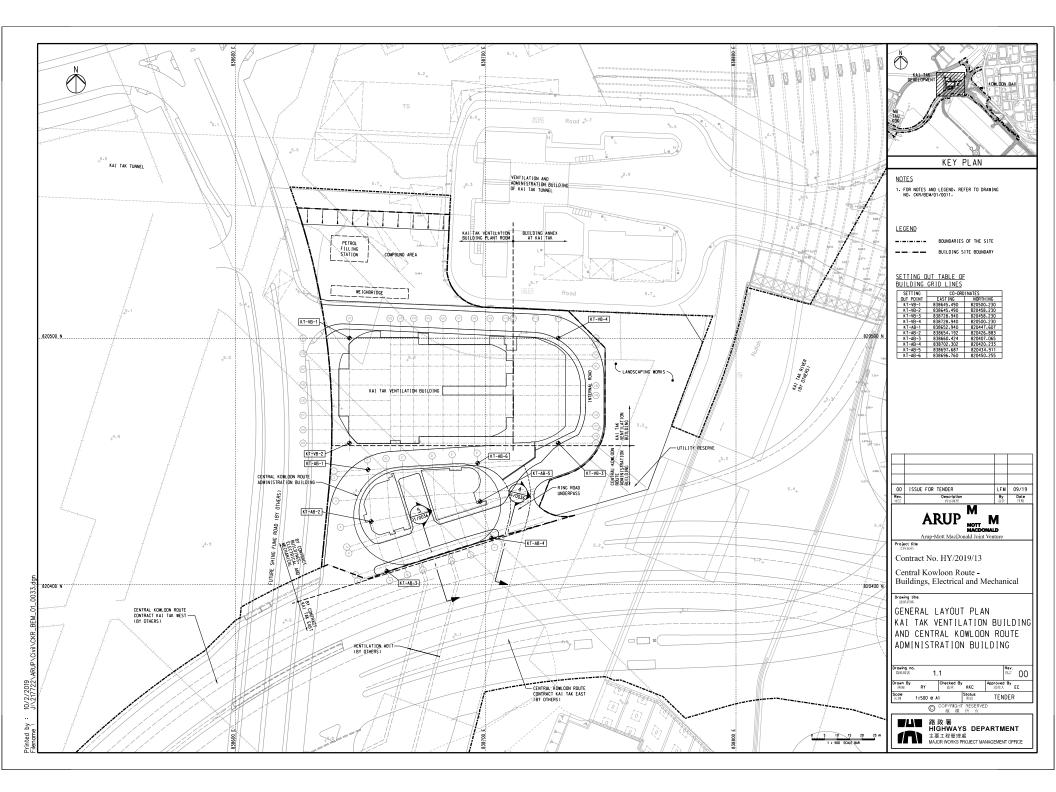
Site Audit

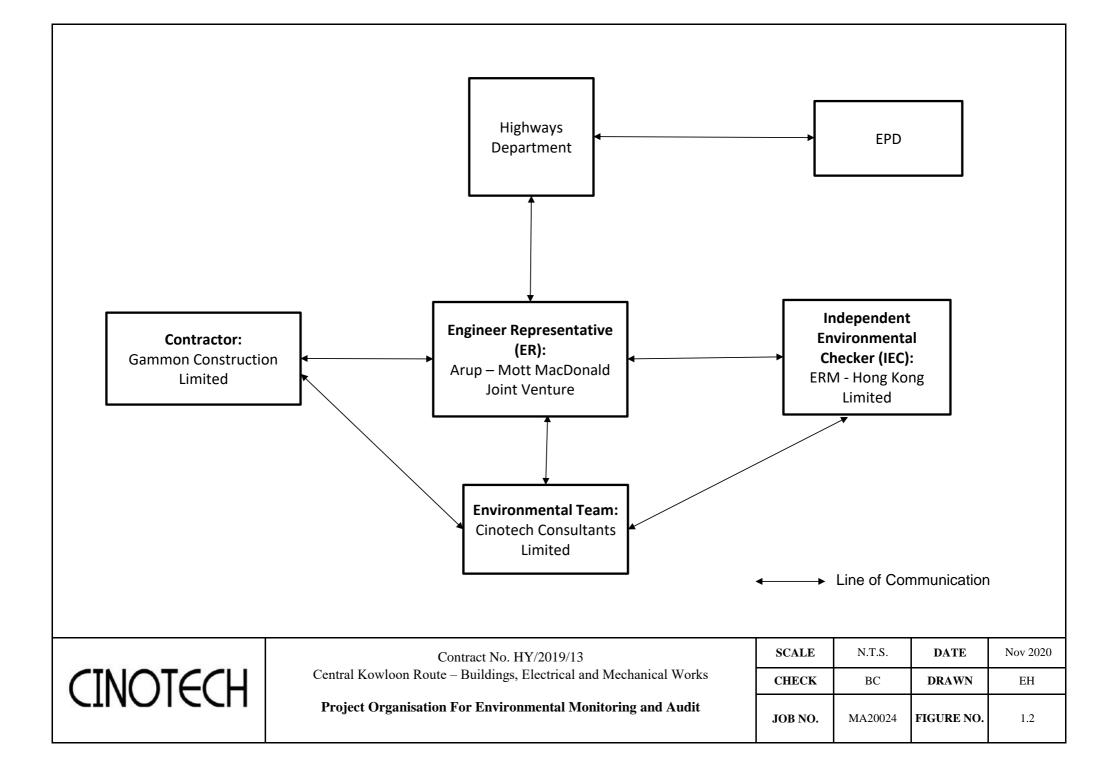
8.4 3 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 8, 15 & 22 February 2022, whereas joint site inspection with the representative of IEC was conducted on 15 February 2022. All environmental deficiencies observed during site inspections were rectified by the Contractor.

Complaint, Notification of Summons and Successful Prosecution

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

FIGURES



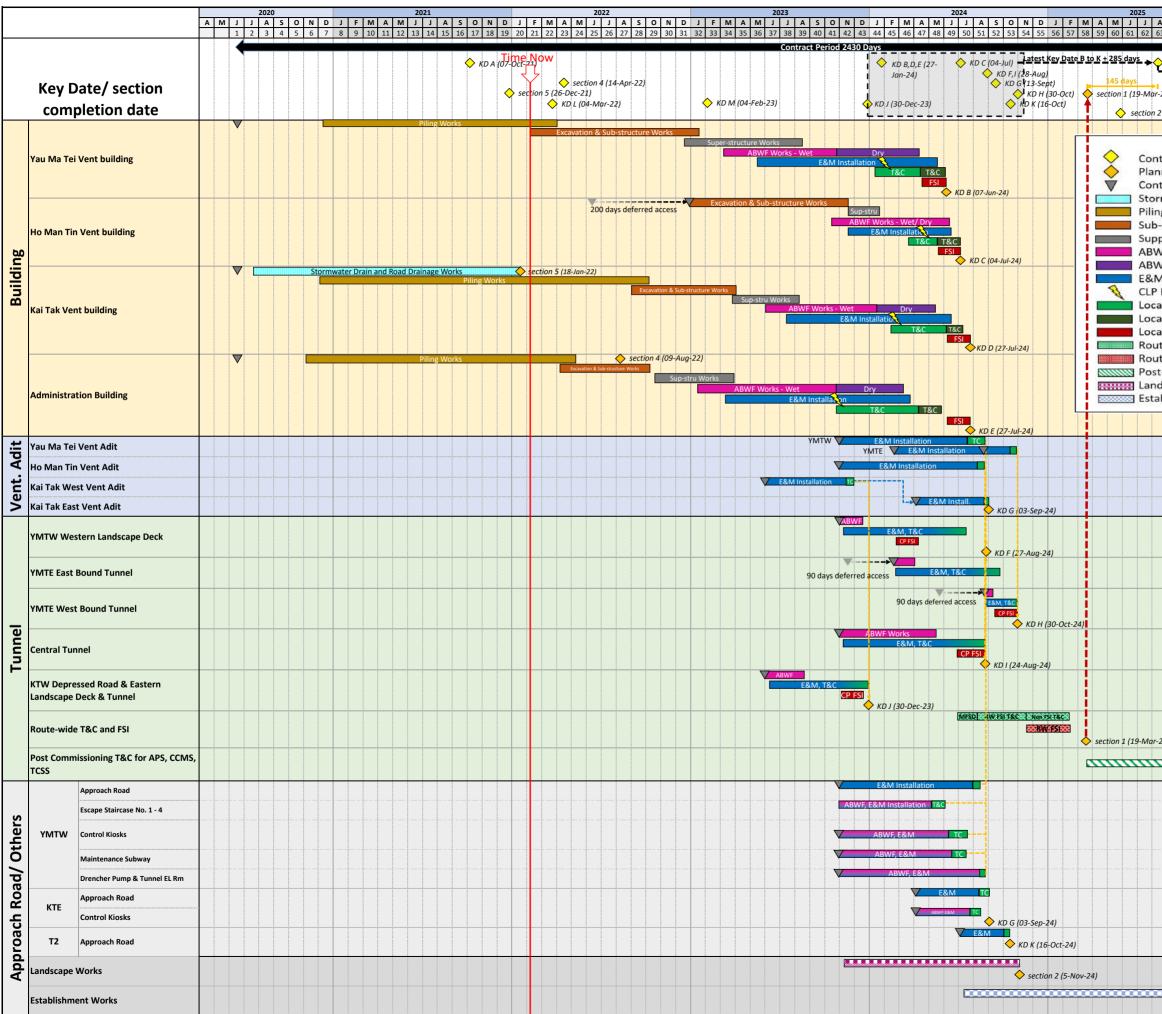


APPENDIX A CONSTRUCTION PROGRAMME



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

Summary Programme





										20	26							20	27	
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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

			•	forming but	ininary was		10 101 <u>202</u>					
		Actual Quanti	tes of Inert C&D	Materials Genera	ated Monthly			Actual	Quantites of C&	D Waste Genera	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	0	0	1.451	0	0	0	0	0	0	0.017
Feb	1.121	0	0	0	1.121	0	0	0	0	0	0	0.029
Mar												
Apr												
May												
Jun												
Sub-Total	2.573	0	0	0	2.573	0	0	0	0	0	0	0.046
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total (2022)	2.573	0	0	0	2.573	0	0	0	0	0	0	0.046
Total (whole)	21.781	0	0	0	21.781	0	0	0	0	1.080	0	0.314

Monthly Summary Waste Flow Table for <u>2022</u> (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:

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 "bulk" 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	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
	n Dust Impact							
S4.3.10	D1	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	^
S4.3.10	D2	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	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	Λ
S4.3.10	D3	construction phase.	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 A A A A A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						٨
		The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.						۸
		Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously.						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						۸
		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.						۸
		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						*
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.	1					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
Construction	n Noise (Airbor	ne)			-			
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨
		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.						۸
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						٨
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						۸
		Mobile plant should be sited as far away from NSRs as possible and practicable.						۸
		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	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
S5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	٨
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	Λ
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
Water Quali	ty (Constructio	on Phase)	-			-		
S6.9.1.1	W1	<u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	To minimize water quality impact from the construction site runoff and general construction activities		All construction sites where practicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	Λ

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.						٨
		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.						Λ
		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	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.						٨
		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.						٨
		All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and site wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel wash bay to the public road should be paved with sufficient backfall toward the wheel wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.						^
		Oil interceptors should be provided in the drainage system downstream of any oil/ fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain.						۸
		Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts.						^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.						٨
		Adopt best management practices. All earth works should be conducted sequentially to limit the amount of						۸
		construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.						
\$6.9.1.2	W2	<u>Tunneling Works and Underground Works</u> Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.	To minimize construction water quality impact from tunneling works	Contractor	All tunneling portion	Construction stage	 Water Pollution Control Ordinance ProPECC PN 1/94 TM-EIAO TM-DSS 	N/A
		Uncontaminated discharge should pass through sedimentation tanks prior to off- site discharge.					111 255	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	<u>Sewage Effluent</u> Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - TM-DSS	Λ

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.5		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 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 yeall not be higher than pollutant levels of groundwater to be recharged shall not be higher than pollutant levels of groundwater to the recharge well. Prior to recharge, an	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	л Л

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.6	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. The Contractor should register as a chemical waste producer if chemical wastes	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 	Λ
		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.						۸
Waste Mana	gement (Const	ruction Waste)		•				
\$7.4.1		<u>On-site sorting of C&D material</u> Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.	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	Α

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement. Carry out on-site sorting. Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible. Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified. 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	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 	Λ Λ Λ Ν/Α Λ
S7.5.1		during the course of construction. <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 used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	 Land (Miscellaneous Provisions) Ordinance Waste Disposal Ordinance ETWB TCW No. 19/2005 	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	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S7.5.1		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	t of construction works within the contaminated	 Practice Guide (PG) for Investigation and Remediation of Contaminated Land GN/GM for land contamination 	٨
S7.5.1		 <u>Land-based and Marine-based Sediment</u> 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	area 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						^ N/A
		seals to their bottom openings to prevent leakage of material. The material shall be placed into the disposal pit by bottom dumping.	-					N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site.						N/A
		Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.						N/A
		For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						N/A
\$7.5.1	WM6	<u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites		 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling 	٨
		Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation.					and Storage of Chemical Waste	*
		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.						Λ

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		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.						Λ
S7.5.1	WM7	<u>General Refuse</u> General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.	Minimize production of the general refuse and	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance	٨
		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.	avoid odour, pest and litter impacts					۸
		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.						٨
		Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.						٨
Land Contar	nination		•					
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	t of construction works within	Practice Guide (PG) for Investigation and Remediation of Contaminated Land - Guidance Notes for	N/A
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.				contaminated area	Contaminated Land Assessment and Remediation • Guidance Manual for	N/A
		The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.					Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to Li							· · · · · · · · · · · · · · · · · · ·	•
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	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	^
Landscape a	nd Visual			I				
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.						۸
S10.10.1 Table 10.11	LV4	Screen Hoarding Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	٨
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 Phase	/	۸
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	Tree Protection & Preservation Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	visual impact	Contractor	Within Project site	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.	visual impact	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.	enhance landscape	Contractor	Within Project site	Construction Phase	 ETWB TCW 3/2006 Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB ETWB TCW 2/2004 	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV10	Screen Planting Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction Phase	 Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB ETWB TCW 2/2004 	N/A
S10.10.1 Table 10.11	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		The contractor should be alerted during the construction on the possibility of locating archaeological remains and as a precautionary measure, AMO shall be informed immediately in case of discovery of antiquities or supposed antiquities in the subject sites.	To preserve any cultural heritage items which may be removed and damaged by the excavation	Contractor	During construction works for cut and cover tunnels	During the Construction Phase	 AMOs requirements 	N/A

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

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: February 2022

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

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