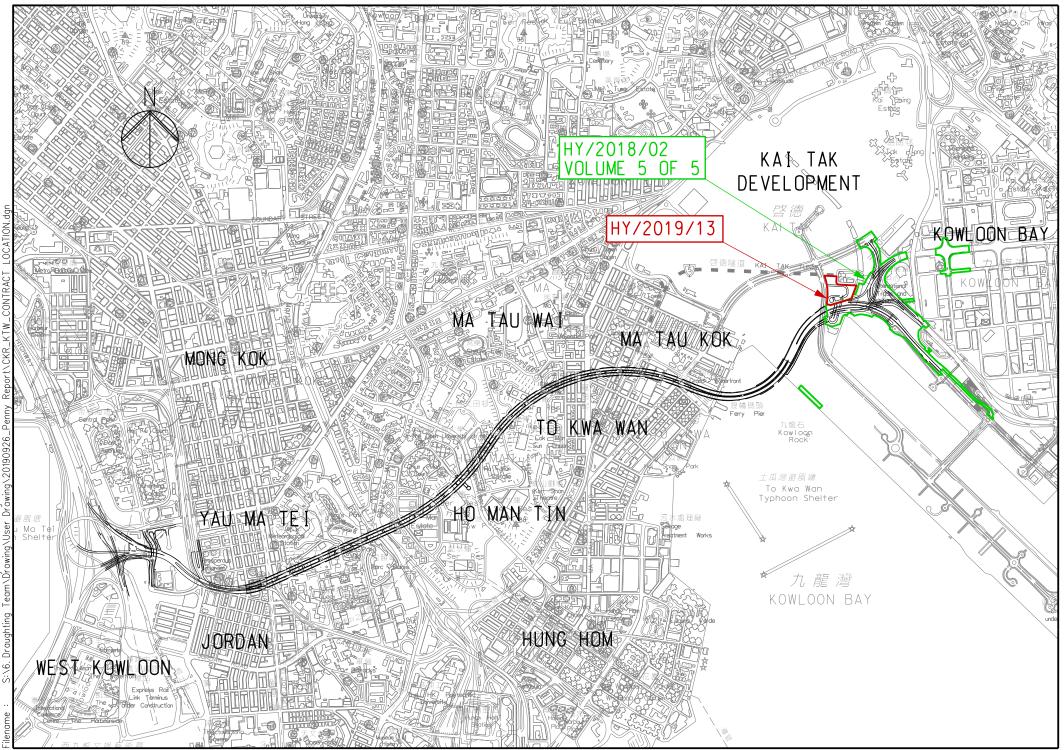
# **Vol. 5 of 5**

# 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) May 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.33 (May 2022)
Date of Report:	10 June 2022 (Rev. 1)
Date received by IEC:	10 June 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/<del>plan</del> complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

10 June 2022

Our ref: 0436942\_IEC Verification Cert\_KTE\_Monthly EM&A Rpt No.33.docx





## Alchmex – Paul Y Joint Venture

## Central Kowloon Route Contract HY/2018/02

## Section of Kai Tak East

Monthly EM&A Report No. 33

## (Period from 1 to 31 May 2022)

## Rev. 1

## (10 June 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)	K.

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#### **EXECUTIVE SUMMARY**

- A.1 Alchmex Paul Y Joint Venture ("Contractor") commenced the construction works of Highway Department (HyD) Central Kowloon Route Contract No. HY/2018/02 – Section of Kai Tak East ("The Project") on 9 September 2019. This report is the 33<sup>rd</sup> monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the period from 1 May 2022 to 31 May 2022.
- A.2 A summary of major Construction activities by Contractor for the Project during the reporting month is listed below.

#### **Construction Activities undertaken**

- Pile Cap Construction at U Turn, Portion 1A,Portion 3B & Portion 2B.
- RC structure for Adit at Area Part 1B.
- RC structure for Underpass S3 at Portion 3B.
- Construction of Temporary Platform at Kai Tak Nallah.
- Retaining Wall Construction at U-Turn & Portion 2B.
- Sheet piling Work at U-Turn & Portion 3B.
- Socket-H pile construction at Adit
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

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

- A.4 Joint weekly site inspections were conducted by representatives of Environmental team (ET), Contractor and Engineer on 4, 11, 18 and 25 May 2022. Also, a joint site inspection with Independent Environmental Checker (IEC) was undertaken on 11 May 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 4 and 18 May 2022. Details of the audit findings and implementation status are presented in Section 5.
- A.6 Details of waste management are presented in Section 3.
- A.7 No exceedance of the Action and Limit Levels of 24-hour TSP and 1-hour TSP monitoring were recorded during the reporting month.
- A.8 No complaint or non-compliance was received in the reporting month.
- A.9 No notification of summons and prosecution was received in the reporting period.

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

#### Construction Activities to be undertaken

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

#### **BASIC PROJECT INFORMATION**

- 1.1. Central Kowloon Route (CKR) is a 4.7 km long dual 3-lane trunk road in Central Kowloon linking Yau Ma Tei Interchange in West Kowloon with the road network on Kai Tak Development and Kowloon Bay in East Kowloon.
- 1.2. The Central Kowloon Route Design and Construction Environmental Impact Assessment Report (Register No.: AEIAR-171/2013) was approved with conditions by the Environmental Protection Department (EPD) on 11 July 2013. An Environmental Permit (EP 457/2013) was issued on 9 August 2013. Variations of EP (VEP) was subsequently applied for and the latest EP (EP-457/2013/D) was issued by EPD on 15 June 2021.
- 1.3. The construction of the CKR had been divided into different sections. This Contract No. HY/2018/02 Section of Kai Tak East (KTE) covers part of the construction activities located at Kai Tak under the EP which includes:
  - Section of Kai Tak East
  - i. construction of an approximately 700m long dual 2-lane Central Kowloon Route mainline at Kai Tak, including at-grade roads and bridges;
  - ii. construction of Kai Tak Interchange, including bridges, underpass, and associated at-grade slip roads, connecting the Central Kowloon Route with the existing road network;
  - iii. construction of a footbridge, and demolition/backfill of an existing subway across Kai Fuk Road;
  - iv. realignment of existing Kai Fuk Road, Kai Cheung Road and Kai Cheung Road/Kai Fuk Road loop road;
  - v. reconstruction of an approximately 30m long existing multi-cell box culvert;
  - vi. construction of an approximately 130m long underground ventilation and E&M audit;
  - vii. construction of Ring Road Underpass, connecting Central Kowloon Route mainline and Central Kowloon Route Administration Building;
  - viii. junction improvement works at existing Wang Kwong Road/Kai Cheung Road and Wang Kwong Road/Lam Hing Street junctions;
  - ix. arrangement and implementation of cross boundary disposal of construction and demolition materials; and
  - x. associated roadworks, drainage, waterworks, landscaping works, geotechnical works, and electrical and mechanical works.

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

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

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

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

#### Table 1.2 Summary of the Status of Valid Environmental Licence,

Permit/ Licences/	Valid Period			
Notification /Reference No.	From	То	Status	Remark
<b>Environmental Permit</b>		· · ·		
EP-457/2013/D	15 Jun 2021	End of Project	Valid	-
Wastewater Discharge Lie				
WT00035029-2019	17-Dec-19	31-Dec-24	Valid	-
Notification of Constructi				ion Dust) Regulation
445001	Apr-19	Dec-23	Notified	-
Chemical Waste Produce		1		1
WPN5113-247-A2940-01	17-May-19	End of Project	Valid	-
<b>Billing Account for Dispo</b>	sal of Constructi	on Waste		
7034073	15-Jun-19	End of Project	Valid	-
<b>Construction Noise Permi</b>	it	1		
GW-RE0231-22	8-Mar-22	16-Sep-22	Valid	General Work for Area A
GW-RE0234-22	8-Mar-22	16-Sep-22	Valid	General Work at Area B
0 W-RE0234-22	0-1v1a1-22	10-Sep-22		and Site Office
GW-RE0201-22	22-Mar-22	11-Sep-22	Valid	Portion 2B
GW-RE0069-22	3-Feb-22	25-Jul-22	Valid	Kai Cheung U Turns
GW-RE0079-22	13-Feb-22	31-May-22	Valid until	Road Diversion at Kai
GW-KE0079-22	15-Feb-22	51-Way-22	31-May-22	Fuk Road
GW-RE0252-22	24-Mar-22	7-May-22	Valid until	Removal of Existing
0 W-RE0232-22	24-1 <b>v1a1-</b> 22	/-1 <b>v1</b> ay-22	7-May-22	Gantry
GW-RE0465-22	19-May-22	30-Jun-22	Valid	High Checker Installation
GW-RE0469-22	20-May-22	15-Aug-22	Valid	Central Divider Removal
GW-RE0508-22	31-May-22	31-Jul-22	Valid	Portal Erection

#### 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 (April 2022)	14 May 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 16 May 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 1<sup>st</sup> 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 m<sup>3</sup>min<sup>-1</sup>, which was within the range specified in the EM&A Manual (i.e. 0.6- 1.7 m<sup>3</sup>min<sup>-1</sup>);
- 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, 21, and 27 May 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.

<b>Monitoring Location</b>	Range(µg/m <sup>3</sup> )	Action Level(µg/m <sup>3</sup> )	Limit Level(µg/m <sup>3</sup> )
E-A1 49 - 67 Table 3.6 Summary of 24 Monitoring Location Range(µg/m <sup>3</sup> )		279	500
Ta	ble 3.6 Summary of 24-ho	our TSP Monitoring Result	S.
<b>Monitoring Location</b>	Range(µg/m <sup>3</sup> )	Action Level(µg/m <sup>3</sup> )	Limit Level(µg/m <sup>3</sup> )
E-A1	Monitoring Location Range(µg/m <sup>3</sup> )		260

Table 3.5 Summary of 1-hour TSP Monitoring Results	Table 3.5	i Summar	of 1-hour TS	P Monitoring Results
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#### 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&	Non-inert C&D Materials									
			Others,											
			e.g.	Recy	ycled material	S								
Demonstration of the second second	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)											
May-2022	1449.54	0.00	93.10	0.05	0.00	141.03								

Table 3.7 Qua	antities o	of waste	generated	from	the	Projec	t
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#### COMPLAINTS, NOTIFICATION 4. SUMMARY OF **SUMMONS** OF AND **PROSECUTIONS**

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

Table 4.1 Environmental Complaint Handling Procedure         Complaint Received via Project Hotline       Complaint Received via 1823 or from other government departments         Contractor notify ER, ET and IEC       ER notify Contractor, ET and IEC         Contractor log complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint       Image: Contractor, ET and IEC         If complaint is considered not valid       If complaint is found valid       Image: Contractor to identify and implement remedial measures in consultation with the IEC, ET and ER.         ET or ER to reply the complaint if necessary       Contractor to identify and implement remedial measures in consultation with the IEC, ET and ER.         If the complaint is referred by the EPD, the Contractor's remedial measures and the updated situation; ET to undertake additional monitoring and audit to verify the situation if necessary, and overse that circumstances leading to the complaint do not recur. ER to conduct further inspection as necessary.         If the complaint is referred by the EPD, the Contractor to prepare interim report on the status of the complaint investigation and follow-up actions stipulated above, including the details of the remedial measures and additional monitoring identified or already taken, for submission to EPD within the time frame assigned by the EPD         The ET to record the details of the complaint, results of the investigation, subsequent actions taken to address the complaint and updated situation including the effectiveness of the remedial measures, more the medial including the effectiveness of the remedial measures, moreard barrene the including the effectivenes											
Complaint Received via	Project Hotline	Complaint Received via	a 1823 or from other								
		government departments									
Contractor notify ER, ET	and IEC	ER notify Contractor, ET	and IEC								
Contractor log complain	nt and date of receipt ont	o the complaint database. C	ontractor, ER and ET to								
	conduct investig	gation of complaint									
If complaint is considered	d not valid	If complaint is found vali	d								
ET or ER to reply the con	mplainant if necessary	Contractor to identify a	nd implement remedial								
		measures in consultation	with the IEC, ET and								
		ER.									
		of the Contractor's rem	edial measures and the								
	government departments  itify ER, ET and IEC ER notify Contractor, ET and IEC  og complaint and date of receipt onto the complaint database. Contractor, ER and ET to conduct investigation of complaint s considered not valid If complaint is found valid  contractor to identify and implement remedial measures in consultation with the IEC, ET and ER. The ER, ET and IEC to review the effectiveness of the Contractor's remedial measures and the updated situation; ET to undertake additional monitoring and audit to verify the situation if necessary, and oversee that circumstances leading to the complaint do not recur. ER to conduct further inspection as necessary.										
		monitoring and audit to	verify the situation if								
		further inspection as nece	essary.								
-	•	1 1	-								
1 0	-										
measures and additiona	-	-	sion to EPD within the								
	time frame ass	igned by the EPD									
	-	_	-								
-	-	•									
supported by reg	ular and additional moni	toring results in the monthl	y EM&A reports								

Table 4.1 Environmental Complaint Handling Procedure
--

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

#### 5. EM&A SITE INSPECTION

- 5.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, 4 site inspections were carried out by the representative of ET, Contractor and Engineer on 4, 11, 18 and 25 May 2022, along with bi-weekly inspection of the implementation of landscape and visual mitigation measures conducted on 4 and 18 May 2022.
- 5.2. One joint site inspection with IEC also undertaken on 11 May 2022. Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in Table 5.1.

Date	<b>Environmental Observations</b>	Follow-up Status
4 May 2022	NA	NA
11 May 2022	NA	NA
18 May 2022	1.Oil leakage are observed at S3 area.	1. Oil leakage are cleaned.
25 May 2022	1.Chemicals containers should be stored	1. Chemicals containers are
23 Widy 2022	with drip tray at S1 area.	removed.

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.

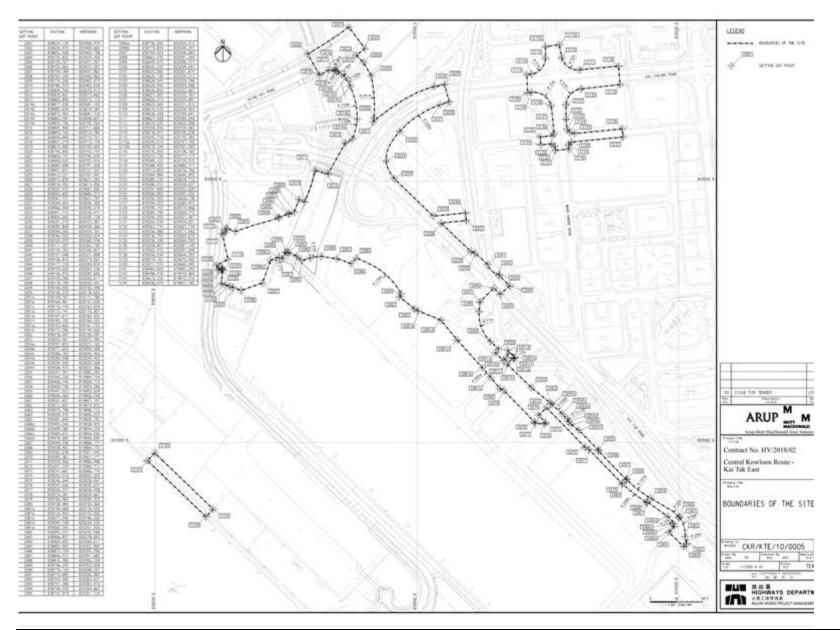
#### 6. **FUTURE KEY ISSUES**

- 6.1. The construction activities provided by Contractor in the next reporting month are:
  - Pile Cap Construction at U turn, Portion 1A, Portion 3B & Portion 2B.
  - RC structure for Adit at Area Part 1B.
  - RC structure for Underpass S3 at Portion 3B.
  - Construction of Temporary Platform at Kai Tak Nallah.
  - Retaining Wall Construction at U-Turn & Portion 2B.
  - Sheetpiling Work at U-Turn & Portion 3B.
  - Socket-H pile construction at Adit
- 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 33<sup>rd</sup> monthly EM&A Report presents the EM&A works undertaken during the period from 1 May 2022 to 31 May 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 11 May 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 Limited

## Appendix B Construction Programme

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a Date: 25-Mar-2 It Date: 21-Apr-22					Centr				2018/02 - Kai Tak East		Alchmex - Paul Y Joint Venture								
0	Activity Norm	Orig	Ar Sist	Einst	Late Start	Late Finish	Total Fleat	TRA (Dity)	March 35	Apri May 38 ST		June 36	July 39						
ntral Kowl	oon Route - Kai Tak East (Month 35 Up	late) (Re	48 28-Feb-20 A	29-Sep-22	11-Jan-22	24-Jan-26	976	627.00	27 06 13 20	27 03 15 17 34 01 03 15 22 2	9 05	12 19 25 03 10	0 17 2						
	RIES AND GENERAL REQUIREMENTS		90 24-Jun-22 A	31/140/22	22-40-22	01-Sep-25	961	0.00											
	Dates and Milestones							8.90											
Key Dates			37 16-Mar-22 A	30-Apr-22	04-May-22	04-Sep-25	1223	0.00											
Sections of th	ne Works		37 10-Mar-22 A	30-Apr-22	04-May-22	04-Sep-25	1223	0.00											
KD-17	KD17 - Section 17: Comprises the completion of sleave pipes	for DCS within	0	10-Mar-22 A		04-Sap-25			•										
KD-04	Parts 1D4, 2D, 2E & 3D (459 days) KD04 - Section 4: Comprises the Establishment Works for Lan	dscape	0	30-Apr-22*		04-May-22	4	-											
Section Subje	Softworks under Section 3 (365 days)	27.75.7	0 22-407-22	22-Apr-22	22-Apr-22	27-Apr-27	0	0.00											
SE-505	PM's Notify to execute Section 5 of the Viorks (Latest Date 1.0	96 daw)	0 22-Apr-22*		22-Apr-22		0												
SE-506	PM's Notify to execute Section 6 of the Works (Latest Date 1,0	1000	0 22-Apr-22*		22-Apr-22		0	_	a a a l										
		ane unitaj	0 14-3m-22 A	245a0-22-A	05-1401-23	AF-Ann-33		1000	Makana ang katalaka sa katalaka sa katalaka katalaka katalaka katalaka katalaka katalaka katalaka katalaka kat										
	t Safety Audit Scheme ACC D31(5)					05-Nov-23		0.00											
Safety Aduit			0 24-Jan-22 A	29-387-22 A		05409-23		6.00											
SA-1112	6th Safety Audit at 6 months intervals		0 24-Jan-22 A		05-Nov-23														
	edule (WSD/DSD/CLP/TG/PCCW/HKB/AT	C/KT Tur						0.00											
Utilities Month	hly Meeting		51 25-Mar-22	31-May-22	10-348-23	07-Sep-23	376	0.00											
UU-1046	12nd Utilities monthly meeting		0 25-Mar-22	-	10-Jul-23		375												
UU-1048	13rd Utilities monthly meeting		0 31-May-22		07-Sep-23		376												
ESIGN AND	DENGINEERING		05 - 28 Feb 20 A	09-Aug-22	19-Apr-22	-27-Jun-23	257	0.00											
Permanent V	Vorks Design & Engineering							0.00											
DES - Kiosks			96 12-Apr-22	09-Aug-22	28-feb-23	27-Jun-23	257	0.00											
DES-1228	DES - Prepare preliminary proposal automission		48 12 Apr 22	13-Jun-22	28-Feb-23	28 Apr 23	257					<b></b>							
DES-1230	DES - Prepare submission of design and drawings		12 14-Jun-22	27-Jun-22	29-Apr-23	13-May-23	257	-											
DES-1232	DES - ICE checking and approval		12 28-Jun-22	12-Jul-22	15-May-23	29-May-23	257	-											
DES-1234	DES - Project Manager checking and approval		24 13-3.6-22	09-Aug-22	30-May-23	27-Jun-23	257	-											
Cost Saving	Design & Engineering		A DU CHINES ( IN	25-Ma-72	07-086-22	07404033	210	0.00											
	ndation of Ring Road Underpass & Ventilation Adit		95 28-Feb-20 A	25-Mar-22	07-Dec-22	07-Dec-22	210	0.00											
	gn for Foundation of Ring Road Underpass & Vent		95 28-Feb-20 A		07-Dec-22	07-Dec-22	210	0.00											
DE5-0198	CSD+F Submit to PM 8: all relevant parties for review and appr	20000000	51 28-Feb-20 A		07-Dec-22	07-Dec-22	210					9							
DE5-0200	CSD-F Consent to start the works	0748	0	25-Mar-22	07-06-22	07-Dec-22	210		5										
							210	_											
	Norks Design & Engineering		37 05 Nov 21 A		19-April 22			0.00											
	ary Works for Bridges		44 05-Nov-21 A		19-Apr-22	14-km-23	190	0.00											
	amp working platform for Bridge S1/S9 over Kai Fi		24 05-Nov-21 A		19-Apr-22	18-May-22	17	0,00											
DES-1322	DES - Project Manager checking and approval; consent to star works		24 05-Nov-21 A		19-Apr-22	18-May-22	17												
DES_TO5 - Te	amp working platform for Bridge S7 over Kai Cheu	ng Slip Roa	50 25-Nar-22	28 May 22	21-May-22	20-301-22	43	0.00											
DES-1324	DES - Prepare preliminary proposal submission		2 25-Mar-22	26-Mar-22	21-May-22	23-May-22	43		•										
Carent Ni Actual War Ditizal Ran	naring Work C	entral Kowl				t (Montl ing Prog			Rev29 - CSD)	Project ID: KTE-WP29_M35 Baseline: Layout KTE - 3 Months Rolling Programme Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	Date 25Nov-21 24Oec-21 25Date-21 24Jon 22 25Feb-22 25Feb-22 25Mor-22	Revision Monthly Programme Kot Statent CSD Programme Rev 20 Monthly Programme Rev 22 Suttert CSD Programme Rev 22 Suttert CSD Programme Rev 23 with MSH M Suttert CSD Programme Rev 23 with MSH M							

D	Activity Name	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (De)	5	35	37		38		39	
DE5-1326	DES - ICE checking and approval	24	28 Mar 22	28-Apr-22	24+151y-22	21-3.m-22	43	-	5 20 21	7 03 10 17 24 01	66 15 12	29 05	12 59	24 03	10 17	24
ES-1328	DES - Project Manager checking and approval; consent to start the Portal	24	29-Apr-22	28-May-22	22-Jun-22	20-349-22	43									
ES T06 - Te	works smp working platform for Bridge S2 & S8 over KF Rd & KC Rd	50	25Mar-22	28-May-22	24-194-72	14-3an-23	190	0.00								
DE5-1330	DES - Prepare preliminary proposal submission	2	25-Mar-22	25-Mar-22	24-May-22	25-May-22	45							8.4		
DES-1332	DES - ICE checking and approval		28-Mai-22	28-Apt-22	17-Nov-22	14-Dec-22	190		-					1		
DES-1334	DES - Project Manager checking and approval, consent to start the Portal		29-Apr-22	28-May-22	15-Dec 22	14-Jan-23	190									
etter service s	uoks S Design for Bridge 58 - 8A-58 to 8D-58		25 Mar 22	12-May-22	01-5ep-22	17-06-22	130	0.0								
								0.01								
DES-1378	DES - Prepare preliminary proposal submission		25-Mar-22	25-Mar-22	01-Sep-22	01-Sep-22	130									
DES-1380	DES - ICE checking and approval		25-Mar-22	08-Apr-22	02-5ep-22	16-5ep-22	130									
DE5-1382	DES - Project Nanager checking and approval; consent to start the ELS works	24	09-Apr-22	12-May-22	17-Sep-22	17-00-22	130									
ES - Tempor	ary Works for Underpasses, Adit and Roads	86	28 Mar-22	14-3/1-22	26-May-22	05-5ep-22	45	0.0		1 1 1						
DES_TO8 - To	emp works for construction of Sign Gantries, Lighting Poles &	86	28 Mar 22	1434-22	26-May-22	05-Sep-22	45	0.00								
DES-1390	DES - Prepare preliminary proposal submission	36	28-Mar-22	14-May-22	26-May-22	(08-Jul-22	45		-							
DES-1392	DES - ICE checking and approval	26	16-May-22	15-Jun-22	09-Jul-22	08-Aug-22	45				-					
DE5-1394	DES - Project Manager checking and approval; consent to start the works	24	16-3un-22	14-301-22	09-Aug-22	05-5ep-22	45						-		-	
DNSTRUCT	TON	446	2540a-21-A	29-5ep-22	11-lan-22	24-383-26	976	627.0								
	orary Traffic Management Scheme															
	for Kai Fuk Road	105	25-3an-32 A	07-3/-32	12-14/1-22	17-3.0-22	-16	0.0								
KFR-TTA-1.1	TTA - Kai Fuk Road - Stage 1.1		25-Jan-22 A		12-May-22	A STATE OF A		202						1 1		
KFR-TTA-1.2	TTA - Kai Fuk Road - Stage 1.2		20-Mar 22 A		12-May-22				11							
	1942.1.2018.002.0024004								1							
KHR-TTA-1.3	TTA - Kai Fuk Road - Stage 1.3		20-Mar 22 A		12-May-22											
K/R-TTA-2	TTA - Kei Puk Road - Stage 2		31-Mar-22 A		12-May-22				- E							
KFR-TTA-2B1	TTA - Kai Fuk Road - Stage 28-1, (Night Work) (Span LE to 15/7A-WB)	0	15-3un-22		19-May-22		-22									
KFR-TTA-3	TTA - Kai Ruk Road - Stage 3	0	07-301-22		17-Jun-22		-16							•		
ection 1 - A	II the Works of the Site, except Section 2 to 17	323	25-Aug-71 A	29 Sep 12.	201000-22	34-38126	9%	487.0								
kh_1 Prelimi	naries Works	169	28-Dec/21 A	29-344-22	29-16-22	21-Apr-23	212	14.00								
Site Establish	ment Works	169	28-Dec-21 A	29-301-22	29-Mar-22	21-Apr-23	212	14.00								
Kai Cheung R	toad U-turn Section (1350 driainpipe diversion) (CE-0024)	12	15-34-22	28-301-22	11-Jui-22	23-Jul-22	-1	2.00								
225 pipes &	Marthole \$4708		15500-22	20.37122	11.56922	25136-222								1 1		
54-5708	5A - ELS for 225 pipes (~17m) & MH 54708	12	15-34-22	28-301-22	11-Jul-22	23-34-22	-4	2.00								-
Temporary s	teel platform over Kai Tak River		28-Dec-21 A	29-3ul-22	29-14a-22	21-Apr-23	212	12.00								
D1A Storge 1					301454-52	10										
1-2036	SE(Slage 1) - Install F3 concrete block and desking for Portion 1 (S1)			24-Jan-22 A		30-Mar-22	-	6.0								
	here and the stand of the second							0.04								
DIA Stope S					10 May 22											
1-2336	SE(Stage 5) - Install F3 concrete block and desking for Portion 3 (OXRW/S4)	72	25-3an-22 A	25-Mar-22 A	10-May-22	10May-22		6.00								
1-2338A	SE - Early removal of cofferdam (S1) and reinstate for bdge failsework	12	25-Reb-22 A	23-Mar 22 A	29-Mar-22	29-Mar-22										
1-23388	SE - Early removal of cofferdam (S3) and reinstate for bidge falsework	12	04-Apt-22	21-Apr-22	04-Apr-23	21-Apr-23	293		+ +							
			2							19 1		Cato		0.9800	1.0	and 1
Current Mi	(MARK)		n Davi	- Kal-	Tak E	+ (Mart)		Inde	CD)	Project ID: KTE-WP29_M35 Baseline:		25-Nov-21 24-Dec-21	Monthly Programme 1 Submit CSD Program	401	TYY	and A DC
Critical Ren	ranng Work	DWIO				t (Monti ng Prog			5D)	Layout: KTE - 3 Months Rolling Programm		25-Dec/21	Monthly Programme I	432	TYP	DC
Retraining	Wax		10	ee wor	an rolli	ng Prog	namn	ie		Filter: TASK filters: 3 Months Rolling_1, K		24-Jan-22 25-Feb-22	Submit CSD Program Submit CSD Program	me Rev 28 with M		00
										1		25-Mar 22	Submit CSD Program			DC

10	Acts by Name	Orig Dur	Stat	Finish	Later Stat	Lale Finish	Total Float	TRA (De)	March 35		April 36			May 17			June 38			July 39		
1-2338E	SE - Early removel of cofferciam (S4A) and reinstate for bdge faisework	12	07-May-22	21-Mity-22	23-Apr-22	07-May-22	-11		27 04 13 20	27 53	10	17 24	01 08	15	22 2	05	12	19 26	00	10	17	24
1-2338F	SE - Early removal of colferctam (54B) and reinstate for bdge faisework		22-Jun-22	06-3.4-22	27-5ep-22	12-08-22	81															
1-2338C	SE - Early removel of coffeedam (CRRE) and reinstate for bdge falsework		24-Jun-22	08-34-22	05-Sep-22	19-5ep-22	61											-				
1-2338D	SE - Early removal of cofferctain (CRRN) and reinstate for bdge falsework		16-301-22	29-34-22	29-449-22	10-Sap-22	37					1										
	-																				1	
	orks for Early Commencement of 8A Pilling Works		23-May-22	23-3.4-22	14May-22	15-Jul-22	7	0.0														
	Smel Deck at KCR near Abutment 16																					
1-1600A	8A - Traffic Deck - Mobilisation; site dearance		23-May-22	24-May-22	14May-22	16-May-22	-7								•							
1-1602	8A - Traffic Deck - Install sheetpiles	6	25-May-22	31-May-22	17-May-22	23-May-22	-7															
1-1604	8A - Traffic Deck - exc to 1st layer of strut; install 1st layer of strut	6	01-Jun-22	08-Jun-22	24-May-22	30-May-22	-7									-						
1-1606	8A - Traffic Dedk - excite 2nd layer of strut; install 2nd layer of strut	6	09-Jun-22	15-Jun-22	31-May-22	07-Jun-22	-7										-		8. 1			
1-1608	8A - Traffic Dedk - construct RC footing (approx 45m3 conc)	8	16-Jun-22	24-Jun-22	08-Jun-22	16-Jun-22	-7										0.	-				
1-1610	8A - Traffic Deck - erection of steel strut and sheetpile deck	24	25-Jun-22	23-3.4-22	17-Jun-22	15-Jul-22	-7											-	-	_	_	
Sch_3.1 Bridge	s S1 Works	176	31-Dec 21 A	25-34-22	29-Ma-22	14-Noy-23	386	24.0			++								1	(	exercise	
S1 - Pile Caps,	Pier / Abutment	65	31-Dec-21 A	20-Mar-22 A	29-Ma-22	29-Mar-22		3.0										111	1			
Abutment 1A-		10	25 Feb -22 A	20-Mar 22 A	29-Ma-22	29-Mar-22		1.0														
3.1-2330	S1 - A-1A-S1 Instal Permeate Nembrane and Backfil	10	25-Feb-22 A	20-Mar-22 A	29-Ma-22	29-Mar-22		1.0														
Pier 1E-S1				28-Jan-22 A		29-Mar-22		2.0		1								1				
3.1-2334	S1 - Corednuct Pier 1E-S1 (2 Lifts)			28-3an-22 A		29-Mar-22		2.0														
	St. Collade Pis 12:51 (2 Lasy						386															
S1 - Deck			03-Man 22 A		29-Ma-22	14-Nov-23		21.0											÷ 1			
S1 - Span 1A-			03-Mar-22-A		29-Mar-22	14-Nov-23	386	10.0														
3.1-2358	51 - Span 1A-1E Palsavork and formivorks	30	03-Mar-22 A	13-Apr-22	29-Ma-22	11-Apr-22	-2	4.0														
3.1-2359	SI - Span 1A-1E Install Bearings	6	14-Apr-22	23-Apr-22	12-Apr-22	21-Apr-22	-2	2.0	nasher ta-dan ta		-								1			
3.1-2360	S1 - Span 1A-1E Web and Soffit	24	25-Apr-22	24-May-22	22-Apr-22	21-May-22	-2	2.0		1				1 1								
3.1-2364	S1 - Span 1A-1E Dedk Section	24	25-May-22	22-Jun-22	23-May-22	20-Jun-22	-2	2.0							<b>Constant</b>	_	_					
3.1-2362	S1 - Span 1A-1E Post-tensioning (Stage 1)	12	27-Jun-22	11-3,4-22	21-Jun-22	05-3:4-22	-5	0.0										-	_	-		
3.1-2366	S1 - Span 1A-1E Remove Palaework & Pormwork	12	12-Jul-22	25-34-22	01-Nov-23	14-Nov-23	386	0.0													_	i.
S1 - Span 1E-1	10	82	04-Apr-22	18-3.4-22	29-Ma-22	14-Nov-23	392	11.0														
3.1-2368	Completion of Pier/Portal 1D-51 / 59	0		0+Apr-22		29-Mar-22	-5	2.0														
3.1-2372	S1 - Span 1E-1D Faisework and formworks	25	06-Apr-22	10-May-22	30-Mar-22	03-May-22	-5	4.0				_	_									
3.1-2374	S1 - Span 1E-1D Install Bearings		11-May-22	17-May-22	04May-22	11-May-22	-5	2.0														
3.1-2376	S1 - Span 1E-1D Web and Soffit		18-May-22	04-Jun-22	12-May-22	28-1104-22	-5	1.0					1		_				6 8			
3.1-2378	S1 - Span 1E-10 Veb ard Solid S1 - Span 1E-10 Deck Section		06-Jun-22	25-Jun-22	30-May-22	20-Jun-22	5	2.0														
																			-	-	-	
3.1-2386	S1 - Span 1E-1D Remove Falsework & Formwork		12-3u+22	18-3.4-22	08/Wov-23	14-14/09-23	392	0.0														
Sch_3.2 Bridge			14-Jan-22 A		30-Apr-22	25-Apr-23	197	33.0											1			
S2 - Piling Wo				28-Jan-22 A	5.62/100/007	24-May-22		0.0														
Piling Works -	ABUT A-2A	1	14-3an-22 A	28-Jan-22 A	24 May 22	24-May-22		0.0														
3,2-2502	S2 - 2A Proof drilling & Pliesteding	1	14-3an-22 A	28-Jan-22 A	24May-22	24-May-22		0.0											1.1			
S2 - Pile Caps,	Pier / Abutment	164	14-Jan-22 A	19-Aug-22	30-Apr-22	25-Apr-23	197	33.0														
														at la		1 82					Dist. 1	
Current Mile Adual Wolf Citizal Rem Citizal Rem Remaining V	Central	Kowloc				st (Monti ing Prog			(Rev29 - CSD)	Baselin Layout:	KTE - 3 Mo ASK filters:	29_M35 nths Rolling Pro 3 Months Rollin		ubmission.		Date 26-Nev-21 24-Dec-21 25-Dec-21 24-Jan-22 25-Feb-42 25-Feb-42 25-Mar-22	Monthly Pro Submit CS Submit CS	Peril Igramme M31 D Programme M32 D Programme I D Programme I D Programme I D Programme I	1 9 Rev 26 2 9 Rev 27 9 Rev 28 with 1	Th Th Th MS4 Mo. Th MS4 Mo. Th	W W W W	ADD DC DC DC DC DC DC DC

	Activity Name	01	Dur Star	Frish	Late Start	Late Finish	Ficat	TRA (Dey	35	April 36			38	-	39 39
Ner 2A		10.0	68 25-Mar-22	20-Jun-22	24-May-22	12-Aug-22	45	7.00	27 05 13 20	27 03 10	17 24 01 08 15 2	2 29 05	12 19	26 03 10	17 24
3.2-2532	S2 - Install sheetpile for pile cap 2A		5 25-Mar-22		24-May-22	2 22/03 <b>2</b> /72	45			_					
3.2-2534	52 - Excavation down to formation level C-2A		10 31-Mar 22	12-Apr-22	30-May-22	10-Jun-22	45	0.00							
3.2-2536	S2 - Prepare pile head (2 rms) 2A		9 13-Apr-22	26-Apr-22	11-Jun-22	21-Jun-22	45								
3.2-2538	S2 - Construct pile rap Cr2A		15 27-Apr-22	16-May-22	22-Jun-22	09-Jul-22	45	2.00							
3.2-2540	S2 - Construct Plor P-2A (3 Lifts)		29 17-May-22	20-3un-22	11-30-22	12-Aug-22	45	3.00					-		
Ner 28			29 25-Mar-22	03-May-22	17-Aug-22	20-Sep-22	116	3.0							
3.2-2550	52 - Construct Plar P-28 (3 Lifts)		29 25-Mar-22	03-May-22	17-Aug-22	20-Sep-22	116	3.00		_					
Ner 2CL/2CR			58 25-Nar-22	08-Jun-22	12-Sep-22	304Nov-22	146	3.0							
10-8562	52 - Construct Pier P-2CR (3 Lifts)		29 25-Mar-22	03-May-22	22-5qp-22	27-0d-22	146		1	us duran hamad					
3.2-2564	S2 - Construct Pier P-2CL (3 Lifts)		29 04-May-22	08-Jun-22	28-Oct-22	30-Nov-22	146	3.0							
her 2DL/2DR	2/11		164 19-Jan-22	19-Aug-22	22-080-22	25-Apr/23	197	10.00							
3.2-2566	S2 - Install sheetpile for pile cap 2DL/2DR		6 19-Jan-22	a statestication a	22-Dec-22	22-Dec-22	10245	1.00							
3.2-2568	S2 - Excevelion down to formation level 20L/20	0	11 02-)un-22	15-Jun-22	22-0ee-22	05-Jan-23	169	2.00							
3.2-2500	S2 - Excavation down to tormation level 20222		11 02-00-22 17 16-hp-22	06-14-22	07-Jan-23	00-Jan-23 02-Feb-23	169						In the second		
													1		
3.2-2572	S2 - Construct pile cap C-2DR		9 07-Jul-22	16-3.4-22	03-Feb-23	13-feb-23	169								
3.2-2574	52 - Construct Pier P-2DR (3 Lifts)		29 18-30-22	19-Aug-22	18-Mar-23	25-Apr 23	197	3.00							_
3.2-2576	S2 - Construct pile cap C-2DL		10 18-Jul-22	28-3.4-22	14-Feb-23	24-Feb-23	169	2.00							
Ner ZEL/ZER			49 22-40+22	21-Jun-22	02-Feb-23	30-Mar-23	229	5.0							
3.2-2590	52 - Construct Pler P-2ER (2 Lifts)		20 22-4pr-22	17-May 22	02-Fab-23	24-Feb-23	229	2.00							
3.2-2592	S2 - Construct Pier P-2EL (3 Lifts)		29 18-May-22	21-Jun-22	25-Feb-23	30-Mar-23	229	3.0							
Abutment 2F			48 14-Jan-22	21-40-22	30 Apr-22	29-0d-22	152	5.0							
3.2-2598	S2 - Prepare pile head (3 ms) A-2F		13 14-Jan-22	26-Jan-22 A	30-Apr-22	30-Apr-22		1.0							
3.2-2600	52 - Construct Abutment Base A-2F		14 07-Fig0-22	07-Mar-22 A	30-Apr-22	30-Apr-22		2.0							
3.2-2602	S2 - Construct Abutment A-2F		20 25-Mar-22		29-Sep-22	24-0d-22	152								
	e S3 Works		121 11-300-21		05-449-22	21-40-23	230	20.00						1	
				1.		a constant	230								
	, Pier / Abutment		121 11-Nov-21		05-Aug-22										
Abutment 3A			29 25-Har-22	03-May-22	05-Aug-22	21-Apr-23	294	4.00							
3.3-2826	53 - Construct Abutment A-3A-53		19 25-Man22	20-Apr-22	05-Aug-22	26 Aug-22	106	3.00							
3.3-2828	S3 - A-3A-S3 Install Permeate Membrane and Ba	dfil	10 21-Apr-22	03-May-22	11-Apr-23	21-Apr-23	284	1.00							
Her 3E-S3			41 14-Fi80-22	02-Apr-22	25-Mar-23	03-Apr-23	293	9.0							
3.3-2830	53 - Prepare Pile Head for 3E-53		5 14-Fitb-22	A 28-Feb-22 A	25-Mar-23	25-Mar-23		1.00	-						
3.3-2834	\$3 - 3E-53 Reinstatement of Stab of Kai Tak Rive	r	18 15-Feb-22	07-Mar-22 A	25-Mar-23	25-Mar-23		6.00							
3.3-2832	53 - Construct Pier 3E-53 (1. Lifts)		18 16-Mar-22	02-Apr-22	25-Mar-23	03-Apr-23	293	2.00							
Abutment 3D	-53		70 11-Nov-21	08-34-22	22-Feb-23	21-Apr-23	230	7.00			ana panana panapana panapa				
3.3-2846	53 - Prepare pile head (3 nrs) A-3D-53		13 11-Nov-21	A 18-Mar-22 A	22-Feb-23	22-Feb-23		1.00							
3.3-2846	S3 - Construct Abutment Base A-3D-53		21 13-May-22		22-Feb-23	17-Mar-23	230	3.00							
3.3-2850	53 - Construct Abutment A-3D-S3		16 08-Jun-22		18-Mar-23	- 2000-09-7-2	230	957							
		1.1				1						Date		Review	Checked Ac
Current Mil		0			T-1- T				V (D., 00, 000)	Project ID: KTE-W	P29_M35	25-Nov-21	Monthly Programme	e M31	TYY DC
	k raking Wolk	Central Kow							e) (Rev29 - CSD)	Baseline: Layout: KTE - 3 M	onths Rolling Programme	24-Deo21 25-Deo21	Submit CSD Proge Nonithly Programme		TYY DC TYY DC
Remaining			T	ree Mor	th Roll	ing Pro	gram	me			: 3 Months Rolling_1, KTE - Submission.	24-Jan-22 25-Feb-22	Submit CSD Progra		TYY DC

2	Activity Name	Org Dur Stat	Finksh	Late Stat	Lale Finish	Float	TRA (Dey	Narch 35			96 36			70	0y 17				June 38				30y 31	
3.3-2852	53 - A-3D-53 Install Permente Membrane and Backfill	10 27-Jun-22	08-34-22	11-Apr-23	21-Apr-23	230	1.00	27 06 13 20	27 08	10	17	24	01	08	15	22	29	04	12	19	26	0 10	17	24
h 3.4 Bridge	S4 Works	181 24-Jan-22 A	08/5(2)-22	12-Mar-22	24-Jan-25	993	79.00		-															
4 - Piling Wo		45 24-Jan-22 A			24-lan-26		0.00														1			
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	Pier P-4K-S4-A																				-			
3.4-3020	S4 - 4K-S4-A-1 Proof drilling & Piles testing	24 24-Jan-22 A			24-Jan-26		0.00																	
3.4-3028	S4 - 4K-54-4-2 Proof drilling & Piles testing	24 25-3an-22 A		23-May-22	23-May-22		0.00	land and a land																
iling Works -	Pier P-4K-S4-B	45 25-Jan-22 A	29-Jan-22 A	16-Mar-22	24-Jan-26		0.00																	
3.4-3030	54 - 4K-54-B-2 Proof diffling & Piles testing	24 25-3an-22 A	29-Jan-22 A	24:Jan-26	24-Jan-26		0.00																	
3.4-3022	S4 - 4K-S4-B-1 Proof drilling & Piles testing	24 26-Jan-22 A	29-Jan-22 A	16-Mar-22	16-Mar-22		0.00																	
4 - Pile Caps,	Pier / Abutment	104 04 Feb 22 A	21-Jun-22	12-Mar-22	11-Mar-23	213	54.00																	
Pier 4K-54-A-	1	81 07-Feb-22 A	06-May-22	12-Mar-22	22-Apr-22	-11	10.00																	
3.4-3080A	54 - 4K-54-A modification of KTR cofferdam prior to Pile head trimming	5 07-Feb-22 A	12-Feb 22 A	12-Mar-22	12-Mar-22			1 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1																
3.4-3084	S4 - 4K-S4-A-1 Reinstatement of Slab of Kai Tak River	5 14-Peb-22 A	22-Feb-22 A	12-Mar-22	12-Mar-22		6.00																	
3.4-3080	54- Prepare Pile Head for 4K-54-A-1	24 23 Feb 22 A	16-Mar-22 A	12-Mar-22	12-Mar-22		1.00																	
3.4-3082	S4 - Corednuit Pier 4K:S4-A-1 (3 Life)	27 17-Mar-22 A	06-May-22	12-Mar-22	22-Apr-22	-11	3.00						_											
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3.4-3090	SH - 4K-SH-A-2 Reinstatement of Sido of Kai Tak River	5 14Feb-22 A			16-Mar-22		6.00	the second s																
3.4-3086	S4 - Prepare Pile Head for 4K-S4-A-2	24 23-Feb-22 A			16-Mar-22		1.00			1														
3.4-3088	S4 - Construct Pier 4K:S4-A-2 (3 Lifts)	27 17-Mar-22 A		16-Mar-22	22-Apr-22	-11	3.00																	
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3.4-3092A	S4 - 4K-S4-B modification of KTR cofferdam prior to Pile head trimming	5 11-Feb-22 A	17-Feb-22 A	23-May-22	23-May-22																			
3.4-3092	S4 - Prepare Pile Head for 4K-S4-B-1	24 07-Mar-22 A	14-Apr-22	23May-22	11-Jun-22	44	1.00					1												
3.4-3096	S4 - 4K-S4-B-1 Reinstatement of Slab of Kai Tak River	5 19-Apr-22	23-Apr-22	08-Aug-22	12-Aug-22	91	6.00		1		-													
3.4-3094	54 - Construct Pier 4K:54-8-1 (3 Lifts)	27 07-May-22	09-Jun-22	13Aug 22	14-5ep-22	81	3.00					1	-	-	-	-								
Ner 4K-54-8-3	2	69 07-Ma-22 A	21-Jun-22	23-May-22	26-Sep-22	81	10.00																	
3.4-3098	S4 - Prepare Pile Head for 4K-54-B-2	24 07 Mar 22 A	14 Apr 22	23May-22	11-0un-22	44	1.00	-		-														
3.4-3102	S4 - 4K-S4-B-2 Reinstatement of Slab of Kai Tak River	5 19-00-22	23-Apr-22	19-4-ig-22	24-Анд-22	101	6.00				-										-			
3.4-3100	54 - Construct Pier 4K:54-8-2 (3 Lifts)	27 20-May-22	21-Jun-22	25 Aug-22	26-5ep-22	81	3.00								-									
Pier 4E-54		20 07-Feb-22 A		29-/kug-22	20-Od-22	125	2.00																	
3.4-3112	S4 - Construct Pier 4E-S4 (2 Lifts)	20 07-Feb-22 A		294.9-22	20-08-22	126	2.00					1								1				
	54 - Lanaruz Her 46 de (2 Liza)			and the								1	E.											
Pier 4F-54		68 25-Ma-22	20-Jun-22	26-0c-22	16-Jan-23	173	10.00			3		-												
3.4-3116	S4 - Excavation Down to Formation Level 4F-S4	11 25-Mar-22	07-Apr-22	25-0d-22	07-Nov-22	173	2.00		14	1														
3.4-3118	S4 - Prepare Pile Head (2ns) for 4F-S4	10 08-Apr-22	22-Apr-22	09-Nov-22	18-Nov-22	173	2.00			6														
3.4-3120	54 - Construct Pile Cap 4F-54	18 23-Ap+22	16-May-22	194kov-22	89-Dec-22	173	3.00					-		-	1									
3.4-3122	S4 - Construct Pier 4F-54 (3 Lifts)	29 17-May-22	20-Jun-22	10-Dec-22	16-Jan-23	173	3.00								-	-	_	-		•				
Pier 4G-S4		19 20-Apr-22	13-May-22	18-Feb-23	11-Mar-23	245	0.00																	
3.4-3132A	S4 - Construct Rer 4G-S4 (2 URs)	19 20-Apr-22	13-May-22	18-Feb-23	11-Mar-23	245			-			+							in the					
Pier 4J-S4		20 04 Feb-22 A	21-May 22	01-Apr-22	28-May-22	6	2.00					1								1				
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Current Mic	stone								Projec	ID: KTE	WP29 M	135					- 94	Date No. 31	Marthau	Programme	Revision		Cre	sted A
Adual Yiok	Gentra	Kowloon Rou	te - Kai	Tak Eas	st (Mont	h 35 L	Jpdat	e) (Rev29 - CSD)	Baseli	ne;							24	-Deci21	Submit (		rmu Piev 26		TW	DC
-Catical Remaining V		Th	ree Mor	th Roll	ing Prop	gramn	ne					Rolling Prog this Rolling		- Submir	ssion.		24	Jan-22	Submit (	SD Progra	mme Rev 27		TYP	DC
									3550000		and a relia				Sector,			-feb-22 -Mar-22	Submit 0	SD Progra SD Progra	mme Rev 28 mme Rev 29	with MISG M with JUCES Ma	n. TW n., TW	DC DC
									Page	5 of 17									-	-				_

ID	Activity Name	Orig Dur Start	Firlah	Late Start	Late Finish	Total Ficat	TRA (Day)	March 35	Apri 36	Ney 37		June 38		30ly 30	
3.4-3142	54 - Construct Pier 43-54 (2 Uits)	20 94-Fit0-22 A	21-May-22	01-Apr-22	28-149/-22	6	2.00	27 06 13 20	27 08 10 17 24 01	08 15 22	29 (5	12 19	26 03	10 17	24
54 - Deck		92 23-May-22	08-Sep-22	10-May-22	16-Dec-22	82	25.00								
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	4K(), (Stage 1)	JE EDTRIFEE	CUMPEE	101301 22	CJ-J#LL	1	LAUD								
			11	C Theorem	411.74	21									
3.4-3172	54 - Span 4B(A) - 4K(A) Falsavork and formworks	24 23-May-22	20-Jun-22	10-May-22	07-Jun-22	-11	3.00				-				
3.4-3174	54 - Span 4B(A) - 4K(A) Web and Soffit	20 21-Jun-22	14-Jul-22	08-Jun-22	30-Jun-22	-11	3.00					-		<b>.</b>	
3.4-3175	54 - Span 48(A) - 4K(A) Deck Section	8 15-Jul-22	23-3ul-22	02-Jul-22	11-34-22	-11	1.00								
Sel- Span 4K	-43(L) (Stage 2)	AL ALMAN A		3014589-72	25/3#77										
3.4-3276	S4 - Span 4K(A)-43 Falsevork and formworks	39 23-May-22	08-Jul-22	30-May-22	15-34-22	6	6.00				1				
3.4-3278	54 - Span 4K(A)-4J Instal Bearings	8 09-Jul-22	18-Jui-22	16-Jul-22	25-34-22	6	2.00							-	
S4-Dpan (R)		55 07-346-22	06-Sep-22	13-Oct-22	16-Dec-22	82	10.00								
S-1- Spain 48-	-AK(R) (Stoge 1)	18 05-18 22	37.44-23	Direct-12	02-http://22		-100								
3.4-3184	54 - Span 48(8) - 4K(8) Falsework and formworks	18 07-hil-22	27-Jul-22	13-0d-22	02-Nov-22	81	3.00							_	
St. Soun JK	4E(R) (Strige 2)	41 14-14-27	201200010	21-441-22	15-13-02	10		kanal kanalaran kana							
3.4-3208	54 - Span 4K(B)-4E Falsework and formworks	40 44 14 14 19	00 Fee 22	21.04.22	10 000 22	82	7.00							-	-
0.0149388163		49 14-Jul-22	08/Sep 22	21-00-22	16-Dec-22										-
Sch_3.5 Bridg		158 23-Dec-21 A		23-Mar-22	13-Apr-23	218	23.00								
57 - Piling Wo	rks	49 30 Dec 21 A	06-Apr-22	23 Mar 22	07-May-22	23	8.00								
Piling Works	Pier P-7B	49 30-Dec-21 A	06-Apr-22	23-Mar-22	07-May-22	23	8.00						1.	i.	
3.5-3400-1	S7 - Bond Pilos for 78-S7-1 Part 1 (upto -74.0mPD) (CNCE-004	5) 55 30 Geo 21 A	24-Jan-22 A	23/Man 22	23-Mar-22		6.00								
3.5-3400-10	57 - Bored Piles for 78-57-1 Part 2 (CNCE-0045)	32 25-Jan-22 A	15-Feb-22 A	23-Mar-22	23-Mar-22		0.00								
3.5-3400-3	S7 - Demob Piling Plant and Equipment	6 16Feb-22 A	22-Feb-22 A	23-Mar-22	23-Mar-22		2.00								
3.5-3402	S7 - 7B-57 Proof drilling & Pilestesting	24 23 Ftb 22 A	06-Apr-22	03-May-22	07-100-22	23	0.00								
S7 - Pile Caps	, Pier / Abutment	158 23-Dec-21 A	14-Jul-22	03-May-22	13-401-23	218	15.00								
Pier 78		53 12-May 22	14-306-22	03-May 22	09-34-22	4	7.00								
3.5-3415	57 - 7B-57 ELS	5 12-May-22	17-May-22	03-May-22	07-May-22	-7	1.00								
3.5-3416	S7 - Exavation down to formation level C-78-57			10-May-22	13-May-22		1.00								
		4 18-May-22	21-May-22			4									
3.5-3418	57 - Prepare pile head (2 rils) C-78-57	9 23-May-22	01-Jun-22	18-May-22	27-May-22	-4	1.00								
3.5-3420	S7 - Construct pile cap C-78-S7	15 02-Jun-22	20-Jun-22	28-May-22	15-Jun-22	-1	2.00				1				
3.5-3422	S7 - Construct Pier P-78-S7 (2 Lifts)	20 21-Jun-22	14-Jul-22	16-Jun-22	09-Jul-22	4	2.00					-		-	
Pier 7C		20 23-Dec-21 A	13-Apr-22	22-Mar-23	13-Apr-23	290	2.00								
3.5-3426	57 - Construct Pier P-7C 57 (2 Lifts)	20 23-Dec 21 A	13-Apr-22	22-Man23	13-Apr-23	290	2.00								
Abutment 7D		63 04-Jan-22 A	22-Apr-22	28-Dec-22	21-3an-23	225	6.00								
3.5-3432	S7 - Construct Abutment Base A-70-S7	19 01-Jan-22 A	20-3an-22 A	28-Dec-22	28-Dec-22		3.00								
3.5-3434	57 - Construct Abutment A-7D-57	21 25-Mar-32	22-Apr-22	28-Dec-22	21-Jan-23	225	3.00								
Sch_3.6 Bridg		29 13-May-22	16-Jun-22	22-34423	05-00-23	385	6.00								
	, Pier / Abutment	29 13-May-22	16-Jun-22	22-34-23	05-0d-23	385	6.00								
and a state of the state of the						303	3.00								
Pier 8C		29 13-May-22	16-Jun-22	22-34-23	24-Aug-23										
3.6-3634	S8 - Construct Pier P&C-S8 (3 Lifts)	29 13-May-22	16-Jun-22	22-34-23	24-Aug-23	351	3.00				1 1 -		1 1		
🖤 Qumint Mile		11 1.05							Participation of the second		Caso		Rovinien	Owned	
Actual Wool	Cer	tral Kowloon Rout	e - Kai 1	Tak Eas	t (Mont	h 35 l	Jpdate	(Rev29 - CSD)	Project ID: KTE-WP29_M35 Baseline:		25-Nov-21 24-Deo21	Monthly Programm Submit CSD Progr	armie Rev 26	TWY	DC DC
Otical Rem	aning Work		ree Mon					,,	Layout: KTE - 3 Months Rolling Program		25-Deo21 24-Jan 22	Monitrly Programm Submit CSD Progr	e 1452	TWY DYY	DC DC
Heraning	TAN .								Filter: TASK filters: 3 Months Rolling_1,	KTE - Submission.	25-Feb-22 25-Mar/22	Submit CSD Progr	anme Rev 28 with M34 amme Rev 29 with M35 I	No. TYY	DC DC
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Picket       10       Nord			1														00	0.0		01-Mar-22	01-Mar-22	13-Jan-22 A	10-Jan-22 A	23		Pier P-9A	Piling Works -
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9       9																	00	38.0	0	25-Jul-22	01-Mar-22	25-Jul-22	16-Dec21 A	121		Pier / Abutment	S9 - Pile Caps,
<ul> <li>Anderection of manimum and A.</li> <li>And B. Marka A.</li> <li>Barka A. Barka A.</li> <li>Barka A. Barka A.</li> <li>Barka A. Barka A.</li> <li>Barka A.</li> <li>Ba</li></ul>																	00	8.0	-21	08-Apr-22	01-Mar-22	07-May-22	03-3an-22 A	26			Pier 9A
31       9			9												1		00	1.0		01-Mar-22	61-Mar-22	06-Jan-22 A	03-Jan-22 A	5		S9 - Install sheetpile for pile cap 9A	3.7-3822
9 modu data 0, 400 modu       1       9 modu       1 modu       9																	00	2.0		01-Mar-22	01-Mar-22	28-3an-22 A	07-3an-22 A	8		S9 - Excavation down to formation level C-9A	3.7-3824
3 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10														- 2			00	1.0		01-Mar-22	01-Mar-22	08-Feb-22 A	29-3an-22 A	5		59 - Prepare pile head (1nr) C-9A-59	3.7-3826
3 - 9 - 10 - 10 - 10 - 10 - 10 - 10 - 10																	00	2.0		01-Mar-22	01-Mar-22	15 Feb-22 A	09 Feb-22 A	8		59 - Construct pile cap C-94-59	3.7.3828
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9.9.9.9.9.1 km (2) m (2) m (2)       9.9.9.2																	100										
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33.91       9.4004.0km 494.0 (Lth)       9.4       9.4402       9.4402       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.4       9.49       9.			-										-		1	1											
Process         Process <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										_																	
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37399       9-0retexter#ef4c96 (216)       0       244e2       144e2       55m2       37       0.0         Fer 50       6       6       6       244e2       244e2       25m2       47       0															4					14-May-22		04-Jan-22 A	28-Dec 21 A	13		S9 - Proparo pile head (2ns) C-9C-S9	3.7-3846
Perform       On       Deckarls       Zeroda       Zeroda       Seconda       <																	00	2.0		14-May-22	14May-22	14-3an-22 A	05-3an-22 A	15		S9 - Construct pile cap C-90-59	3.7-3848
39 - Contact Per P90-987 (LMG) (P)       0       16 - Sequery       25 - Sequery       26 - Sequery <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td>00</td> <td>2,0</td> <td>37</td> <td>25-Jun-22</td> <td>14May-22</td> <td>12-May-22</td> <td>22-Mar-22 A</td> <td>20</td> <td></td> <td>59 - Construct Pier P-9C-59 (2 Lifts)</td> <td>3.7-3850</td>										-				-	-		00	2,0	37	25-Jun-22	14May-22	12-May-22	22-Mar-22 A	20		59 - Construct Pier P-9C-59 (2 Lifts)	3.7-3850
37368       91 Conduct Par Pol Add9 (2 Ub) (1)       10       90 Row 24       10 Hoye 2       23 Jun 2       66 Jul 2       17       20         37364       91 Conduct Par Pol Add9 (2 Ub) (1)       16       14 Hoye 2       24 Hoye 2       25 Jul 2       25 Jul 2       17       20         37367       91 Indial datafiele for ple op 4H%       12       24 Hoy 2       24															3		00	7.0	47	25-34-22	25-May-22	28-May-22	16-Dec:21 A	65			Pier 9D
337377       9 - Gorduzt Rer Prival P40       10       144erg 2       94-94rg 2       93-94rg 2       94-94rg 2			1								-	-	-		-		00	3.0	47	22-3un-22	26-May-22	25-Apr-22	16-Dec-21 A	29		S9 - Construct Pier P-9D-8-59 (3 Lifts) (R)	3.7-3870
Abdrenet 4H //E       11       12 Her2A       55-b2c       0       130         3/307       9 - Indid hardpe for pin ego 4H/9C       0       12 Mer2A       0/4922									3	-			-		-		.00	2.0	47	06-Jul-22	23-Jun-22	10-May-22	03-Jan-22 A	20		59 - Construct Pier P-9D-A-59 (2 Lifts) (L)	3.7-3868
33372       91-fm2d1 detrepted per dp494       10       149472.0       049672.0       010         33372       91-fm2d1 detrepted per dp494       11       254962.0       07492.0       14972.0       16       070         33372       91-fm2d1 detrepted per dp494       14       14022.0       24962.0       14972.0       16       070         33372       91-fm2d1 detrepted Per dp494       14       14022.0       24962.0       17462.0       14       140         37382       91-fmade Advirent Adv			1				-	_	-								00	2.0	47	25-Jul-22	07-Jul-22	28-Nay-22	11-May-22	16		59 - Construct Pier Portal P-9D	3.7-3876
33.7374       91 - backton down to formation local A4-tyPe       01       2.5 Mer 2       094.pro2       0.7 Mer 2       1.4 Mer 2       9.6       0.0         37.378       91 - formation local A4-tyPe       14       1.4 Ar 2       2.9 Ar 22       2.4 Mer 2       4.6       0.0         37.378       91 - formation local Advit/mert Base A4+tyPe       26       3.04 are 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       2.9 Are 22       1.4 Mer 2       2.9 Are 22       1.9 Are 2       1.4 Mer 2       2.9 Are 22       1.9 Are 2       1.9 Are 22       1.9																	00	13.0	0	25-Jul-22	07-Mar-22	25-Jul-22	21-Mar-22 A	121		/9E	Abutment 4H
3.7378       8) Angase pick had (Sing C44/54       14       14/a       29/a       22/a       1/a       2       1/a       1/a <td></td> <td></td> <td>1</td> <td></td> <td>-</td> <td></td> <td>.00</td> <td>1.0</td> <td></td> <td>07-Mar-22</td> <td>07-Mar-22</td> <td>24-Mar-22 A</td> <td>21-Mar 22 A</td> <td>8</td> <td></td> <td>S9 - Install sheetpile for pile cap 4H/9E</td> <td>3.7-3972</td>			1												-		.00	1.0		07-Mar-22	07-Mar-22	24-Mar-22 A	21-Mar 22 A	8		S9 - Install sheetpile for pile cap 4H/9E	3.7-3972
37388       Si Conduct Auchment Beer AminySE       02       304ep-22       013un-22       046       4.6       4.6       4.0         37388       Si Conduct Auchment AminySE       02       02.3un-22       113ub/22       0       4.6       4.0         37388       Si Issial Primete Membere and Bodell       02       02.3un-22       113ub/22       02       0       4.6       4.00         37388       Si Issial Primete Membere and Bodell       02       12.3ub/22       02.3un-22       13ub/22       02.3un-22       02.3un-			11														00	2.0	-16	21-Mar-22	07-Mar-22	09-Apr-22	25 Mar-22	13		S9 - Expandion down to formation level A4H/9E	3.7-3874
37.382       St Conduct Audverset A+4+99       12       0 2,0ar-2       11-bit 2       0 2,0ar-2       11-bit 2       0 4,00         37.383       St Instal Permete Nember and Bodell       12       12-bit 2       25-bit 2       12-bit 2       0 4,00       4.00         37.388.       St Instal Permete Nember and Bodell       10       12       12-bit 2       12-bit 2       0 4,00       4.00 <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>00</td> <td>2.0</td> <td>-16</td> <td>07-Apr-22</td> <td>22-Mar-22</td> <td>29-Apr-22</td> <td>11-Apr-22</td> <td>14</td> <td></td> <td>S9 - Prepare pile head (6nrs) C-4H/9H</td> <td>3.7-3878</td>												-					00	2.0	-16	07-Apr-22	22-Mar-22	29-Apr-22	11-Apr-22	14		S9 - Prepare pile head (6nrs) C-4H/9H	3.7-3878
3.7.382       St - Conduct Auditmet A-M*(91)       02       0.2       0.2       11-bit 2       0.2       0.1 bit 2       0.2       0.1 bit 2       0.2							_			_							00	4.0	-16	13-May-22	08-Apr-22	01-Jun-22	30-40-22	26		59 - Construct Abutment Base A-4H/9E	3.7-3880
37388)       SI Instal Permete Nembone and Bodell       12       12.34/2       25.44/2       12.34/2       25.44/2       0       1         59 - Deck		-		-	-		-								1												
SP - Deck       SP - Deck       SP - Span LP-streewordt and formwods       SP - Span LP-streewordt and formwods <td></td> <td>1</td> <td></td> <td></td> <td></td> <td>0</td> <td>0002038</td> <td></td> <td></td> <td>12,22,022</td> <td></td> <td></td> <td></td> <td>3.7-3883</td>															1				0	0002038			12,22,022				3.7-3883
Sp9-Span D-9A (Stage 1)       61       104%y2       212ki/2       0%y2       253ki/2       -21       650         37384       SP-Span D-9A (Feberakt and formwods       11       104%y2       24My2       0%y2       21       0.00         37384       SP-Span D-9A (Feberakt and formwods       11       104%y2       24My2       0%y2       21       0.00         37384       SP-Span D-9A (Matail Baarings       6       25 My2       21       0.00       0       0       0.10       0       0.00       0<															1		00										
37384       §9-\$gan 10-94. Fedeework and formworks       11       10.4eg-22       24.4eg-22       09.4g-22       2.1       2.0         37384       §9-\$gan 10-94. Initial Bearings       6       25.4g-22       28.4g-22       05.4g-22       2.1       2.0         37388       §9-\$gan 10-94. Mede and Soft       9       0.1.un-22       10.4un-22       05.4g-22       2.1       1.0.0         37389       §9-\$gan 10-94. Mede and Soft       9       0.1.un-22       10.4un-22       18.4g-22       2.1       1.0.0         373890       \$9-\$gan 10-94. Ded. Settor.       9       15.un-22       2.2.1un-22       18.4g-22       2.4       1.0.0															8											QA (Shana 1)	
3.7.388       \$9 - \$qan 10 -94. Install Bearings       6       25 May 22       28 Apr 22       05 May 22       21       2.0         3.7.388       \$9 - \$qan 10 -94. Web and 5oft       9       01 - 3u - 22       05 May 22       17 May 22       21       1.0         3.7.389       \$9 - \$qan 10 -94. Web and 5oft       9       01 - 3u - 22       13 May 22       05 May 22       21       1.0         3.7.389       \$9 - \$qan 10 -94. Web and 5oft       9       15 Jun - 22       23 May 22       21       1.00         3.7.389       \$9 - \$qan 10 -94. Detti Station       9       15 Jun - 22       23 May 22       21       1.00         • Operation 10 - 44. May 42       27 May 22       21       1.00         • Operation 10 - 44. May 42       27 May 22       21       1.00         • Operation 10 - 44. May 42       27 May 22       21       1.00         • Operation 10 - 44. May 42         • Operation 10 - 44. May 42       20 May 22       21       1.00         • Operation 10 - 44. May 44. May 42       21       21       1.00         • Operation 10 - 44. May 44. M									_																		
3.7.388       59 - Span 1D -94. Web and 5oft       9       0.5.un - 22       13.un - 22       06.96vp2       17.49vp22       -21       1.0         3.7.3890       59 - Span 1D -94. Ded. Settorn       9       15.un - 22       13.40kp22       -21       1.00         9       0.5.un - 22       2.3.un - 22       13.40kp22       -21       1.00       Image: Control of the state of the							1	in a							1		in the second										
3.7.3990     50 - Span 1D-94 Dext. Section     9     15.3an-32     22.3an-32     18.May-22     27.4by-22     -21     1.00       • Outrit Mexicore     • • • • • • • • • • • • • • • • • • •															1												20034335
Operation         Description         Description         Description         Notability           © Operation         Project ID: KTE-WP29_M35         20mm         Notability         Notab			1. 7			1																					
Project ID: KTE-WP29_M35 254on-11 MonthlyProgramme A61			<u>1</u> .3		-		1			- 1					Ì.		00	1.0	-21	27-MƏ <sub>1</sub> -22	18-May-22	22-Jun-22	13-Jun-22	9		S9 - Span 1D-9A Dedx Section	3.7-3890
	Gredett	-	Review		a	Detr						(Instance) = 1					. 1.4									a.o. 1	
<ul> <li>ActartWok</li> <li>Central Kowloon Route - Kai Tak East (Month 35 Update) (Rev29 - CSD)</li> <li>Ontal Reviews Wok</li> <li>Three Month Rolling Programme</li> <li>Three Month Rolling Programme</li> <li>State 30 Programme Rev 26</li> <li>State 30 Programme Rev 27</li> <li>State 30 Programme Rev 28</li> </ul>	1117 D 1117 D 1117 D 1117 D 1117 D 1117 D 1117 D 1117 D	ev 27 ev 28 with M34 (	ogramme Re mma MS2 ogramme Re ogramme Re	amit CSD Pr mithly Progra amit CSD Pr amit CSD Pr	1 Su 1 Ma 2 Su 2 Su	24-Deo-21 25-Deo-21 24-Jan-22 25-Feb-22		on.	- Submissi		oling Pro	Months F	seline: yout: KTE +	B	SD)	ev29 - (	ate) (F							owloo	Central Ko	uning Work	Actual Work

ID	Activity Name	On	g Dur St	e Finish	Lole Start	Late Finish	Total Float	TRA (De	March 35		April 36			itey 37			June 38			31ly 39	
3.7-3892	59 - Span 10-9A Post-tensioning (Stage 1)		12 23-34	1-22 07-34-2	2 28 May-22	11-3/0-22	- 21	0.0	6 13 30	27 03	10 17	24 01	08	15	22 29	05	12 13	36	08 10	17	34
3.7-3893	59 - Span 10-9A Remove Falsework and Formwork		12 08-3.				-21		3 B B	5											
	I-98 (Stage 2)		54 25-14				-19											1			
37-3894																					
	59 - Span 9A-96 Falsework and formworks		16 Z5-M	1985 Sec. (5) (6)			1														
3.7-3896	59 - Span 9A-9B theb and Soffit		9 06-).				+19											31 3		Tes 1	
3.7-3898	59 - Span 9A-98 Deck Section		9 19-).			05-Jul-22	-19													-	
59 - Span 98	I-9C (Stage 3)		20 22-3	1-22 13-Aug-3	2 27 Jun 22	20-Jul-22	-21	3.0													
3.7-3902	S9 - Span 96-9C Falaswork and formivorks		20 22-3	1-22 13-Aug-3	2 27-Jun-22	20-Jul-22	-21	3.0		N. T.										-	-
th_3.8 Bridg	ge S1/S9 Works	1	266 16-Sep	-21 A 23-Joi-2	2 28-Feb-22	15-Jul-22	7	47.0													
51/S9 - Pilin	g Works		24 22-Ma	22.A 30-Mar 2	2 17-Mar-22	22-Mar-22	-7	0.0		E.							1				
Piling Works	- Pier P-1F/7A		24 22-Ma	22 A 30-Mar-2	2 17-Mar-22	22-Mar-22	7	0.0													
3.8-4010	51/59 - 1F/7A Proof driling & Piles testing		24 22-Ma	22.A 30-Mar 2	2 17-Mar-22	22-Mar-22	-7	0.0		-											
1/S9 - Pile	Caps, Pier / Abutment		107 11-Jan	22 A 08-Jul-2	2 28-Feb-22	15-Jul-22	6	34.0													
Pier 1D			27 12-Jan				-22	5.0													
3.8-4025	S1/59 - Construct Pier P-1D-8-S1/S9 (1 Lift)			-22 A 18-3an-22				2.0													
										1.4.1							1				
3.84032	51/59 - Construct Portal P-1D-S1/59		21 18-Jan				-22		1 1 1												
Pier 1E			81 11-Jan	-22 A 14-Jun-2	2 28-Feb-22	18-May-22	-22														
3.8-4036	51/59 - Install sheetpile for pile cap 1E		6 11-Jan	-22 A 14-3an-22	A 28-Feb-22	28-Feb-22		1.0													
3.8-4038	\$1/59 - Excavation down to formation level C-1E-51,	/59	14 10-Feb	22.A 21-Mar-2	A 28-Feb-22	28-Feb-22		2.0		2											
3.8-4040	S1/S9 - Prepare pile head (2nrs) C-1E-S1/S9		9 22-Ma	22.A 19-Apr-2	2 28-Feb-22	19-Mar-22	-22	1.0	-	-	_										
3.8-40-12	51/59 - Construct pile cap C-1E-51/59		22 20-4	r-22 17-May-2	2 21-Mar-22	19-Apr-22	-22	3.0					-	-							
3,8-4044	S1/59 - Construct Plat P-1E-S1/59		23 18-14	y 22 14-Jun 2	2 20-Apr-22	18-May-22	-22	3.0						-	_	-					
Pier 1F/7A			78 31-M	r-22 08-Jul-2	z 23-Mar-22	04-Jul-22	-4	9.0										0.000			
3.8-4046A	51/59 - Trial bench for sheetplie and removal of abar	done of 1350	12 31.46		2 23-Mar-22	06-401-22	.7			-											
3.84046	51/59 - Install sheetpile for pile cap 1F/7A		6 19-A				.7	1.0				1.00									
3.8-4048	S1/59 - Excavation down to formation level 1F/7A-S	1/60	12 26-44				-7	2.0													
3.8-4050		(/39					4														
	S1/59 - Prepare pile head (1nr) C1F/7A/S1/S9		5 12-Mb					1.0						-	- hard						
3.84052	51/59 - Construct pile cap C-1F/7A-51/59		20 18-14				-4	3.0							1						
3.8-4054	51/59 - Construct Pier P-17/7A-51/59 (2 Life)		23 11-Ju	1-22 08-Jul-2	2 07-Jun-22	04-Jul-22	-4	2.0								-					
Abutment 10	3		74 25-Ma	22 A 27-Jun-2	2 08-Mar-22	15-JuH22	15	10.0									1				
3.8-4058	\$1/59 - Excavation down to formation level A-1G-51	(59)	16 25-Ma	22.A 04.Apr2	2 08-Mar-22	17-Mar-22	15	2.0									1				
3.8-4060	51/59 - Prepare pile head (4nrs) C-1G-51/59		16 05-A	r-22 27-Apr-2	2 18-Mar-22	06-Apr-22	-15	1.0		-											
3.84062	S1/S9 - Construct Abutment Base A-1G-S1/S9		18 28-4	r-22 20-May-2	2 07-Apr-22	30-Apr-22	-15	3.0				-		-							
3.84064	\$1/59 - Construct Abutment A-1G-51/59		31 21-44	y-22 27-Jun-2	2 09-Jun-22	15-Jul-22	15	4.0						-	_						
S1/S9 - Ded			266 16-5es	-21 A 23-Jul-2	2 19-74ay-22	27-Jun-22	-22	13.0													
	n 1D-1E (Stage 1)		21 29-34	1-22 23-3µl-2	z 02-Jun-22	27-Jun-22	-22	3.0													
3.84068	51/59 - Span 1D-1E Falsework and formworks ( L&	2)	21 29-34				-22	3.0													
				-21 A 28-Jun-2			-22														
orion - obsi	n 1E-1F/1E-7A (Stage 1)		2-5 10-585	20-501-2	2 1911dy-22	01-341-22	-22	1010	1								1				
Mineru 🛡	Sectors .								613		0. VTT WT	1405				Dato		Revision	15	Checked	
Adust Vic	*	Central Kow	loon R	oute - Ka	i Tak Ea	st (Mont	h 35	Upda	9 - CSD)	Project I Baseline	D: KTE-WP29_	GLTA			2	S-Nov-21 X-Dec-21		Programme Re	v 26	TW/ TW/	DC DC
	making Wolk			Three Me					,	Layout	KTE - 3 Months	Rolling Program				5-Deo.21 4-Jan-22	Monthly Prop	parime MS2 Programma Re	2011 C	TW TW	DC DC
Harranny	§ WORK							100		Filter: Ti	ASK filters: 3 Mi	onthe Rolling_1,	KI'E - Subm	ission,	2	5-Feb-22 5-Mar 22	Submit CSD	Programme Re	v 28 with M34 M v 29with M35 Mic	a TYY	00
										Page 8	117				2	-HEP-22	outrie USD	- Augustimo Filo	- 27Mai 1935 We	110	100

ID.	Activity Name	Orig Dur	Start	Fisikh	Late Start	Late Finish	Total Float	TRA (Doy	March 35		2019 36		M8 37	W 1		1.6	38	-	1	10. 30		
3.8-4079	S1/S9 - Span 1E-1F/7A steel portal - temp footing (Kai Fuk Road) Night works	96	16-5ep-21 A	15-Mar-22 A	19-Nay-22	19-100-22		10.00	27 06 13 20	27 03 10	17 2	01	08	15 1	2 29	05	12	18 2	00	10	17	24
3.8-4080A	S1/99 - Span 1E to 1F/7A Erect Steel Portal (over Kai Fulk Road) Night works	12	15-Jun-22	28-Jun-22	19-May-22	01-Jun-22	-22	0.00									-	-				
3.8-40808	(WB)(2 W) 51/59 - Span LE to 15/7A Fabrication Steel Portal (over Kai Fuk Road) Day	10	15-Jun 22	25-Jun-22	21 May 22	01-Jun-22	-20										-	-				
ch_3.9 Bridg	works (WB)(2-W) le CKRW Works	89	25-Mar-22	15-3uH22	14-Nay-22	30-Dec-22	139	29:00														
CKRW - Piling	y Works	24	25-Mar-22	26-Apr-22	14-May-22	11-Jui-22	61	0.00	+							-						
	- Pier P-K5-CKRW	24	25-Mar-22	26-Apr-22	14-May-22	11-34-22	61	0.00			1											
3.9-4210	CKRW - K5-CKRW-1 Proof drilling & Piles testing	24	25-Mar-22	26-Apr-22	14-Nay-22	11-Jun-22	37	0.00			-											
3.9-4204	CKRW - K5-CKRW-2 Proof ditling & Piles testing	24	25-Mar 22	26-Apr-22	13:00-22	11-30-22	61	0.00			1											
CKRW - Pile C	Caps, Pier / Abutment	72	19-Apr-22	15-Jul-22	13-Jun-22	30-Dec-22	139	29.00														
Abutment A-I			22-Apr-22	25May-22	29-Aug-22	30-Dec-22	181	4.00	· · · · · · · · · · · · · · · · · · ·													
3 9-4236	CKRW - Construct Abutment AH3-CKRW		22-Apr-22	14-May-22	29-Aug-22	19-Sep-22	106	4.00			-		<u> </u>								6	
3.9-4238	CKRW - A-K1-CKRW Install Permeate Nembrane and Baddill		16-May-22	25-May-22	19-Dec-22	30-Dec-22	181	0.00						_								
Pier K5-CKR			27-Apr-22	23-Jun-22	13-Jun-22	06-Aug-22	37	9.00														
3.9-4240	CKRW - Prepare File Head for KS-CKRW-L		27-4pr-22	25-May-22	13-Jun-22	11-30-22	37	1.00					-									
3.9-4244	ORW - Hispate He Haad for Ka-CANVEL ORRW - K5-ORRW-1 Reinstatement of Slab of Kai Tak River		27-May 22	01-309-22	12-3.4-22	16-34-22	37	6.00														
3.9-4244							37	2.00							T.							
	ORRW - Construct Pler KS-ORRW-1 (2 Lifts)		02-Jun-22	23-Jun-22	18-34-22	06-Aug-22	37	9.00								1. 1						
Pier KS-CKR			27-Apr-22			27-Aug-22					1											
3.9-4252	OVRW - Prepare Pile Head for K5-CKRW-2		27-Apr-22	26-May-22	05-3ul-22	01-Aug-22	55	1.00				1	1 1	1								
3.9-4256	CKRW - K5-CXRW-2 Reinstatement of Slab of Kai Tak River		27-May-22	01-Jun-22	02-Aug-22	06-Aug-22	55	6.00											-			
3.9-4254	OKRW - Construct Pler KS-OKRW-2 (2 Lifts)		24-Jun-22	15-30-22	08-Aug-22	27-Aug-22	37	2.00											1			
Abutment A-I	K4-CKRW	67	19-Apr-22	09-Jul-22	01-Aug-22	30-Dec-22	144	7.00														
3.9-4268	OXRW - Prepare pile head (4nrs) A-K4-OX8W	17	19-40=22	10-May-22	01-Aug-22	19-Aug-22	85	1.00			-											
3.9-4270	OXRW - Construct Abutment Base A-K4-OXRW	19	11-May-22	01-Jun-22	20-Aug-22	10-Sep-22	85	3.00					-									
3.9-4272	CKRW - Construct Abutment A-K4-CKRW	22	02 Jun 22	28 Jun 22	13 Sep 22	10-0:0-22	85	3.00							1							
3.9-4274	OKRW - A-K4-OKRW Install Permeate Membrane and Backfill	9	29-Jun-22	09-Jul-22	19-Dec-22	30-Dec-22	144	0.00	1 1 1 1 1 1									1		-		
Sch_4.2 Slip R	toad Underpass S3	122	25-Der-21 A	26-3uH22	12-Nay-22	11-Feb-23	160	23.00														
53 - Not relat	ed to TTA (Ramp W4-W1)	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	206	6.00														
ELS for Under	rpass (Ramp)	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	206	6.00														
4-4504	53 - Install coffertiam	18	11-May-22	31-May-22	16-Jan-23	11-Feb-23	206	6.00					-	_	-							
S3 - TTA Stag	e 1 (Ramp W8-W5 & Box Section Bay B1)	23	25-Dec-21 A	24-Feb-22 A	12-Nay-22	12-May-22		4.00			1											
Miscellaneou	•	23	25-Dec 21 A	24-Feb-22 A	12-May-22	12-May-22		4.00											1			
4-4584	53 - Ramp WS-W8 Baddfiling upto GL	12	25-Dec-21 A	24-Feb-22 A	12-May-22	12-May-22		2.00													1	
4-4576	53 - Box Section B1 Backfilling up to GL	23	29-Jan-22 A	24-Peb-22-A	12-Nay-22	12-May-22		2.00														
S3 - TTA Stag	e 2 (Box Section Bay 2 & 3)	90	84.Apr-22	26-301-22	12-May-22	26-Aug-22	27	13.00													100	
TTA Advance	Works	26	04-Apr-22	10-May-22	12-May-22	11-Jun-22	27	0.00											-			
4-4586	TTA - Implement TTA Stage 2	0	04-Apr-22		12-May-22		27															
4-4588	TTA - TTA Stage 2 Trial Run	2	04.Apr-22	06-Apr-22	12-Nay-22	13-May-22	27	0.00		-												
4-4590	TTA - Trial Pits / Site investigation	6	07-4pr-22	13-Apr-22	14-Nay-22	20-May-22	27	0.00		-												
11212084	5         TTA- Employment TTA Stage 2         0<			1 1		1		Ţ			-	13	1									
Current Mi		wlos	n Pourt	o . Koi .	Tak Eas	t (Mont	h 25 I	Indet	(Rov20 CSD)	Project ID: KTE Baseline:	WP29_M35					25-Nov-21 24-Deo21	Monthly P					App DC DC
Otical Ren	santg Wok Central Ko	wi00				ing Prog			(Nevza - COD)	Layout: KTE - 3						25-Dec21	Month/P	hogramme M	12		200	DC
Remaining	(Mont:			or mon		ing ring	grann	ile.		Filler: TASK fill	ers: 3 Months R	oling_1, K	FE - Submis	sion.		24-Jan 22 25-Feb 22	Submit Ca	SID Programm SID Programm	ie Rev 28 with		TYY .	DC DC
										Page 9 of 17						254Mar/22	Submit C	SD Programm	e Nev 29with	M05 Mon	IW.	BC.

							Flast		and the second se	and the second s				31			11				-
4-4592	TTA - Utilities diversion / protection	18	14-Apr-22	10-May-22	21-May-22	11-Jun-22	27	0.0	27 06 13 20	27 0	S 10	17 24	¢ri qa	15	22 2	9 05	12 1	- 26	13 1	0 17	2
IS for Under						25-440-77		13.0				levere - stores					-	- de - 14			
														_							
														1							
4-4600	S3 - Extantion down to 0.5m below 1st weiing & strut; instal weiing & strut	11	24-Jun-22	07-Jul-22	27-301-22	08 Aug-22	27	2.0										-			
4-1602	53 - Exavation down to 0.5m below 2nd waling & strut; install waling & strut	16	08-34-22	26-Jul-22	09-Aug-22	26-Aug-22	27	4.0											-		-
h_SA Retain	ning Walls and At-grade Road Works	323	25-4.g-21 A	29-5ap-22	29 Mar 32	24.3an-26	976	137.0				1									
etaining Wa	lls	183	03-Nov-21 A	20-Aug-22	29-Mar 22	24-Jan-26	1009	111.0													
2W-51		104	25-Mar-22	02-Aug-22	03-May-22	09-Sep-22	33	17.0													
Detaining W/	al contract of the second s		25.462(22)	02.466-02	11164-22	611-Say 22		17.0													
54-5024	RWS1 - Exavelian down to formation level +2.9/+4.0	10	25-Nar-22	06-Apr-22	24-Aug-22	03-5ep-22	122	2.0		-	1										
54-5037	RWS1 - Plate Load Test and Report (P2)	5	25 Mar 22	30 Mar 22	11 Aug-22	16 Aug 22	111	1.0													
56-5028	RWS1 - Rate Load Test and Report (P1)	5	07-600-22	12-400-72	05-5ep-72	09-540-22	122	2.0		1	-										
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		- 27			1022-0026-021	21.0226220															
		14	13-Jun-22	28-Jun-22	25-May-22	10-Jun-22	-15	2.0				L									
		7	29-Jun-22	07-Jul-22	27-Jun-22	05-34-22	-2														
54-5056	RW-S1 - Construct Wall (Bay 2/1)	19	29-Jun-22	21-3/1-22	11-Jun-22	64-344-22	-15	3.0										-			
54-5044	RWS1 - Construct Base Slab (Bay 4)	7	08-34-22	15-Jul-22	23-301-22	30-34-22	13	1.0												-	
54-5040	RW/S1 - Construct Base Slab (Bay 6/5)	14	16-3#-22	01-Aug-22	01-Aug-22	16-Aug-22	13	2.0												-	+
54-5054	RWS1 - Construct Well (Bay 3)	9	22-34-22	01-Aug-22	06-Jul-22	15-3-4-22	-44	1.0													-
54-5058A	RWS1 - Fill up to formation level for 6A temp traffic deck	10	22-3#22	02-Aug-22	05-301-22	15-34-22	-15											1		-	-
W-52		113	25-Mar-22	12-Aug-22	30-Apr-22	25-Nov-22	87	22.0													
5A-5104	RW52 - Construct Wall (Bay 7)	5	25 Mar 22	30-Mar-22	13-Oct 22	18-Oct-22	162	1.0		_											
545113	RWS2 - Plate Load Test and Barrott (P2)	5	25.Mar-22	30.Mar.72	09-lun-22	14-Jun-22	58	1.0													
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2002025				000000000	10220308555	1.11.11.11.11.11.11															
	and the second							1.0													
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		20	14-Apr-22								-	1		1							
54-5426	RWS2 - Construct Wall (Bay 0) (2 Life)	24	05-May-22	02-hr>-22	02-3u1-22	29-3:4-22	47	2.0					-	1 1							
545114	bit depict       94, 94, 94, 94, 94, 94, 94, 94, 94, 94,		-		1.1																
• Sind after           Sind           Sind																					
5A5118	<ul> <li></li></ul>																				
54-5105	RW-S2 - Construct Base Slab (Bay S/4)	14	14-Jun-22	29-3xr>22	25-Sep-22	13-Oct-22	87	2.0									-	_			
5A-5116	RWS2 - Construct Wall (Bay 3)	9	14-Jun-22	23-Jun-22	14-Oct-22	24-Oct-22	101	1.0									_				
54-5120A	RW-S2 - Fill up to formation level (SPT) for temp haul road to BA from KOR	18	28-Jun-22	19-301-22	30-301-22	19-Aug-22	27												_		
								10				les-para									
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JA 3120	execution of the second second second second	28	12.78.65	127409-22	2500-22	251401-22	0/	+0			d			1	E)			1	1	1	1
Vurient Me	leatone									Prois	et ID: KTE-	NP29 M35					Broth Par			Chode	ed
		wloc	n Rout	e - Kai "	Tak Eas	t (Mont	h 35 L	Jpda	) (Rev29 - CSD)	Base	line:	25				24-Dec-21	Submit CSD	Programme Re	v 26	TW	D
	noming Work													Antonios		24.Jan 22	Sutant CSD	Programme Re	v 27	TYY	00
						10 B	9			Fite	, reat tile	<ul> <li>a working KON</li> </ul>	ng_1, KIE - SI	autitissi01.		25-Feb-22 25-Mar-22	Submit CSD	Programme Re Programme Re	v 28 with M34 I	Ao. TW	0

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0	Activity Name	Org	Dur Stat	Finish	Lote Start	Late Finish	Totel	TRA (Day	March	April May 36 37		Jane 38	J <i>uy</i> 39
RW-54			151 03-Jan-22 A	14-30-22	12-Mar-22	17-Jan-23	154	5.00	27 36 19 20	27 03 10 17 24 01 06 15	22 29 55	12 19	26 03 10 17
					100000		1.11	0.00					
5A-5146A	RW-54 - Construct Wal (Bay 6) Incl. TCSS duct		21 03-Jan-22 A		12-May-22	12-May-22							
54-5168	RW-54 - Fill up to formation level		47 04-Jan-22 A	05 Mar 22 A	12-May-22	12-May-22		4.00					
54-5162	RW-S4 - Construct Base Slab (Bay 1)		14 02-Jun-22	18-Jun-22	05-Dec-22	20-Dec-22	154	1.00					
5A-5162A	RW454 - Construct Well (Bay 1) incl. TCSS duct		21 20-Jun-22	14-Jul-22	21-Dec-22	17-Jan-23	154	1.00				C	
RW-57-a			54 23-May-22	26-Jul-22	29-0:0:22	28-Feb-23	174	9.00					
54-5190	RW-57 a - Plate Load Test and Report		14 23-May-22	08-Jun-22	29-0e-22	14-Nov-22	132	2.00					
54-5192	RW-57-a - Construct Base Slab (RW-57-a1)		14 09-Jun-22	24-Jun-22	15-Nov-22	30-Nov-22	132	2,00					
5A-5196	RW-S7-a- Construct Wall (RW-S7-a1)		9 25-Jun-22	06-3ul-22	05-Dec-22	14-Dec-22	135	1.00		- in the second s			
SA-5416	RW-57-a - Construct Base Slab (RW-57-a2)		12 25-Jun-22	09-3ul-22	30-Jan-23	11-Fab-23	174	2.00					1
54-5418	RW-57-a - Construct Well (RW-57-a2)		14 11-30+22	26-Jul-22	13-Feb-23	28-Feb-23	174	2.00					
			82 05-May-22	11-Aug-22		22-640-23	155	9.00					
RW-57	Period and a second second second second second				16-Sep-22								
54-5188	RW-S7 - Exavation down to formation level +3.5/+4.1		7 05-May-22	13-May-22	16-Sep-22	23-5ep-22	111	1.00				line and	
54-5194	RW-57 - Construct Base Slab (Bay 1)		7 25-Jun-22	04-3ul-22	01-Dec-22	08-Dec-22	132	1.00					
54-5198	RW-S7 - Construct Base Slab (Bay 2/3)		14 05-Jul-22	20-Jul-22	09-Dec 22	24-Dec-22	132	2,00					
54-5200	RW-S7 - Construct Wall [Bay 1]		9 07-Jul-22	16-Jui-22	15-Dec-22	24-Dec-22	135	1.00					
54-5210	RW-S7 - Construct Base Slab (Bay 9)		7 21-Jul-22	28-Jul-22	15-Feb-23	22-Feb-23	167	1.00					-
54-5204	RW-S7 - Construct Well (Bay 2/3)		19 21-Jul-22	11-Aug-22	28-Dec-22	19-Jan-23	132	3.00					-
RW-57/58			83 14-May-22	20-Aug-22	21-00-22	01-Apr-23	180	13.00					
54-5218	RW-57/S8 - Exavelian down to formation level +3.8/+3	9	7 14-May-22	21-May-22	21-00-22	28-Oct-22	132	1.00					
54-5220	RW-S7/S8 - Plate Load Test and Report		14 23-May-22	08-Jun-22	24-Dec-22	12-Jan-23	180	2.00					
5A-5222	RW-57/SB - Construct Base Slab (Bay 1)		7 09-Jun-22	16-Jun-22	13-3an-23	20-3an-23	180	1.00				-	
54-5224	RW-57/58 - Construct Base Slab (Bay 2)		7 17-Jun-22	24-Jun-22	31-Jan-23	07-Feb-23	182	1.00					
54-5226	RW-57/58 - Construct Wall (Bay 1)		9 17-Jun-22	27-Jun-22	21-Jan-23	07/Feb-23	180	1.00				-h-	
54-5228	RW-57/S8 - Construct Base Slab (Bay 3)		7 25-Jun-22	04-Jul-22	10-Feb-23	17-Feb-23	184	1.00					
54-5230	RW-S2/SB - Construct Wall (Bay 2)		9 28-Jun-22	08-Jul-22	06-Feb-23	17-Feb-23	190	1.00					
54-5232	RW-57/S8 - Construct Wall (Bay 3)		9 09-Jul-22	19-Jul-22	18-Feb-23	28-Feb-23	180	1.00					
54-5234	RW-57/58 - Fit upto formation level		28 20-34-22	20-Aug-22	01-Mar-23	01-Apr-23	180	4.00					
RW-58-a			62 28-May-22	10-Aug-22	11-06-22	13-Jan-23	128	9.00					
54-5260	RW-S8-a - Plate Load Test and Report		14 28-May-22	14-Jun-22	11-00-22	26-0d-22	111	2.00			6		
54-5262	RW-S8-e - Construct Base Skib (RW-S8-e1)		14 15-Jun-22	30-Jun-22	27-0:6-22	11-Nov-22	111	2.00					
54-5264	RW-58-a - Construct Well (RW-58-al.)		9 02-Jul-22	12-30-22	12-1407-22	22-Nov-22	111	1.00					<u></u>
54/5420	RW-S8-a - Construct Base Slab (RW-S8-a2)		20 02:30/22	25-Jul-22	02-Dec22	24/Dec-22	128	2.00					-
5A-5422	RW-S8-e - Construct Well (RW-S8-e2) (2 Life)		24 14-Jul-22	10-Aug-22	14-Dec-22	13-Jan-23	128	2,00					
RW-58		9	114 03-9400-21 /		24-Sep-22	24-Jan-26	1015	6.00					
5A-5272A	RW-58 - Construct Wall (Bay 3)		7 03-Nov-21 A		24-Jan-26	24-3an-26							
54-5278A	RW-58 - Construct Wall (Bay 5)		7 21-Dec 21 A		24.3an-26	24-Jan-26							
	1.1.4							100					
54-5258	RW-S8 - Excavation down to formation level +2.6/+4.1		12 14-May-22	27-May-22	24-Sep-22	10-0d-22	111	1.00					
V Current M										Production and server lateral	Dat		evision Checked
Actual Wo	e	Central Kowl	oon Rou	te - Kai 1	Tak Eas	t (Mont	h 35 L	pdat	) (Rev29 - CSD)	Project ID: KTE-WP29_M35 Baseline:	254kov-2 24/Deo/2	1 Sutanit CSD Program	me Rev 26 TWY
	nuining Work			ree Mon					,,,	Layout: KTE - 3 Months Rolling Programme	25/Dec-2 24-Jan 2	Northly Programme I	432 TYY
- recalling	, interest of the second se									Filter: TASK filters: 3 Months Rolling_1, KTE - Submission.	25-Feb-2 25-Ma-2	2 Submit CSD Program	me Rev 28 with M34 Mo. TVY min Rev 29 with M35 Mon. TVY
										Page 11 of 17	20408-2	Coo Program	

	Activity Norm	Orig Dur	Stat	Finish	Late Start	Late Finish	Total Ficat	TRA (Da)	35 27 36 13 20	58         37         38         39           7         03         10         17         24         01         08         12         19         26         00         17
5A-5276	RW-S8 - Construct Date Slab (Bay 6)	7	02-Jul-22	09-Jul-22	30-Dec-22	07-Jan-23	150	1.0	2 86 13 20	7 03 10 17 24 01 08 15 22 28 05 12 19 26 00 10 17
5A-5270	RW-S8 - Construct Wall (Bay 1)	9	13-Jul-22	22-3.4-22	23-Nov-22	02-Dec-22	111	1.0		
\$A-5272	RW-S8 - Construct Wall (Bay 2)	19	23-Jul-22	13-Aug-22	03-Dec 22	24-Dec-22	111	3.0		
RW-59		126	25-Jan-22 A	06-3.1-22	29-Mar-22	16-Jun-22	-16	20.0		
State 1			IS-INITZ A	10660122	1546072	150052		20.0		
54-5302	RW-59 - Construct Base Slab (Bay 4)	q	25-Jan-22 A	10-Feb-22 A	29-Mar-22	29-Mar-22		2.0		
54-5318	RW-59 - Fill upto formation level		11-Feb-22 A		30-Apr-22	11-May-22	27	4.0		
54-5306			11+60-22 A					2.0		
	RW-59 - Construct Base Slab (Bay 3)			11-Apr-22	29-Mar 22	14-Apr-22	3			
54-5304	RW-S9 - Construct Wall (Bay 4)		25-Mar-22	11-Apr-22	29-Mar-22	14-Apr-22	3	2.0		
54-5308	RW-59 - Construct Base Slab (Bay 2)	11	12-Apr-22	27-401-22	23-Apr-22	05-May-22	7	2.0		
545310	RW-59 - Construct Wall (Bay 3)	15	12-Apr-22	03-Mey-22	19-Apt-22	05-May-22	3	2.0		
54-5314	RW-S9 - Construct Wall (Bay 2)	16	01-May-22	23-May-22	07-May-22	26-May-22	3	2.0		
54-5312	RW-59 - Construct Base Slab (Bay 1)	11	02-Jun-22	15-Jun-22	14-May-22	26-May-22	-16	2.0		
545316	RW-59 - Construct Wall (Bay 1)	17	16-Jun-22	06-301-22	27-May-22	16-Jun-22	-16	2.0		
toad Works		323	25-Aug-21 A	29-5ep-22	10-May-22	17-Jan-23	89	25.0		
Initial Stage f	or Kal Fuk Road	115	25-Mar-22	15-Aug-22	10-May-22	05-Sep-22	18	8.0		
5A-5502	KFRD - Temp relocate existing Traffic Gantry (WB) Kan238	Z	25-Mar-22	25-Mar-22	10-May-22	11-May-22	33	2.0		
SA-6500	KFRd - Temp relocate existing Traffic Gantry (EB)	14	67-Jul-22	22-3.4-22	28-Jul-22	12-Aug-22	18	2.0		
54-5506	KFRd - Construct temp Bus Stop at Kal Fuk Rd (EB)		23-146-22	15-Aug-22	13-Aug-22	05-5ep-22	18	4.0		
						122225077-				
1	Kai Fuk Road for KFR TTA Stage 1, 1.1, 1.2 & 1.3			26-Feb-22 A	12-May-22	12-May-22		6.0		
5A-5523	KFR(Prestage for 1.1) - Road Pavement for KFR TTA Stage 1.1 (Ind.baddfling)			25-Jan-22 A		12-May-22		2.0		
5A-55Z3A	KIR(Pre-stage for 1.2) - Road works for contra flow action	14	25-3an-22 A	16-Pdb-22 A	12-May-22	12-May-22		2.0		
5A-55238	KFR(Pre-stage for 1.3) - Leveling of existing road	6	17-Fdb-22 A	26-Fdb-22 A	12-May-22	12-May-22		2.0		
At-grade Slip	Road S004	24	25-Fab 22 A	24 Man 22 A	12-May-22	12-May-22		4.0		
5A-5510A	EEM - 5004 - Road and Drainage works / Utilities / TCSS duct laying (before KFR TTA Stace 2)	18	25-Feb-22 A	17-Mar-22 A	12-May-22	12-May-22		2.0 2.0		
5A-5510	S004 - Road Pavement for KFR TTA Stage 2	6	18-Ma-22 A	24-Mar-22 A	12-May-22	12-May-22		2.0	in the second	
At-grade Roa	d Kai Fuk Road Westbound 5012	4	09-Apr-22	08-Apr-22	08-Jun-22	11-km-22	49	0.0		
SA-5551	KFR(WE) - removal of traffic gantry Kan23a (nightwork)	а	04-Apr-22	08-Apr-22	08-Jun-22	11-Jun-22	49			
At-grade Roa	d Kai Fuk Road Eastbound \$019/\$020	4	09-Apr-22	13-Apr-22	13-Jun-22	16-Jun-22	-49	0.0		
SA-5559	KFR(EB) - removal of traffic gantry Ksn23c (nightwork)	4	09-Apr-22	13-Apr-22	13-Jun-22	16-km-22	49			
At-orado Roa	d Kai Cheung Road U-turn		23-Jun-22	01-Auto-22	06-3/8-22	17-30-23	136	80	·	
SA-5565	KCRd - Reinstate Kal Cheung Road U-tum (Bridge S2)		23-Jun-22	14-3ul-22	06-301-22	26-301-22	10	4.0		
54-5564						17-Jan-23	136			
	KCRd - Reinstate Kal Cheung Road U-tum (Bridge 51/59)		15-Jui-22	01-Aug-22	24-Dec-22			4.0		
	(EB) - Maintain 3 traffic lanes until CKR commissioning (PMI 253		25-Aug-21 A		28-Jun-22	16-Dec-22	65	0.0		
5A-5844	KFR(EB) - 3 lanes - Tree foling proposal; LCSD checking and approval		25-Aug-21 A		24-Sep-22	07-Od-22	148			
5A-5846	KFR(EB) - 3 lanes - Tree felling works; TTA required	24	07-Apr-22	10-May-22	06-Od-22	04-Nov-22	148			
5A-5842	KFR(EB) - 3 lanes - UU diversion for CLP/Towngas/HKT/HGC/HKBN; set-back	72	07-34-22	29-Sep-22	28-Jun-22	21-Sep-22	-7			
5A-5848	KFR(EB) - 3 lanes - existing planter removal works	36	07-Jul-22	17-Aug-22	05-Nov-22	16-Dec-22	101			
Current Life									in the stand	Dato Rivison Decid
Actual Wor	Central Ko	owloo	n Rout	e - Kai	Tak Eas	t (Mont	h 35 L	Jpdat	(Rev29 - CSD)	Project ID: KTE-WP29_M35 28484-71 Monthly Programme R41 Try Baseline: 24-Dav21 Submit CSD Programme Rev 26 Try
Critical Rem	sering Work					ing Prop			,	Layout: KTE - 3 Months Rolling Programme 25-Dex 21 Monthy Programme M32 TY
- Hernanog	700									Filter: TASK filters: 3 Months Rolling, 1, KTE - Submission. 25464722 Submit CSD Programme Rev 28 with Mis Mo., TY 25464722 Submit CSD Programme Rev 28 with Mis Mo., TY 25464722 Submit CSD Programme Rev 28 with Mis Mot., TY

rið	Activity Marree	Orig Dur	Star	Finish	Law Stat	Late Finish	Totel Picat	TRA (Da	Natch 35 27 46 53 29	2	00   10	6	24	01 0	8 9	22	1 29	1 65	38 12	19	28	85	30 10	17	34
SCH_6B Re-co	instruction of Edisting Box Culvert	30	25-Mar-22	04-May-22	11-Aug-22	15-Sep-22	111	0.0		11															
Box Culvert re	e-construction Works	30	25-Mar-22	04-May-22	11 <b>-Aug-</b> 22	15-Sep-22	111	0.0		1		1									the second				
BC- Reinstate	ement Works	30	25-Mar-22	04-May-22	11-Aug-22	15-Sep-22	111	0.0																	
6B-5782	BC - Reinstate hard paving and related UU	12	25-Mar-22	08-Apr-22	11-Aug-22	24-Aug-22	111			-	-										1				
6B-5784	BC - Reinstate planter wall in DSD compound	12	09-Apr-22	26-Apr-22	25-Aug-22	07-Sep-22	111																		
6 <b>B-</b> 5786	BC - Transplant 5 nos of tree in DSD compound	3	09-Apr-22	12-Apr-22	05-Sep-22	07-Sep-22	120				-														
68-5788	BC - Reinstate fending in DSD compound	6	27-Apr-22	04-May 22	08-Sep-22	15-Sep-22	111							-											
6B-5790	BC - Complete reconstruction of Box Culvert	0		04-May-22		15-Sep-22	111																		
Section 4 - E	stablishment Works for Landscape Softworks under	365	01-M86-21 A	30-4pr-22	29-Mar-32	14-May-22	4	-0.0																	
Sch_8 Establis		365	01-Nay-21 A	30-Apr-22	29-14a-22	04-May-22	4	0.0																	
8-6128	54 - Establishment Works for Landscape Softwarks under Section 3	365	01-May-21 A	30-Apr-22	29-Mar-22	04-May-22	- 1	0.0		1															
8-6130	54 - Completion of the Works in Section 4	0		30-Apr-22		D4-May-22	4			Ť											1				
Section 5 - S	lip Road S5 Works (Subject to Excision)	6	22.40632	27-401-72	274Mar-315	27.444-03	274	6.0																	
	valnage and Road Works	0	22-40+22	22-Apr-22	2744a-23	27-448-23	274	0.0																	
58-6200	S5 - Notified by PM's to execute Section 5 of the Works (Sip Road S5)		22-Apr-22	a contraction	27-Mar-23		274	190				1													
			22-40-22	22-40-22	2312-532	24 Dec22	200																		
	scape Route for Slip Road S6 Works (Subject to Exc rainage and Road Works		22-Apr-22	22-Apr-22	28-Deo-22	28-Dec 22	205	0.0		= -															
				tradient		2800022																			
50-6300	56 - Notified by PM's to execute Section 6 of the Works (Slip Road S6)		22-Ap#-22		28-Dec-22		205																		
	entilation and E&M adit and Ring Road Underpass						-48																		
	ation and E&M Adit Works		2544a+21 A		11-Jan-22	23-Jun-32	5	12.0																	
Area Part 1D1	l, 1D3, 1B1 & 1B2	359	25-Mar-21 A	17-kn-22	11-Jan-22	23-Jun-22	5	12.0		1															
VA - RC Struc	tures	118	15-Nov-21 A	25-Mar-22	11-Jan-22	11-km-22	-56	0.0																	
										1											1				
6A6571	VA BS - Badifiling to stdic L3/L4/L5	50	15-Nov-21 A	25-Mar-22	11-Jan-22	11.Jan-22	-56																		
VA Sections	- Bay B6 (~14m)	50	15:38:32.4	15.64.97	13-389-73	11.440-27																			
646577	VA-86 - Backfilling to stolke L3/L4/L5	50	15-3an-22 A	25-Mar-22	11-Jan-22	11-Jan-22	-56																		
VA - Miscellar	neous	359	25-Mar-21 A	17-Jun-22	15-3an-22	23-Jun-22	5	12.0																	
VA - Shige 1	Miscella isociae svorile		39740-25 A	06-88622	15/16/42	26.0632								*****											
64-5604	VA - Movement Joint / Waterproofing, Stage 1	32	25-Mar-21 A	29-Mar-22	15-Jan-22	19-Jan-22	-53	2.0																	
64-6606	VA - Saddling up to GL with additional concrete bik end wall, Stage 1	16	28-Dec-21 A	29-Mar-22	18-3an-22	19-Jan-22	-53	4.0	-																
6A-6607	VA - Haul Road preparation & diversion, stage 1 (and May 2021)	6	30-Ma-22	06-Apr-22	20-Jan-22	26-Jan-22	-63			-	- i - i	1													
VA - Stage 3	Miscellancout world	112	A STORY &	inkneti	and the second s	21-10-02				1															
64-6608	VA - Movement Joint / Waterproofing, Stage 3	50	24-3an-22 A	30-Apr-22	27-Jan-22	23-Feb-22	-53	2.0	dimenter di senter di se		-	i i i i i i	-												
64-6610	VA - Badyfiling up to GL, Stage 3		07-Apr-22	17-Jun-22	27-Jan-22	09-Apr-22	-53	4.0							1	1	0	_							
64-6612	Completion of Structure of vent, and EBM Adit within Parts 1B1, 1B2, 1D1,		SUBAR	17-kn-22	an der set	23-Jun-22	5				24														
134.0024.0014	103 Road Underpass	145	25-Dec-21 A	19-Aug-22	12-Jan-72	23-Jun-22	-48	68.0		1															
and the second second	Road Underpass		250ec21 A		12-Jan-22	23-lun-22	-48	68.0																	
								1.000				lucaul													
RR - ELS Wor	RS .	93	25 Otto 21 A	31-948-22	14-Feb-22	07-May-22	27	9.0		1				E.	1			1		11		1			
🛡 Qurent Mi	Hefforda -									-		WED0 140					-	Date			Revsion			Techel	
Adual Wor	* Central K	owloa	n Rout	e - Kai	Tak Eas	t (Mont	h 35 l	Joda	e) (Rev29 - CSD)		ject ID: KTE- eline:	IVP-29_M3	0					254Nov-21 24-Deo-21	Sutarr	WProgramm in CSD Progr	timere Pay	26	700 700	0	DC DC
Citical Ren Remaining	noining Wark					ing Prog			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Lay	out KTE - 3						100	25 Deci21 24 Jan - 22	Month	4 Piogramm it CSD Piogr	10 MB2	28	715		DC DC
- I renang	311 LONG ( )		0.000	2260021200			05710709			Fib	r: TASK filte	rs: 3 Month	s Rolling	1, KIE - 8	uomissio	n.		25Feb-22 25Mar-22	Subm	I CED Proy	terrente Filos 2	28 with M34	Mo. TW	v (	00
										Par	e 13 of 17							LUNIONAL	ouam	- 000 Mag	anne rett.	0.04111490	matt. 1971		100

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- Bax Section - Any Ba (20 6748 - Any Ba (20 6754 - Any Ba (20 6756 - Any Ba (20 6778 - Any Ba (20 6770 - Any Ba (20 - A	(R2 - Exceeded: Down to 1st waing & Stut; Intal waing & Stut;	21 6 104 21		11-99-22 A 27-39-22 A 22-Mar-22 A 31-Mar-22 02-Aug-22 22-00-2		14-feb-22 14-feb-22 14-feb-22 07-May-22 23-3.m-22	Float	4.00 4.00
6732 6732 6753 6765 6775 6774 6776 6776 6776 6777 6779 677 677	RR- Excavation Down to Final Formation Level (BEI&IE2 RR- Excavation Down to Formation Level (Bei&Billing) (RR), 1818.182 (Open ant) exp. Pump Samp & FS Plant Room 111 CHO+114 Int 0+ 146() RRR3 - Construct Top Sab 111 CHO+144 int 0+ 1611 (RRH4 - Construct Top Sab 111 CHO+161 (n 0+ 180)	21 6 104 21	27-Jan 22 A 25-Ma-22 28-Pdb-22 A	22-Mar-22 A 31-Mar-22	14-Reb-22 30-Apr-22	14 Feb 22 07-May-22	27	
6734 6736 - Box Section 6748 - Bay B4 (So 6754 - Bay B5 (So 6756 - Bay B5 (So 6756 - Bay B5 (So 6770 6790 6790 6790 6790 6790 6790 6790 6790 6790 6790 6700 6	RR- Excavation Down to Final Formation Level (BEI&IE2 RR- Excavation Down to Formation Level (Bei&Billing) (RR), 1818.182 (Open ant) exp. Pump Samp & FS Plant Room 111 CHO+114 Int 0+ 146() RRR3 - Construct Top Sab 111 CHO+144 int 0+ 1611 (RRH4 - Construct Top Sab 111 CHO+161 (n 0+ 180)	21 6 104 21	27-Jan 22 A 25-Ma-22 28-Pdb-22 A	22-Mar-22 A 31-Mar-22	14-Reb-22 30-Apr-22	14 Feb 22 07-May-22	27	
-6736 - Box Section - Any Bis (50 -6748 - Buy Bi (50 -6754 - Buy Bi (50 -6758 - Buy Bi (50 -6768 - Buy Bi (50 -6770 -6770 -6770 -6779 -6790 -6.00y Bi (50	RR-Excession Down to Formation Level (BashBing) (RR), 1818/182 (Open off)           ndt)           ns, Pump Sump & FS Plant Room           III (HG+114 to 0+144)           RRR3 - Construct Top Sab           011 (CH0+144 to 0+161)           RR44 - Construct Top Sab           III (HH0+161 to 0+180)	6 104 21 21	25-Mar-22 28-Peb-22 A	31-Mer-22	30-Apr-22	07-May-22	27	4.00
R - Box Section R - Box Section 4-6748 4-6748 4-575 4-575 4-575 4-575 4-575 4-576 4-577 4-577 4-577 4-577 4-577 4-579 4	ad) ns, Pump Sump & FS Plant Room all CH0+134 to 0+146) RR83 - Construct Top Sab all CH0+146 to 0+161) (RR44 - Construct Top Sab all CH0+161 (n 0+180)	104 11 21	28-Ftd-22 A				27	
IRK - Bay ILS (50 4-6748 IRK - Bay ILA (50 4-6754 IRK - Bay ILS (50 4-6758 4-6770 4-6778 4-6770 4-6777 4-6777 4-6779 4-6779	ass (240+134 to 0+144)  9940 - Condituit Top Sab  011 CH0+144 to 0+161)  9844 - Condituit Top Sab  011 CH0+161 to 0+180)	21 21	39404.00	02-Aug-22	12-Jan-22			1.00
4-6748 HR - Bury E4 (50 4-6754 HR - Bury E5 (50 4-6756 HR - Bury E5 (50 4-6758 4-6770 4-6770 4-6777 4-6779 4-6779 4-6780 HR - Bury E0 (50	8843-Construct Top Stab 011 CH0+144 to 0+1611  8844-Construct Top Stab 011 CH0+161 to 0+180)	23	28.Mar-22			25-10-22	-33	35.00
RR - Bay B4 (50) 46754 RR - Ray R5 (50) 46756 RF - Ray R5 (50) 46756 46770 46770 46770 46770 46770 46770 46790 RR - Bay R6 (50)	011 CH0+146 to 0+161) JRFA4 - Centrut Top Sab 011 CH0+161 to 0+180)	23	28-Mar-22					
46754 R8 - Ray R5 (50) 46766 18 - Ray R6 (50) 46778 46770 46770 46777 46779 46790 R8 - Bay R6 (50)	MR-R4 - Construct Top Side 0.1 ( CH(0+16.1 (c) 0+1800)	23		25-Apr-22	20-Apr-22	16-May-22	16	2.00
HP:         - Ray HD:         500           46766         - Ray HD:         500           46768         - 46778         - 46770           46776         - 46772         - 46775           46776         - 46779         - 46779           46790         - 46790         - 46790           RR - Bay HD:         - Bay HD:         - Bay HD:           RR - Bay HD:         - Bay HD:         - Bay HD:	011 CHD+161 (o 0+188)	23						
46766 113 - Buy Bd (50 46770 46772 167 - Buy B7 (50 46777 46777 46779 46780 178 - Duy B0 (50			25-Mar-22	25-Apr-22	30-Mar-22	29-Apr-22	4	2.00
IR - Boy Bd (50 16768 46770 46772 192 - Boy B7 (50 46775 46779 46779 46779	a Stendard International Inter	10	2544-22	234p-11	30-Fite 02	2944+32		2.00
46768 46770 46772 168- Boy B7 (50 46777 46779 46790 RR- Doy B8 (50	RR-R5 - Construct Top Slab	23	25-Mar-22	25-Apr-22	30-Mar-22	29-Apr-22	4	2.00
46770 46772 101 - Bay 107 (50 46776 46777 46780 101 - Day 10 (50	011 (40+100 to 0+193-3)	01	2594a-22	11-5.6-12	14/14/22	294er12	34	310
46772 NR - Boy 87 (50 46776 46777 46779 46780 NR - Boy 86 (50	RR-R6 - Construct, Base stab	14	25-Mar-22	11-Apr-22	14-Reb-22	01-Mar-22	-31	3.00
199 - Bay 87 (50 146776 446777 446779 446780 108 - Bay 88 (50	RR-R6 - Construct External Wall	24	12-Apr-22	14-May-22	02-Mar-22	29-Mar-22	-34	2.00
46776 46777 46779 46790 RR= Day BA (50	RR-R6 - Construct Top Slab	23	16-Nay-22	11-Jun-22	30-Mar 22	29-Apr-22	-34	2.00
46776 46777 46779 46790 RR= Day BA (50	011 CH0+193.3 to 0+211.6) (et-grade) (RU1)	90	00 Fre-22 A	15-34-22	12-30-22	233,022	-19	610
4-6777 4-6779 4-6790 101 = 0.07 0.0 (50	RR-RU1 - Construct Intermediate Slab, RC Walls & Slabs up to -0.825	34	28-Feb-22 A	23-Apr-22	12-Jan-22	12-Feb-22	-56	4.00
4-6779 4-6790 FUR: Day Dd (50	RR-RU1 - Construct: Plantroom Slabs up to -0.675 (PS plantroom 2)	15	25-Apr-22	13-May-22	30-Mar-22	20-Apr-22	-18	
4-6780 RG1- Boy BA (50	RR-RU1 - Construct. Top Siabs up to +3.375/+4.500 (FS plantroom 1 & 2)		14-May-22	30-Jun-22	21-401-22	09-Jun-22	-18	
FUR - Day DA (50	RR-RU1 - Construct RC Walls up to +7.300	12		15-34-22	10-Jun-22	23-3.m-22	-18	2.00
		12	02.00.555	13:00:22	10:00/22	2333722	-10	2.00
	011 CH0+211.6 to O+225) (st-grade) (RU2)		an eller	00-M/-62	14 14 14			4.00
	RR-RUZ - Construct Base slab		25-Apr-22	13-May-22	14-Reb-22	02-Mar-22	-56	2.00
4-6783	RR-RU2 - Construct Side Yilails 1st pour		14-May-22	10-Jun-22	03-Mar-22	29-Mar-22	-56	
4-6786	RR-RU2 - Construct Side Walls 2nd pour	23	11-Jun-22	08-3ul-22	30-Mar-22	29-4pr-22	-56	2.00
4-6784	RR-RU3 - Construct Base slab	24	14-May-22	11-Jun-22	89-Mar-22	05-Apr-22	-51	2.00
4-6785	RR-RU3 - Construct Side Walls 1st pour	9	13-Jun-22	22-Jun-22	07-Apr-22	20-4pr-22	-51	
4-6790	RR-RU3 - Construct Side Walk 2nd pour	20	23-Jun-22	16-3ul-22	21-Apr-22	16-May-22	-51	2.00
IIR - Bay B10 (S	9211 CH0+229 to 0+252 295) (at grade) (#U4)		Mir Annyi J	UI-Aug-11	11-401-22	3010477	-53	4.60
4-6788	RR-RU4 - Construct Base slab	13	18-Jun-22	01-301-22	11-Apr-22	28-Apr-22	-53	2.00
4-6792	RR-RU4 - Construct Side Yialis	25	05-3ul-22	02-Aug-22	29-Apr-22	30May 22	-53	2.00
AR - Bay 811 (5	5011 CH0+252.265 to 0+265.675) (VA Soction)	50	18764-72	21page1	111114-07	11104-22	-2	2.00
4-6794A	RR-VA -bay 11- Construct base-slab	30	18-May-22	22-Jun-22	19-Mar-22	27-Apr-22	-45	
4-6794	RR-VA -bay 11- Construct Side Walls	26	23-Jun-22	23-Jul-22	28-Apr-22	30-May-22	-45	2.00
	5011 CH0+205.575 to 0+273.53 (at-grade) (RU5)	10	15-14-22	25-34-22	10-00r 12	30.064-22	-46	- 00
4-6796	RR-RUS - Construct Base slab	18	05-3.4-22	25-34-22	10-May-22	30-May-22	-46	2.00
				- 1949/AP	2008052	1.	<u> </u>	24.00
				199901-22	217407-22	Praste2	-30	24.00
Tot: Stage 2 Mi	sceareous works		Terra de	1 10 10 12	1110-122	1911112	u	
Current Mission	ne Central Ko	44	1444a-2		2 01 10 22	2 06.33 22 23 45 22	2 06.5422 21.46422 34.34152	2 19469-22 21409-22 14-38-22 -56 2 453-52 15-52 14-38-22 15 14te - Kai Tak East (Month 35 U
Oticsi Remainin Remaining Wor	and Mone			ree Mon				

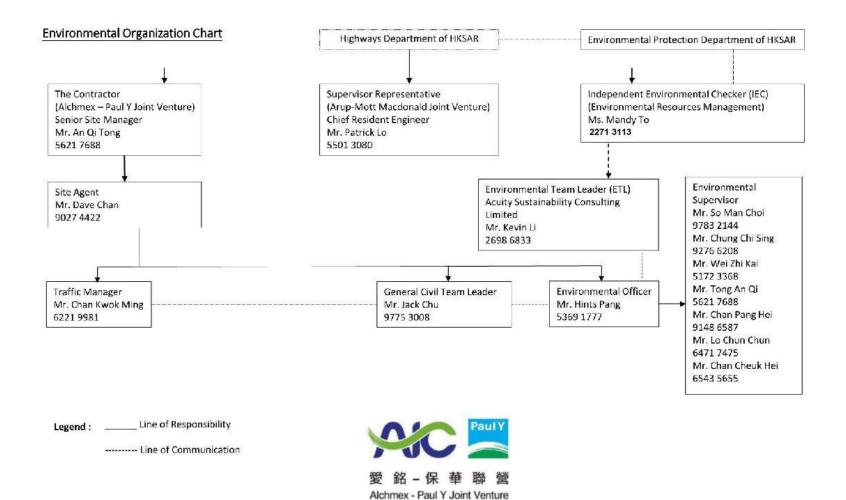
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ID	Activity Name	Org Dur	Stat	Finish	Lale Start	Late Finish	Tolal Float	TRA (De	March		April 36		Mey 37			June			10	-	
4-6882	RR · Movement joint / Wateproofing, Stage 2	22	14-May-22	21-3.0-22	21-Apr-22	30-May-22	-18	4.0	27 86 13 30	27 03 19	17	24 01	08	5 22	20 0	5 12	19	36 03	10	17	34
			0.282.25.22					207		a hand								-			
4-6884	RR - Badefiling up to GL. Stage 2		28-May-22	06-3ul-22	06-May-22	14-Jun-22	-18	4.0													
4-6801	RR - Movement joint / Waterproofing, Stage 4	24	13-Jun-22	11-Jul-22	30-Apr-22	30-May-22	-34	4.0								-			-		
4-6802	RR + Badkfilling up to GL. Stage 4	24	27-Jun-22	25-3ul-22	17-May-22	14-Jun-22	-34	4.0											-	-	j.
RR - Stage S	Miscellaneous Works	-	0-13-23	19940 grazz	Same	14-1m-22		A 0													
4-6886	RR - Novement joint / Waterproofing, Stage 5	24	69-34-22	05-Aug-22	30.4pr-22	30-May-22	-56	4.0											-		-
4-6888	RR - Backfilling up to GL. Stage 5	24	23-34-22	19-Aug-22	17-May-22	14-km-22	-56	4.0												-	-
ection 10 -	Footbridge, E&M Installation and Miscellaneous Wc	.92	10-lin-22 A	substrates.	10005922	11:201222	-16	7.0													
	m Exisitng Subway KS-20	97	13-Jan-22 A	29-34-22	12-May-22	11-Jul-22	46	7.0									1				
	alistion / Filling Works	97	13-Jan-22 A	29-14-22	12-May-22	11-Jul-22	-16	7.0													
Kai Fuk Road			13-lm-22 A		12-Mar-22	11-Jul-22	-16	7.0													
7-7332	KS20 - General fill to formation level / Utilities diversion / Laying inside subway						- 10	2.0													
				27-Jan-22 A		12-May-22													1		
7-7324	KS20 - Bridswork wall for Subway		07-3ui-22	22-3ul-22	17-Jun-22	04-Jul-22	-16	2.0											1		
7-7326	KS20 - Foamed concrete infil / Non-shink grout		23-34-22	29-Jul-22	05-Jui-22	11-Jul-22	-16	3.0													-
Kai Fuk Road	(Central)	24	04-Apr-22	06-May-22	19-May-22	16-Jun-22	33	0.0	Encodern Annakara Ru									and denois			
7-7335	KS20 - Trial trench for sheetpile works	8	04-Apr-22	13-Apr-22	19-May-22	27-May-22	33														
7-7336	KS20 - Install sheetple for subway box section	10	14-Apr-22	28-Apr-22	28-May-22	09-Jun-22	33				E	-									
7-7337	KS20 - Reinstate road pavement before implement NFR TTA Stage 3	6	29-Apr-22	05-May-22	10-Jun-22	16-Jun 22	33														
ection 11 -	Structure of Bridge CKRE	79	01-Mar 22 A	19-Jun 22	13-3an-22	15-5ip-22	79	16.0													
Sch_3.10 Brid	ge CKRE Works	78	01-Mar 22 A	23-Jun-22	13-34h-22	15-Sep-22	70	16.0													
CKRE - Piling	Works	24	25-Mar-22	26-Apr-22	13-341-22	05-Aug-22	83	0.0													
Piling Works	- Pier P-K5-CKRE	24	25-Mar-22	26-Apr-22	13-Jun-22	05-Aug-22	83	0.0													
3.10-7510	CKRE - KS-CKRE-1 Proof drilling & Piles testing	24	25-Mar-22	26-Apr-22	13-Jan-22	11-Jul-22	61	0.0		1. 1											
3.10-7518	OKRE - K5-OKRE-2 Proof drilling & Piles testing		25.Mar-22	26-Apr-22	09-341-22	05-Aug-22	83	0.0			-										
	ABUT A-K4-CKRE		25-Mar-22	14-40+22	28-3un-22	18-Jul-22	74	0.0													
3.10-7526	CKRE - ABUT A-K4-CKRE Proof chilling & Piles testing		25-Mar-22	14-Apr 22	28-Jun-22	18-Jul-22	74	0.0		_	-										
	aps, Pier / Abutment		01-Mar-22.A		12-Jul-22	15-Sep-22	70	16.0													
Abutment A-H	(1-CKRE	29	25-Mar-22	03-May-22	05-Aug-22	10-Sep-22	109	4.0													
3.10-7536	OKRE - Construct Abutment A-K1-ORRE	20	25-Mar-22	21-Apr-22	05-Aug-22	27-Aug-22	106	4.0													
3,10-7538	OKRE - A-KL-OKRE Install Permeate Membrane and Baddfill	9	22-Apr-22	03-May-22	01-Sep-22	10-Sep-22	109	0.0			-										
Pier KS-CKRE	-1	47	27-Apr-22	23-Jun-22	12-Mi-22	03-Sep-22	61	4.0													
3.10-7540	OKRE - Prepare Pile Head for KS-OKRE-1	24	27-Apr-22	26-May-22	12-34-72	08-Aug-22	61	1.0										1			
3.10-7544	CKRE - K5-CKRE-1 Reinstatement of Slab of Kai Tak River; remaining works	5	27-May-22	01-Jun-22	09-Aug-22	13-Aug-22	61	1.0													
3.10-7542	OKRE - Construct Pier KS-OKRE-1 (2 URs)	18	02-Jun-22	23-Jun-22	15-Aug-22	03-Sep-22	61	2.0								_	-				
Pier K5-CKRE	-2	47	27-Apr-22	23-Jun-22	12-3:4-22	03-5ep-22	61	4.0													
3.10-7552	OKRE - Prepare Pile Head for KS-OKRE-2		27-Apr-22	26-May-22	12-Jul-22	08-Aug-22	61	1.0													
3.10-7556	OKRE - KS-OKRE-2 Reinstatement of Slab of Kai Tak River, remaining works	5	27-May-22	1.5.6.1.1.1.1.02	09-Aug-22	13-Aug-22	61	1.0													
Current Mik	store									Project ID; KT	E-WP29_M35				Do 25-Nov		hy Progamme	Revision		Checked TW (	A
Aduat Wor Otkai Ren Remaining	using Wole	owloo				st (Mont ing Prog			) (Rev29 - CSD)		iters: 3 Month	ing Programme Rolling_1, KTE	- Submissi	on,	24-Dets 25-Dets 25-Febs 25-Febs 25-Mar	21 Subri 21 Mont 22 Subri 22 Subri	nii CSD Progra hiy Programme nii CSD Progra nii CSD Progra	mmu Rav 26 MS2	e-M34 No	TYY 0 TW 0 TW 0 TYY 0	80000

ID.	Activity Name	Ong Dur	Stat	Finish	Late Start	Late Finish	Total Float	TRA (Day	Ap 3 20 27 03 10	91 Way 6 37 37 17 24 01 06 16 23	Juné 38 29 05 12 19 24	38 38 68 10 17 3
3.10-7554	ORRE - Construct Pier KS-ORE-2 (2 Lifts)	18	02-Jun-22	23-Jun-22	15-Aug-22	03-Sep-22	61	2.0				
Abutment A-	K4-CKRE	74	01-Mar 22 A	18-Jun-22	19-34-32	15-Sep-22	74	4.00				
3.10-7568	ORE - Prepare pile head (4nn) AK4-ORE	20	81-Mar22 A	21-Mar-22 A	19-34-22	19-Jui-22		0.0				
3.10-7570	ORRE - Construct Abutment Base A+K4-O/RE	17	21-Har-22 A	12-May-22	19-34-22	09-Aug-22	74	1.00	-			
3.10-7572	ORRE - Construct Abutment A-K4-ORE	72	13-969-22	08-Jun-22	10-Aug-22	03-5ep-22	74	3.00				
3.10-7574	ORE - A-K4-ORE Install Permeate Membrane and Baddill		09-Jun-22	18-Jun-22	05-Sep-22	15-Sep-22	74	0.0				
- Internet and the second s			-	19-01-22	(0.7.6.07	17414524	-	0.0				
	Underpass S21		25400521 A					21140				
	toad Underpass \$21		25-0d-21 A	19-401-22	09-Dec-22	17466-23	245	18.0				
S21 - RC Stru			25-Mar-22	08-Apr-22	16-Dec-22	314Dec-22	217	2.00				
	gh Sections - South (CH000 to CH143.981)		25-Man22	08-Apr-22	16-Dec-22	31-Dec-22	217	0.00				
4-7812	S21-82-10 - Construct At Grade slab	12	25-Mar-22	08-Apr-22	16-Dec-22	31-Dec-22	217	0.0				
521 - U-Trou	gh Sections - North (CH205.700 to CH354.957)	12	25-Mar-22	08-Apr-22	16-Dec-22	31-Dec-22	217	2.0				
S21 - 6/ly 63	I-9 - At Grade Sinb Part 38 (CH321.13 to 354.957) Part 36			01-00-22	16-00:22							
4-7868	S21-63-9 - Construct At Grade slab	12	25-Mar 22	08-Apr-22	16-Dec-22	31-Dec 22	217	2.0				
S21 - Miscella	ineous Works	139	25-0xt-21 A	19-Apr-22	09-Dec-22	17-Feb-23	245	16.0				
S21 - Waterp	roofing and Backfilling Works	139	25-0d-21 A	19-Apr-22	09-Dec-22	17-Feb-23	245	16.0				
	ections (CH143.681 to CH205.700)		100014	10.424-22	8144-52	1100-20						
4-7870	521 - Watesproofing / Movement Joint / Masonry Wall (Box Section)	40	25-0ct-21 A	31-Mar-22	09-Dec-22	15-Dec-22	211	6.0				
4-7872							217					
	521 - Bedrilling up to GL (Box Section)		01-Nov-21 A	08-401-22	31-Dec-22	31-Dec-22	217	6.0				
									and the second			
4-7946	S21 - Waterproofing / Movement Joint / Masonry Wall (U-Trough Section - North)	36	014kov-21 A	31-Mar-22	16-Dec 22	22-Dec22	217	4.0				
4-7814	S21 - Final Completion Works	12	01-Apr-22	19-Apr-22	16-Dec-22	314Dec-22	211	0.0		-		
4-7816	S21 - Completion of Structure of Underpase S21	0		19-Apr-22		17-Feb-23	245	0.0				
Section 17 -	Sleeve pipes for District Cooling System (Subject to	104	28-0ec-21/A	12.May-22	38-Mark22	045cp/25	1976	10.0				
Sch_10 Sleev	e pipes for DCS (Kai Tak River West)	0	25-Ma-22	25-Mar-22	28-Mar-22	28-Mar-22	3	3.0				
DCS-West Se	ction A (39m)	0	25-Mar-22	25-Mar-22	28-Mar-22	28-Mar 22	3	3.0				
10-8478	DC5(W)_A - Reinstatement (Pavement / fending / etc.)	0	25 Mar 22	25-Mar-22	28-Mar-22	28-Mar-22	3	3.0				
Sch 10 Sleev	e pipes for DCS (Kai Tak River East)	104	28-Dec-21 A	12-May-22	01-Apr-22	04-Sep-25	975	16.0				
and the second second	tion 1 (approx 37.5m)			12-May-22	01-Apr-22	10-0:0-22	124	2.0				
10-8524	DCS(E) - Baddiling works for DCS pipes			06-Mar-22 A		01-Apr-22		2.0				
10-8524A	DCS(E) - Baddiling works in DCS area (up to G.L.)			12-May-22		10-00-22	124	100				
			25-Mar-22		26-Aug-22			1/4/4-4				
	tion 2 (approx 37.5m)		28-Dec-21 A	30-Apr-22	01-Apr-22	04-Sep-25	984	14.0				
10-8534	DCS(E) - Install skewe pipes 3x1800 ID (L=37.5m)		28-Dec 21 A			01-Apr-22		6.00				
10-8536	DCS(E) - Baddiling works for DCS pipes	12	28-Dec/21 A	10-Mar-22 A	01-Apr-22	01-Apr-22		2.0				
10-8508	DCS(W)_C - Final completion works	5	09-Mar-22 A	10-Mar-22 A	04-Sep-25	04-Sep-25		6.00				
10-8510	DCS(W)_C - Completion of Sterve pipes for DCS (Section 17)	0		10-Mar-22 A		04-Sep-25						
			100								Date Reve	m Oneward /
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Barnening	Work								Filter: TASK filter	rs: 3 Months Rolling_1, KTE - Submission.	25-Feb-22 Submit CSD Programme I	Rev 28 with MS4 Mo., TYY DX
									Page 16 of 17		25-Mar-22 Submit CSD Programme I	Rev 29with M35 Mon., TYY DX

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10-85364	DCS(E) - Backfilling works in DCS area (up t	e GL)	28 25-Mar-22	30-Apr-22 05-Sep-	2 10-0ct-22	132	1		F			and a state								
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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	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
2.Exceedance for two or more consecutive samples	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial to ER within 3 working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
LIMIT LEVEL	·		1	1
1.Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform ER, Contractor and</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC</li> </ol>

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

Note:

ET – Environmental Team

ER – Engineer's Representative

IEC – Independent Environmental Checker

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

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

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	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	Implemented
\$4.3.10	D2	<ul> <li>Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m<sup>2</sup> to achieve the dust removal efficiency.</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	Implemented
xS4.3.10	D3	<ul> <li>Proper watering at exposed spoil should be undertaken throughout the construction phase;</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> <li>A stockpile of dusty material should not be</li> </ul>	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	<ul> <li>APCO</li> <li>To control the dust impact To meet HKAQO and TM-EIA criteria</li> </ul>	Implemented

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S4.3.10		<ul> <li>continuously;</li> <li>Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;</li> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> <li>Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system</li> <li>Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.</li> <li>Implement regular dust monitoring under EM&amp;A programme during the construction stage.</li> </ul>	Monitoring of dust impact	Contractor	Selected rep. dust monitoring	Construction stage	• TM-EIA	• Implemented
			Construc	tion Noise (Airborn	station 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	<ul> <li>Implement the following good site practices:</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme;</li> <li>Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;</li> <li>Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	• Implemented
S5.4.1	N2	Install temporary hoarding located on the site boundaries between noisy construction activities and NSRs. The conditions of hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy	Sreen the noisy plant items to be used at all construction	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		plants including air compressors, generators and handheld breakers, etc.	sites					
S5.4.1	N4	Use 'Quiet plant'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	• Annex 5, TM-EIAO	Implemented
\$5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	• TM-EIAO	Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.1	W1	<ul> <li>In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), construction phase mitigation measures shall include the following:</li> <li>Construction Runoff <ul> <li>At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or 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;</li> <li>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;</li> <li>The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under</li> </ul> </li> </ul>	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	• Implemented

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

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

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

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S6.9.1.3	W3	<ul> <li>Sewage Effluent</li> <li>Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.</li> </ul>	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> </ul>	Implemented
\$6.9.1.5	W4	<ul> <li>Groundwater from Potential Contaminated Area:</li> <li>No direct discharge of groundwater from contaminated areas should be adopted.</li> <li>A discharge license under the WPCO through the Regional Office of EPD for groundwater discharge should be applied. Prior to the excavation works within these potentially contaminated areas, the groundwater quality should be reviewed during the process of discharge license application. The 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</li> </ul>	To minimize groundwater quality impact from contaminated area	Contractor	Excavation areas where contamination is found	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>TM-DSS</li> <li>TM-EIAO</li> </ul>	• Implemented

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

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/or standards to be achieved	Implementation Status
		removed as necessary by installing the petrol interceptor.						
\$6.9.1.6	W6	<ul> <li><u>Accidental Spillage</u></li> <li>In order to prevent accidental spillage of chemicals, the following is recommended:</li> <li>All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains;</li> <li>The Contractor should register as a chemical waste producer if chemical wastes would be generated. Storage of chemical waste arising from the construction activities should be stored with suitable labels and warnings.</li> <li>Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.</li> </ul>	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	<ul> <li>Water Pollution Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	• Implemented
			Waste Manage	ement (Construction	Waste)			
S7.4.1	WM1	<ul> <li>On-site sorting of C&amp;D material</li> <li>Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites</li> </ul>	Separation of unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	• N/A

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		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	<ul> <li>Construction and Demolition Material</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement;</li> <li>Carry out on-site sorting;</li> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate;</li> <li>Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling</li> </ul>		Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		<ul> <li>purpose, where possible;</li> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified; and</li> <li>Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&amp;D materials and to minimize their generation during the course of construction.</li> </ul>	disposal					
\$7.5.1	WM3	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&amp;D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage;</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be</li> </ul>	generation and recycle the C&D materials as far as practicable so as to reduce the amount for final	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	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	<ul> <li>Excavated Contaminated Soils</li> <li>Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	РВН4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>GN/GM for land contamination</li> </ul>	Implemented
\$7.5.1	WM5	<ul> <li>Land-based Sediment</li> <li>All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location;</li> <li>All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the sea except at the</li> </ul>	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		<ul> <li>approved locations;</li> <li>Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.</li> <li>The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers;</li> <li>The Contractors shall comply with the conditions in the dumping licence.</li> <li>All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material;</li> <li>The material shall be placed into the disposal pit by bottom dumping;</li> <li>Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site;</li> <li>Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.</li> <li>For Type 3 special disposal treatment, sealing of</li> </ul>						

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		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	<ul> <li><u>Chemical Waste</u></li> <li>Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes;</li> <li>Containers used for the storage of chemical wastes should be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed, have a capacity of less than 450 L unless the specification has been approved by EPD, and display a label in English and Chinese in accordance with instructions prescribed in Schedule 2 of the regulation;</li> <li>The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient</li> </ul>	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal (Chemical Waste) (General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	Implemented after observation

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM7	<ul> <li>capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated;</li> <li>Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.</li> <li>General Refuse</li> <li>General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes;</li> <li>A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.</li> <li>Aluminum cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible;</li> <li>Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant</li> </ul>	refuse and avoid odour, pest and	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	<ul> <li>Excavation of the Contaminated Soil</li> <li>Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth-moving plant.</li> <li>The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.</li> <li>The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.</li> </ul>	The contaminated soil will be excavated for on-site reuse	Contractor	РВН4	Prior to commencement of construction works within the contaminated area	<ul> <li>Practice Guide (PG) for Investigation and Remediation of Contaminated Land</li> <li>Guidance Notes for Contaminated Land Assessment and Remediation</li> <li>Guidance Manual for Use of Risk-Based</li> </ul>	• N/A
S8.9 & Appendix 8.4	LC3	• Following completion of the excavation to the specified depth, at least one sample from the base of the excavation and four samples evenly distributed along the boundary of the excavation shall be taken for a closure assessment testing. The acceptance criterion is shown below:					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

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EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S9.18	H8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
\$9.18	H9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	-	• N/A
			Land	dscape & Visual				
S10.10.1 Table 10.11	LV3	<ul> <li><u>Good Site Management</u></li> <li>Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.</li> <li>Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV4	<ul> <li><u>Screen Hoarding</u></li> <li>Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented

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EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV5	<ul> <li>Lighting Control during Construction</li> <li>All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.</li> </ul>	Minimize visual impact	Contractor	Within Project site	Construction stage	-	Implemented
S10.10.1 Table 10.11	LV6	<ul> <li>Erosion Control</li> <li>The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.</li> </ul>	Minimize landscape impact	Contractor	Within Project site	Construction stage	-	Implemented
\$10.10.1 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.	Minimize landscape and visual impact	Contractor	Within Project site	Construction stage	<ul> <li>'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</li> <li>Latest recommended horticultural practices from</li> </ul>	• Implemented

EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
							GLTM Section, DEVB	
\$10.10.1 Table 10.11	LV8	<ul> <li>Tree Transplantation</li> <li>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.</li> </ul>	Minimize landscape and visual impact	Contractor	Within Project site and designated off-site locations	Prior to Construction stage	<ul> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>ETWB TCW 2/2004</li> </ul>	• 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	<ul> <li>ETWB TCW 3/2006</li> <li>Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> </ul>	• N/A

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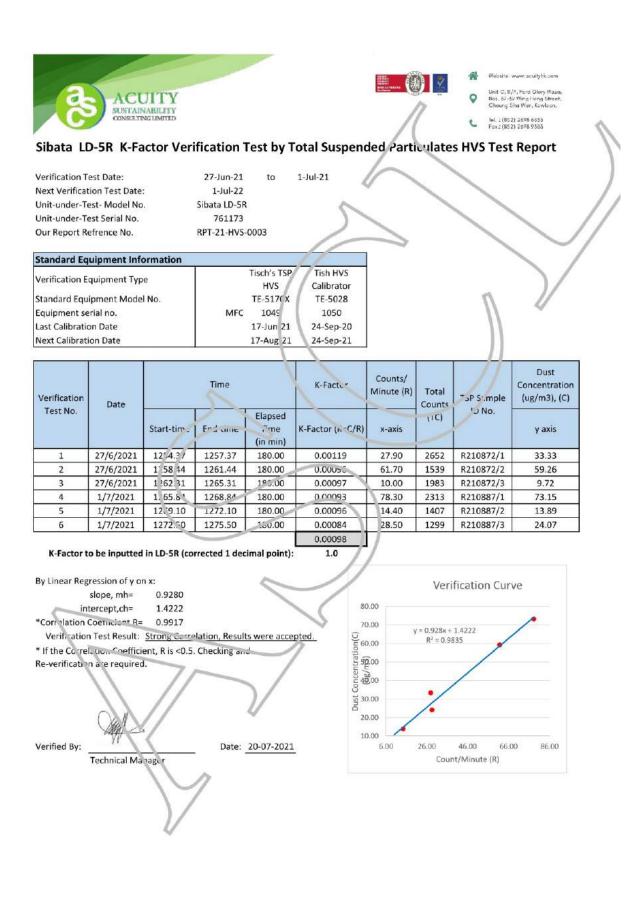
EIA Ref.	EM&A Log Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concerns to address	Implementation Agent	Location / Timing	Implementation Stage	Requirements and/ or standards to be achieved	Implementation Status
		<ul> <li>Application process under ETWBTC 3/2006.</li> <li>Compensatory tree planting may be incorporated into public open spaces and along roadside amenity areas affected by the construction works and therefore be part of the bigger wider planting plans. Onsite compensation planting is preferred but if necessary, additional receptor sites outside the Works Area shall be agreed separately with Government during the Tree Felling Application process.</li> </ul>					• ETWB TCW 2/2004	
\$10.10.1 Table 10.11	LV10	<ul> <li><u>Screen Planting</u></li> <li>Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.</li> </ul>	Minimize visual impact and also enhance landscape.	Contractor	Within Project Site	Construction Phase	<ul> <li>Guidelines on Greening of Noise Barriers, issued April 2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	• N/A
S10.10.1 Table 10.11	LV12	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 (Construct	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				
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented
S13.2-13.4	EM2	<ul> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual;</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;</li> <li>An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ul>	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note No. 4/2010</li> <li>TM-EIAO</li> </ul>	Implemented

# Appendix G Monitoring Schedule of the Reporting Month

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

# Appendix H Calibration Certificates (Air Monitoring)



								ALIBRATIO
								ust 3, 2022
	onm		2					
	r/	rtifi	alibration C	/			ation	
Cal. Date:	August 3, 2	021	Rootsn	neter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					Pa:	750.57	mm Hg
Calibration		TE-5028A	Calib	rator S/N:	3702	15.77.0		
canoración	moderm	11-3020A	Cano	acor syre.	3702			]
		Vol. Init	Vol. Final	AVol.	∆Time	ΔP	ΔH	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.3170	4.1	1.50	
	2	3	4	1	1.0350	6.7	2.50	
	3	5	6	1	0.9420	8.0	3.00	-
	4	7	8	1	0.8650	9.3	3.50	4
	5	9	10	1	0.6540	16.2	5.00	1
			D	ata Tabula	tion			]
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)(Tstd)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(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		0.0	m=	1.03041	
	QSTD	b= r=	-0.003		QA	b= r=	-0.00231 0.99975	•
			01077				0.0007.0	1
			Ten - 14 June - 1 June	Calculation			al factoria	
			/Pstd)(Tstd/Ta	)		ΔVol((Pa-Δf	-)/Pa)	
	Usta=	Vstd/∆Time				Va/∆Time		-
			For subseque	ent flow rat	te calculation	15:		-
	Qstd=	1/m (( \\ \ \ \ \ \ H (	Pa Pstd (Tstd Ta	)-ь)	Qa=	1/m((√∆H	I(Та/Ра))-b)	
		Conditions						
Tstd:		57		[		RECA	LIBRATION	
Pstd:		mm Hg			US EPA reco	mmends as	nual recalibratio	on ner 1998
AH: calibrate		ey er reading (ir	1 H2O)				Regulations Part	
		er reading (					Reference Meth	
	osolute temp	perature (°K)						
					Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30.			
Pa: actual bi	arometric pr	essure (mm	Hg)		the	Atmosphe	re 9,2 17 page	30 1

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# 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-May-2022
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

#### **Ambient Condition**

Corrected Pressure (mm Hg):	760.8	Temperature (deg K):	297.8
-----------------------------	-------	----------------------	-------

#### **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	1.48	0.743	29.6	29.67	
2	1.90	0.840	32.2	32.23	
3	2.36	0.936	34.8	34.85	
4	2.93	1.044	37.8	37.87	
5	3.54	1.147	40.3	40.31	

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

m=	26.5517	b=	9.9712	Corr. Coeff=	0.9996
Samp	Sampler set point(SSP)		CFM		
Qstd = 1/m[Sqrt(F IC = I[Sqrt(Pa/Pst Qstd = standard fl IC = corrected cha I = actual chart res m = calibrator Qs b = calibrator Qst Ta = actual temper	[2O(Pa/Pstd)(Tstd/Ta))-b] d)(Tstd/Ta)] bw rate rt response ponse td slope	42	Calculations m = sampler slope b = sampler intercept I = chart response Tav = average temperature Pav = average pressure		
	t culation of sampler flow: 298/Tav)(Pav/760)] 菱電時		Date:	4-Ma	y-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:	16-May-2022
Serial No:	1049	Model:	TE-5170X	Operator:	Kate Wong

#### **Ambient Condition**

Corrected Pressure (mm Hg):	759.4	Temperature (deg K):	293.2
-----------------------------	-------	----------------------	-------

#### **Calibration Orifice**

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

#### **Calibration Data**

Plate or	In,H2O	Qa, X-Axis	I, CFM	IC, Y-Axis
Test #	(in)	(m3/min)	(chart)	(corrected)
1	1.37	0.718	28.4	28.60
2	1.65	0.789	29.9	30.16
3	1.93	0.853	31.4	31.69
4	2.33	0.937	33.7	33.91
5	2.71	1.011	35.6	35.86

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

m=	24.8798	b=	10.6054	Corr. Coeff=	0.9992
Sampl	er set point(SSP)	40	CFM		
Qstd = 1/m[Sqrt(H IC = I[Sqrt(Pa/Psto	2O(Pa/Pstd)(Tstd/Ta))-b] l)(Tstd/Ta)]	(	Calculations m = sampler slope b = sampler intercept		
Pa = actual pressur Tstd = 298 deg K Pstd = 760 mm Hg	rt response ponse d slope d intercept ature during calibration (deg K) e during calibration (mm Hg)		I = chart response Tav = average temperature Pav = average pressure		
	298/Tav)(Pav/760)] 養電塔		Date:	16-M;	ay-22

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



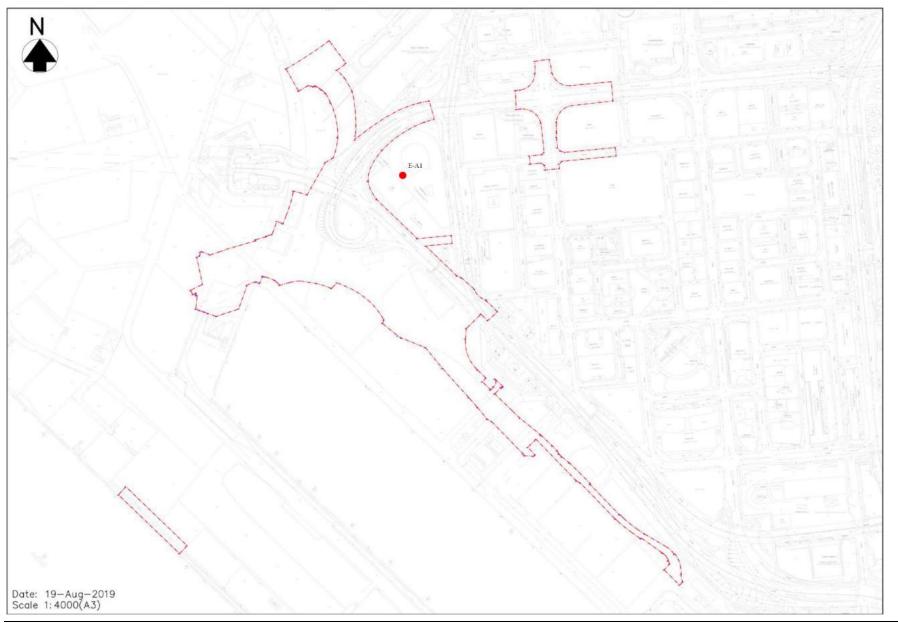
Date of First Registration: 16 July 2014 首次註冊日期:二零一四年七月十六日

This certificate is issued subject to the terms and conditions laid down by HKAS 本證書說回香港認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



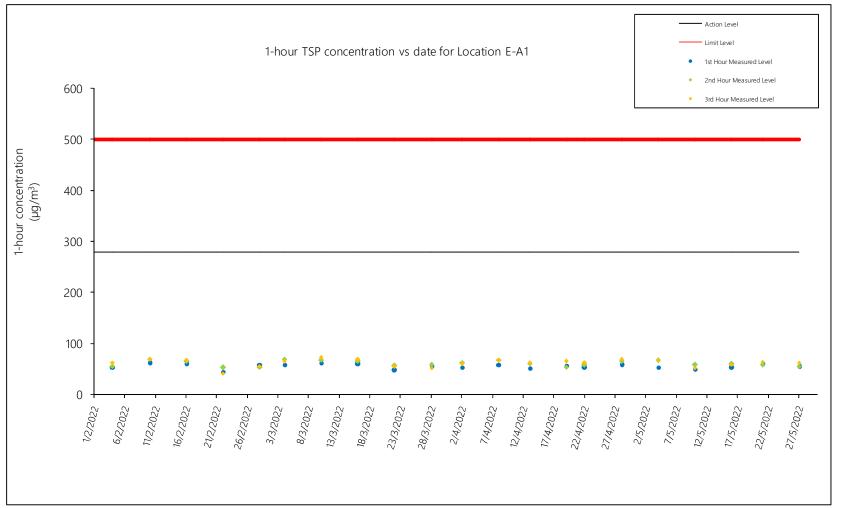
Acuity Sustainability Consulting Limited

# Appendix K Monitoring Data (Air Monitoring)

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 21 and 27 May 2022
Parameter:	TSP 1-hour
Other Factors:	Nearby traffic

	1-hour TSP (μg/m <sup>3</sup> )									
Date	Weather	Start Time	1 <sup>st</sup> Hour (μg/m <sup>3</sup> )	2 <sup>nd</sup> Hour (μg/m <sup>3</sup> )	3 <sup>rd</sup> Hour (μg/m <sup>3</sup> )					
04/05/2022	Sunny	9:20	53	66	67					
10/05/2022	Fine	9:24	49	57	51					
16/05/2022	Fine	9:14	52	59	58					
21/05/2022	Fine	9:19	60	57	63					
27/05/2022	Fine	9:25	54	55	62					

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



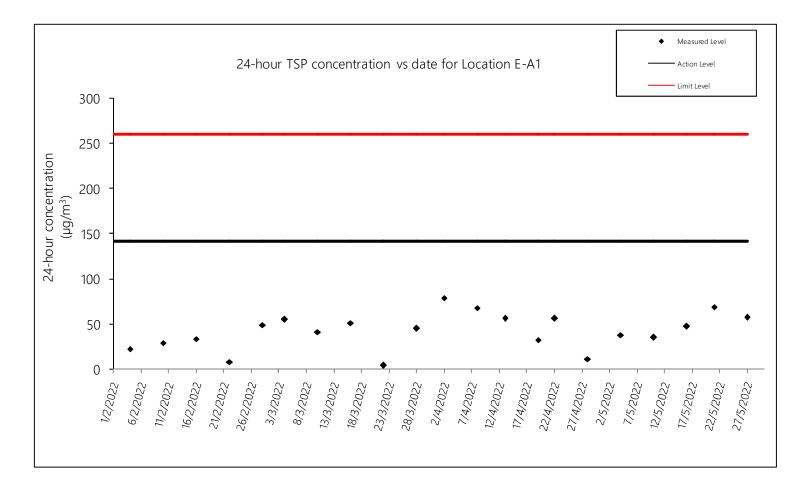
### Figure 1: Graphical Illustration of Measured 1-hour TSP (µg/m<sup>3</sup>) Levels at E-A1

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

Location:	Hong Kong International Trade and Exhibition Centre (E-A1)
Monitoring date:	4, 10, 16, 21 and 27 May 2022
Parameter:	TSP 24-hour
Other Factors:	Nearby traffic

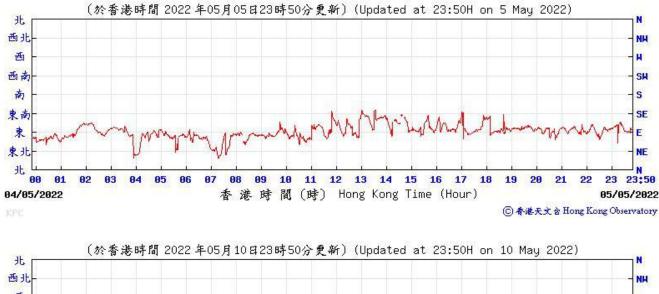
										Calibrati Date of	Calibration: on due date: Calibration: on due date:	20-May-22 16-May-22		Slope = Intercept = Slope = Intercept =	9.9712 24.8798	
Start Date	Weather		Elapse Time		С	hart Readin	g	Avg Air Temp	Avg Atmospheric Pressure		Standard Air Volume	Filter Weight		Particulate weight	Conc.	
		Condition	Initial	Final	Actual (min)	Min	Max	Avg	(°C)	(mm hPa)	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	(g)	(µg/m <sup>3</sup> )
04/05/2022	Sunny	3766.68	3790.68	1440.00	40	42	41.0	24.6	1014.3	1.17	1685	2.7652	2.8295	0.0643	38	
10/05/2022	Fine	3790.68	3814.68	1440.00	39	41	40.0	25.7	1009.7	1.12	1617	2.7519	2.8079	0.0560	35	
16/05/2022	Fine	3814.68	3838.68	1440.00	40	41	40.5	20.0	1012.4	1.16	1671	2.7324	2.8113	0.0789	47	
21/05/2022	Fine	3838.68	3862.68	1440.00	40	42	41.0	26.9	1007.8	1.21	1737	2.7362	2.8569	0.1207	69	
27/05/2022	Fine	3862.68	3886.68	1440.00	39	42	40.5	27.4	1004.3	1.18	1699	2.7165	2.8126	0.0961	57	
	-84	511 I I I	A			80 A				124			5	min	35	
														max	69	

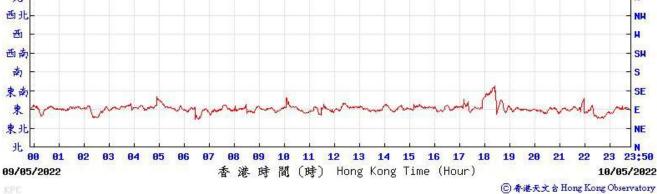
### Figure 2: Graphical Illustration of Measured 24-hour TSP ( $\mu$ g/m<sup>3</sup>) Levels at E-A1

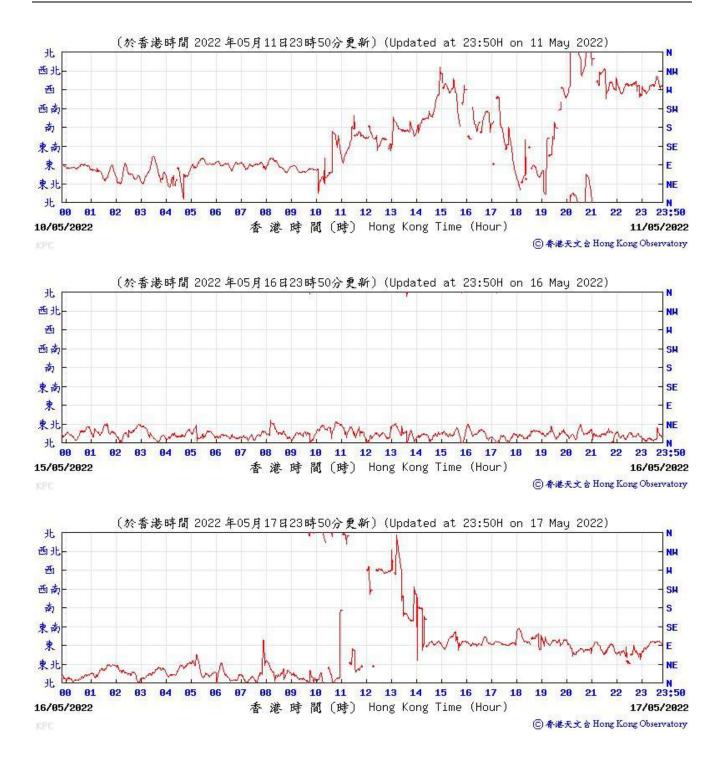


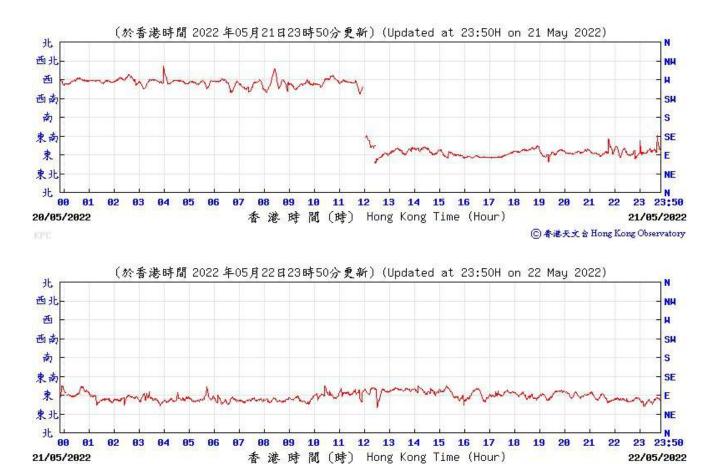


#### WIND DIRECTION DATA FOR 4,5,10,11,16,17,21,22,27,28 May 2022







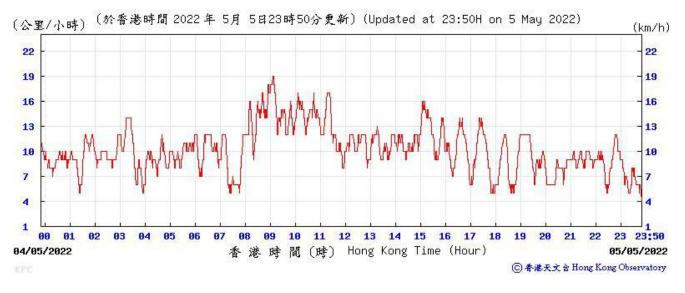




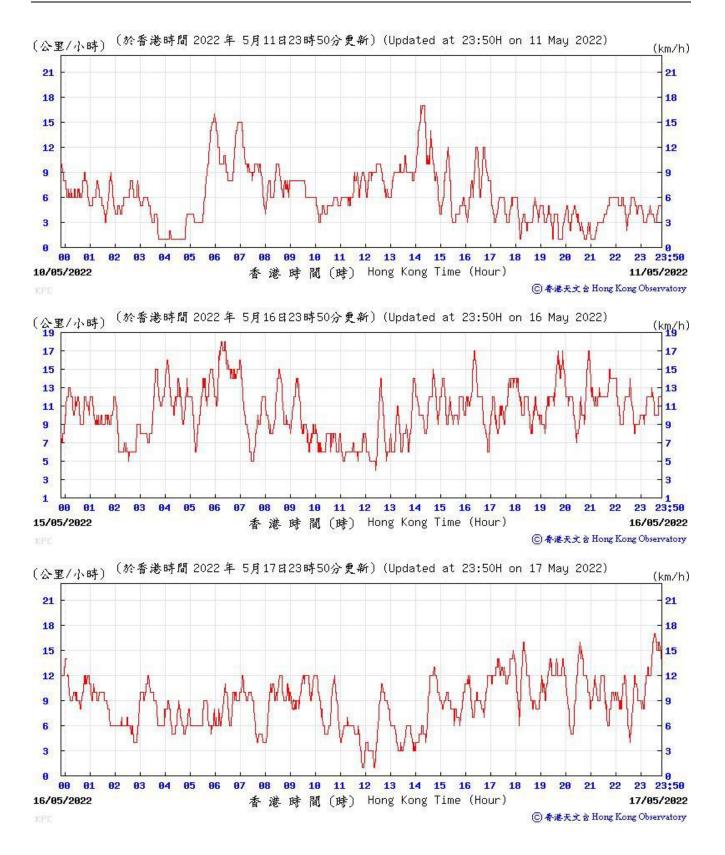


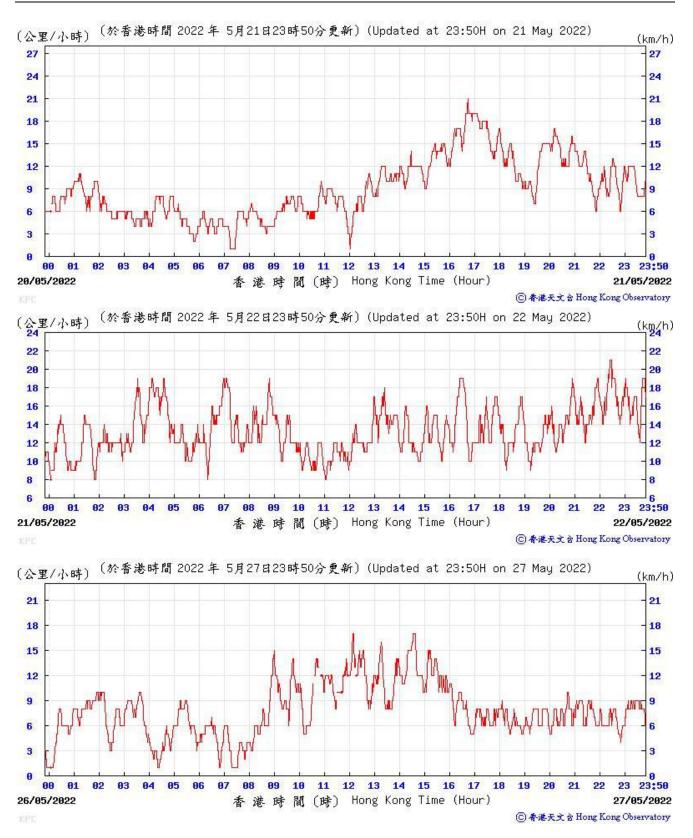


#### WIND SPEED DATA FOR FOR 4,5,10,11,16,17,21,22,27,28 May 2022











# Appendix L Waste Flow Table

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

Name of Department: Highways Department

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

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

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

		Actual Quantities of Inert Construction Waste Generated Monthly						
Month	$ \begin{array}{c} (a) = (b) + (c) + (d) + (e) + (f) + (g) + (h) + (i) + \\ (j) + (k) \\ Total Quantity Generated \\ \end{array} $	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill		
	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)		
Jan-22	1,776.24	0	0	0	1,687.11	0		
Feb-22	800.73	0	0	0	715.04	0		
Mar-22	489.40	0	0	0	453.64	0		
Apr-22	995.29	0	0	0	898.73	0		
May-22	1,683.72	0	0	0	1449.54	0		
Jun-22	-	-	-	-	-	-		
Jul-22	-	-	-	-	-	-		
Aug-22	-	-	-	-	-	-		
Sep-22	-	-	-	-	-	-		
Oct-22	-	-	-	-	-	-		
Nov-22	-	-	-	-	-	-		
Dec-22	-	-	-	-	-	-		
Total	5,745.38	0	0	0	5,204.06	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	256,374.46	340.00	380.00	75,311.99	175,419.74	1,109.00		

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 fax +852 2698 9383 | e-mail admin@acuityhk.com

 Nos. 37-39 Wing Hong Street, Kowloon, Hong Kong
 http://www.acuityhk.com

	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly										
Month	(g) Metals		(h) Paper/ cardboard packaging			(i) Plastics		(j) al 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	0	0	0.10	0.10	0	0	0	0	35.66		
Apr-22	0	0	0.05	0.05	0	0	0	0	96.51		
May-22	141.03	141.03	0.05	0.05	0	0	0	0	93.10		
Jun-22	-	-	-	-	-	-	-	-	-		
Jul-22	-	-	-	-	-	-	-	-	-		
Aug-22	-	-	-	-	-	-	-	-	-		
Sep-22	-	-	-	-	-	-	-	-	-		
Oct-22	-	-	-	-	-	-	-	-	-		
Nov-22	-	-	-	-	-	-	-	-	-		
Dec-22	-	-	-	-	-	-	-	-	-		
Total	141.03	141.03	0.51	0.51	0	0	0	0	399.78		
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	1,399.74	1,399.74	2.37	2.37	-	-	-	-	2,411.63		

# 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			
<b>Reporting Period</b>	Frequency	Cumulative	<b>Complaint Nature</b>	
1 May 2022– 31 May 2022	0	2	N/A	

#### Statistical Summary of Environmental Non-compliance

Donoutin a Douio d	Environmental Non-compliance Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 May 2022– 31 May 2022	0	0	N/A	

#### Statistical Summary of Environmental Summons

Departing David	Environmental Summons Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 May 2022– 31 May 2022	0	0	N/A	

#### Statistical Summary of Environmental Prosecution

Donouting Dowied	Environmental Prosecution Statistics			
Reporting Period	Frequency	Cumulative	Details	
1 May 2022– 31 May 2022	0	0	N/A	

# Appendix N Monitoring Schedule of the Coming Month

June	2022					
<u>Sun</u> 29	<u>Mon</u> 30	<b>Tue</b> 31	<u>Wed</u> _1	Thu 2 Impact Dust monitoring	Fri 3	<u>Sat</u> 4
5	6	7	<b>8</b> Impact Dust monitoring (E-A1)	(E-A1) - <mark>9</mark>	10	11
12	13	<b>14</b> Impact Dust monitoring (E-A1)	15	16	17	18
19	<b>20</b> Impact Dust monitoring (E-A1)	21	22	23	24	<b>25</b> Impact Dust monitoring (E-A1)
26	27	28	29	<b>30</b> Impact Dust monitoring (E-A1)	1	2
				·	-1	

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

#### **Gammon Construction Limited**

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

Monthly EM&A Report No. 20 (May 2022)

Version 1 Date of Report: 10 June 2022

Certified By

BC'.

(Environmental Team Leader:

Ms. Betty Choi)

REMARKS:

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

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

#### CINOTECH CONSULTANTS LTD

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





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

## **Central Kowloon Route**

# **Independent Environmental Checker Verification**

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

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

Document/Plan to be Certified/ Verified:	Monthly EM&A Report No.20
Date of Report:	10 June 2022 (Version 1)
Date received by IEC:	10 June 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 <del>document</del>/plan complies with the above referenced condition of EP-457/2013/D.

Mandy 20.

Ms Mandy To Independent Environmental Checker Date:

10 June 2022

Our ref: 0436942\_IEC Verification Cert\_BEM\_Monthly EM&A Rpt No.20\_20220610.docx

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#### **EXECUTIVE SUMMARY**

#### Introduction

- This is the 20<sup>th</sup> Monthly Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. HY/2019/13 "Central Kowloon Route – Buildings, Electrical and Mechanical Works". This report summarized the monitoring results and audit findings of the EM&A programme under the issued EP No. EP-457/2013/D, and in accordance with the EM&A programme in Kai Tak East Area during the reporting period from 1<sup>st</sup> May 2022 – 31<sup>st</sup> May 2022.
- 2. The major site activities undertaken in Kai Tak East Area in the reporting month included:
  - Piling works (pipe piles and sheet piles);
  - Excavation & sub-structure works.

#### **Environmental Monitoring Works**

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 3, 10, 17, 24 & 31 May 2022, whereas joint site inspection with the representative of IEC was conducted on 17 May 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 (May 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**.

	Even	t Details	Follow-up/ Remedial	Status/ Remarks			
Event	Number	Brief Description	Actions				
Complaints Received	0	_	-	-			
Notification of Summons and Prosecutions Received	0	-	-	-			

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

#### **Reporting Changes**

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

#### **Future Key Issues**

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

#### 1 INTRODUCTION

#### Background

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

#### **Purpose of the Report**

1.5 This is the 20<sup>th</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in Kai Tak East Area during the reporting period from 1<sup>st</sup> May 2022 – 31<sup>st</sup> May 2022. The Kai Tak East Area site layout plan for the Project is shown in **Figure 1.1**.

#### **Project Organizations**

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

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

Table 1.1	Key Project Contacts	

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

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);
  - Excavation & sub-structure works.

#### **Summary of EM&A Requirements**

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

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

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

#### Table 1.2 Summary of Environmental Licensing and Permit Status

Permit / License No.	Valid P	Status							
Fermit / License No.	From	То	Status						
<b>Environmental Permit (EP)</b>									
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						
<b>Billing Account for Construction</b>	Waste Disposal								
7037679	26 Jun 2020	N/A	Valid						
<b>Registration of Chemical Waste F</b>	roducer – Kai Tak								
5211-286-G2347-54	13 Jul 2020	N/A	Valid						
Wastewater Discharge Licence - I	Kai Tak								
WT00037178-2020	18 Dec 2020	31 Dec 2025	Valid						
Construction Noise Permit - Kai	Fak Site (General Wo	orks [grouting, pili	ng])						
GW-RE0248-22	24 Mar 2022	23 Sep 2022	Superseded by GW-RE0534-22						
GW-RE0534-22	31 May 2022	29 Sep 2022	Valid						

#### 2 AIR QUALITY

#### **Monitoring Requirements**

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

#### Observations

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

#### 3 NOISE

#### **Monitoring Requirements**

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

#### Observations

3.2 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 <sup>3</sup> )	Metals (in '000kg)	Plastics (in '000kg)	Chemical waste (in '000kg)								
May 2022	2.416	1.613	0.037	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 10 & 24 May 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 3, 10, 17, 24 & 31 May 2022 in the reporting month. Joint site inspection with the representative of IEC was conducted on 17 May 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	3 May 2022	Stagnant water on the drip tray for air compressor should be cleared at Kai Tak Ventilation Building Site.	Stagnant water on the drip tray for air compressor had been cleared at Kai Tak Ventilation Building Site.		
Air Quality Noise Waste / Chemical Management Land Contamination	N/A	No environmental deficiency was identified in the reporting period.	N/A		
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A		
	10 May 2022	Chemical oil should be stored at drip tray at Kai Tak Ventilation Building Site.	Chemical oil had been cleared at Kai Tak Ventilation Building Site.		
	31 May 2022	Oil leakage should be avoided from the crane at Kai Tak Ventilation Building Site.	Oil leakage from the crane had been cleared at Kai Tak Ventilation Building Site.		
Land Contamination	N/A	No environmental deficiency was identified in the reporting period.	N/A		
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A		
Permits /Licences	N/A	No environmental deficiency was identified in the reporting period.	N/A		

 Table 6.1
 Observations and Recommendations of Site Inspections

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

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

Air Quality Monitoring

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

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 (April 2022)	13 May 2022			

#### 7 FUTURE KEY ISSUES

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

#### 8 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

8.1 This is the 20<sup>th</sup> Monthly EM&A Report which presents the EM&A works undertaken in Kai Tak East Area during the reporting month from 1<sup>st</sup> May 2022 – 31<sup>st</sup> May 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.

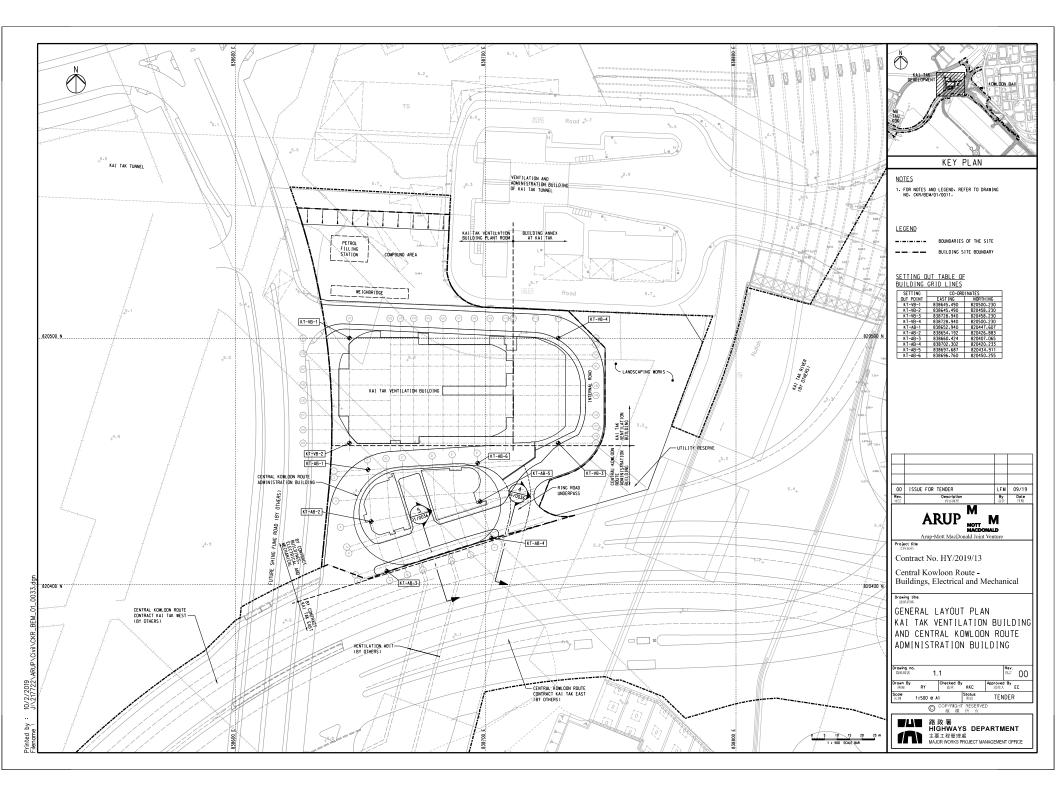
#### Site Audit

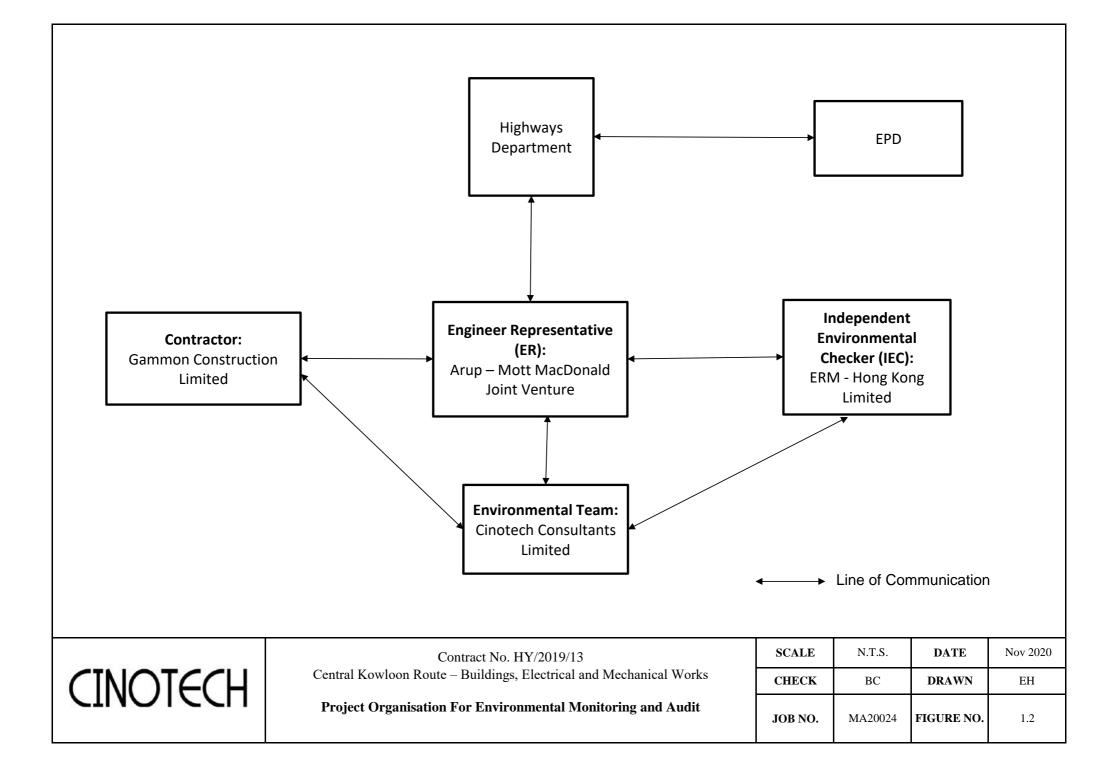
8.4 5 ET joint weekly environmental site inspections were conducted in the reporting month. Joint weekly site inspections with the representative of ET, Engineer Representative and the Contractor were conducted on 3, 10, 17, 24 & 31 May 2022, whereas joint site inspection with the representative of IEC was conducted on 17 May 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



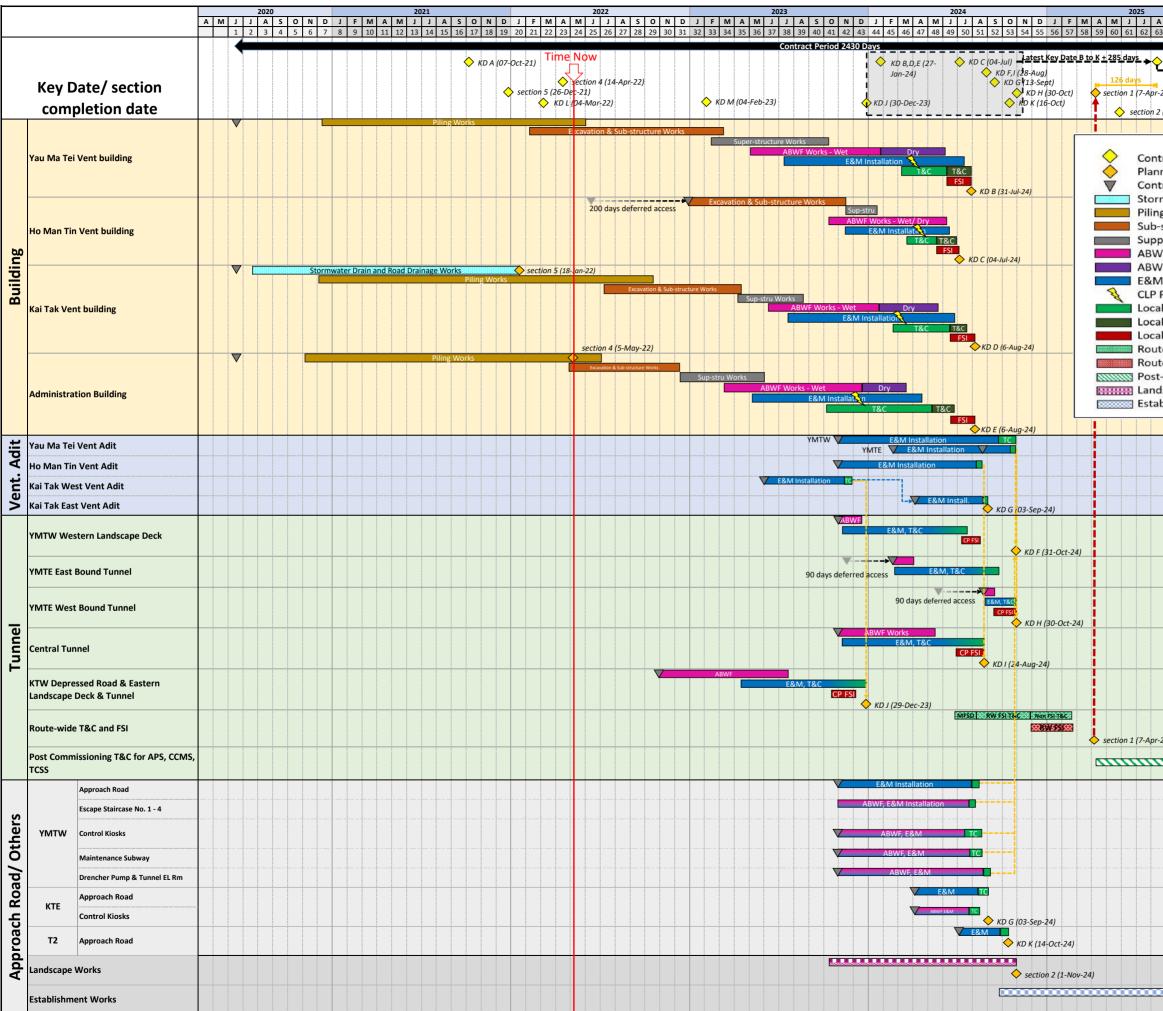


APPENDIX A CONSTRUCTION PROGRAMME



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

**Summary Programme** 





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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

<u>Kai Tak Site Area</u>

				monthly ou	innary was		<u>===</u>	=() • • • · )				
		Actual Quanti	ites of Inert C&D	Materials Genera	ted Monthly			Actual	Quantites of C&	D Waste Generat	ed Monthly	
	Total Quantity	Hard Rock and	Reused in the	Reused in	Disposed as	Imported Fill	Metals	Paper /	Plastics	Chemical	Marine	Others, e.g.
	Generated	Large Broken	Contract	other Projects	Public Fill	(see Note 5)		cardboard	(see Note 3)	Waste	Sediment	general refuse
		Concrete	(see Note 5)	(see Note 5)	(see Note 5)			packaging		(see Note 5)	(see Note 7)	(see Note 5)
		(see Note 5)										
Month	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000m3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m3)	(in '000m3)
Jan	1.451	0.000	0.000	0.000	1.451	0.000	0.000	0.000	0.000	0.000	0.000	0.017
Feb	1.121	0.000	0.000	0.000	1.121	0.000	0.000	0.000	0.000	0.000	0.000	0.029
Mar	1.462	0.000	0.000	0.000	1.462	0.000	0.000	0.000	0.000	0.000	0.000	0.033
Apr	2.606	0.000	0.000	0.000	2.606	0.000	0.000	0.000	0.000	0.000	0.000	0.042
May	2.416	0.000	0.000	0.803	1.613	0.000	0.000	0.000	0.000	0.000	0.000	0.037
Jun												
Sub-Total	9.057	0.000	0.000	0.803	8.254	0.000	0.000	0.000	0.000	0.000	0.000	0.157
Jul												
Aug												
Sep												
Oct												
Nov												
Dec												
Total (2022)	9.057	0.000	0.000	0.803	8.254	0.000	0.000	0.000	0.000	0.000	0.000	0.157
Total (whole)	28.265	0.000	0.000	0.803	27.462	0.000	0.000	0.000	0.000	1.080	0.000	0.426

#### Monthly Summary Waste Flow Table for 2022 (year)

Note:

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

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

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

(4)

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

Hard Rock and Large Broken Concrete:	2.4 T/m3 (in-situ)	Bulk Factor:	1.25
Soil / Fill:	2.0 T/m3 (in-situ)	Bulk Factor:	1.1
Marine Sediment:	1.7 T/m3 (in-situ)	Bulk Factor:	1.3
General Refuse:	400 kg/m3		
Chemical Waste (mainly used lubricant):	900 kg/m3		
Tree Trunk / Tree Stump:	850 kg/m3 (in-situ)	Bulk Factor:	1.1
(6) The reported and forecast volume figures are in "bulk" volume	, with Bulk Factor applied as per No	te (5)	

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

APPENDIX C ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Construction S4.3.10	n Dust Impact D1	The contractor shall follow the procedures and requirements given in the Air	Minimize dust	Contractor	A 11	Construction	- APCO	^
34.3.10		Pollution Control (Construction Dust) Regulation	impact at the nearby sensitive receivers	Contractor	All construction sites	stage	- To control the dust impact to meet HKAQO and TM-EIA criteria	
S4.3.10		Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road should be conducted to achieve dust removal efficiencies of 91.7%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.3 L/m2 to achieve the dust removal efficiency.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	- APCO - To control the dust impact to meet HKAQO and TM-EIA criteria	۸
\$4.3.10	D3	Proper watering at exposed spoil should be undertaken throughout the construction phase.	Minimize dust impact at the nearby sensitive receivers		All construction sites	Construction stage	- APCO - To control the dust	۸
		Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading.					impact to meet HKAQO and TM-EIA criteria	^
		Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads.						۸
		A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones.						۸
		The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle.						۸
		Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.						۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided and properly maintained as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.						Δ
		The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.						٨
		Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously.						٨
		Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet						٨
		Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding.						N/A
		Any skip hoist for material transport should be totally enclosed by impervious sheeting.						٨
		Every stock of more than 20 bags of cement or dry-pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides						٨
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed.						N/A
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabilizer within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.						N/A
\$4.3.10	D6		Monitoring of dust impact	Contractor	Selected rep. dust monitoring station	Construction stage	- TM-EIA	٨
Construction	n Noise (Airbor	ne)		•		•		
S5.4.1	N1	Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme.	Control construction airborne noise	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	٨
		Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum.						۸
		Plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs.						^
		Silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works.						٨
		Mobile plant should be sited as far away from NSRs as possible and practicable.						٨
		Material stockpiles, mobile container site office and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.	-					N/A
S5.4.1	N2	1 9 8	Reduce the construction noise levels at low-level zone of NSRs through partial screening	Contractor	All construction sites	Construction stage	- Annex 5, TM-EIAO	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
\$5.4.1	N3	Install movable noise barriers (typical design is wooden framed barrier with a small-cantilevered on a skid footing with 25mm thick internal sound absorptive lining), acoustic mat or full enclosure, screen the noisy plants including air compressors, generators and handheld breakers, etc.	Sreen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	N/A
S5.4.1	N4	Use 'Quiet plants'	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N5	Loading/ unloading activities should be carried out inside the full enclosure of mucking out points.	Reduce the noise levels of loading/ unloading activities	Contractor	Mucking out locations	Construction stage	- Annex 5, TM-EIAO	۸
S5.4.1	N6	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction stage	- Annex 5, TM-EIAO	^
\$5.4.1	N7	Implement a noise monitoring programme under EM&A programme.	Monitor the construction noise levels at the selected representative locations	Contractor	Selected rep. noise monitoring station	Construction stage	- TM-EIAO	N/A
Water Quali	ity (Construction					•		
S6.9.1.1	W1	<u>Construction Runoff</u> At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	To minimize water quality impact from the construction site runoff and general construction activities	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - ProPECC PN 1/94 - TM-EIAO - TM-DSS	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
		The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/ sediment trap. The sediment/ silt traps should be incorporated in the permanent drainage channels to enhance deposition rates.						۸
		The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/ sand traps should be 5 minutes under maximum flow conditions. Sizes may vary depending upon the flow rate, but for a flow rate of 0.1 m3/s a sedimentation basin of 30 m3 would be required and for a flow rate of 0.5 m3/s the basin would be 150 m3. The detailed design of the sand/ silt traps shall be undertaken by the contractor prior to the commencement of construction.						۸
		All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. Exposed slope surfaces should be covered by tarpaulin or other means.						N/A
		The overall slope of the site should be kept to a minimum to reduce the erosive potential of surface water flows, and all traffic areas and access roads protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during prolonged periods of inclement weather and the reduction of surface sheet flows.						N/A
		All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas.						*
		Measures should be taken to minimize the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.						٨

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

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby.						۸
		Adopt best management practices.						٨
		All earth works should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.						۸
\$6.9.1.2	W2	<u>Tunneling Works and Underground Works</u> Cut-&-cover tunneling work should be conducted sequentially to limit the amount of construction runoff generated from exposed areas during the wet season (April to September) as far as practicable.		Control Ordinance - ProPECC PN 1/94 - TM-EIAO	N/A			
		Uncontaminated discharge should pass through sedimentation tanks prior to off- site discharge.					- IM-DSS	N/A
		The wastewater with a high concentration of SS should be treated (e.g. by sedimentation tanks with sufficient retention time) before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.						N/A
		Direct discharge of the bentonite slurry (as a result of D-wall) is not allowed. It should be reconditioned and reused wherever practicable. Temporary storage locations (typically a properly closed warehouse) should be provided on site for any unused bentonite that needs to be transported away after all the related construction activities area completed. The requirements in ProPECC PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.						N/A
S6.9.1.3	W3	<u>Sewage Effluent</u> Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize water quality from sewage effluent	Contractor	All construction sites where practicable	Construction stage	- Water Pollution Control Ordinance - TM-DSS	٨

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$6.9.1.5	W4	Groundwater from Potential Contaminated Area: No direct discharge of groundwater from contaminated areas should be adopted. 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.	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	A A
		If wastewater treatment is deployed, the wastewater treatment unit shall deploy suitable treatment process (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (e.g. TPH) to undetectable range. All treated effluent from wastewater treatment plant shall meet the requirements as stated in TM-DSS and should be discharged into the foul sewers.						^
		If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS. The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor.						N/A

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\$6.9.1.6	W6	Accidental Spillage All the tanks, containers, storage area should be bunded and the locations should be locked as far as possible from the sensitive watercourse and stormwater drains.	To minimize water quality impact from accidental spillage	Contractor	All construction site where practicable	Construction stage	<ul> <li>Water Pollution</li> <li>Control Ordinance</li> <li>ProPECC PN 1/94</li> <li>TM-EIAO</li> <li>TM-DSS</li> </ul>	۸
		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.	the construction			- 1M-DSS	۸	
		Disposal of chemical wastes should be conducted in compliance with the requirements as stated in the Waste Disposal (Chemical Waste) (General) Regulation.						۸
Waste Mana	gement (Const	ruction Waste)						
S7.4.1	WM1	<u>On-site sorting of C&amp;D material</u> Geological assessment should be carried out by competent persons on site during excavation to identify materials which are not suitable to use as aggregate in structural concrete (e.g. volcanic rock, Aplite dyke rock, etc.). Volcanic rock and Aplite dyke rock should be separated at the source sites as far as practicable and stored at designated stockpile area preventing them from delivering to crushing facilities. The crushing plant operator should also be reminded to set up measures to prevent unsuitable rock from ending up at concrete batching plants and be turned into concrete for structural use. Details regarding control measures at source site and crushing facilities should be submitted by the Contractor for the Engineer to review and agree. In addition, site records should also be kept for the types of rock materials excavated and the traceability of delivery will be ensured with the implementation of Trip Ticket System and enforced by site supervisory staff as stipulated under DEVB TC(W) No. 6/2010 for tracking of the correct delivery to the rock crushing facilities for processing into aggregates. Alternative disposal option for the reuse of volcanic rock and Aplite Dyke rock, etc. should be explored.	turned into concrete for structural use	Contractor	All construction sites	Construction stage	• DEVB (W) No. 6/2010	Α

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM2	Construction and Demolition Material Maintain temporary stockpiles and reuse excavated fill material for backfilling and reinstatement.	Good site practice to minimize the waste generation and recycle the	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> </ul>	۸
		Carry out on-site sorting.	C&D materials as				· ETWB TCW No.	^
		Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate	far as practicable so as to reduce the amount for final disposal				19/2005	۸
		Adopt 'selective demolition' technique to demolish the existing structures and facilities with a view to recovering broken concrete effectively for recycling purpose, where possible.						N/A
		Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified.						۸
		Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction.						۸
S7.5.1		<u>C&amp;D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimize the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage.	Good site practice to minimize the waste generation and recycle the C&D materials as far as practicable so as to reduce the amount for final disposal	Contractor	All construction sites	Construction stage	<ul> <li>Land (Miscellaneous Provisions) Ordinance</li> <li>Waste Disposal Ordinance</li> <li>ETWB TCW No. 19/2005</li> </ul>	^
		The Contractor should recycle as much of the C&D materials as possible on- site. Public fill and C&D waste should be segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal. Where practicable, concrete and masonry can be crushed and used as fill. Steel reinforcement bar can be used by scrap steel mills. Different areas of the sites should be considered for such segregation and storage.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
\$7.5.1	WM4	Excavated Contaminated Soils Details of the mitigation measures on handling of the contaminated soil shall be referred to Section on Land Contamination below.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	t of	Practice Guide (PG) for Investigation and Remediation of Contaminated Land · GN/GM for land contamination	^
\$7.5.1	WM5	Land-based and Marine-based Sediment All construction plant and equipment shall be designed and maintained to minimize the risk of silt, sediments, contaminants or other pollutants being released into the water column or deposited in the locations other than designated location.	To control pollution due to marine sediment	Contractor	Along CKR alignment	Construction stage	• ETWB TCW No. 34/2002	^
		All vessels shall be sized such that adequate draft is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash.	-					N/A
		Before moving the vessels which are used for transporting dredged material, excess material shall be cleaned from the decks and exposed fittings of vessels and the excess materials shall never be dumped into the sea except at the approved locations.						N/A
		Adequate freeboard shall be maintained on barges to ensure that decks are not washed by wave action.						N/A
		The Contractors shall monitor all vessels transporting material to ensure that no dumping outside the approved location takes place. The Contractor shall keep and produce logs and other records to demonstrate compliance and that journeys are consistent with designated locations and copies of such records shall be submitted to the engineers.						N/A
		The Contractors shall comply with the conditions in the dumping licence.	-					۸
		All bottom dumping vessels (Hopper barges) shall be fitted with tight fittings seals to their bottom openings to prevent leakage of material.						N/A
		The material shall be placed into the disposal pit by bottom dumping.						N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
		Contaminated marine mud shall be transported by spit barge of not less than 750m3 capacity and capable of rapid opening and discharge at the disposal site.						N/A
		Discharge shall be undertaken rapidly and the hoppers shall be closed immediately. Material adhering to the sides of the hopper shall not be washed out of the hopper and the hopper shall remain closed until the barge returns to the disposal site.						N/A
		For Type 3 special disposal treatment, sealing of contaminant with geosynthetic containment before dropping designated mud pit would be a possible arrangement. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping at the disposal site, thereby fulfilling the requirements for fully confined mud disposal.						N/A
S7.5.1	WM6	<u>Chemical Waste</u> Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	n Construction stage	<ul> <li>Waste Disposal (Chemical Waste)</li> <li>(General) Regulation</li> <li>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</li> </ul>	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.						*
		The storage area for chemical wastes should be clearly labelled and used solely for the storage of chemical waste, enclosed on at least 3 sides, have an impermeable floor and bunding of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste stored in that area, whichever is the greatest, have adequate ventilation, covered to prevent rainfall entering, and arranged so that incompatible materials are adequately separated.						^

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status			
		Disposal of chemical waste should be via a licensed waste collector, be to a facility licensed to receive chemical waste, such as the Chemical Waste Treatment Centre which also offers a chemical waste collection service and can supply the necessary storage containers, or be to a reuser of the waste, under approval from EPD.						*			
S7.5.1	WM7	General refuse generated on-site should be stored in enclosed bins or	Minimize production of the general refuse and avoid odour, pest	Contractor	All construction sites	Construction stage	<ul> <li>Waste Disposal</li> <li>Ordinance</li> </ul>	۸			
		A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.					۸				
	collectors if they are segregated and made	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.	e								^
		Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be considered by the Contractor.								۸	
Land Contai		F									
S8.9 & Appendix 8.4	LC2	Excavation of the Contaminated Soil Prior to commencement of the excavation works at the contamination zone, the zone should be clearly marked out on site and the surface levels recorded. Excavation of contaminated material should be undertaken using dedicated earth- moving plant.	The contaminated soil will be excavated for on- site reuse	Contractor	PBH4	commencemen t of construction works within the contaminated area	Remediation of Contaminated Land - Guidance Notes for Contaminated Land	N/A			
		The excavated contaminated soils would be stockpiled at designated area on site and covered by sheet to prevent dispersion of contamination during stockpiling.						N/A			
		The Contractor should pay attention to the selection of suitable groundwater lowering schemes and discharge points if the groundwater table is higher than the contaminated soils during excavation. The Contractor should also obtain a valid Water Pollution Control Ordinance (WPCO) discharge licence from EPD where applicable.					Use of Risk-Based Remediation Goals (RBRGs) for Contaminated Land Management	N/A			

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
Hazard to L			<b></b>					
S9.18	Н8	The driver and his assistant should be physically healthy, experienced and have good safe driving records. The driver should hold a proper driving licence for the approved transport truck. Dedicated training programme and regular road safety briefing sessions/ workshops should be provided to enhance their safe driving attitude and practice. Smoking should be strictly prohibited.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	^
\$9.18	Н9	Emergency response plans in case of road accident should be prepared and implemented. The driver and his assistant should be familiar with the emergency procedures including evacuation, and proper communication/ fire-fighting equipment should be provided to the driver and his assistant.	To reduce the risk during explosives transport	Contractor	Works areas at which explosives would be used	Construction stage	/	۸
Landscape a	nd Visual							
S10.10.1 Table 10.11	LV3	<u>Good Site Management</u> Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
		Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	1					۸
S10.10.1 Table 10.11	LV4	Screen Hoarding Decorative screen hoarding should be erected to screen the public from the construction area. It should be designed to be compatible with the existing urban context.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV5	<u>Lighting Control during Construction</u> All lighting in the construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residencies and GIC. The Contractor shall consider other security measures, which shall minimize the visual impacts.	Minimize visual impact	Contractor	Within Project site	Construction Phase	/	۸
S10.10.1 Table 10.11	LV6	<u>Erosion Control</u> The potential for soil erosion shall be reduced by minimizing the extent of vegetation disturbance on site and by providing a protective cover over newly exposed soil.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	۸

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV7	<u>Tree Protection &amp; Preservation</u> Carefully protected during construction. Tree protection measures will be detailed at the Tree Removal Application stage and plans submitted to the relevant Government Department for approval in due course in accordance with ETWB TC no. 3/2006.	1	Contractor	Within Project site		<ul> <li>'Guidelines for Tree Risk Management and Assessment</li> <li>Arrangement on an Area Basis and on a Tree Basis', Greening, Landscape and Tree Management (GLTM) Section, DEVB</li> <li>Latest recommended horticultural practices from GLTM Section, DEVB</li> </ul>	N/A
S10.10.1 Table 10.11	LV8	<u>Tree Transplantation</u> For trees unavoidably affected by the Project that have to be removed, where practical transplantation will be chosen as the top priority method of removal. If this is not possible or practical compensatory planting will be provided for trees unavoidably felled (See LV10). For trees unavoidably affected by the Project works that are transplanted, transplantation must be carried out in accordance with ETWB TCW 2/2004 and 3/2006.	visual impact	Contractor	Within Project site and designated off- site locations		ETWB TCW 3/2006     Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB     ETWB TCW 2/2004	N/A
S10.10.1 Table 10.11	LV9	<u>Compensatory Planting</u> For trees unavoidably affected by the Project that have to be removed, where practical transportation will be chosen as the top priority method of removal but if this is not possible or practical compensatory planting will be provided for trees unavoidably felled. All felled trees shall be compensated for by planting trees to the satisfaction of relevant Government projects. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under ETWBTC 3/2006.	enhance landscape	Contractor	Within Project site	Construction Phase	ETWB TCW 3/2006     Latest recommended horticultural practices from Greening, Landscape and Tree Management (GLTM) Section, DEVB     ETWB TCW 2/2004	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati on Agent	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
S10.10.1 Table 10.11	LV10	<u>Screen Planting</u> Tall screen/buffer trees, shrubs and climbers should be planted, in so far as is possible, to soften and screen proposed structures such as roads and central strip, vertical edges and buildings and to enhance streetscape greening effect where appropriate. Indiscriminate use of trees for screening must be avoided and the principle of 'right tree for the right place' must be followed. This detail will be provided at the Detailed Design stage. This measure may additionally form part of the compensatory planting and will improve and create a pleasant pedestrian environment.	Minimize visual impact and also enhance landscape	Contractor	Within Project site	Construction Phase	<ul> <li>Guidelines on</li> <li>Greening of Noise</li> <li>Barriers, issued April</li> <li>2012, GLTMS, DevB</li> <li>ETWB TCW 2/2004</li> </ul>	N/A
S10.10.1 Table 10.11	LV11	<u>Green Roof</u> Roof greening will be established on ventilation and administration buildings to reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels.	Minimize landscape and visual impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV12	<u>Reinstatement</u> All works areas, excavated areas and disturbed areas for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments. (Specific mitigation for disturbance to public open space is detailed separately under LV14)	Minimize landscape impact	Contractor	Within Project site	Construction Phase	/	N/A
S10.10.1 Table 10.11	LV13	Reprovising of Public Open Space All areas of public open space affected by the Project will be reprovisioned either at the same location following the completion of temporary works, or at a separate site, as agreed with relevant Government departments. Open space should be re-provisioned in an enhanced manner.	Minimize landscape impact	Contractor	Within Project site	Construction Phase	Open space should be re- provided in an enhanced manner.	N/A
Cultural Her	ritage Impact (	Construction Phase)		1				
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	During the Construction Phase	AMOs requirements	N/A

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementati	Location / Timing	Implementatio n Stage	Requirements and/ or standards to be achieved	Implementation Status
EM&A Proj	ect							
S13.2	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual	Control EM&A Performance	Highways Department	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	۸
\$13.2-13.4	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	Perform environmental monitoring & auditing	Highways Department/ Contractor	All construction sites	Construction stage	<ul> <li>EIAO Guidance Note</li> <li>No. 4/2010</li> <li>TM-EIAO</li> </ul>	٨
		Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures;						۸
		An environmental impact monitoring needs to be implemented by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with.						٨

Remarks: 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**: May 2022

Log Ref.	Location	Received Date	Details of Complaint/ warning/ summon and prosecution	Investigation/ Mitigation Action	Status
EC001_ CKRBEM 20220414_001	BEM Site Office at Muk Long Street	14-Apr-22	Noise Nuisance from the site office at Muk Long Street on 10/4/2022 (Sunday)	<ul> <li>No major construction works were conducted.</li> <li>Minimize the works arrangement during the restricted hour.</li> <li>The complaint was considered as non-project-related.</li> </ul>	Complaint investigation was completed and the investigation report was finalized on 25 May 2022

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