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By E-mail

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Your Reference

Contract No. PM 10/2022 -

Our Reference TC/LL/hc/601100222/L02

Independent Environmental Checker for Drainage Improvement Works at Yuen Long – Stage 2

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Verification of Monthly EM&A Report

25 March 2024

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We refer to the Monthly EM&A Report under the captioned Project, which was certified on 22 March 2024 by the Environmental Team Leader appointed under Condition 2.1 of the Environmental Permit No. EP-596/2021 (hereinafter referred to as "EP").

We would like to inform you that we have no adverse comment on the captioned submission. Therefore, we hereby verify the abovementioned submission in accordance with EP Conditions 1.9 and 4.4.

Should you have any queries regarding the captioned, please contact our Hin Chan at 2828 5764 or the undersigned at 2828 5751.

Yours faithfully for MOTT MACDONALD HONG KONG LIMITED

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Drainage
Improvement Works
Near Four Villages in
Yuen Long – Sung
Shan New Village, Tai
Wo, Lin Fa Tei and Ha
Che

Monthly Environmental Monitoring and Audit (EM&A) Report

Wing Tat Civil Engineering Co. Limited

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Executive Summary

- A1. This is the first Monthly Environmental Monitoring and Audit (EM&A) Report for Drainage Improvement Works Near Four Villages in Yuen Long (the Project). This report was prepared by Aurecon Hong Kong Limited under Contract No. DC/2022/02 Drainage Improvement Works at Yuen Long Stage 2 (hereinafter called the "Contract"). This report documents the findings of EM&A works during the reporting period from 20 to 29 February 2024.
- A2. The project construction was commenced on 20 February 2024 and the construction phase EM&A programme started on 20 February 2024.

Key Construction Works in the Reporting Period

A3. A summary of construction activities undertaken during the reporting period is presented below:

Ha Che

- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

Environmental Monitoring and Audit Programme

A4. The monthly EM&A programme was undertaken by the ET in accordance with the approved EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented in **Table A1**.

Table A1 Summary of EM&A activities in the Reporting Period

EM&A Activities	Date
Water Quality Monitoring	21, 23, 26 and 28 February 2024
Noise Monitoring	23 February 2024
Weekly Environmental Site Inspection	21 and 28 February 2024

Breaches of Action and Limit Levels

A5. Summary of the environmental exceedances of the reporting month is tabulated in **Table A2**.

Table A2 Summary of Exceedances in the Reporting Period

Environmental Monitoring	Parameter	non-project		No. exceed related the pr	of ances to the	Total No. of exceedance related to the project	
		AL	LL	5x5554411555	AL	LL	p. o joot
	DO	0	1	1	0	0	0
Water Quality	Turbidity	0	1	1	0	0	0
	SS	0	2	2	0	0	0
Noise	L _{eq(30mins)}	0	0	0	0	0	0

Water Quality

A6. All water quality monitoring was conducted as scheduled in the reporting period. Two (2) limit level exceedances for SS, one (1) limit level exceedance for turbidity, and one (1) limit level exceedance of DO during impact water quality monitoring were recorded. After investigation, all exceedances were considered non-project related.

Noise

A7. No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.

Complaint Log

A8. No environmental complaint was received in the reporting period.

Notification of Summons and Successful Prosecutions

A9. No notification of summons or successful prosecutions was received in the reporting period.

Reporting Changes

A10. There was no reporting change in the reporting period.

Future Key Issues

A11. The major site activities for the next reporting period are summarized below:

Ha Che

- Lifting Operation;
- Plant Operation;
- Excavation;
- Sheet Piling; and
- Installation of Precast unit

1 Introduction

1.1 Project Background

- 1.1.1 The Drainage Master Plan Studies for the Yuen Long, Kam Tin, Ngau Tam Mei and Tin Shui Wai Drainage Basin (YLDMP) were completed in 1998. The majority of the improvement works in Yuen Long and Kam Tin recommended under the YLDMP Study have been completed. Since completion of the DMP Studies, there have been changes in developments within the areas and new development proposals and town planning studies were commissioned. In addition, some new flooding complaints were received at the upstream areas of the drainage basins, indicating that further improvement to the drainage systems was required.
- 1.1.2 The Drainage Services Department (DSD) commissioned the "Review of Drainage Master Plans in Yuen Long and North Districts Feasibility Study" (the Review Study) in 2008 so that the new development scenarios could be incorporated and the effectiveness of the previously recommended works could also be assessed. The Review Study completed in end 2011 identified that some areas in Yuen Long District could not meet the required flood protection level according to the latest land use changes and future developments taking into account various factors, including sedimentation at the downstream main channels, mangrove growth at river estuaries, updated extreme sea level statistics at Tsim Bei Tsui and projected climate change impacts, in the hydraulic analysis. To account for the severity and extent of possible flooding and the works implementation time, the Review Study proposed drainage improvement works in Yuen Long District.
- 1.1.3 Atkins China Ltd (ACL) was commissioned by the DSD in November 2013 to undertake an Investigation, Design and Construction Consultancy entitled "Agreement No. CE 22/2013 (DS) Drainage Improvement Works in Yuen Long, Stage 1 Investigation, Design and Construction" (hereinafter called the Assignment). The Project comprises construction of drainage improvement works to four villages (namely Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che) including landscaping, waterscaping, utilities diversion, temporary traffic arrangements, re-provisioning / improvements to existing dry weather flow intercepting system and any other works incidental to the completion of the Project.
- 1.1.4 An Environmental Impact Assessment (EIA) Study Brief (ESB-279/2014) for four villages namely Ha Che, Tai Wo, Lin Fa Tei and Sung Shan New Village which is a designated project was issued by the Environmental Protection Department (EPD) on 14 October 2014.
- 1.1.5 The EIA Report for Drainage Improvement Works Near Four Villages in Yuen Long Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che (referred to as "the Project") (Register No. AEIAR-229/2021) was approved on 3 June 2021 and the Environmental Permit (EP) EP-596/2021, covering the Upgrading, Construction and Deepening of the Project was granted on 28 September 2021.
- 1.1.6 Aurecon Hong Kong Limited (Aurecon) is commissioned by the Wing Tat Civil Engineering Co. Limited to undertake the Environmental Team (ET) services and carry out the Environmental Monitoring and Audit (EM&A) for Drainage Improvement Works Near Four Villages in Yuen Long Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che (Register No. EP-596/2021).

1.1.7 This is the 1st Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 20 February to 29 February 2024 (the reporting period) and is submitted to fulfil the requirements in Condition 4.4 of EP-596/2021 and Section 12.2 of the approved EM&A Manual of the Project.

1.2 Construction Works Programme

1.2.1 The construction programme and the location plan of the Project are shown in **Appendix 1.1** and **Figure 1.1** respectively. The locations of the proposed drainage improvement works at the four villages are presented in **Figures 1.2a** to **Figures 1.2d**.

1.3 Project Organisation

1.3.1 Involvement of relevant parties in a collaborative and interactive manner is essential for the implementation of the recommended EM&A programme. The following sections outline the primary responsibilities and duties of the key EM&A programme participants. The lines of communication with respect to EM&A works are shown in **Diagram 1.1**.

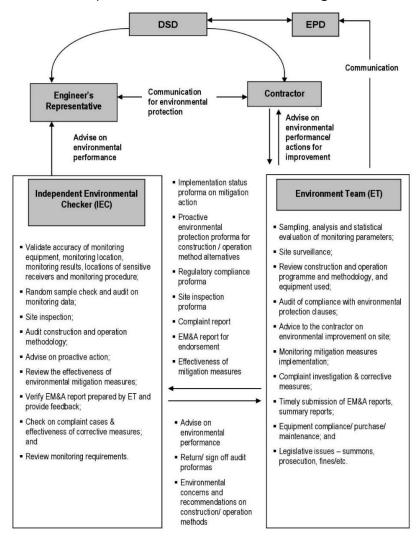


Diagram 1.1 Organisation Chart

1.3.2 Parties with different levels of involvement in the Project organisation are summarized in **Table** 1.1.

Table 1.1 Parties Involved in Project Organisation

Parties	Organization / Company
Project Proponent	Drainage Services Department
Supervisor / Engineer's Representative (ER)	Atkins China Ltd
Contractor	Wing Tat Civil Engineering Co. Limited
Environmental Team (ET)	Aurecon Hong Kong Limited
Independent Environmental Checker (IEC)	Mott MacDonald Hong Kong Limited

1.3.3 The key personnel contact names and numbers are summarized in **Appendix 1.2**.

1.4 Construction Works Programme and Construction Works Area

1.4.1 The construction works commenced on 20 February 2024. The construction works programme and the construction works area of the Project are shown in Appendix 1.1 and Figure 1.1 respectively. A summary of construction activities undertaken during this reporting period is presented below:

Ha Che

- Lifting Operation;
- Plant Operation;
- Excavation; and
- Sheet Piling

1.5 Summary of Environmental Status

1.5.1 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 1.2**.

Table 1.2 Status of Environmental License, Notifications and Permits

Permit / License No.	Valid Per	Valid Period			
reillit/Litelise No.	From	То	Status		
Environmental Permit					
EP-596/2021	28/09/2021	N/A	Valid		
Notification pursuant to Air Pollution Control (Construction Dust) Regulation					
Ref. Number: 497623	29/09/2023	N/A	Valid		
Billing Account for Disposal of Construction Waste					
7048880	18/10/2023	N/A	Valid		
Registration of Chemical Waste Producer					

Permit / License No.	Valid Period		Status	
remit/ License No.	From	То	Status	
5213-526-W3771-01	02/11/2023	N/A	Valid	
Effluent Discharge License under Water Pollution Control Ordinance				
N/A	N/A	N/A	Under application	

- 1.5.2 The status for all environmental aspects is presented in **Table 1.3**.
- 1.5.3 The EM&A programme has been implemented in accordance with the recommendations presented in the approved EIA Report and the approved EM&A Manual. A summary of implementation status of the environmental mitigation measures for the construction phase of the Project during the reporting period is provided in **Appendix 1.3**.

Table 1.3 Summary of Status for Key Environmental Aspects under the Approved EM&A Manual

Parameters	Status
T diameters	Otatus
Water Quality	
Baseline Monitoring under Approved EM&A Manual	The baseline water quality monitoring results have been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 4.3.
Impact Monitoring	The regular impact water quality monitoring was commenced on 21 February 2024. Since construction works were only carried out at Ha Che during the reporting period, impact water quality monitoring was only carried out at monitoring points located at Ha Che (i.e. C9 and C10).
Noise	
Baseline Monitoring	Up to the end of the reporting period, the baseline noise monitoring results for Ha Che have been reported in the Baseline Monitoring Report and submitted to the EPD under EP Condition 4.3. Baseline noise monitoring results for Tai Wo, Lin Fa Tei, and Sung Shan New Village will be further updated in the Baseline Monitoring Report and submitted to the EPD.
Impact Monitoring	The weekly impact noise monitoring was commenced on 23 February 2024. Since construction works were only carried out at Ha Che during the reporting period, impact noise monitoring was only carried out at monitoring points located at Ha Che (i.e. HC_M3A, HC_M4 and HC_M6).
Ecology	
Freshwater Crab Translocation Plan (FCTP)	The EPD had no further comment on the submitted FCTP on 9 February 2024. Pre-construction survey at Ha Che was carried out between 5 and 7 February 2024. Pre-construction survey at Lin Fa Tei is scheduled between 11 and 13 March 2024.

Parameters	Status
Habitat Creation and Management Plan (HCMP)	The first draft of HCMP was submitted to the EPD and the Agriculture, Fisheries and Conservation Department (AFCD) on 22 December 2023. Following comments from the EPD and AFCD dated 17 January 2024, the HCMP is pending for further revision.
Mitigation Measures listed in Approved EM&A Manual	On-going
Waste Management	
Mitigation Measures listed in Approved EM&A Manual	On-going
Land Contamination	
Mitigation Measures listed in Approved EM&A Manual	No suspected contamination was observed or reported by the Contractor in the reporting period.
Landscape and Visual	
Landscape and Visual Mitigation Plan (LVMP)	The first draft of LVMP was submitted to the EPD, the AFCD and the Planning Department (PlanD) on 22 December 2023. Following comments from the EPD, AFCD and PlanD on 7 February 2024, the LVMP is pending for further revision.
Weekly Site Audit	On-going
Mitigation Measures listed in Approved EM&A Manual	On-going
Cultural Heritage	
Archaeological Survey	Archaeological Survey will be carried out at site area within Lin Fa Tei of Archaeological Interest.
Mitigation Measures listed in Approved EM&A Manual	On-going
Environmental Audit	
Site Inspection covering Measures of Air Quality, Noise, Water Quality, Waste, Land Contamination, Ecological Quality, Landscape and Visual Impacts and Cultural Heritage	On-going

2 Water Quality

2.1 Monitoring Requirement

- 2.1.1 In accordance with the approved EM&A Manual, impact water quality monitoring should be carried out three days per week at all designated monitoring stations during the construction period. The interval between two sets of monitoring should not be less than 36 hours.
- 2.1.2 Replicate in-situ measurements of dissolved oxygen (DO), temperature, turbidity, pH, and suspended solids (SS) for each independent sampling event shall be collected to ensure a robust statistically interpretable database.

2.2 Monitoring Location

2.2.1 Impact water quality monitoring was conducted at 6 monitoring stations which is summarized in **Table 2.1**. The location of water quality monitoring stations is shown in **Figure 2.1a** to **Figure 2.1d**.

Table 2.1 Summary of Impact Water Quality Monitoring Stations

Stream	Monitoring	Coordinate	es (HK Grid)	Remarks
Sireaiii	ID	Easting	Northing	Remarks
	C1A (1)	821702	831945	Alternative Impact Monitoring Point
SSNV	C2	822459	831470	Control Monitoring Point
	C3A (2)	822413	831284	Alternative Control Monitoring Point
TW	C4	825497	830664	Control Monitoring Point
IVV	C5	825486	830716	Impact Monitoring Point
	C6	827232	831713	Control Monitoring Point
LFT	C7A (3)	826865	832115	Alternative Control Monitoring Point
	C8	826513	832075	Impact Monitoring Point
НС	C9	828304	835029	Control Monitoring Point
ПС	C10	827919	834271	Impact Monitoring Point

Notes

- (1) At Station C1, access to safe sampling of water is not feasible due to steep banks on both sides of the stream channel. An alternative monitoring location is proposed at Station C1A, which is about 250 m along the same stream channel downstream of Station C1 and is accessible for safe water sampling.
- (2) During the first day of baseline monitoring at Station C3, shallow water was observed, and the ET could not sample enough water for monitoring. As agreed by the ER, the Contractor, and the IEC, a new sampling location, Station C3A, was identified at about 130 m upstream and was accessible for water sampling.
- (3) For Station C7, the location is not close to the nearest, revised works boundary (about 200 m away). An alternative monitoring location is proposed at Station C7A, which is about 23 m upstream of the nearest, revised works boundary.

2.3 Monitoring Parameter and Frequency

2.3.1 The monitoring parameters, frequency and duration of impact water quality monitoring are listed in **Table 2.2**.

Table 2.2 Parameters measured in the Impact Water Quality Monitoring

Parameter	Frequency	Duration
Dissolved oxygen (DO), temperature, turbidity, salinity, pH, stream water depth and suspended solids (SS)	3 days in a week	Throughout the construction phase

2.3.2 Monitoring location and position, time, sampling depth, weather conditions and any special phenomena or work underway nearby are recorded during the impact monitoring.

2.4 Sampling Depths & Replication

- 2.4.1 During impact water quality monitoring, each station was sampled. Due to a shallow water depth (less than 3 m) with low flow rates in rivers, all the monitoring would be located at mid-depth level.
- 2.4.2 Duplicate water samples were collected at each sampling depth for laboratory measurement of SS. Samples were stored in high density polythene bottles, packed in ice (cooled to 4 °C without being frozen), and delivered to the laboratory on the same day of collection for analysis.

2.5 Monitoring Equipment

2.5.1 The measurement of DO, temperature, turbidity, salinity, pH and stream water depth were undertaken in-situ. In-situ monitoring instruments in compliance with the specifications listed under Section 6.3 of the approved EM&A Manual were adopted to undertake the water quality monitoring for the Project. Water quality monitoring equipment with the following specifications shall be supplied and maintained by the ET.

Dissolved Oxygen and Temperature Measuring Equipment

- 2.5.2 The instrument for measuring dissolved oxygen and temperature should be portable and weatherproof complete with cable, sensor, and use DC power source. The equipment was capable of measuring:
 - A dissolved oxygen level in the range of 0 20 mg/L and 0 200% saturation; and
 - The temperature within 0 45 °C.

2.5.3 It should have a membrane electrode with automatic temperature compensation connected with a cable. Sufficient stocks of spare electrodes and cables should be available for replacement where necessary (e.g. YSI model 59 meter, YSI 5739 probe, YSI 5795A submersible stirrer with reel and cable or an approved similar instrument).

<u> Hq</u>

2.5.4 pH meter (e.g. Hanna – HI 9024 or equivalent) should be used to measure pH value of water samples in-situ. It should be readable to 0.1 pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 to pH 10 shall be used for calibration of the instrument before and after use.

Turbidity Measurement Equipment

2.5.5 The instrument should be a portable, weatherproof turbidity-measuring instrument with a comprehensive operation manual. The equipment should use a DC power source. It should have a photoelectric sensor capable of measuring turbidity between 0 – 1000 NTU and be equipped with a cable (e.g. Hach model 2100P or an approved similar instrument).

Suspended Solids

- 2.5.6 A water sampler should comprise a transparent PVC cylinder, with a capacity of not less than 2 litres, and should be effectively sealed with latex cups at both ends. The sampler should have a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler is at the selected water depth (e.g. Kahlsico Water Sampler or an approved similar instrument).
- 2.5.7 Water samples for suspended solids measurement shall be collected in high density polythene bottles, packed in ice (chilled to 4 °C without being frozen), and delivered to the laboratory as soon as possible after collection.

Water Depth Detector

- 2.5.8 A portable, battery-operated echo sounder should be used for determining water depth at each designated monitoring station.
- 2.5.9 For shallow water (less than 1 m deep), a portable water depth ruler will be used to measure water depth.

Monitoring Position Equipment

2.5.10 A hand-held or boat-fixed digital Global Positioning System (GPS) or other equivalent instrument of similar accuracy shall be provided and used during water quality monitoring to ensure the water sampling locations are correct during water quality monitoring work.

Water Sampling Equipment

- 2.5.11 A transparent PVC or glass cylinder, which has a volume of not less than 2 litres and can be sealed at both ends with cups, should be equipped with a positive latching system. During the water sampling, a messenger is released to trigger the closure of the water sampler at suitable water depth.
- 2.5.12 For sampling location with shallow water depth, plastic bucket would be used instead.

Calibration of In-situ Instruments

- 2.5.13 All in-situ monitoring instruments should be checked, calibrated and certified by a laboratory accredited under HOKLAS or another international accreditation scheme before use, and subsequently re-calibrated at 3-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter should be carried out before measurement at each monitoring location.
- 2.5.14 For the on-site calibration of field equipment, the BS 127:1993, Guide to Field and On-Site Test Methods for the Analysis of Water should be observed.

Back-up Equipment

- 2.5.15 Sufficient stocks of spare parts should be maintained for replacements when necessary. Backup monitoring equipment shall also be made available so that monitoring can proceed uninterruptedly even when some equipment is under maintenance, calibration, etc.
- 2.5.16 **Table 2.3** summarizes the equipment used in the water quality monitoring programme. Copies of the calibration certificates of multi-parameter water quality monitoring system are shown in **Appendix 2.1**.

Table 2.3 Water Quality Monitoring Equipment

Equipment	Model	Quantity	Serial No.	Parameter	Range	Accuracy
Water Sampler	Wildco 2.2L Water Sampler with messenger or plastic bucket (used in shallow water depth)	1	N/A	N/A	N/A	N/A
					0 to 500%	 0 to 200%: ±1% of reading 200 to 500%: ±8% of reading
Multi- functional	YSI ProDSS		22D100436	Dissolved Oxygen (DO)	0 to 50 mg/L	0 to 20 mg/L: ±0.1 mg/L or 1% of reading, whichever is greater 20 to 50 mg/L: ±8% of reading
Water Quality	(multi- parameters)	2	and 22C106561	Temperature	-5 to 50 °C	±0.2 °C
Meter	parameters		220100001	рН	0 to 14 pH units	±0.2 pH units
				Turbidity	0 to 4000 NTU	0 to 999 NTU: 0.3 NTU or ±2% of reading, whichever is greater 1000 to 4000 NTU: ±5% of reading
Water Depth Ruler	鼎峯 0708	1	NA*	Water depth	0 – 7 m (Used for water depth less than 1 m)	±0.01 m
Positioning Equipment	Garmin (GPSmap 78s)	1	1WL223754	Positioning	N/A	GPS: ±1m

2.6 Monitoring Methodology

- 2.6.1 Water samples were collected at an appropriate water depth using a sealable transparent PVC or glass cylinder. For locations with shallow water depth, a plastic bucket was used as an alternative. Usually, water was then transferred to the sample bottles until they were filled to the top with no remaining air space before the lid was securely screwed on. For samples that were preserved with acid or alkalis prior to transport to the laboratory, the samples bottles were filled to the level specified by the analytical laboratory.
- 2.6.2 Multi-functional water quality meters were checked, calibrated and certified by Quality Pro Test-Consult Limited (HOKLAS reg no. 259) before use, and would be subsequently re-calibrated at 3-monthly intervals throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter should be carried out before measurement at each monitoring location. For the on-site calibration of field equipment, the BS 127:1993, Guide to Field and On-Site Test Methods for the Analysis of Water should be observed.
- 2.6.3 Water samples for suspended solids measurement were collected in high density polythene bottles, packed in ice (chilled to 4 °C being frozen), and delivered to the laboratory as soon as possible after collection.
- 2.6.4 Water sampling equipment deployed during the monitoring programme was decontaminated by manual washing and rinsed with clean distilled water after each sampling location.
- 2.6.5 All sampling bottles were labelled with the sample ID (including the indication of sampling station), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4 °C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory. The laboratory determination works started within 24 hours after collection of water samples.

Laboratory Analytical Methods

2.6.6 Analysis of SS was carried out by a HOKLAS accredited laboratory (Acumen Laboratory and Testing Limited). At least two replicate samples from each independent sampling event were collected for the SS measurement. Sufficient water samples (about 3,000 mL) were collected at the monitoring stations for carrying out the laboratory SS determination. The analytical method for suspended solids is presented in **Table 2.4**.

Table 2.4 Method for Laboratory Analysis for Water Samples

Parameters	Analytical Method	Detection Limit
Suspended Solid (SS)	APHA 17ed 2540-D (1)	1 mg/L or better

(1) APHA American Public Health Association Standard Methods for the Examination of Water and Wastewater.

2.7 QA/QC Requirements

Decontamination Procedures

2.7.1 Water sampling equipment used during the course of the monitoring process was decontaminated by manual washing and rinsed with distilled water after each sampling event. All of the disposable components/ accessories were discarded after sampling.

Sampling Management and Supervision

2.7.2 All sampling bottles were labelled with the sample ID numbers (including the sampling station), and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible. All the collected samples were stored in a cool box to keep the temperature less than 4 as possible after the sampling. All samples were stored in a cool box and kept at less than 4 °C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.

Quality Control Measures for Sample Testing

- 2.7.3 Quality control of laboratory analysis of water samples was performed by Acumen Laboratory and Testing Limited for every batch of 20 samples:
 - One method blank; and
 - One set of QC sample

2.8 Action and Limit Level for Water Quality Monitoring

2.8.1 The criteria of action and limit levels for water quality monitoring are defined in **Table 2.5**.

Table 2.5 Action and Limit Levels for Water Quality

Parameters	Action Level	Limit Level
DO in mg/L	< 5%-ile of baseline data	< 4 mg/L or < 1%-ile of baseline data
SS in mg/L	> 95%-ile of baseline data or >120% of upstream control station of the same day	> 99%-ile of baseline data or 130% of upstream control station of the same day
Turbidity in NTU	> 95%-ile of baseline data or >120% of upstream control station of the same day	> 99%-ile of baseline data or > 130% of upstream control station of the same day

Notes

- (1) For DO, non-compliance of the water quality limit occurs when monitoring result is lower than the limit.
- (2) For SS and turbidity, non-compliance of the water quality limit occurs when monitoring result is higher than the limit.
- (3) All the figures given in the table are used for reference only and the EPD may amend the figures whenever it is considered necessary.
- 2.8.2 Based on the criteria listed in **Table 2.5**, the action and limit levels for water quality are determined in **Table 2.6**.

Table 2.6 Action and Limit Levels of Water Quality

Stream	Monitoring ID	Parameters	Action	Limit
		DO in mg/L	6.72	4 (1)
SSNV	C1A	SS in mg/L	7.3 or >120% of upstream control station of the same day	8.5 or > 130% of upstream control station of the same day
		Turbidity in NTU	10.37 or >120% of upstream control station of the same day	10.81 or > 130% of upstream control station of the same day
		DO in mg/L	8.36	4 (2)
TW	TW C5	SS in mg/L	9.9 or > 120% of upstream control station of the same day	10.0 or > 130% of upstream control station of the same day
	Turbidity in NTU	13.64 or > 120% of upstream control station of the same day	13.87 or > 130% of upstream control station of the same day	
		DO in mg/L	5.38	4 (3)
LFT	C8	SS in mg/L	6.3 or > 120% of upstream control station of the same day	7.0 or > 130% of upstream control station of the same day
		Turbidity in NTU	12.46 or > 120% of upstream control station of the same day	12.94 or > 130% of upstream control station of the same day
		DO in mg/L	2.55	2.43 (4)
НС	C10	SS in mg/L	8.7 or > 120% of upstream control station of the same day	8.8 or > 130% of upstream control station of the same day
	_	Turbidity in NTU	20.06 or > 120% of upstream control station of the same day	21.07 or > 130% of upstream control station of the same day

Notes:

- (1) The 1%-ile of baseline DO data at C1A is 6.61 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (2) The 1%-ile of baseline DO data at C5 is 8.09 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (3) The 1%-ile of baseline DO data at C8 is 5.36 mg/L, which is higher than 4 mg/L. Thus, DO concentration of 4 mg/L, which is in line with the Water Quality Objectives, is adopted as the limit level.
- (4) The 1%-ile of baseline DO data at C10 is 2.43 mg/L, which is lower than 4 mg/L. Taking account of the baseline water quality condition and to minimise any false alarm of water quality deterioration during construction phase, DO concentration of 2.43 mg/L is adopted as the limit level.

2.9 Event and Action Plan

2.9.1 Should any non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix 2.2** shall be followed. Investigation of the exceedances of environmental quality performance limits should be conducted, and the ET will immediately notify the IEC and EPD, as appropriate. The notification should be followed up with advice to the IEC and EPD on the results of the investigation, proposed actions and success of the action taken, with any necessary follow-up proposals.

2.10 Results and Observations

- 2.10.1 All water quality monitoring was conducted as scheduled in the reporting month. The water quality monitoring schedule for this reporting month is shown in **Appendix 2.3**. The monitoring results and graphical presentation of water quality monitoring at the monitoring stations are shown in **Appendix 2.4**.
- 2.10.2 Since construction works were only carried out at Ha Che during the reporting period, impact water quality monitoring was only carried out at monitoring points located at Ha Che (i.e. C9 and C10).
- 2.10.3 During the reporting month, two (2) limit level exceedances for SS were recorded, one (1) limit level exceedance for turbidity were recorded, and one (1) limit level exceedance of DO during impact water quality monitoring were recorded. Summaries of exceedance records are shown in Table 2.7 and Table 2.8.

Table 2.7 Summary of Exceedance Records of Water Quality Monitoring

	Avera		Averaged	Exceedance		
Date	Station	Parameter (Unit)	Measured Value	Action Level (AL)	Limit Level (LL)	Exceedances due to the Project
	C9	DO (ma/L)	7.78			N/A
	C10	DO (mg/L)	1.25		✓	No
21/02	C9	Turbidity	10.9			N/A
	C10	(NTU)	76.6		✓	No
	C9	SS (mg/L)	16.5			N/A
	C10		45.5		✓	No
	C9	DO (mg/L)	7.85			N/A
	C10	DO (IIIg/L)	3.28			N/A
23/02	C9	Turbidity	7.4			N/A
25/02	C10	(NTU)	10.6			N/A
	C9	SS (mg/L)	5.5			N/A
	C10	SS (Hig/L)	5.0			N/A
	C9	DO (mg/L)	8.49			N/A
	C10	DO (IIIg/L)	2.98			N/A
26/02	C9	Turbidity	7.3			N/A
	C10	(NTU)	7.0			N/A
	C9	- CC (ma/l)	13.0			N/A
	C10	SS (mg/L)	5.0			N/A
	C9	DO (mg/L)	8.32			N/A
	C10	DO (IIIg/L)	3.70			N/A
28/02	C9	Turbidity	7.5			N/A
	C10	(NTU)	9.4			N/A
	C9	- SS (ma/l	12.5			N/A
	C10	SS (mg/L	32.5		✓	NO

Notes

⁽¹⁾ Additional monitoring was carried out on 22 February 2024 due to the exceedances recorded during the in-situ measurement on 21 February 2024.

Table 2.8 Summary of Exceedance Records of Water Quality Monitoring

Parameter	No. of non-project related exceedances		Total No. of non- project related exceedances	No. of exceedance related to the Project		Total No. of exceedance related to the
	AL	LL		AL	LL	Project
Dissolved Oxygen	0	1	1	0	0	0
Turbidity	0	1	1	0	0	0
Suspended Solids	0	2	2	0	0	0

- 2.10.4 After confirmation of exceedance of the water quality monitoring results, ET has issued Notification of Exceedance (NOE) to inform relevant parties (i.e., EPD, ER, IEC and Contractor) about the exceedances. After investigation, all action and limit level exceedances recorded during the reporting period were considered non-project related.
- 2.10.5 Exceedances of limit levels on DO, turbidity and SS were recorded during the regular monitoring at C10 on 21 February 2024. The frequency of monitoring was increased to daily at C9 and C10 starting from 22 February 2024. As no further exceedances of action or limit levels were observed on the monitoring results of 23 February 2024, the frequency of monitoring was resumed to normal (regular monitoring) after 23 February 2024. Three sets of geotextiles were deployed at the work areas as the mitigation measure for preventing contaminated site runoff. Since there were no construction works carried out at Ha Che on 21 February 2024 and no deficiency in mitigation measures for preventing site runoff were observed during the follow-up site inspection on 23 February 2024, it is considered that the exceedances of limit levels of DO, turbidity and SS are not related to the Project.
- 2.10.6 Exceedance of limit level on SS was recorded during the regular monitoring at C10 on 28 February 2024. Two sets of geotextiles were properly deployed onsite and a water bypass was deployed to direct river water from the upstream of work area to the downstream of work area. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection on 28 February 2024, it is considered that the exceedance of limit level of SS is not related to the Project.

3 Noise

3.1 Monitoring Locations

3.1.1 The monitoring locations for construction noise monitoring are listed in **Table 3.1** and shown in **Figure 3.1a** to **Figure 3.1d**.

Table 3.1 Noise Monitoring Stations during Construction Phase

ID No. ⁽¹⁾	Location	Nature of Uses	Type of Measurement
SSNV_M2	Village house next to a nullah in Tong Tai Po Tsuen (near DD118 1720 S.A)	Residential	Façade
SSNV_M3	Village house near a soybean sauce factory in Sung Shan New Village (near DD118 1712)	Residential	Façade
SSNV_M6	#43, Sung Shan New Village	Residential	Free-field
TW_M2	#200, Cheung Po	Residential	Free-field
TW_M3	Kai Yip Garden, #3H, Tai Wo	Residential	Free-field
LFT_M1	#2G, Lin Fa Tei	Residential	Façade
LFT_M3A (2)	Near #125B, Lin Fa Tei	Residential	Free-field
LFT_M5	#156B, Lin Fa Tei	Residential	Façade
LFT_M7	Village house near the nullah (DD112 699 S.E)	Residential	Façade
LFT_M11 (2)	#210, Ngau Keng Tsuen	Residential	Façade
HC_M3A (2)	Next to DD111 326 S.B RP near Fan Kam Road	-	Free-field
HC_M4	#1C, Chuk Hang	Residential	Façade
HC_M6	The Arbutus House 12, #52, Shui Kan Shek	Residential	Façade

Notes:

3.2 Noise Monitoring Parameter, Frequency and Duration

- 3.2.1 Construction noise level was measured by the ET and measured in terms of the A-weighted equivalent continuous sound pressure level (Leq). Leq(30mins) used as the monitoring parameter for the construction noise monitoring.
- 3.2.2 As supplementary information for data auditing, statistical results such as L10 and L90 were also obtained for reference.
- 3.2.3 **Table 3.2** summarizes the monitoring parameters, duration, and frequency of construction noise monitoring.

⁽¹⁾ SSNV - Sung Shan New Village; TW - Tai Wo; LFT - Lin Fa Tei; HC - Ha Che.

⁽²⁾ LFT_M3A, LFT_M11, HC_M3A and are alternative noise monitoring stations proposed to replace LFT_M3, LFT_M13 and HC_M3, respectively.

Table 3.2 Construction Noise Monitoring Parameter, Frequency and Duration

Monitoring Station	Parameter	Frequency and Duration
HC_M3A, HC_M4, HC_M6, TW_M2, TW_M3, LFT_M1, LFT_M3A, LFT_M5, LFT_M7 and LFT_M11	$L_{eq(30 mins)}$ (as a logarithmic average of 6 consecutive $L_{eq(5 mins)}$)	Once every week throughout the construction phase

3.3 Monitoring Equipment, Methodology and QA / QC Procedure

- 3.3.1 As referred to the technical memorandum issued under the Noise Control Ordinance (NCO), sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used for carrying out the construction noise monitoring.
- 3.3.2 Noise measurements were not made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.3.3 Sufficient numbers of noise measuring equipment and associated instrumentation were prepared by the ET. All the equipment and associated instrumentation were clearly labelled.
- 3.3.4 Wind data were collected from the records of Hong Kong Observatory Shek Kong Weather Station, which is about 2 km south-west of Ha Che and about 900 m north of Lin Fa Tei.
- 3.3.5 The monitoring procedures are as follows:
 - For façade measurement, the monitoring station was set at a point 1 m from the exterior of the sensitive receivers building façade and set at a position 1.2 m above the ground. For free-field measurement, the monitoring station was set at a position 1.2 m above the ground.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the interval were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Interval: 30 minutes ($L_{eq(30mins)}$) would be determined for daytime noise by calculating the logarithmic average of six $L_{eq(5mins)}$ data
 - Prior to and after each noise measurement, the meter was calibrated using an acoustic calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement will be required after re-calibration or repair of the equipment.
 - At the end of the monitoring period, the values of L_{eq}, L90 and L10 were recorded. In addition, noise sources were recorded on a standard record sheet.

3.3.6 Table 3.3 summarizes the noise monitoring equipment used during the construction noise monitoring. Calibration certificates for the impact noise monitoring equipment are attached in Appendix 3.1.

Table 3.3 Construction Noise Monitoring Equipment

Equipment	Model	No. of Equipment	Serial No.
Sound Level Meter	Svantek SVAN 971	1	96062
Acoustic Calibrator	Rion NC-75	1	34724244

3.4 Maintenance and Calibration

- 3.4.1 Maintenance and calibration procedures are as follows:
 - The microphone head of the sound level meter and calibrator were regularly cleaned with a soft cloth; and
 - The sound level meter and acoustic calibrator were calibrated annually by a HOKLAS accredited laboratory or the manufacturer.

3.5 Action and Limit Levels

3.5.1 The Action and Limit levels were established in accordance with the approved EM&A Manual. **Table 3.4** presents the Action and Limit Levels for construction noise. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix 3.2** shall be carried out.

Table 3.4 Action and Limit Levels for Construction Noise Monitoring

Time Period	Action	Limit Level
07:00 – 19:00 on normal weekdays		75 dB(A) ⁽¹⁾
07:00 – 23:00 on holidays; and 19:00 – 23:00 on all other days	When one or more documented complaints are received	45 dB(A) ⁽²⁾
23:00 – 07:00 of the next day	_ 10001100	30 dB(A) ⁽²⁾

Notes:

- (1) Between 07:00 and 19:00, construction noise limit for school during normal term time is 70 dB(A) and 65 dB(A) during examination period.
- (2) The ASR of identified noise sensitive receivers is "A", which is a rural area that is not affected by the in Influencing Factors (Ifs). The limit levels are stipulated in the Technical Memorandum on Noise from Construction Work in Designated Areas.

3.6 Results and Observations

- 3.6.1 The construction noise monitoring was conducted on 23 February 2024. The monitoring schedule is presented in **Appendix 2.3**.
- 3.6.2 The construction noise monitoring results are summarized in **Table 3.5**. No Action or Limit levels exceedance was recorded in the reporting period. Details of the results and graphical presentation are shown in **Appendix 3.3**.

Table 3.5 Summary of Construction Noise Monitoring Results

No and the order or	Noise Lev	el, dB(A)		
Monitoring Station	$L_{eq(30}$	L _{eq(30mins)}		
	Minimum	Maximum		
HC-M3a ⁽¹⁾	60.1	60.1	75 dB(A)	
HC-M4	60.5	60.5	75 dB(A)	
HC-M6	70.6	70.6	75 dB(A)	

Note:

3.6.3 During the construction noise monitoring period, the influencing factors which may affect the results are summarized in **Table 3.6**.

Table 3.6 Influencing Factors at Noise Monitoring Stations

Monitoring Stations	Influencing Factors
HC-M3a	Road Traffic Noise
HC-M4	Road Traffic Noise
HC-M6	Road Traffic Noise

⁽¹⁾ For Free Field measurement, +3 dB(A) was added to the measured results.

4 Ecology

4.1 Freshwater Crab

4.1.1 With reference to the approved EIA Report (Register No.: AEIAR-229/2021), two freshwater crab species of conservation importance were recorded within the work sites during the ecological baseline survey. Somanniathelphusa zanklon was recorded at Lin Fa Tei and Ha Che, while Cryptopotamon anacoluthon was recorded in the upstream area at Ha Che. Both species are endemic to Hong Kong and considered to be "Endangered" and "Vulnerable" by the IUCN respectively (IUCN 2023). The construction activities of the project will disturb their natural habitats and potentially causing a direct loss of these two species due to their limited mobility.

Freshwater Crab Translocation Plan

4.1.2 Freshwater Crab Translocation Plan (FCTP) was prepared by an Ecologist with relevant experience in freshwater habitats and submitted to the EPD and the AFCD for their approval under Condition 2.8 of the EP. Any aquatic species of conservation importance found during the pre-construction surveys were translocated to suitable receptor sites outside of the proposed works area, and their condition and number was monitored to ensure their long-term survivorship after translocation. The EPD advised no further comment on the submitted FCTP on 9 February 2024.

Pre-construction Survey Results

- 4.1.3 The pre-construction survey was carried out at Ha Che on 5, 6 and 7 February 2023 prior to the commencement of construction works at Ha Che. A total of 11 freshwater crabs were collected, marked, and translocated from Ha Che. All these captured individuals were observed on the first (5 February 2024) and third (7 February 2024) nights of the three consecutive preconstruction surveys. No crabs were collected on 6 February 2024. Seven *C. anacoluthon* (four males and three females) were found particularly on the upper section of the works area within rocky substratum and leaf-litters, while four *S. zanklon* were noted on sections with soft silty-muddy substrate.
- 4.1.4 The captured endemic freshwater crabs were translocated to the identified receptor sites indicated in the approved Freshwater Crab Translocation Plan. *C. anacoluthon* were translocated in the section of shallow fast-flowing semi-natural watercourse with rocky substratum located south-east of Chuk Hang Village. Meanwhile *S. zanklon* were translocated to the section of shallow slow-flowing seminatural channel characterised soft soil substrate encompassed by a small patch of woodland and village houses. The receptor sites have comparable characteristics with the collection site.

- 4.1.5 Several aquatic invertebrates were also incidentally caught during the surveys. Among the observed aquatic invertebrates, larvae of species with conservation importance namely one *Macromia berlandi*, two *Macromia urania* and two *Zygonyx iris* were translocated to the proposed receptor sites. *M. urania* and *M. berlandi* were translocated to the receptor site for *S. zanklon* while *Z. iris* to the receptor site of C. anacoluthon.
- 4.1.6 The pre-construction survey at Lin Fa Tei is scheduled between 11 and 13 March 2024.

Post-translocation Monitoring

- 4.1.7 According to Section 5.2.5 of the approved EM&A Manual for the Project, monthly post-translocation monitoring shall be conducted for at least 12 months after pre-construction surveys to monitor their establishment.
- 4.1.8 During the monitoring, active visual search by hand netting and kick sampling for aquatic fauna species would be performed at the respective receptor sites. Potential micro-habitats and hiding spaces that is favoured by the crabs such as rocks, organic debris, leaf litter, and riparian vegetation etc., will also be overturned or raked.
- 4.1.9 Upon discovery of any marked individuals from the pre-construction survey, date and time of capture, size and health condition of the individual will also be recorded once again.
- 4.1.10 The practice of mark and recapture of the translocated population of *S. zanklon* and *C. anacoluthon* at the receptor site can then be used to estimate population size, as well as inform the health and survival status of the translocated population.
- 4.1.11 The result of post-translocation monitoring at Ha Che will be presented in the next monthly EM&A Report.

4.2 Habitat Compensation for the Affected Riverine Habitat

- 4.2.1 In order to ensure the reinstated habitat could compensate the loss of the important riverine habitat, Habitat Creation and Management Plan (HCMP) is required to be submitted for EPD and AFCD approval under Condition 2.9 of the EP.
- 4.2.2 The first draft of HCMP was submitted to EPD and AFCD on 22 December 2023 with the following objectives:
 - detail the approach and design features for restoring/ reinstating the three green channels at Sung Shan New Village, Lin Fa Tei and Ha Che so as to facilitate and promote the colonisation of the freshwater crab and other wildlife after the reinstatement; and
 - detail the monitoring programme to monitor the physical environment of the restored/reinstated channels (i.e. green channels) including water quality, water current, as well as the establishment of riparian vegetation and the biota assemblage that would recolonise the reinstated channel.

5 Waste Management

- 5.1.1 Waste generated from the Project include inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting period. The amount of waste generated by the construction works of the Project during the reporting period are shown in **Appendix 5.1**. Inert construction and demolition (C&D) materials and non-inert C&D wastes disposed of off-site between November 2023 and January 2024 were generated from site clearance.
- 5.1.2 Sorting of construction and demolition (C&D) materials was carried out on site. Sufficient numbers of receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimize the disposal of C&D waste to public fill.
- 5.1.3 The Contractor is advised to minimize the wastes generated through recycling or reusing. All applicable mitigation measures stipulated in the approved EM&A Manual and waste management plans will be fully implemented.

6 Land Contamination

- 6.1.1 With reference to results of land contamination assessment included in the approved EIA Report (Register No.: AEIAR-229/2021), all identified sites with potential contamination are located outside the work area of the Project and no potential contamination arising from the proposed drainage improvement works is anticipated. Therefore, no land contamination issue is anticipated for this Project.
- 6.1.2 Mitigation measures listed in **Appendix 1.3** should be adopted if any suspended contamination encountered during construction.
- 6.1.3 No suspected on-site contamination was observed or reported by the Contractor in the reporting period.

7 Landscape and Visual

7.1 Audit Requirements

7.1.1 According to the approved EM&A Manual, site audits should be undertaken every week during the construction phase to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Mitigation measures recommended in the EIA Report as the audit requirements including, preservation of existing vegetation, transplanting of affected trees, compensatory tree planting, control of night-time lighting glare, erection of decorative screen hoarding and management of construction activities and facilities are summarized in **Appendix 1.3**.

7.2 Results and Observations

- 7.2.1 To monitor and audit the implementation of landscape and visual mitigation measures, two weekly landscape and visual site audits were carried out on 21 and 28 February 2024.
- 7.2.2 No deficiency in the mitigation measures on landscape and visual was observed during the reporting period.

8 Cultural Heritage

8.1 Archaeology

- 8.1.1 According to the assessment included in the approved EIA report (Register No.: AEIAR-229/2021) the proposed drainage works in the Lin Fa Tei area are located immediately adjacent to existing river course on mainly Pleistocene terraced alluvium and the western end of the alignment on Holocene alluvium between Lin Fa Tei Site of Archaeological Interest (SAI) and Shui Lau Tin SAI. The proposed works are partially located within Lin Fa Tei SAI. Previous investigations within SAI have shown both in situ and secondary deposit and with potential for wooden features near the stream bed. As per the recommendation from EIA report, Archaeological Survey shall be conducted prior to the construction works, the concerned area is marked in Figure 8.1.
- 8.1.2 A qualified archaeologist shall be engaged and apply for a licence under the Antiquities and Monuments Ordinance (Cap. 53) to conduct the Archaeological Survey prior to the construction phase. The scope and methodology of the Archaeological Survey shall be agreed with Antiquities and Monuments Office (AMO) prior to implementation. Tentatively and subject to agreement with AMO, a fieldscan, where possible, twenty auger tests and four 5 by 1m narrow trenches are proposed to further assess the archaeological potential of the area. If significant remains are uncovered, AMO should be notified and potential need for mitigation and/ or an appropriate way forward should be agreed by AMO and relevant parties.
- 8.1.3 For remaining drainage work areas (outside the area identified for Archaeological Survey) deemed to have limited (near Kam Sheung Road) to minimal (remainder of Works Areas) archaeological potential, AMO shall be informed immediately if antiquities or supposed antiquities are discovered during construction works for the proposed drainage improvement works for ascertaining required remedial works.

8.2 Built Heritage

- 8.2.1 According to the approved EM&A manual, mitigation measures that should be implemented during the construction phase for graded historic buildings are presented in **Table 8.1**.
- 8.2.2 Condition surveys were carried out by qualified structural engineer for Lee Tat Bridge, Lan Fong Study Hall and St John's Chapel prior to construction works. The Pre-construction Condition Survey Report were submitted to the EPD on 22 December 2023 under Condition 2.10 of the EP.

Table 8.1 Mitigation Measures for Impacted Graded Historic Buildings

Graded Historic Buildings	Mitigation Measures	
Lee Tat Bridge, Shui Tsan Tin (Grade 3)	A condition survey should be carried out in advance of works and after completion of works by qualified building surveyor or structural engineer. The Condition Survey Report should contain descriptions of the structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring and precautionary measures that are or were recommended with aid of photo records. The condition survey report must be submitted to the AMO for comment before construction activities commence and after the works have been completed. The contractor should implement the approved monitoring and precautionary measures.	
Lan Fong Study Hall, Chuk Hang (Grade 3)	Vibration, settlement and tilting monitoring should be undertaken during the construction works to ensure that safe levels of vibration are not exceeded. An Alert, Alarm and Action (AAA) vibration limit set at 5 / 6 / 7.5 mm/s for Grade 3 historic buildings, settlement limit set at 6/ 8/ 10mm, and tilting limit set at 1/2000; 1/1500; 1/1000 should be adopted. Monitoring proposal, including	
St John's Chapel, Cheung Po (Grade 2)	checkpoint locations, installation details, response actions for each of the AAA levels and frequency of monitoring should be submitted for AMO's consideration. Installation of monitoring checkpoints shall be carried out in great care and adequate protection shall be provided so as to avoid unnecessary disturbance/ damage to the historic fabrics. Photo records of monitoring checkpoints shall be submitted upon installation for AMO's records. Monitoring records should be submitted to AMO on regular basis and alert AMO should the monitoring reach AAA levels.	

9 Environmental Site Inspection and Audit

9.1 Implementation Status of Environmental Mitigation Measures

9.1.1 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, site inspections were carried out on 21 and 28 February 2024 at the site portions listed in **Table 9.1** below.

Table 9.1 Site Inspection Record

Date	Inspected Site Portion	Time
21 February 2024	Lin Fa Tei	14:00 PM – 14:30 PM
28 February 2024	Ha Che	15:00 PM – 15:30 PM

9.1.2 Environmental deficiencies were observed during weekly site inspection. Key observations during the site inspections and during the reporting period are summarized in **Table 9.2**.

Table 9.2 Site Observations

Date	Environmental Observations	Follow-up Status
21 February 2024	Observation(s) and Recommendation(s)	
	1. Nil	1. Nil
28 February 2024	Observation(s) and Recommendation(s)	
	1. Nil	1. Nil

9.1.3 According to the EIA Study Report, Environmental Permit, contract documents and approved EM&A Manual, the mitigation measures detailed in the documents should be implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix 1.3**.

10 Summary of Monitoring Exceedance, Complaints, Notification of Summons and Prosecutions

10.1 Summary of Exceedance

- 10.1.1 During the reporting month, two (2) limit level exceedances for SS, one (1) limit level exceedance for turbidity, and one (1) limit level exceedance of DO were recorded in the impact water quality monitoring. After investigation, all exceedances were considered to be non-project related.
- 10.1.2 Exceedances of limit levels on DO, turbidity and SS were recorded during the regular monitoring at C10 on 21 February 2024. The frequency of monitoring was increased to daily at C9 and C10 starting from 22 February 2024. As no further exceedances of action or limit levels were observed on the monitoring results of 23 February 2024, the frequency of monitoring was resumed to normal (regular monitoring) after 23 February 2024. Three sets of geotextiles were deployed at the work areas as the mitigation measure for preventing contaminated site runoff. Since there were no construction works carried out at Ha Che on 21 February 2024 and no deficiency in mitigation measures for preventing site runoff were observed during the follow-up site inspection on 23 February 2024, it is considered that the exceedances of limit levels of DO, turbidity and SS are not related to the Project.
- 10.1.3 Exceedance of limit level on SS was recorded during the regular monitoring at C10 on 28 February 2024. Two sets of geotextiles were properly deployed onsite and a water bypass was deployed to direct river water from the upstream of work area to the downstream of work area. Since sufficient measures for preventing contamination of downstream water were well implemented and no deficiency in mitigation measures for preventing site runoff was observed during weekly site inspection on 28 February 2024, it is considered that the exceedance of limit level of SS is not related to the Project.
- 10.1.4 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.

10.2 Summary of Environmental Non-Compliance

10.2.1 No environmental non-compliance was recorded in the reporting period.

10.3 Summary of Environmental Complaint

10.3.1 No environmental complaint was received in the reporting period. The Cumulative Complaint Log is presented in **Appendix 10.1**.

10.4 Summary of Environmental Summon and Successful Prosecution

10.4.1 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution is presented in **Appendix 10.1**.

11 Future Key Issues

11.1 Works and Potential Environmental Issues in the next Reporting Period

- 11.1.1 The construction programme for the Project for the next reporting period is presented in **Appendix** 11.1.
- 11.1.2 Works to be undertaken in the next reporting period are summarized below:

Ha Che

- Lifting Operation;
- Plant Operation;
- Excavation;
- Sheet Piling; and
- Installation of Precast unit
- 11.1.3 Potential environmental impacts arising from the above construction activities are mainly associated with construction noise impact, water quality impact, ecological impact, waste management, and landscape and visual.

11.2 Recommendation

11.2.1 The key environmental mitigation measures for the Project in the coming reporting period expected to be associated with the construction activities include:

Noise

- Only well-maintained plant should be operated on-site, and plant should be maintained regularly during the construction programme; and
- Quality Powered Mechanical Equipment (QPME) should be adopted as far as possible.

Water Quality

- No effluent discharge would be allowed before acquired the effluent discharge license;
- Surface run-off from construction sites should be discharged into dedicated discharge point via adequately designed sand/ silt removal facilities;
- Channels/ earth bunds/ sandbags barriers should be provided on site to properly direct stormwater to silt removal facilities;
- Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly;
- Open stockpiles of construction materials on sites should be covered with tarpaulin or similar fabric during rainstorms; and
- Perimeter channels should be provided on site boundaries where necessary to intercept stormwater run-off from outside the site so that it will not wash across the site.

Waste Management

- Provision of sufficient waste disposal points and regular collection of waste;
- Regular cleaning and maintenance programme for drainage system; and
- Chemical containers shall be stored with drip tray underneath.

Ecology

- Minimize loss of habitats and associated wildlife; and
- Using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.

Landscape and Visual

- Construction activities shall be carefully designed to minimize impact on existing retained trees;
- Adequate tree protection measures shall be provided for the trees to be retained on site.
- 11.2.2 The tentative schedule of regular construction noise and water quality monitoring in the next reporting period is presented in **Appendix 11.1**. The regular impact noise and water quality monitoring will be conducted at the same monitoring locations in the next reporting period.

12 Conclusions

12.1 Conclusion

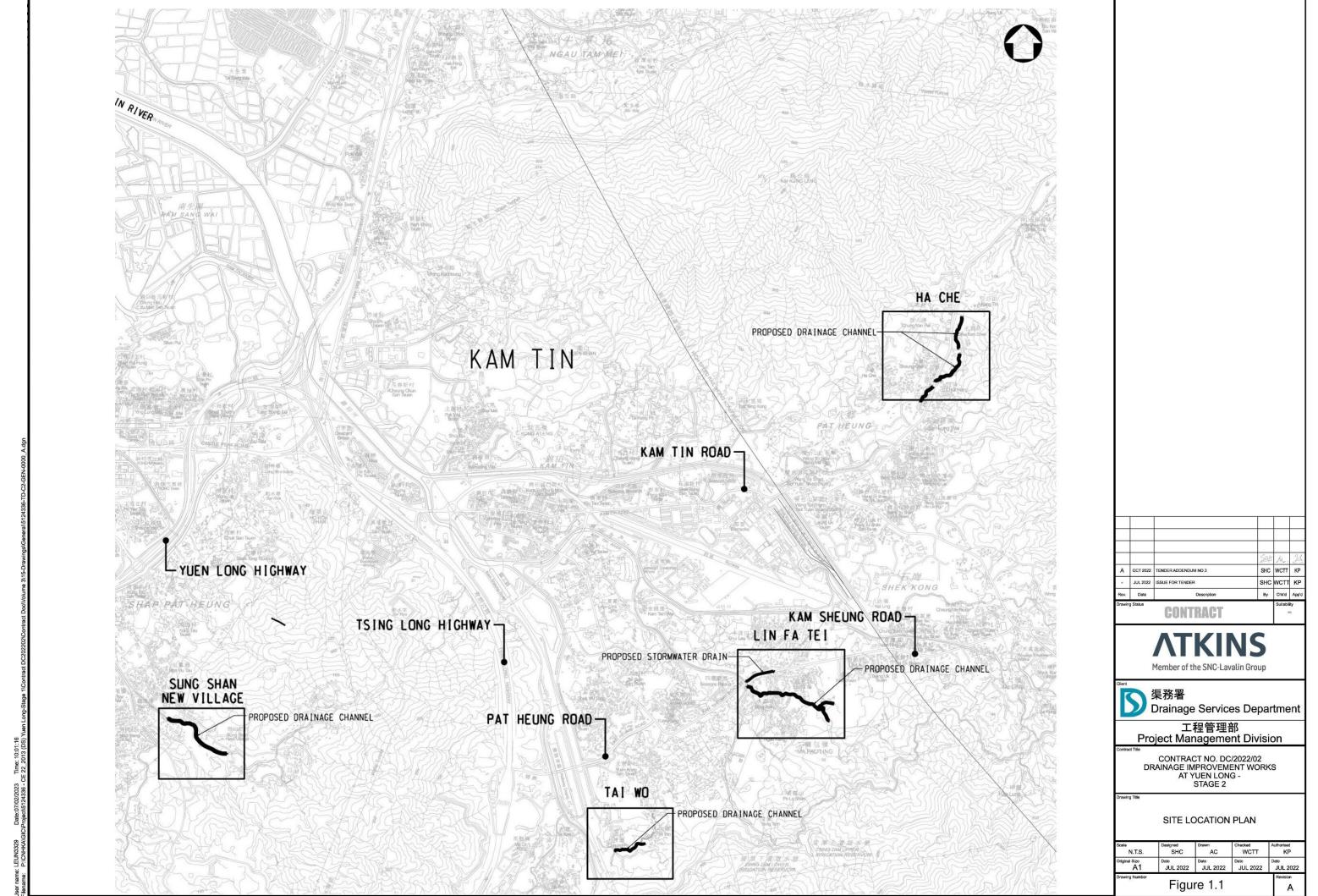
- 12.1.1 This 1st Monthly EM&A Report presents the EM&A works during the reporting period from 20 February 2024 to 29 February 2024 in accordance with the approved EM&A Manual.
- 12.1.2 Two (2) limit level exceedances for SS, one (1) limit level exceedance for turbidity, and one (1) limit level exceedance of DO were recorded during impact water quality monitoring in the reporting period. After investigation, all exceedances were considered non-project related.
- 12.1.3 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 12.1.4 Environmental site inspections were conducted on 21 and 28 February 2024 by the ET in the reporting period.
- 12.1.5 No environmental complaint was received in the reporting period.
- 12.1.6 No notification of summons and prosecution was received in the reporting period.
- 12.1.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 12.1.8 No change to the EM&A programme was made in this reporting period.

12.2 Comments/ Recommendations

12.2.1 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.



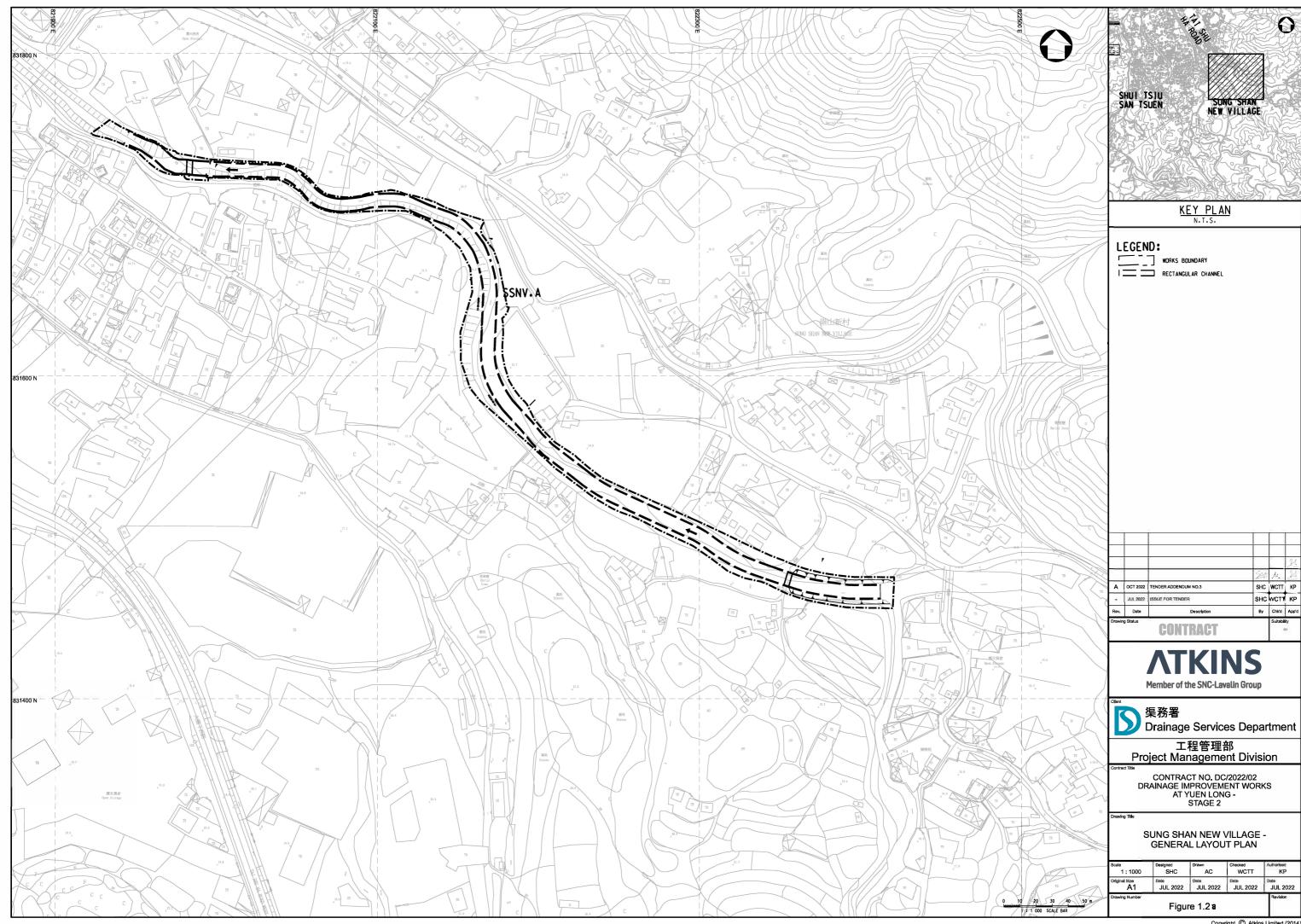
Figure 1.1	General Site Location Plan	

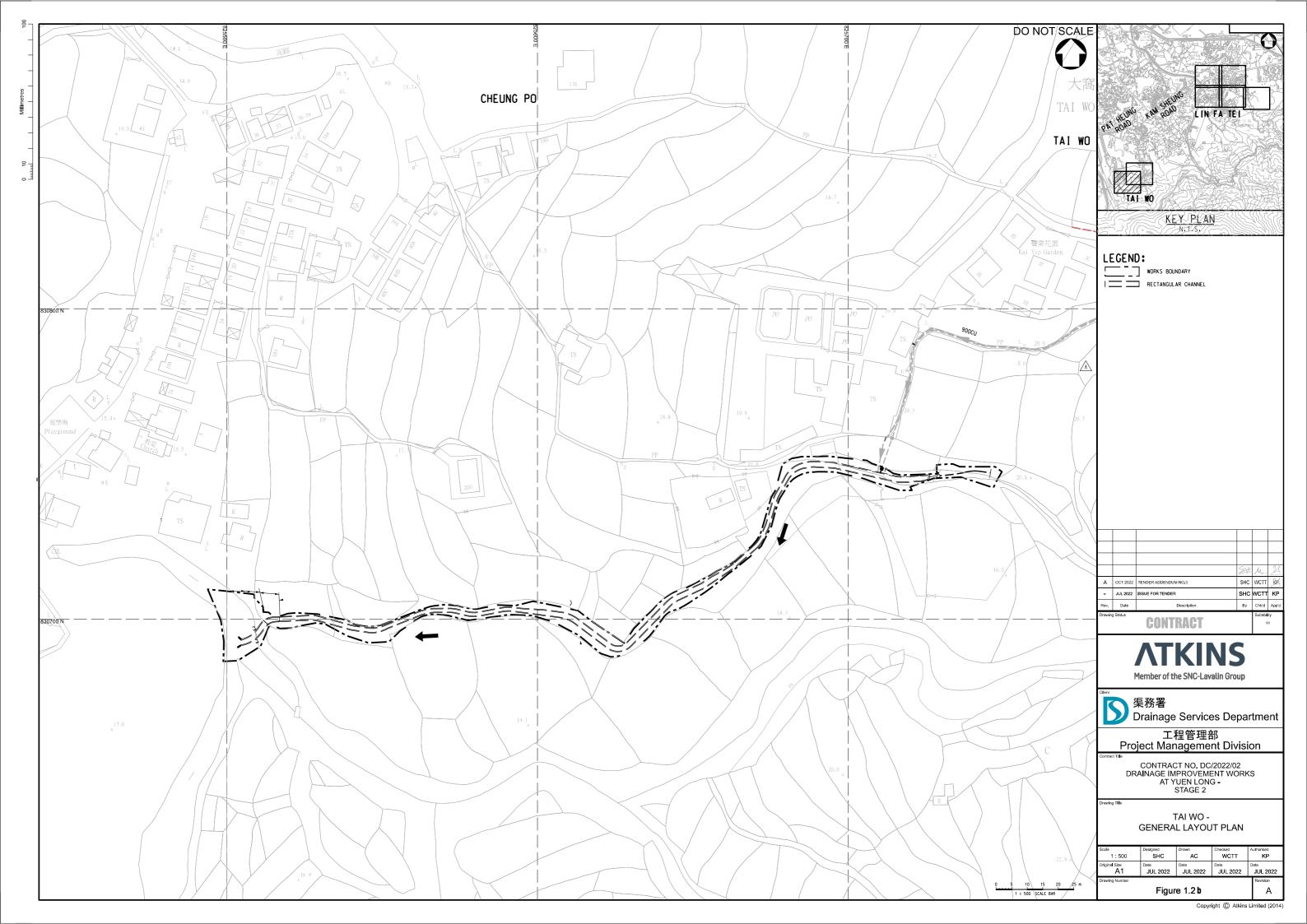


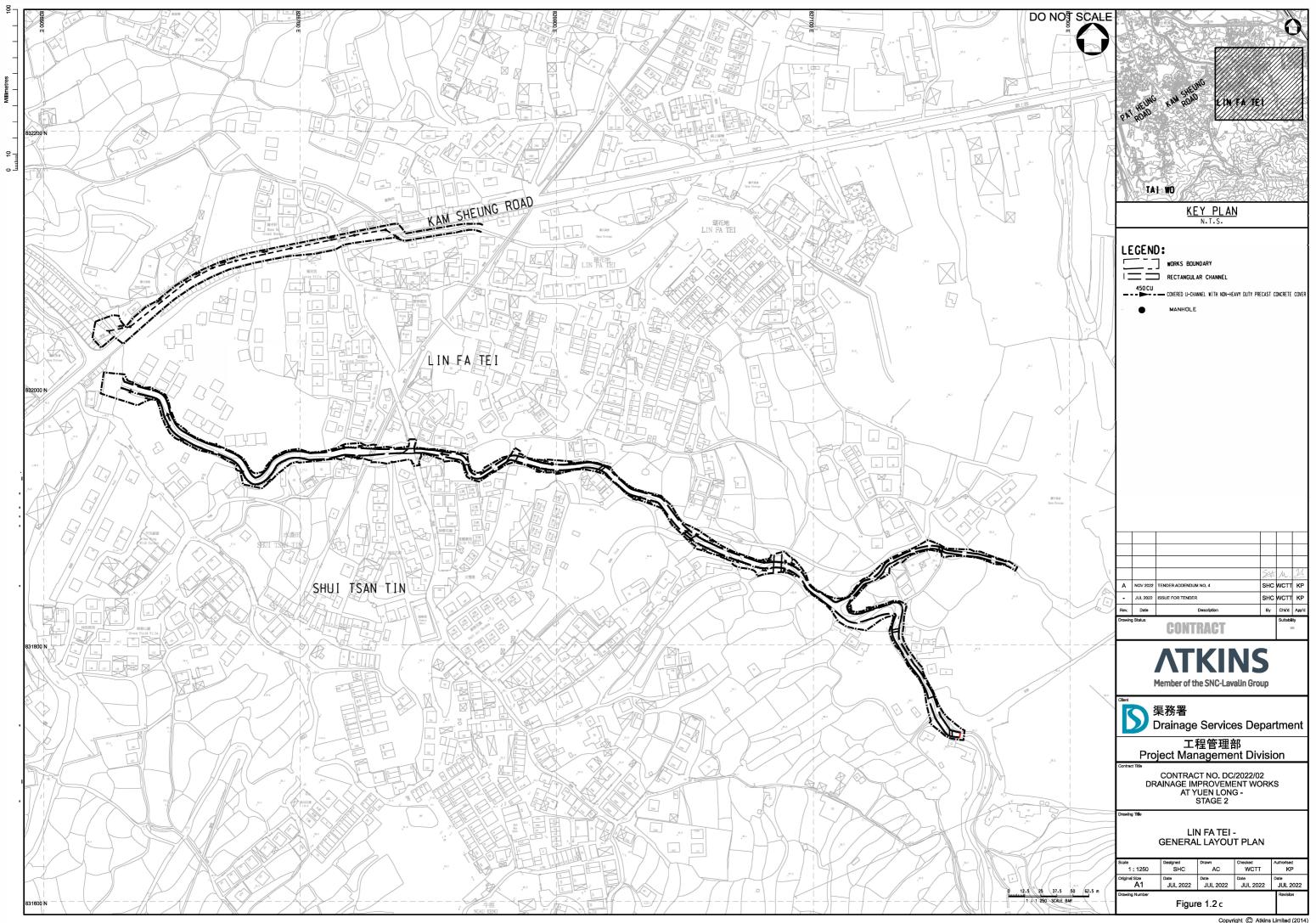
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Figure 1.2	Location of Work Areas for the Project	







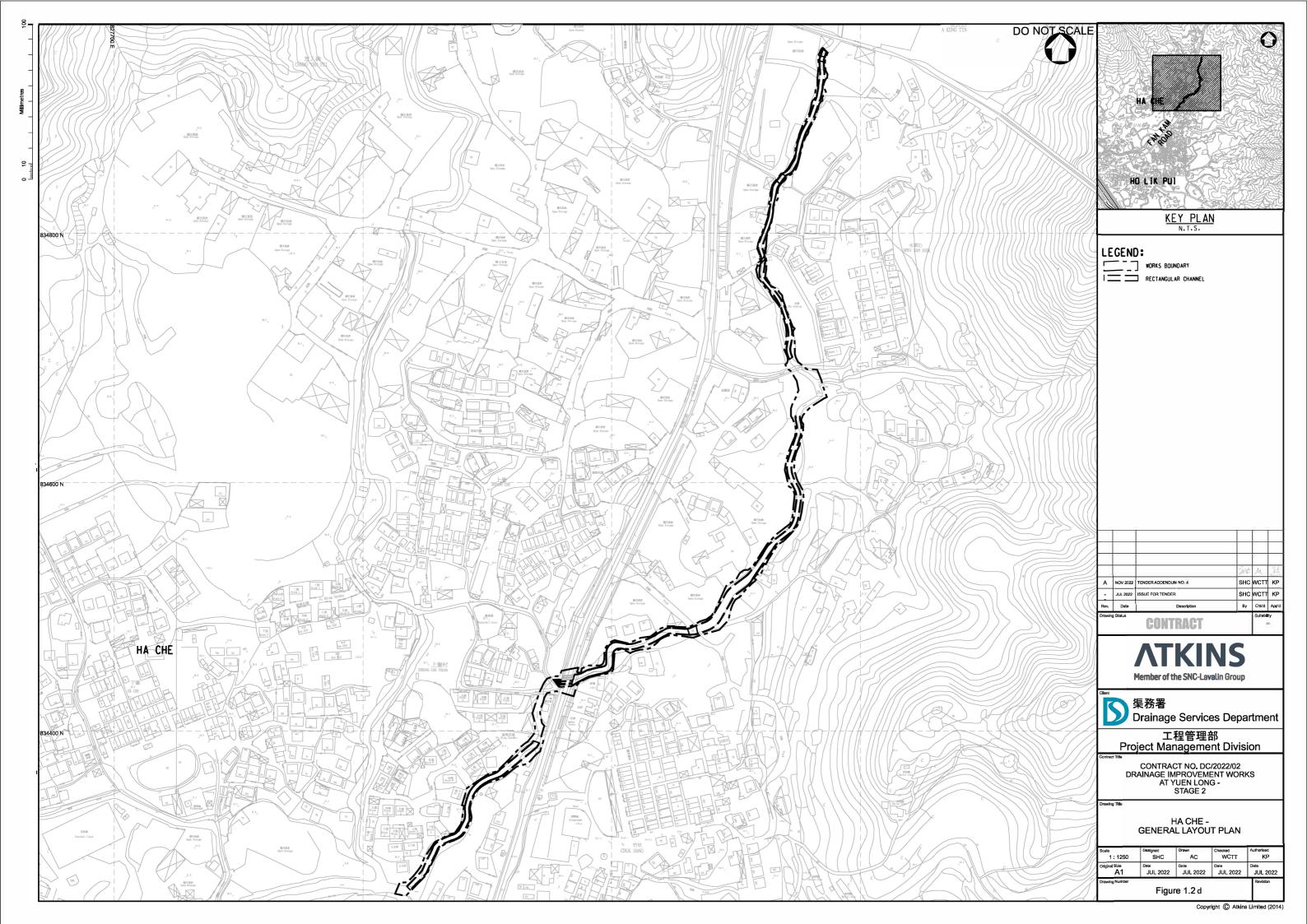
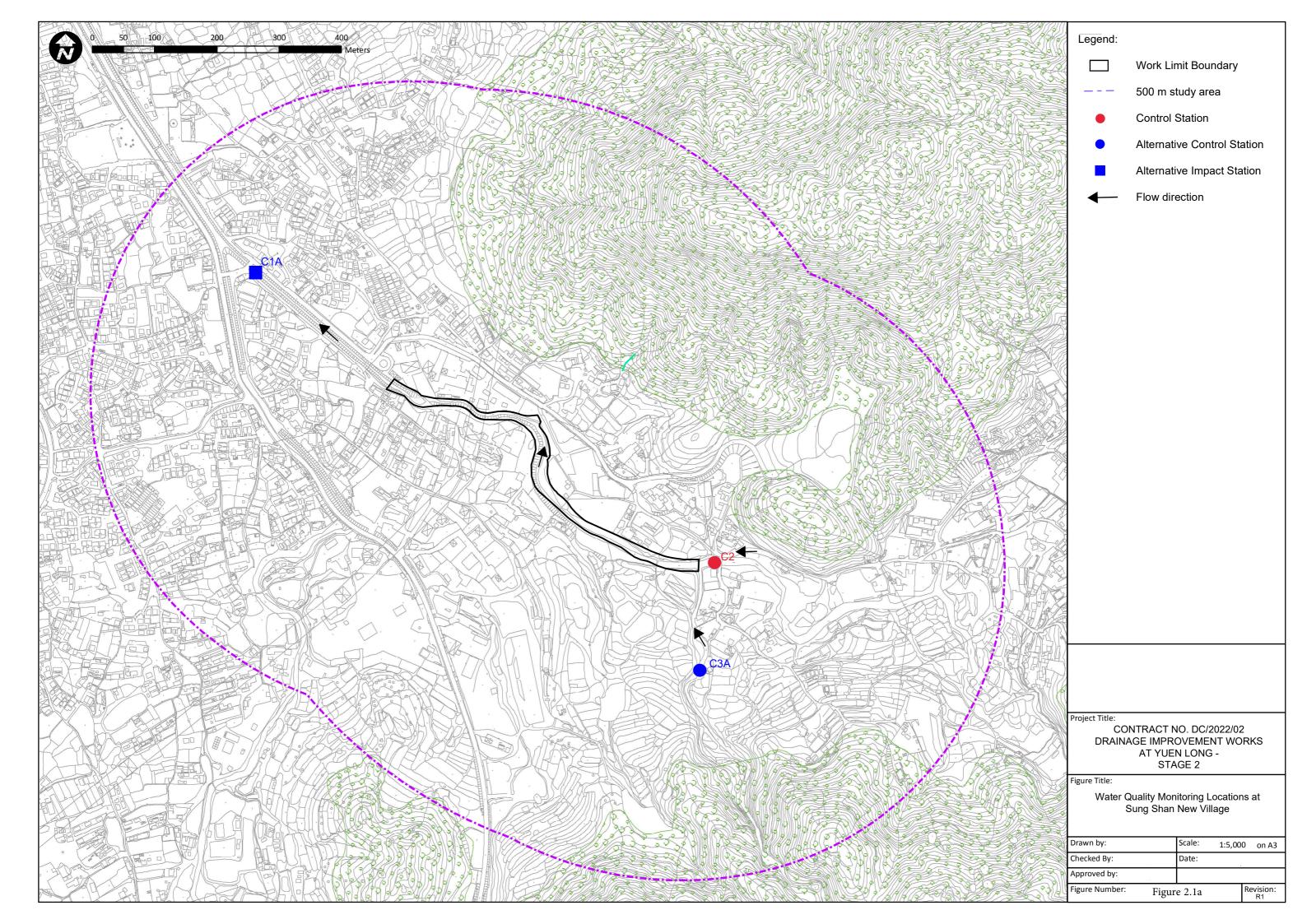
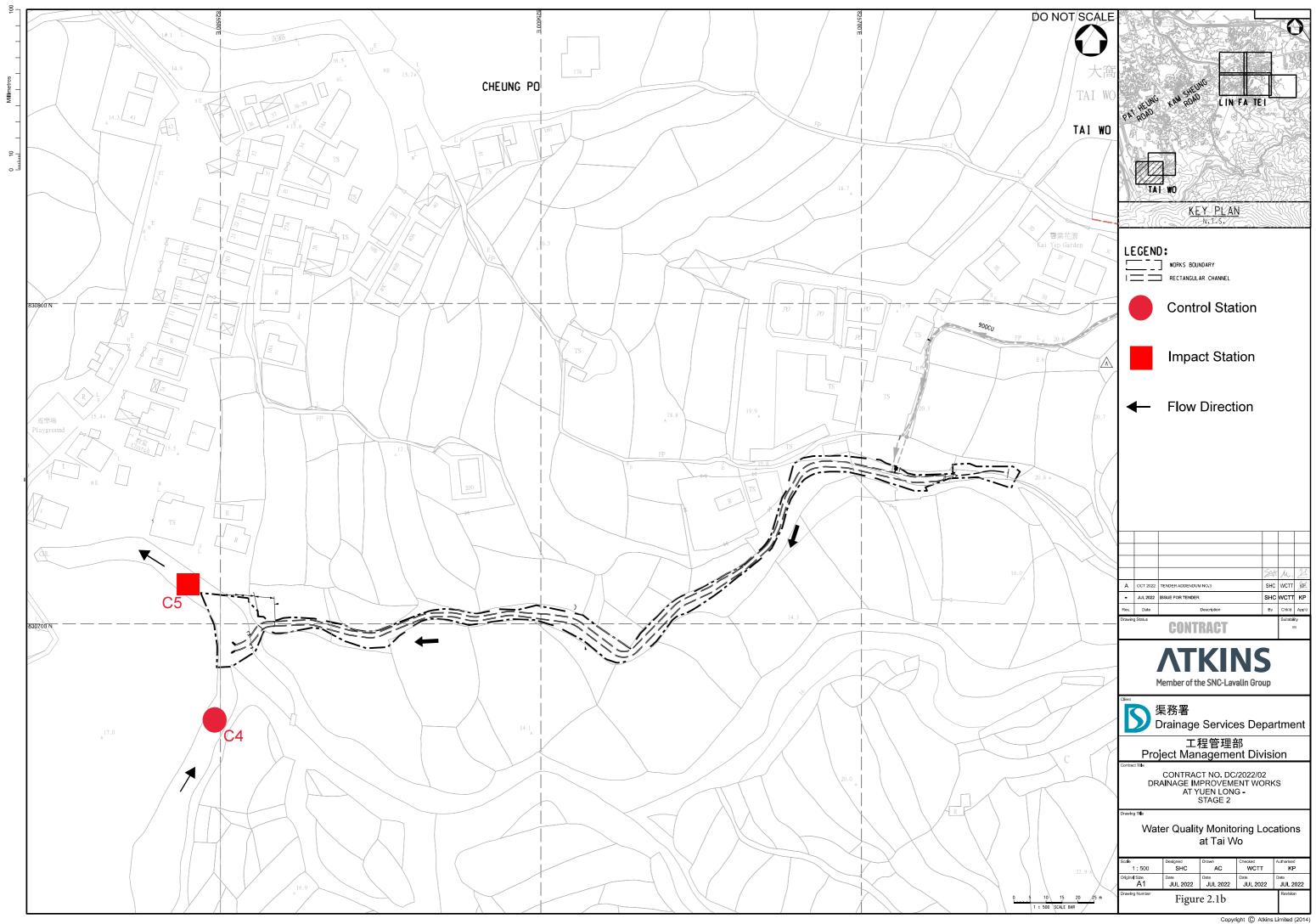
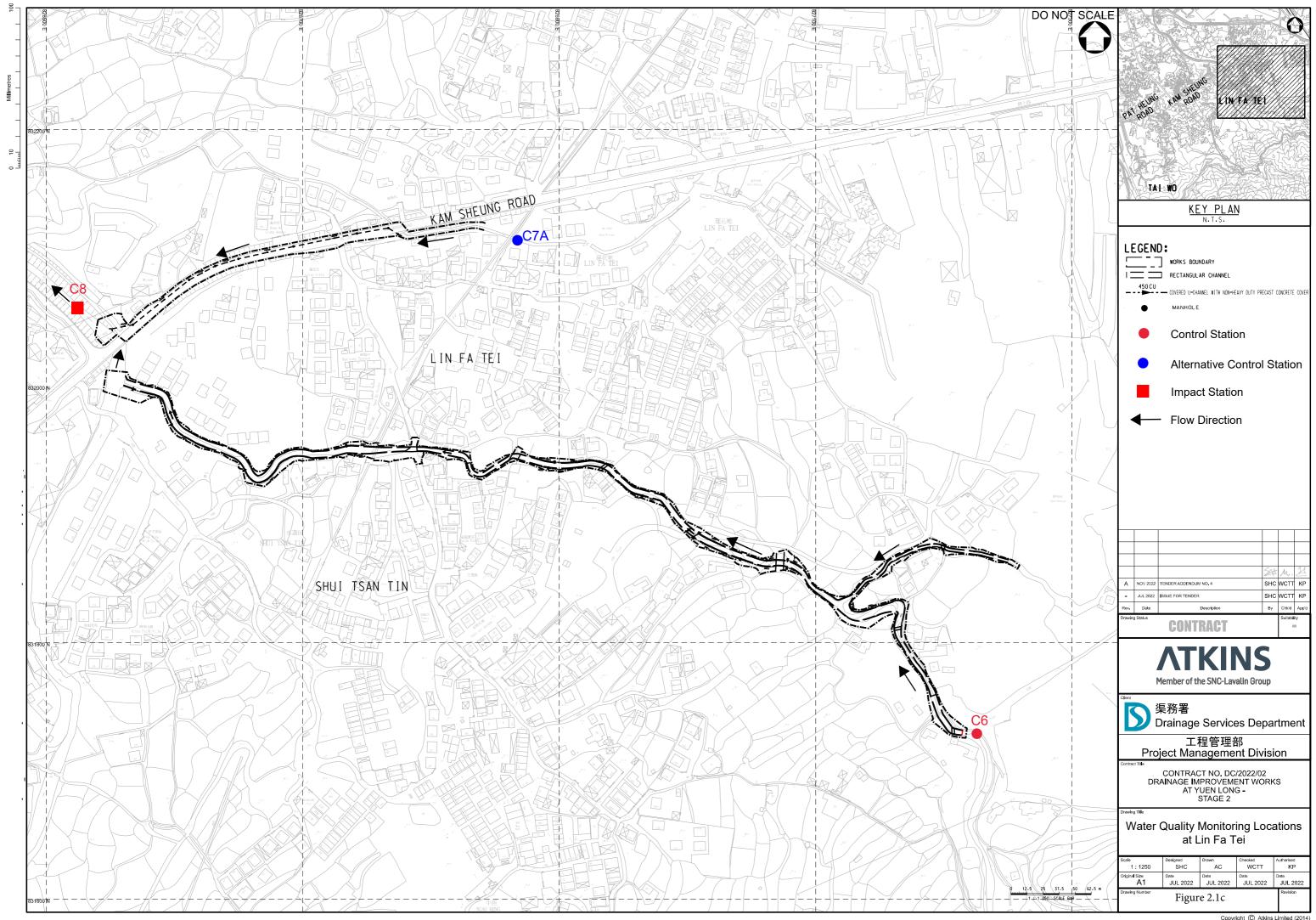


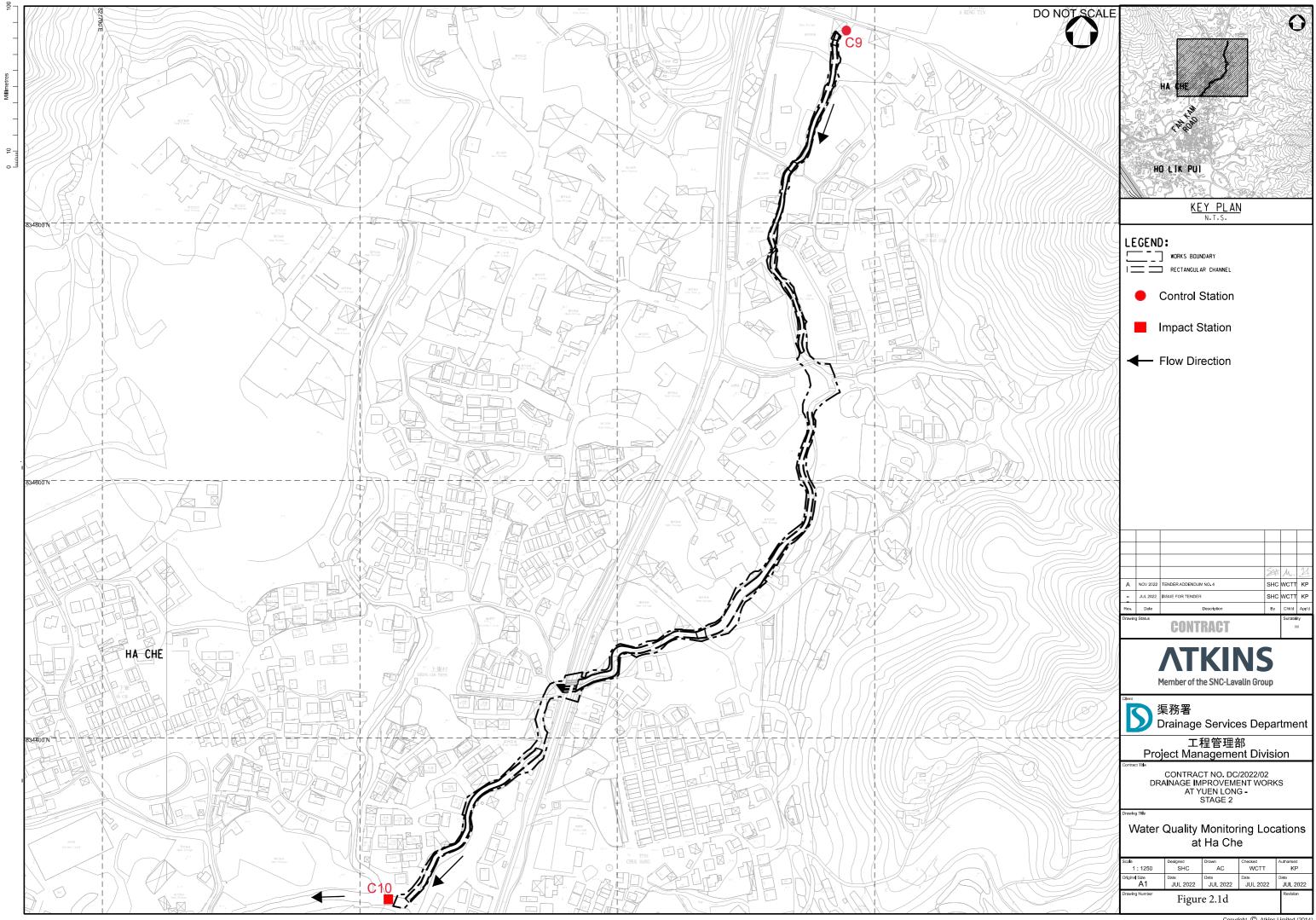
Figure 2.1	Impact Water Quality Monitoring Locations	





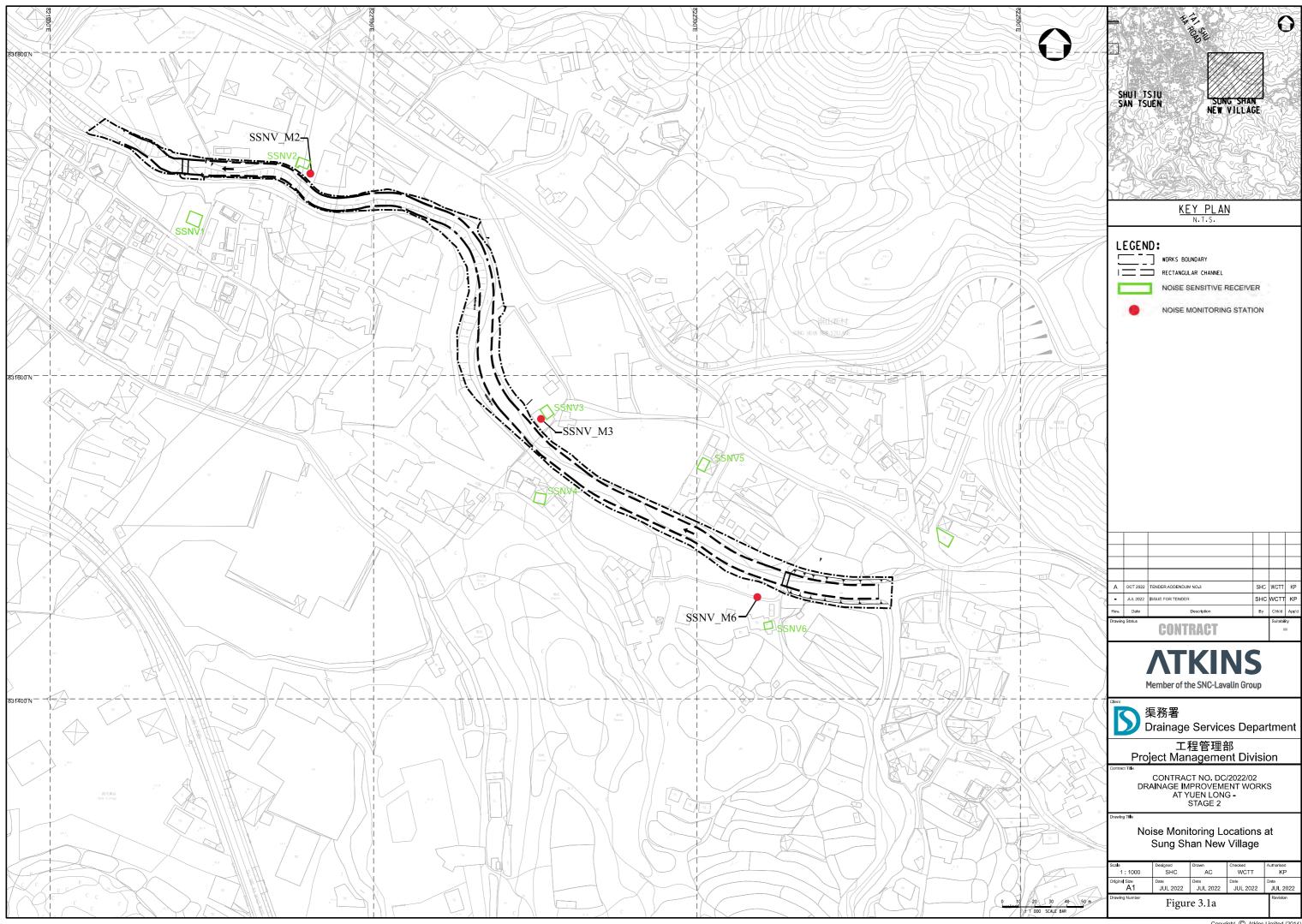


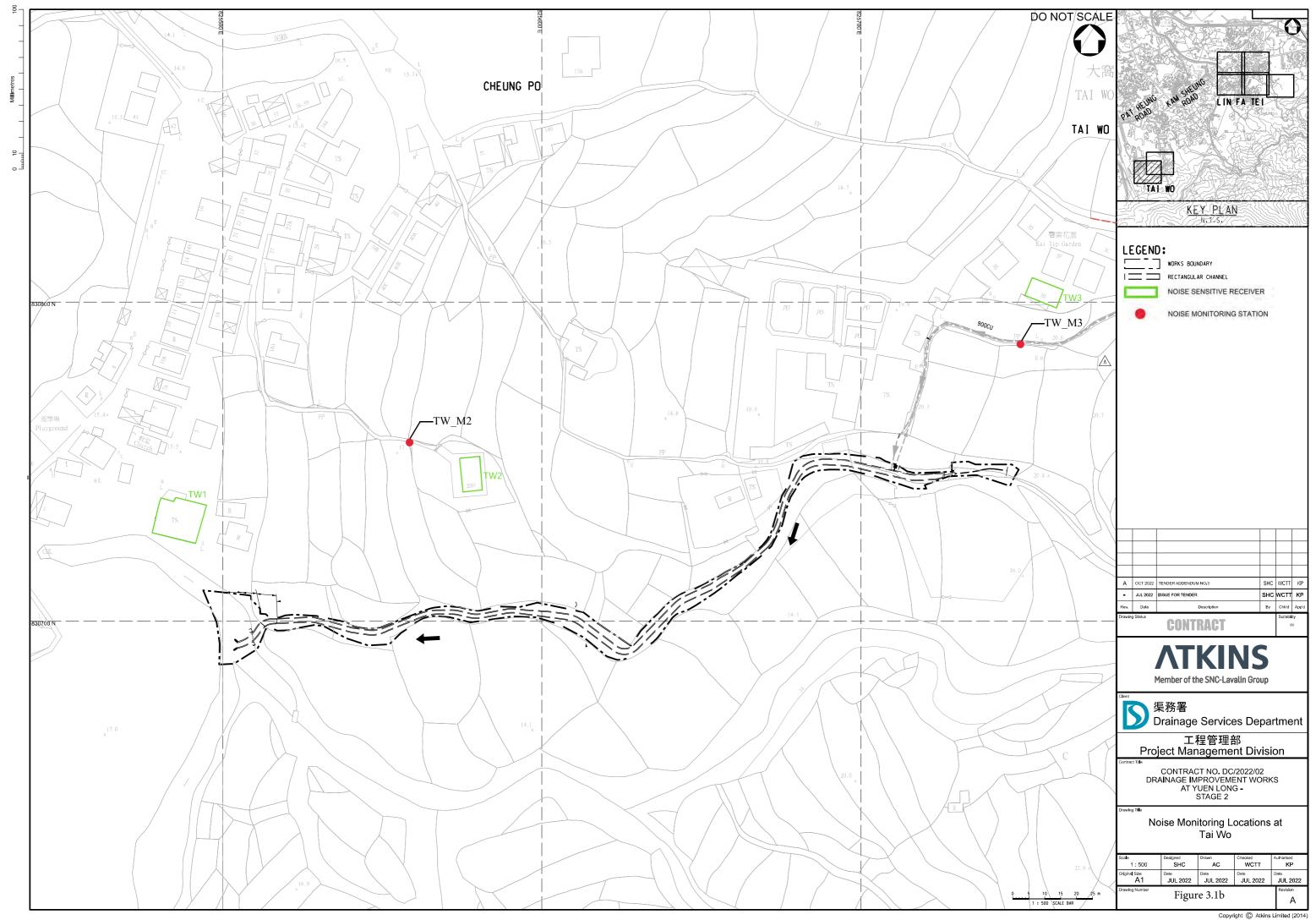
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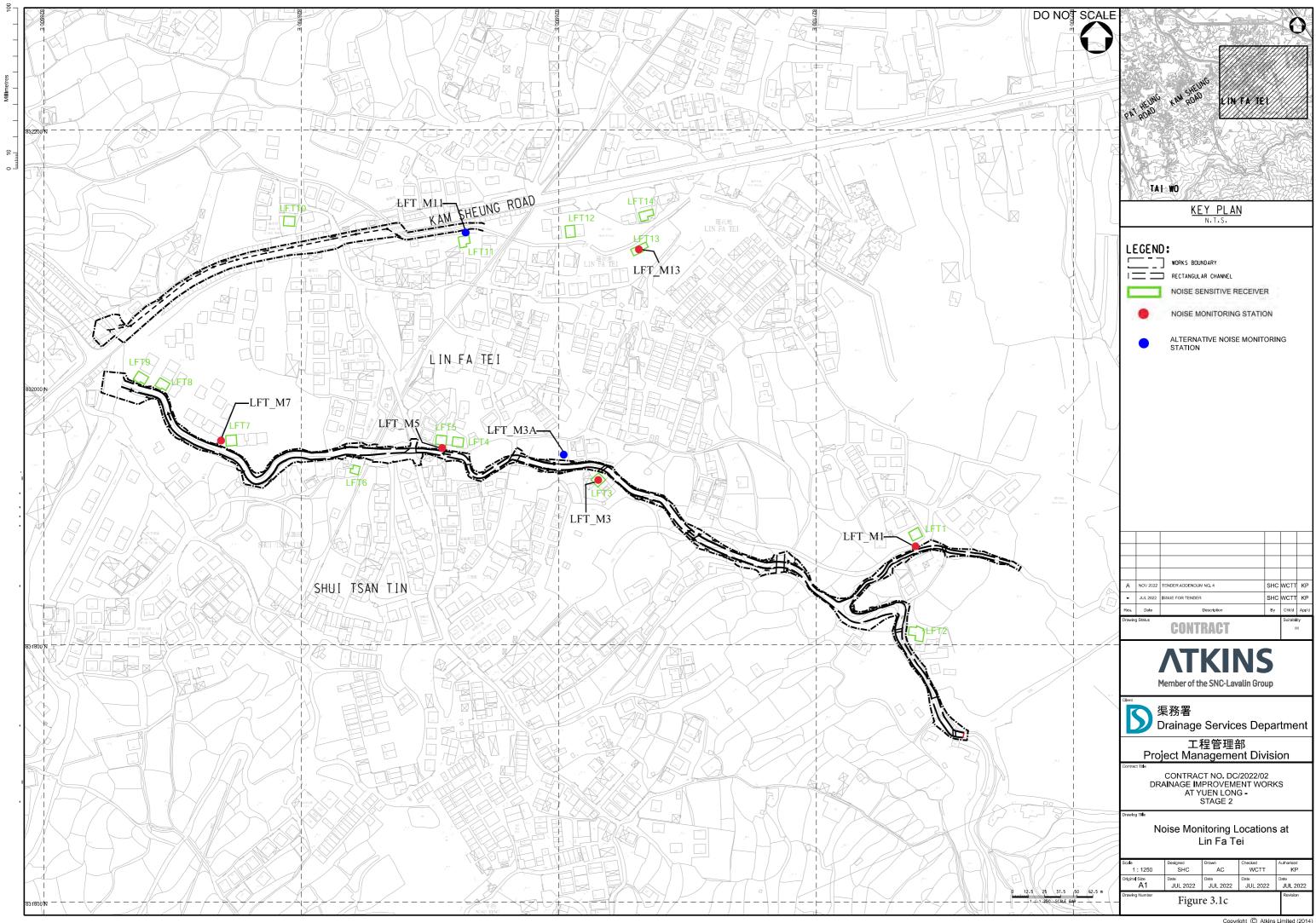


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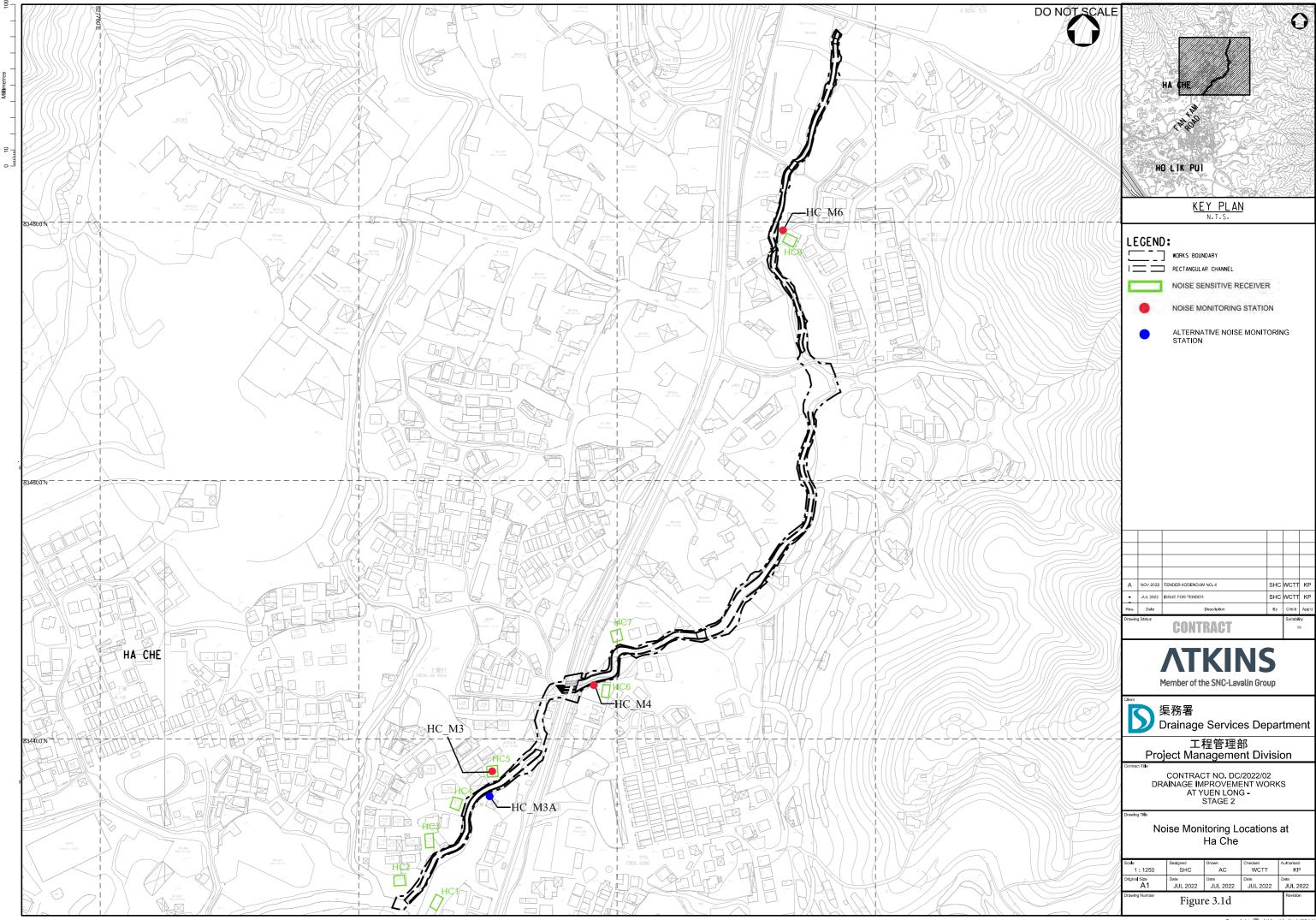
Figure 3.1	Impact Noise Monitoring Locations	





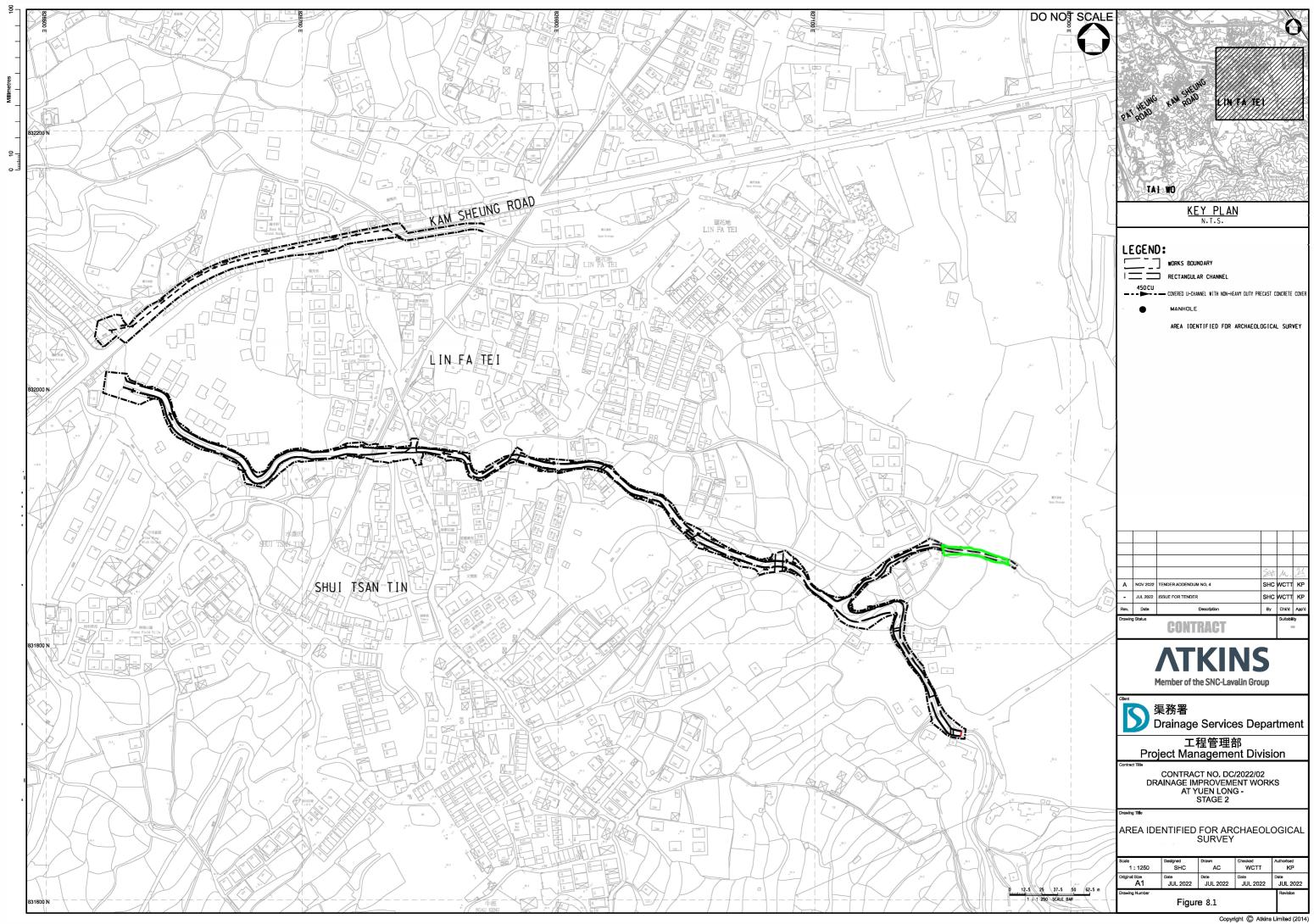


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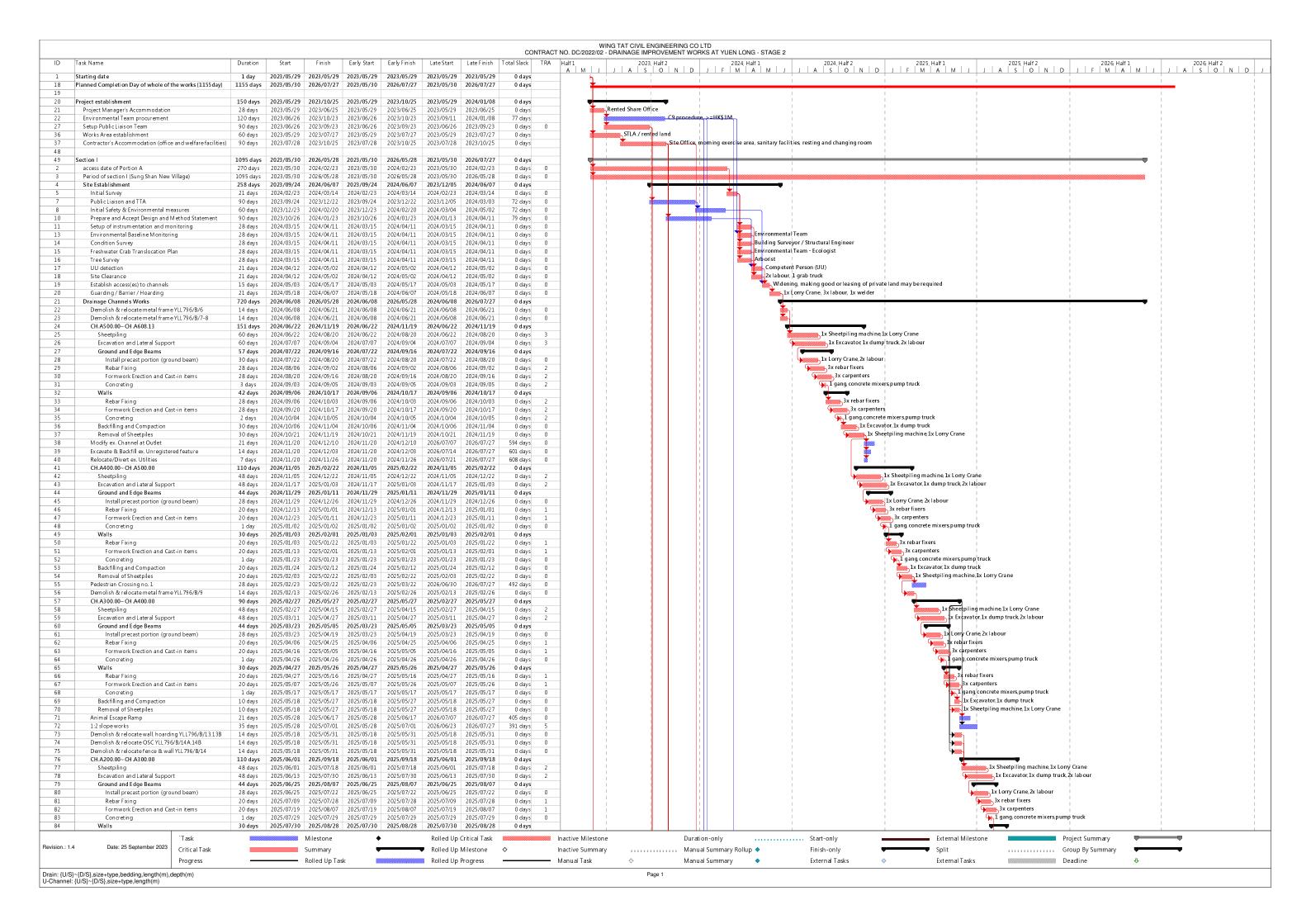
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Figure 8.1	Area for Archaeological Survey	





Appendix 1.1	Construction Programme	



									CONT	RACT NO. DC	2/2022/02 - DRAINAGE IMPROV	MENT WORK	(S AT YUEN LONG - STA	GE 2					
	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish		RA Half 1	2023, Half : M	N D	2024, Half 1 J F M A M	2024, H		2025, Half 1 J F M A M	L L	2025, Half 2 2026, Ha	
85 86	Rebar Fixing Formwork Erection and Cast-in items	20 days 20 days	2025/07/30 2025/08/09	2025/08/18			2025/07/30 2025/08/09	2025/08/18	0 days 0 days	1				 				3x rebar fixers 3x carpenters	
87	Concreting	1 day	2025/08/19	2025/08/19		2025/08/19	2025/08/19	2025/08/19	0 days	0		ļ ļ			į		; 'č	1 gang, concrete mix ers, pump truck	
88 89	Backfilling and Compaction Removal of Sheetpiles	20 days 20 days	2025/08/20 2025/08/30					2025/09/08 2025/09/18	0 days 0 days	0		ļ ļ			į		i	1x Excavator, 1x dump truck 1x Sheetpiling machine, 1x Lorry Crane	
90 91	CH.A100.00~ CH.A200.00	90 days	2025/09/09					2025/12/07	0 days	2		į.						1x Sheet piling machine, 1x Lorry	Crops
92	Sheetpiling Excavation and Lateral Support	48 days 48 days	2025/09/09 2025/09/21	2025/10/26 2025/11/07			2025/09/09 2025/09/21	2025/10/26 2025/11/07	0 days 0 days	2		ļ.		İ	į		i	x Excavator, 1x dump truck, 2:	
93 94	Ground and Edge Beams	44 days	2025/10/03	2025/11/15				2025/11/15	0 days	_		ļ į		İ	į			1x Lorry Crane 2x labour	
95	Install precast portion (ground beam) Rebar Fixing	28 days 20 days	2025/10/03 2025/10/17	2025/10/30 2025/11/05		2025/10/30 2025/11/05	2025/10/03 2025/10/17	2025/10/30 2025/11/05	0 days 0 days	1		ļ.		İ	į		i	3x rebar fixers	
96 97	Formwork Erection and Cast-in items Concreting	20 days 1 day	2025/10/27 2025/11/06		2025/10/27 2025/11/06			2025/11/15 2025/11/06	0 days 0 days	1		ļ.			į		į	3x darpenters 1 gang, concrete mixers, pump	truck
98	Walls	10 days	2025/11/07	2025/11/16	2025/11/07	2025/11/16	2025/11/07	2025/11/16	0 days			i		Ï	į		i	+	
99 100	Rebar Fixing Formwork Erection and Cast-in items	10 days 10 days	2025/11/07	2025/11/16	2025/11/07	2025/11/16		2025/11/16	0 days 0 days	1		1		I	1		I	3x rebar fixers 3x carp enters	l I
101	Concreting	1 day	2025/11/07	2025/11/07	2025/11/07	2025/11/07	2025/11/07	2025/11/07	0 days	0		1		1	1		I I	gang concrete mixers pump	
102 103	Backfilling and Compaction Removal of Sheetpiles	20 days 20 days	2025/11/08	2025/11/27 2025/12/07			2025/11/08 2025/11/18	2025/11/27 2025/12/07	0 days 0 days	0		1		I I	1		I I	1x Excavator, 1x dump true 1x Sheetpiling machine,	I I
104 105	Demolish & relocate wall and porch YLL796/B/5,5A	14 days		2025/12/11			2025/12/08	2025/12/21	10 days	0		1		I I			l I		I I
106	Demolish & relocate booth, metal frame YLL 796/B/16 Demolish & relocate wall YLL 796/B/17	14 days 14 days		2025/12/11 2025/12/11			2025/12/08	2025/12/21 2025/12/21	10 days 10 days	0		1		1	1		I I		I I
107	Relocate/Divert ex. Utilities	14 days		2025/12/21			2025/12/08	2025/12/21	0 days	0		1		I I	1		I I	<u> </u>	
108 109	CH.A0.00~CH.A100.00 Sheetpiling	130 days 48 days	2025/12/22		2025/12/22 2025/12/22		2025/12/22 2025/12/22	2026/04/30 2026/02/07	0 days 0 days	2	1	1		I I	1		I I		ng machine,1x Lorry Crane
110 111	Excavation and Lateral Support Ground and Edge Beams	48 days 44 days	2026/01/03	2026/02/19 2026/02/27			2026/01/03 2026/01/15	2026/02/19 2026/02/27	0 days 0 days	2		I I		1	1		I I	1x Excava	ator, 1x dump truck, 2x labour
112	Install precast portion (ground beam)	28 days	2026/01/15	2026/02/11	2026/01/15	2026/02/11	2026/01/15	2026/02/11	0 days	0		1		I I	I		I I	1x Lorry Cr	
113 114	Rebar Fixing Formwork Erection and Cast-in items	20 days 20 days	2026/01/29 2026/02/08				2026/01/29 2026/02/08	2026/02/17	0 days 0 days	1		I I		1	I I		 	3x rebar f	
115	Concreting	1 day	2026/02/18	2026/02/18	2026/02/18	2026/02/18	2026/02/18	2026/02/18	0 days	0		I		 			 		oncrete mixers pump truck
116 117	Walls Rebar Fixing	50 days 20 days	2026/02/19 2026/02/19		2026/02/19 2026/02/19			2026/04/09 2026/03/10	0 days 0 days	1		I		1	1		 	3x rel	bar fixers
118	Formwork Erection and Cast-in items	20 days	2026/03/21	2026/04/09	2026/03/21	2026/04/09	2026/03/21	2026/04/09	0 days	1					 				₃ 3x carpenters gang,concrete mixers,pump truck
119 120	Concreting Backfilling and Compaction	1 day 20 days	2026/03/31 2026/04/01	2026/04/20	2026/04/01	2026/04/20		2026/03/31 2026/04/20	0 days 0 days	0				 				· · · · · · · · · · · · · · · · · · ·	1x Excavator 1x dump truck
121 122	Removal of Sheetpiles Pedestrian Crossing no. 2	20 days 28 days	2026/04/11 2026/05/01	2026/04/30 2026/05/28		2026/04/30 2026/05/28	2026/04/11 2026/05/01	2026/04/30 2026/05/28	0 days 0 days	0								•	1x Sheetpiling machine, 1x Lorry Crane
123	Connection to ex. Stream	28 days	2026/05/01		2026/05/01			2026/05/28	0 days	0									
124 125	U-channels Facing stone	28 days 28 days	2026/05/01 2026/05/01					2026/05/28 2026/05/28	0 days 0 days	0		ļ ļ							Elevated Working Platform, builder
126	ABWF works	28 days	2026/05/01	2026/05/28	2026/05/01	2026/05/28	2026/05/01	2026/05/28	0 days	0		ļ ļ			į		i		
127 50	Bedding works	28 days	2026/05/01	2026/05/28	2026/05/01	2026/05/28	2026/05/01	2026/05/28	0 days	0		i		i	į		i	į	
51	Section II	820 days			2023/05/30			2026/07/27	0 days	0		1			-]
3	access date of Portion B section II (Tai Wo)	210 days 820 days	2023/05/30 2023/05/30					2023/12/25 2026/07/27	o day s	0							I		1
4	Site Establishment Initial Survey	129 days 15 days	2023/09/24 2023/12/25					2024/01/30 2024/01/08	0 days 0 days	0		*		I I	1		I I		1 1
7	Public Liaison and TTA	60 days	2023/09/24	2023/11/22	2023/09/24	2023/11/22	2023/09/24	2023/11/22	0 days	0		\ \ \ \ \ \ \		l I			I I		1 1
10	Initial Safety & Environmental measures Prepare and Accept Design and Method Statement	60 days 90 days	2023/11/23 2023/10/26				2023/11/23 2023/10/26	2024/01/21 2024/01/23	0 days 0 days	0							l I		1
12 13	Environmental Baseline Monitoring	15 days	2024/01/09	2024/01/23			2024/01/09	2024/01/23	0 days	0			Environmental Team				l I		
14	Setup of instrumentation and monitoring Condition Survey	15 days 15 days	2024/01/09 2024/01/09				2024/01/09 2024/01/09	2024/01/23	0 days 0 days	0		į.	Building Surveyor / St						
15 16	Freshwater Crab Translocation Plan Tree Survey	15 days 15 days	2024/01/09	2024/01/23			2024/01/09 2024/01/09	2024/01/23 2024/01/23	0 days 0 days	0			En vironmental Team - Arborist	Ecologist					
17	Establish access(es) to channels	15 days	2024/01/09	2024/01/23	2024/01/09	2024/01/23	2024/01/09	2024/01/23	0 days	0			Widening, making go	od or leasing of private land	may be required				
18 19	Guarding / Barrier / Hoarding UU detection	9 days 7 days	2024/01/22 2024/01/24					2024/01/30 2024/01/30	0 days 0 days	0		l li	1x lony crane, 3x lab Competent Person (l						
20	Site Clearance	7 days	2024/01/24	2024/01/30	2024/01/24	2024/01/30	2024/01/24	2024/01/30	0 days	0		l li	2x labour, 1 grab tru	k	į		i		
21	Drainage Channels Works (Dry Season Oct-Mar only) Demolish fences and temp. structure	574 days 9 days	2024/01/31 2024/01/31	2025/08/26	2024/01/31 2024/01/31			2026/07/27	0 days 0 days	0		l i			1		I	-	i I
23 24	Demolish & relocate hoarding, fencing YLL803 CH.A200~CH.A288.29	9 days	2024/01/31	2024/02/08	2024/01/31	2024/02/08	2024/01/31	2024/02/08	0 days	0		i i		i I	i		i	i i	
25	Sheetpiling (for non-open-cut portions)	69 days 45 days	2024/02/09 2024/02/09		2024/02/09 2024/02/09		2024/02/09 2024/02/09	2024/04/17 2024/03/24	0 days 0 days	1		i i		ling machine 1x lorry crane			I I		
26 27	Excavation and Lateral Support Base Slab	45 days 34 days	2024/02/18 2024/02/27				2024/02/18 2024/02/27	2024/04/02 2024/03/31	0 days 0 days	1		i i	1x Excav	ator, 1x dump truck, 2x lab o	ır j		I I	1	1
28	Rebar Fixing	26 days	2024/02/27	2024/03/23	2024/02/27	2024/03/23	2024/02/27	2024/03/23	0 days	1	1	I I	3x rebar fi		I I		I I	1	1
29 30	Formwork Erection and Cast-in items Concreting	26 days 1 day	2024/03/06 2024/03/14	2024/03/31 2024/03/14			2024/03/06 2024/03/14	2024/03/31 2024/03/14	0 days 0 days	0		1	3x carp e	nters rete mixers, pump truck	1		I I		
31	Walls	34 days	2024/03/15	2024/04/17	2024/03/15	2024/04/17	2024/03/15	2024/04/17	0 days	0	1	1	—	I I	1		I I	1	1
32	Rebar Fixing Formwork Erection and Cast-in items	26 days 26 days	2024/03/15 2024/03/23					2024/04/09 2024/04/17	0 days 0 days	1		1	3x reba	penters	I I		 	 	
34 35	Concreting No works for wet season	1 day	2024/03/31	2024/03/31	2024/03/31	2024/03/31	2024/03/31	2024/03/31	0 days	0		1	1 gang, c	oncrete mixers, pump truck	I I		I I		1
36	No works for wet season CH.A200~CH.A288.29 (continue)	183 days 39 days	2024/04/01 2024/10/01	2024/09/30 2024/11/08	2024/04/01 2024/10/01		2024/04/01 2024/10/01	2024/09/30 2024/11/08	0 days 0 days	9				!			 	!	
37 38	Backfilling and Compaction Removal of Sheetpiles	30 days 30 days	2024/10/01 2024/10/10	2024/10/30 2024/11/08				2024/10/30 2024/11/08	0 days 0 days	0					1x dump tru	ck,1x Excavator ine,1x Sheetpiling machir	e !		
39	Connection to ex. Channel at Outlet	20 days	2024/10/19	2024/11/07	2024/10/19	2024/11/07	2026/07/08	2026/07/27	627 days	0					hand the part of t				
40	CH.A100~CH.A200 Sheetpiling (for non-open-cut portions)	93 days 30 days	2024/10/19 2024/10/19	2025/01/19 2024/11/17	2024/10/19 2024/10/19		2024/10/19 2024/10/19	2025/01/19 2024/11/17	0 days 0 days	1				 	1x Sheet	■♥ piling machine, 1x lorry cr	ane		
42	Excavation and Lateral Support	30 days	2024/10/27	2024/11/25	2024/10/27	2024/11/25	2024/10/27	2024/11/25	0 days	1						vator, 1x dump truck, 2x la			
43	Base Slab Rebar Fixing	39 days 30 days	2024/11/04 2024/11/04		2024/11/04 2024/11/04		2024/11/04 2024/11/04	2024/12/12 2024/12/03	0 days 0 days	1				i	3x reb	ar fixers	i		i
45 46	Formwork Erection and Cast-in items Concreting	30 days	2024/11/13	2024/12/12	2024/11/13	2024/12/12	2024/11/13	2024/12/12	0 days	1		į.		İ	3x c	arpenters concrete mixers,pump tru	ck		
47	Concreting Walls	1 day 39 days	2024/11/22		2024/11/22 2024/11/23		2024/11/22 2024/11/23	2024/11/22 2024/12/31	0 days 0 days					i	 +		-	į	i i
48 49	Rebar Fixing Formwork Erection and Cast-in items	30 days 30 days			2024/11/23 2024/12/02		2024/11/23 2024/12/02	2024/12/22 2024/12/31	0 days 0 days	1		i i		i I		rebarfixers 3x carpenters	i	i i	
50	Concreting	1 day				2024/12/31			-	0		İ		1	,	ng, concrete mixers, pump	truck	1	1
	´T ask			Milestone	-	•	Rolled Up	Critical Task		lnactive	Milestone	Duratio	n-only	Start-only	_	Extern	al Milestone	Project Summary	
Revision.: 1.4	Citical rask			Summary			▼ Rolled Up		♦		Summary		Summary Rollup •	Finish-only		▼ Split		Group By Summary	•
	Progress			Rolled Up Ta	sk 🖁		Rolled Up	Progress		- Manual	Task 💠	Manual	Summary	External Ta	iks 🔷	Extern	al Tasks	Deadline	û
	•																		

											MENT WORKS				
ID	Task Name	Duration Start				Late Start	Late Finish	Total Slack	TRA Half 1	2023, Half 2 M J J A S O		2024, Half 1 F M A M J	2024, Half 2 J A S O N	D J F M	5, Half 1 2025, Half 2 2026, Half 1 2026, Half 2 2026, Half 1 2026, Half 2 2026, Half 2 2026, Half 2 2 2026, Ha
51 52	Backfilling and Compaction Removal of Sheetpiles	30 days 2024/12/ 30 days 2024/12/					2025/01/10 2025/01/19	0 days 0 days	0					1x dump truc	k Ix Excavator ne Ix Sheetpiling machine
53	CH.A19.69~ CH.A100	91 days 2024/12/					2025/01/19	0 days	0		I I		1 	The state of the s	▼
54	Sheetpiling (for non-open-cut portions)	28 days 2024/12/	/30 2025/01	/26 2024/12/30	2025/01/26	2024/12/30	2025/01/26	0 days	1		1		[[iling machine 1x lorry crane
55 56	Excavation and Lateral Support Base Slab	28 days 2025/01/ 39 days 2025/01/				2025/01/06 2025/01/13	2025/02/02 2025/02/20	0 days 0 days	1 0		į		 	1x Excav	rat or, 1x dump truck 2x labour
57	Rebar Fixing	30 days 2025/01/				2025/01/13	2025/02/20	0 days	1		į.			3x reba	arfixers
58	Formwork Erection and Cast-in items	30 days 2025/01/					2025/02/20	0 days	1				1 	3x ca	
59 60	Concreting Walls	1 day 2025/01/ 39 days 2025/02/				2025/01/31 2025/02/01	2025/01/31 2025/03/11	0 days 0 days	0				[[1 gang, co	oncrete mixers, pump truck
61	Rebar Fixing	30 days 2025/02/				2025/02/01	2025/03/02	0 days	1		į			3x i	rebar fixers
62	Formwork Erection and Cast-in items	30 days 2025/02/				2025/02/10	2025/03/11	0 days	1		į		İ	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	x carpenters
63 64	Concreting Backfilling and Compaction	1 day 2025/02/ 30 days 2025/02/				2025/02/19 2025/02/20	2025/02/19 2025/03/21	0 days 0 days	0				[[ng. concrete mixers pump truck _1x. dump truck, 1x. Excavator
65	Removal of Sheetpiles	30 days 2025/03/				2025/03/01	2025/03/21	0 days	0				[[1x lorry crane 1x Sheetpiling machine
66	900 pipe with flap valve	15 days 2025/03/				2025/03/17	2025/03/31	7 days	0		1			•	ħ
67 68	Box Culvert & Pedestrian Crossing ABWF works	22 days 2025/03/ 22 days 2025/03/				2025/03/10	2025/03/31 2025/03/31	0 days 0 days	0		i				Lorry Crane, carpenter, rebar fixer, concreting gang
69	Bedding works	22 days 2025/03/				2025/03/10	2025/03/31	0 days	0				[[
70	No works for wet season	148 days 2025/04/					2025/08/26	0 days	0		I I		 		
71 72	U-Channel Works CH.A0.00~CH.A16.40,900CU, L=16.40	41 days 2025/02/ 41 days 2025/02/				2025/02/20 2025/02/20	2025/04/01 2025/04/01	0 days 0 days			1		 		
73	Excavation and Lateral Support	30 days 2025/02/					2025/03/21	0 days	1		į				1x Excavator, 1x dump truck
74	Channel Formwork Erection	30 days 2025/03/					2025/04/01	0 days	1				 		2x carpenters
75 76	Concreting Drain Laying Works	1 day 2025/03/ 166 days 2025/03/					2025/03/13 2025/08/26	0 days 0 days	<u> </u>		I I		 	9 1	I gang, concrete mixers
77	CH.A16.40~ CH.A19.69, 900PC, B, L = 3.30, D = 1.5	21 days 2025/03/					2025/04/03	0 days			i i		 	+ +	
78	Excavation and Lateral Support	18 days 2025/03/				2025/03/14	2025/03/31	0 days	0		į				1x Excavator, 1x dump truck
79 80	Drain Laying Bedding and Backfilling	15 days 2025/03/ 9 days 2025/03/				2025/03/20 2025/03/23	2025/04/03 2025/03/31	0 days 0 days	0				1 		2x drainlayer
81	Reinstatement	9 days 2025/03/	/23 2025/03	/31 2025/03/23	2025/03/31	2025/03/23	2025/03/31	0 days	0		I I		I I		
82	No works for wet season	148 days 2025/04/	/01 2025/08	/26 2025/04/01	. 2025/08/26	2025/04/01	2025/08/26	0 days	0		1		[[I I	
52 53	Section	1155 days 2023/05/	/30 2026/07	7/27 2023/05/30	2026/07/27	2023/05/30	2026/07/27	0 days			İ		I		
2	access date of Portion C1 & C2	270 days 2023/05/					2024/02/23	0 days	0	1	1				
3	section III (Lin Fa Tei)	1155 days 2023/05/					2026/07/27	0 days	0				<u>. </u>		
5	Site Establishment Initial Survey	286 days 2023/09/ 14 days 2024/02/				2023/11/09 2024/02/23	2025/12/21 2024/03/07	46 days 0 days	0		1	*	 ▼ 	I I	
7	Public Liaison and TTA	90 days 2023/09/					2024/02/06	46 days	0	*				i	
8	Initial Safety & Environmental measures	60 days 2023/12/				2024/02/07	2024/04/06	46 days	0		,		l I	i i	
10	Prepare and Accept Design and Method Statement Environmental Baseline Monitoring	90 days 2023/10/ 15 days 2024/03/				2023/12/24 2024/03/08	2024/03/22 2024/03/22	59 days 0 days	0		I	Environmental Tea	∣ aim	I I	
13	Setup of instrumentation and monitoring	15 days 2024/03/					2024/03/22	0 days	0		1		[[I I	
14	Condition Survey	15 days 2024/03/				2024/03/08	2024/03/22	0 days	0		į	Building Surveyor		i	
15	Freshwater Crab Translocation Plan Archaeological Survey	15 days 2024/03/ 120 days 2024/03/				2024/03/08	2024/03/22 2025/12/21	0 days 534 days	0			Environmental Te	am - Ecologist Environmental Team - Acha	eologist	
17	Tree Survey	15 days 2024/03/					2024/03/22	0 days	0		I I	Arborist	TT I	1	
18	UU detection	15 days 2024/03/					2024/04/06	0 days	0		İ	Competent Per		I I	
20	Site Clearance Establish access(es) to channels	15 days 2024/03/ 15 days 2024/04/					2024/04/06 2024/04/21	0 days 0 days	0		į	2x labour, 1 gra Widening, n	nb truck Taking good or leasing of priva	te land may be required	d
21	Guarding / Barrier / Hoarding	20 days 2024/04/					2024/05/11	0 days	0				çrane, 3x labour, 1x welder		
22	Drainage Channels Works	807 days 2024/05/					2026/07/27	0 days			 	—	<u> </u>	ı	1
23	CH.A818.86~ CH.A700.00 Sheetpiling			0/04 2024/05/12 0/10 2024/05/12			2024/09/04 2024/06/10	0 days 0 days	1		1	15	 Sheetpiling machine, 1x lorry c	rane	
25	Excavation and Lateral Support	30 days 2024/05/	/22 2024/06	/20 2024/05/22	2024/06/20	2024/05/22	2024/06/20	0 days	1		i i		1x Excavator, 1x dump truck, 2x		
26 27	Ground and Edge Beams Install precast portion (ground beam)	54 days 2024/06/ 35 days 2024/06/				2024/06/01 2024/06/01	2024/07/24 2024/07/05	0 days 0 days	0		į	—	1x lorry crane, 2x labour	i	
28	Rebar Fixing	30 days 2024/06/				2024/06/01	2024/07/03	0 days	1				3x rebar fixers	i I	
29	Formwork Erection and Cast-in items	30 days 2024/06/	/25 2024/07	/24 2024/06/25	2024/07/24	2024/06/25	2024/07/24	0 days	1		I I	· 😽	3x carpenters		
30 31	Concreting Walls	1 day 2024/07/ 40 days 2024/07/				2024/07/05 2024/07/06	2024/07/05 2024/08/14	0 days	0		į	(1 gang, concret e mixers, p un	np truck	
32	Rebar Fixing	30 days 2024/07/				2024/07/06	2024/08/14	0 days 0 days	1		į		3x rebar fixers	i	
33	Formwork Erection and Cast-in items	30 days 2024/07/	/16 2024/08	/14 2024/07/16	2024/08/14	2024/07/16	2024/08/14	0 days	1				3x carpenters		
34 35	Concreting Rackfilling and Compaction	1 day 2024/07/					2024/07/26	0 days	0		1 1		1 gang, concrete mixers, 1x Excavator, 1x de		
36	Backfilling and Compaction Removal of Sheetpiles	30 days 2024/07/ 30 days 2024/08/				2024/07/27 2024/08/06	2024/08/25 2024/09/04	0 days 0 days	0		i i		1x Excavator, 1x di		
37	Relocate Septic Tank & Soakaway Pit	28 days 2024/08/	/15 2024/09	/11 2024/08/15	2024/09/11	2026/06/09	2026/07/06	663 days	4						
38 39	Animal Escape Ramp CH.A600.00~ CH.A700.00	21 days 2024/09/ 99 days 2024/08/				2026/07/07 2024/08/15	2026/07/27 2024/11/21	663 days	0					l I	
40	Sheetpiling	28 days 2024/08/					2024/11/21	0 days 0 days	1		I 		1x Sheetpiling	machine 1x lorry crane	
41	Excavation and Lateral Support	28 days 2024/08/	/24 2024/09	/20 2024/08/24	2024/09/20	2024/08/24	2024/09/20	0 days	1		i i			1x dump truck, 2x lab o	
42	Ground and Edge Beams Install precast portion (ground beam)	43 days 2024/09/ 30 days 2024/09/		0/14 2024/09/02 0/01 2024/09/02			2024/10/14 2024/10/01	0 days 0 days	0		į		1x lorry cra	ane. 2x lab our	
44	Rebar Fixing	25 days 2024/09/					2024/10/01	0 days	1				3x rebar f		
45	Formwork Erection and Cast-in items	25 days 2024/09/	/20 2024/10	/14 2024/09/20	2024/10/14	2024/09/20	2024/10/14	0 days	1		1 1		3x carpe	enters	
46 47	Concreting Walls	1 day 2024/09/ 33 days 2024/09/		/28 2024/09/28 //31 2024/09/2 9			2024/09/28 2024/10/31	0 days 0 days	0		I I		1 gang,con	crete mixers pump truc	ck
4 /	Rebar Fixing	25 days 2024/09/				2024/09/29	2024/10/31	0 days	1		į		3x reb	ar fixers	
49	Formwork Erection and Cast-in items	25 days 2024/10/	/07 2024/10	/31 2024/10/07	2024/10/31	2024/10/07	2024/10/31	0 days	1		i i		3x ca		A
50 51	Concreting Back filling and Compaction	1 day 2024/10/ 28 days 2024/10/		/15 2024/10/15 /12 2024/10/16		2024/10/15	2024/10/15 2024/11/12	0 days 0 days	0		I I			concrete mixers, pump t : Excavator, 1x dump tru	
52	Removal of Sheetpiles	28 days 2024/10/				2024/10/16	2024/11/12	0 days	0		1			1x Sheetpiling machine	
53	Protection to ex. Dongjiang Water Main	10 days 2024/11/	/03 2024/11	/12 2024/11/03	2024/11/12	2026/07/18	2026/07/27	622 days	0		į		ļ .	<u> </u>	
54 55	CH.A500.00~ CH.A600.00 Sheetpiling	92 days 2024/11, 25 days 2024/11,		2/02 2024/11/03 /27 2024/11/03			2025/02/02 2024/11/27	0 days 0 days	1		i			1x Sheetpiling machin	ne.1x lorry crane
56	Excavation and Lateral Support	25 days 2024/11/ 25 days 2024/11/				2024/11/03	2024/11/27	0 days	1		I I			1x Excavator, 1x dum	
57	Ground and Edge Beams	42 days 2024/11/	/19 2024/12	2/30 2024/11/19	2024/12/30	2024/11/19	2024/12/30	0 days			I I		ļ		
58 59	Install precast portion (ground beam) Rebar Fixing	28 days 2024/11/ 25 days 2024/11/		/16 2024/11/19 /22 2024/11/28			2024/12/16 2024/12/22	0 days 0 days	0		į		<u> </u>	1x lorry crane, 2x la	abour
60	Formwork Erection and Cast-in items			/30 2024/11/28			2024/12/22	0 days	1				7.	3x carpenters	
61	Concreting			/14 2024/12/14				-	0		1		 	1 gang, concrete m	nixers, pump truck
	´T ask		Mileston	e	•	Rolled Up (Critical Task		Inactive M	Milestone	Duration	-only	Start-only		External Milestone Project Summary
ision.: 1.4	Date: 25 September 2023 Critic al Task		Summar	/	-	▼ Rolled Up I	Milestone	♦	Inactive S	Summary	Manual S	Summary Rollup ◆	Finish-only	-	Split Group By Summary
	Progress		Rolled U	o Task		Rolled Up f	Progress		— Manual T	ask \diamondsuit	Manual 9	Summary •	External Tasks	♦	External Tasks Deadline +
	Trogress										mana an		External rapids	•	External radio

						CONTR		IG TAT CIVIL ENGINE DRAINAGE IMPROVE		LTD RKS AT YUEN LONG - STAGE 2		
	sk Name	Duration Start	Finish Early Start	· ·		Total Slack TF	RA Half 1	2023, Half 2 J A S O	N D	2024, Half 1 J F M A M J	2024, Half 2 J A S O N	2025, Half 1 2025, Half 2 2026, Half 1 2026, Half 2 D, J F M A M J J A S O N D, J F M A M J J A S O N D
62 63	Walls Rebar Fixing	33 days 2024/12/15 25 days 2024/12/15			2024/12/15 2025/01/1 2024/12/15 2025/01/0		1					3x rebar fixers
64	Formwork Erection and Cast-in items	25 days 2024/12/23			2024/12/23 2025/01/1		1			i		3x carpenters 1 gang, concrete mixers, pump truck
65 66	Concreting Backfilling and Compaction	1 day 2024/12/31 25 days 2025/01/01			2024/12/31 2024/12/3 2025/01/01 2025/01/2		-			i		T gardy concrete mixers pump truck
67	Removal of Sheetpiles	25 days 2025/01/09			2025/01/09 2025/02/0		0					1x Sheetpiling machine 1x lorry crane
68 69	Pedestrian & Vehicular Crossing no. 4 Demolish & relocate retaining wall YLL796/A/20-22	28 days 2025/01/17 30 days 2025/01/17			2026/06/30 2026/07/2 2025/01/17 2025/02/1		0			i		Temporary crossing
70	CH.A400.00~ CH.A500.00	92 days 2025/01/27			2025/01/27 2025/04/2					i		
71 72	Sheetpiling Excavation and Lateral Support	25 days 2025/01/27 25 days 2025/02/04			2025/01/27 2025/02/2 2025/02/04 2025/02/2							1x Sheetpiling machine 1x lorry crane 1x Excavator, 1x dump truck, 2x labour
73 74	Ground and Edge Beams	42 days 2025/02/12			2025/02/12 2025/03/2							1x lorry crane, 2x labour
75	Install precast portion (ground beam) Rebar Fixing	28 days 2025/02/12 25 days 2025/02/21			2025/02/12 2025/03/1 2025/02/21 2025/03/1		1			i		3x reb ar fixers
76 77	Formwork Erection and Cast-in items Concreting	25 days 2025/03/01 1 day 2025/03/09			2025/03/01 2025/03/2 2025/03/09 2025/03/0		1			i		3x carpenters 1 gang, concrete mixers pump truck
78	Walls	33 days 2025/03/10	2025/04/11 2025/03/10	2025/04/11	2025/03/10 2025/04/1	1 0 days				i		
79 80	Rebar Fixing Formwork Erection and Cast-in items	25 days 2025/03/10 25 days 2025/03/18			2025/03/10 2025/04/0 2025/03/18 2025/04/1	-	1			i i		3x rebar fixers
81	Concreting	1 day 2025/03/26	2025/03/26 2025/03/26	2025/03/26	2025/03/26 2025/03/2	5 0 days 0	0					1 gang, concrete mixers, pump truck
82	Backfilling and Compaction Removal of Sheetpiles	25 days 2025/03/27 25 days 2025/04/04			2025/03/27 2025/04/2 2025/04/04 2025/04/2		0			1		1x Excavator 1x dump truck
84	Pedestrian & Vehicular Crossing no. 3	28 days 2025/04/12	2025/05/09 2025/04/12	2025/05/09	2026/06/30 2026/07/2	7 444 days 4	4			1		Temporary crossing
85 86	Demolish & relocate retaining wall YLL796/A/14-15 CH.A300.00~ CH.A400.00	30 days 2025/04/12 92 days 2025/04/22			2025/04/12 2025/05/1 2025/04/22 2025/07/2	-						
87 88	Sheetpiling Excavation and Lateral Support	25 days 2025/04/22 25 days 2025/04/30			2025/04/22 2025/05/1 2025/04/30 2025/05/2	-	1					1x Sheetpiling machine 1x lorry crane 1x Excavator, 1x dump truck, 2x labour
89	Ground and Edge Beams	42 days 2025/05/08			2025/04/30 2025/05/20							
90 91	Install precast portion (ground beam) Rebar Fixing	28 days 2025/05/08 25 days 2025/05/17			2025/05/08 2025/06/0- 2025/05/17 2025/06/1	-	0					lx lorry crane, 2x labour
92	Formwork Erection and Cast-in items	25 days 2025/05/25	2025/06/18 2025/05/25	2025/06/18	2025/05/25 2025/06/1	8 0 days 1	1					¶ 3x carpenters
93 94	Concreting Walls	1 day 2025/06/02 33 days 2025/06/03			2025/06/02 2025/06/0 2025/06/03 2025/07/0		0					J gang, concrete mixers, pump truck
95	Rebar Fixing	25 days 2025/06/03	2025/06/27 2025/06/03	2025/06/27	2025/06/03 2025/06/2	7 0 days 1	1					3x rebar fixers
96 97	Formwork Erection and Cast-in items Concreting	25 days 2025/06/11 1 day 2025/06/19			2025/06/11 2025/07/0 2025/06/19 2025/06/1	-	0					3x carpenters 1 gang, concrete mixers, pump truck
98 99	Backfilling and Compaction Removal of Sheetpiles	25 days 2025/06/20 25 days 2025/06/28	2025/07/14 2025/06/20	2025/07/14	2025/06/20 2025/07/1- 2025/06/28 2025/07/2	4 0 days 0	0					1x Excavator, 1x dump truck 1x Sheetpiling machine, 1x lorry crane
100	Pedestrian Crossing no. 4	21 days 2025/06/26			2026/07/07 2026/07/2		3					Temporary crossing
101 102	Pedestrian & Vehicular Crossing no. 2 Demolish & relocate retaining wall YLL795/A/4-5	28 days 2025/07/06 30 days 2025/07/06			2026/06/30 2026/07/2 2025/07/06 2025/08/0		4					Temporary crossing
103	CH.A200.00~ CH.A300.00	92 days 2025/07/16	2025/10/15 2025/07/16	2025/10/15	2025/07/16 2025/10/1	5 0 days						
104 105	Sheetpiling Excavation and Lateral Support	25 days 2025/07/16 25 days 2025/07/24			2025/07/16 2025/08/0 2025/07/24 2025/08/1		1					1x Sheetpiling machine 1k lorry crane 1x Excavator, 1x dump truck, 2x lab our
106	Ground and Edge Beams	42 days 2025/08/01	. 2025/09/11 2025/08/01	2025/09/11	2025/08/01 2025/09/1	1 0 days				i		
107 108	Install precast portion (ground beam) Rebar Fixing	28 days 2025/08/01 25 days 2025/08/10			2025/08/01 2025/08/2 2025/08/10 2025/09/0		1			i		1x lorry crane 2x lab olu' 3x rebar fixers
109	Formwork Erection and Cast-in items	25 days 2025/08/18			2025/08/18 2025/09/1	-	1			i		3x carpenters \$\int_1\$ gang.concrete mixers pump truck
110 111	Concreting Walls	1 day 2025/08/26 33 days 2025/08/27	2025/08/26 2025/08/26 2025/09/28 2025/08/27		2025/08/26 2025/08/2 2025/08/27 2025/09/2					i i		I gang concrete mixers pump truck
112 113	Rebar Fixing Formwork Erection and Cast-in items	25 days 2025/08/27 25 days 2025/09/04			2025/08/27 2025/09/2 2025/09/04 2025/09/2		1					3x rebar fixers
114	Concreting	1 day 2025/09/12	2025/09/12 2025/09/12	2025/09/12	2025/09/12 2025/09/1	2 0 days 0	0			1		Figang, concrete mixers, pump truck
115 116	Backfilling and Compaction Removal of Sheetpiles	25 days 2025/09/13 25 days 2025/09/21			2025/09/13 2025/10/0 2025/09/21 2025/10/1					1		1x Excavator, 1x, dump truck
117	Pedestrian & Vehicular Crossing no. 1	28 days 2025/09/29	2025/10/26 2025/09/29	2025/10/26	2026/06/30 2026/07/2	7 274 days 4	4			1		Temporary crossing
118 119	CLP Cable Trough Animal Escape Ramps	21 days 2025/09/29 21 days 2025/09/29			2026/07/07 2026/07/2 2026/07/07 2026/07/2		0			1		
120	CH.B149.77~ CH.A200.00	45 days 2025/09/29			2025/09/29 2025/11/1	-				I I		X Sheetpil ng machine 1x lorry crane
121 122	Sheetpiling Excavation and Lateral Support	20 days 2025/09/29 16 days 2025/10/04			2025/09/29 2025/10/1 2025/10/04 2025/10/1	-	0					1x Excavator (1x dump truck, 2x labour
123 124	Ground and Edge Beams Rebar Fixing	25 days 2025/10/08 20 days 2025/10/08			2025/10/08 2025/11/0 2025/10/08 2025/10/2		0					3x reb ar fixers
125	Formwork Erection and Cast-in items	20 days 2025/10/13	2025/11/01 2025/10/13	2025/11/01	2025/10/13 2025/11/0	1 0 days 0	-					3x carpentiers
126 127	Concreting W alls	1 day 2025/10/18 25 days 2025/10/19			2025/10/18 2025/10/1 2025/10/19 2025/11/1		0					1 gang, concrete mixers, pump truck
128	Rebar Fixing	20 days 2025/10/19	2025/11/07 2025/10/19	2025/11/07	2025/10/19 2025/11/0	7 0 days 0	0					3x rebar fixers
130	Formwork Erection and Cast-in items Concreting	20 days 2025/10/24 1 day 2025/10/29			2025/10/24 2025/11/1 2025/10/29 2025/10/2	-	0					sx carpenters hard gang, concrete mixers, pump truck
131	Back filling and Compaction Removal of Sheetpiles	10 days 2025/10/30	2025/11/08 2025/10/30	2025/11/08	2025/10/30 2025/11/0 2025/11/02 2025/11/1	-						1x dump (truck 1x Excavator x Ix lorry crane, 1x Sheetpiling machine
132 133	CH.B100.00~ CH.B149.77	10 days 2025/11/02 45 days 2025/11/05	2025/12/19 2025/11/05	2025/12/19	2025/11/05 2025/12/1	9 0 days						•
134 135	Sheetpiling Excavation and Lateral Support	20 days 2025/11/05 16 days 2025/11/10	2025/11/24 2025/11/05 2025/11/25 2025/11/10		2025/11/05 2025/11/2 2025/11/10 2025/11/2		0					1x Sheetpiling machine, 1x lorry crane 1x lexcavator, 1x dump truck, 2x labour
136	Ground and Edge Beams	25 days 2025/11/14	2025/12/08 2025/11/14	2025/12/08	2025/11/14 2025/12/0	8 0 days						
137 138	Rebar Fixing Formwork Erection and Cast-in items	20 days 2025/11/14 20 days 2025/11/19			2025/11/14 2025/12/0 2025/11/19 2025/12/0	-						2x carpenters
139	Concreting	1 day 2025/11/24	2025/11/24 2025/11/24	2025/11/24	2025/11/24 2025/11/2	4 0 days 0	-					1 g ang, concrete mixers pump truck
140 141	Walls Rebar Fixing	25 days 2025/11/25 20 days 2025/11/25			2025/11/25 2025/12/1 2025/11/25 2025/12/1		0					
142 143	Formwork Erection and Cast-in items	20 days 2025/11/30 1 day 2025/12/05			2025/11/30 2025/12/1 2025/12/05 2025/12/0		0					2x carpenters [Section 2] gang, concrete mixers, pump truck
144	Concreting Back filling and Compaction	10 days 2025/12/06	2025/12/15 2025/12/06	2025/12/15	2025/12/06 2025/12/1	5 0 days 0	0					👗 1x dump truck, 1x Excavator
145 146	Removal of Sheetpiles Demolition of pedestrian crossing	10 days 2025/12/09 30 days 2025/12/12			2025/12/09 2025/12/1 2025/12/12 2026/01/1	-						1x lorry crane 1x Sheetpiling machine
147	CH.B0.00~CH.B100.00	92 days 2025/12/22	2 2026/03/23 2025/12/22	2026/03/23	2025/12/22 2026/03/2	3 0 days						
148 149	Sheetpiling Excavation and Lateral Support	25 days 2025/12/22 25 days 2025/12/30			2025/12/22 2026/01/1 2025/12/30 2026/01/2		1					1x Sheetpiling machine 1x lorry/crane 1x Excavator, 1x dump truck, 2x lab our
150	Ground and Edge Beams	42 days 2026/01/07	2026/02/17 2026/01/07	2026/02/17	2026/01/07 2026/02/1	7 0 days						
151 152	Install precast portion (ground beam) Rebar Fixing	28 days 2026/01/07 25 days 2026/01/16	2026/02/03 2026/01/07 2026/02/09 2026/01/16		2026/01/07 2026/02/0 2026/01/16 2026/02/0		1					1x lorry crane, 2x labour
	´T ask		Milestone	*	Rolled Up Critical Task		Inactive Milestone		Dura	tion-only	Start-only	External Milestone Project Summary
evision.: 1.4	Date: 25 September 2023 Critical Task		Summary	•	Rolled Up Milestone	♦	Inactive Summary		Man	ual Summary Rollup 🔷	Finish-only	Split Group By Summary
	Progress		Rolled Up Task		Rolled Up Progress		— Manual Task	♦	Man	ual Summary •	External Tasks	♦ External Tasks Deadline ♣
	D/S},size+type,bedding,length(m),depth(m) /S}~{D/S},size+type,length(m)							Page 4				

Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m)

									CONT	RACT NO. D	C/2022/02 - DRAINA	GE IMPROVEMI	IENT WORKS	AT YUEN LONG -	STAGE 2							
	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish		RA Half 1	M L L	2023, Half 2 A S O	N D J	2024, Half 1 F M A		2024, Half 2 J A S O	N D J	2025, Half 1 F M A	M J	2025, Half 2 A S O N D	2026, Ha	A M J J A S O N D
153 154	Formwork Erection and Cast-in items Concreting	1 day 2	026/02/01	2026/02/17 2026/02/01	2026/01/24 2026/02/01	2026/02/17 2026/02/01	2026/01/24 2026/02/01	2026/02/01	o aa, s	0									i		2x carpen	ters ete mixers pump truck
155 156	Walls Rebar Fixing	-		2026/03/06 2026/02/26	2026/02/02 2026/02/02	2026/03/06 2026/02/26			0 days 0 days	1	ļ ļ		1				1		1		2x rebai	fixers
157 158	Formwork Erection and Cast-in items Concreting	25 days 2	026/02/10	2026/03/06 2026/02/18	2026/02/10 2026/02/18	2026/03/06 2026/02/18	2026/02/10	2026/03/06	0 days 0 days	1			!				 		 		2x carp	penters mixers, 1 gang, pump truck
159	Backfilling and Compaction	25 days 2	026/02/19	2026/03/15	2026/02/19	2026/03/15	2026/02/19	2026/03/15	0 days	0							İ		İ		1x Ex	cavator 1x dump truck
160 161	Removal of Sheetpiles Pedestrian Crossing no. 3	-		2026/03/23 2026/03/27	2026/02/27 2026/03/07	2026/03/23 2026/03/27	2026/02/27	2026/03/23 2026/07/27	0 days 122 days	3			į		į		į		į		,	lorry crane,1x Sheetpiling machine mporary crossing
162	Demolish & relocate AFCD Weir & pedestrian crossing	30 days 2	026/03/07	2026/04/05	2026/03/07	2026/04/05		2026/04/05	0 days	0	į		i		į		i		i			
163 164	Demolish & relocate retaining wall YLL796/A/5-6 CH.A100.00~ CH.B149.77	-		2026/04/05 2026/04/30	2026/03/07 2026/03/17	2026/04/05 2026/04/30	2026/03/07 2026/03/17	2026/04/05 2026/04/30	0 days 0 days	0	İ		1		1		1		I I			
165 166	Sheetpiling Excavation and Lateral Support	-		2026/04/05	2026/03/17 2026/03/22	2026/04/05 2026/04/06	2026/03/17 2026/03/22	2026/04/05 2026/04/06	0 days 0 days	0			1				1 1		I I			lx Sheetpiling machine,1x lorry crane lx Excavator,1x dump truck,2x labour
167	Ground and Edge Beams	25 days 2	026/03/26	2026/04/19	2026/03/26	2026/04/19	2026/03/26	2026/04/19	0 days		l l		i		1		1		I I		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	▼
168 169	Rebar Fixing Formwork Erection and Cast-in items	-		2026/04/14	2026/03/26 2026/03/31	2026/04/14 2026/04/19	2026/03/26 2026/03/31	2026/04/14 2026/04/19	0 days 0 days	0			!						!			2x rebar fixers 2x carpenters
170 171	Concreting Walls			2026/04/05 2026/04/30	2026/04/05 2026/04/06	2026/04/05 2026/04/30			0 days 0 days	0							į				9	I gang, concrete mixers, pump truck ■■■
172	Rebar Fixing	20 days 2	026/04/06	2026/04/25	2026/04/06	2026/04/25	2026/04/06	2026/04/25	0 days	0	į		į		į		į		i			2x rebar fixers
173 174	Formwork Erection and Cast-in items Concreting			2026/04/30 2026/04/16	2026/04/11 2026/04/16	2026/04/30 2026/04/16		2026/04/30 2026/04/16	0 days 0 days	0	1		1		1		1		I I			2x carpenters 1 gang.concrete mixers, pump truck
175 176	Back filling and Compaction Removal of Sheetpiles	-		2026/04/26 2026/04/29	2026/04/17 2026/04/20	2026/04/26 2026/04/29	2026/04/17 2026/04/20		0 days 0 days	0	ļ.		1		1 1				I I			1x dump trúck 1x Excavator 1x lorry crane 1x Sheetpiling machine
177	Pedestrian Crossing no. 2	21 days 2	026/04/23	2026/05/13	2026/04/23	2026/05/13	2026/07/07	2026/07/27	75 days	3			1		1		I I		I I		1	Temporary crossing
178 179	CH.A0.00~CH.A100.00 Sheetpiling	-		2026/07/23 2026/05/17	2026/04/23 2026/04/23	2026/07/23 2026/05/17			0 days 0 days	1							!		 		1	1x Sheetpiling machine 1x lorry crane
180 181	Excavation and Lateral Support	25 days 2	026/05/01	2026/05/25	2026/05/01	2026/05/25	2026/05/01 2026/05/09	2026/05/25	0 days 0 days	1											İ	1x Exçavator, 1x dump truck, 2x labour
182	Ground and Edge Beams Install precast portion (ground beam)	28 days 2	026/05/09	2026/06/19 2026/06/05	2026/05/09 2026/05/09	2026/06/19 2026/06/05	2026/05/09	2026/06/05	0 days	0							i		İ		i I	1x lorry crane 2x labour
183 184	Rebar Fixing Formwork Erection and Cast-in items			2026/06/11 2026/06/19	2026/05/18 2026/05/26	2026/06/11 2026/06/19	2026/05/18 2026/05/26	2026/06/11 2026/06/19	0 days 0 days	1	İ		i		i		i		i i		1	2x rebar fixers 2x carpenters
185 186	Concreting W alls	1 day 2	026/06/03	2026/06/03 2026/07/06	2026/06/03 2026/06/04	2026/06/03 2026/07/06	2026/06/03	2026/06/03 2026/07/06	0 days 0 days	0	1				1		I		I I		1	1 gang, concrete mixers, pump truck
187	Rebar Fixing	25 days 2	026/06/04	2026/06/28	2026/06/04	2026/06/28	2026/06/04	2026/06/28	0 days	1					!		!		 		1	2x rebar fixers
188 189	Formwork Erection and Cast-in items Concreting			2026/07/06 2026/06/20	2026/06/12 2026/06/20	2026/07/06 2026/06/20		2026/07/06 2026/06/20	0 days 0 days	0									1			2x carpenters concrete mixers, 1 gang, pump truck
190 191	Backfilling and Compaction	25 days 2	026/06/21	2026/07/15	2026/06/21	2026/07/15	2026/06/21	2026/07/15	0 days	0									1		İ	1x Excavator, 1x dump truck 1x lorry crane, 1x Sheetpiling n
191	Removal of Sheetpiles Pedestrian Crossing no. 1			2026/07/23	2026/06/29 2026/07/07	2026/07/23	2026/06/29 2026/07/07	2026/07/23	0 days 0 days	0			į		į		į		į			Temporary crossing
193 194	U-channels Facing stone	-		2026/07/27 2026/07/27	2026/07/07 2026/07/07	2026/07/27 2026/07/27	2026/07/07	2026/07/27 2026/07/27	0 days 0 days	0	İ		i		İ		i I		i I		i I	Elevated Working Platform, b
195	ABWF works	21 days 2	026/07/07	2026/07/27	2026/07/07	2026/07/27	2026/07/07	2026/07/27	0 days	0			1		1		1					-
196 54	Bedding works	21 days 2	026/07/07	2026/07/27	2026/07/07	2026/07/27	2026/07/07	2026/07/27	0 days	0			!				ļ					
55 : 2	Section VI access date of Portion C3	-		2025/08/26 2023/05/29	2023/05/29 2023/05/29	2025/08/26 2023/05/29	2023/05/29 2023/05/29		0 days 0 days	0	05/29		1		1		İ		i	•		
3	section VI (Lin Fa Tei - Kam Sheung Road) Site Establishment	-		2025/08/26 2024/01/13	2023/05/30 2023/09/24	2025/08/26 2024/01/13			0 days 0 days	0							- · · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		i	i I
5	Initial Survey	30 days 2	023/10/26	2023/11/24	2023/10/26	2023/11/24	2023/10/26	2023/11/24	0 days	0	1	1 +			1		1 1		 		1	1 1
7 8	Public Liaison Initial Safety & Environmental measures	-		2023/11/07 2024/01/06	2023/09/24 2023/11/08	2023/11/07 2024/01/06	2023/10/01 2023/11/15	2023/11/14 2024/01/13	7 days 7 days	0					1		 		 		1	
10 11	Prepare and Accept Design and Method Statement Setup of instrumentation and monitoring	60 days 2	023/10/26	2023/12/24	2023/10/26	2023/12/24	2023/11/15	2024/01/13	20 days 0 days	0												
12	Tree Survey	25 days 2	023/11/25	2023/12/19	2023/11/25	2023/12/19	2023/11/25	2023/12/19	0 days	0			Arbor		į		į					
13 14	UU detection Site Clearance			2023/12/19 2024/01/13	2023/11/25 2023/12/20	2023/12/19 2024/01/13	2023/11/25 2023/12/20	2023/12/19 2024/01/13	0 days 0 days	0	i			etent Person (UU) 2x labour, 1 grab tru			i i		İ			i I
15 16	Temporary Traffic Arrangement Application of XP			2024/01/13 2023/12/14	2023/05/29 2023/05/29	2024/01/13 2023/12/14	2023/05/29 2023/05/29	2024/01/13 2023/12/14	0 days 0 days	0	*		1		1				I I		1	
17	Submission of TTA and Arrange TMLG	200 days 2	023/05/29	2023/12/14	2023/05/29	2023/12/14	2023/05/29	2023/12/14	0 days	0							1		1			I I
18 19	Approval of TTA Drain Laying Works	-		2024/01/13 2025/08/26	2023/12/15 2024/01/14	2024/01/13 2025/08/26	2023/12/15 2024/01/14	2024/01/13 2026/07/27	0 days 0 days	0										 -		
20 21	LFT.D5~NKT Channel,1650PCB,L=14.5,D=3.54 TTA Implementation			2024/02/23 2024/01/17	2024/01/14 2024/01/14	2024/02/23 2024/01/17	2024/01/14 2024/01/14		0 days 0 days	0			#								i i	
22	Breaking Ground	8 days 2	024/01/16	2024/01/23	2024/01/16	2024/01/23	2024/01/16	2024/01/23	0 days	0	i		1 1 1000	1x Excavator with	breaker		i		i		1	i I
23	Excavation and Lateral Support Drain Laying	-		2024/01/31 2024/02/06	2024/01/22 2024/01/30	2024/01/31 2024/02/06			0 days 0 days	0				1x Excavator 3x drainlayer, 2	x lab our		l I		i I		1	1
25 26	Bedding and Backfilling Manhole Construction	-		2024/02/10	2024/02/05 2024/02/09	2024/02/10 2024/02/16			0 days 0 days	0				1x Ex cavator 3x carpenter	2x lab our		I I		 		1	
27	Reinstatement	5 days 2	024/02/17	2024/02/21	2024/02/17	2024/02/21	2024/02/17	2024/02/21	0 days	0					or, 1x dump truc	k			1			
28 29	TTA Removal Proposed flap valve			2024/02/23 2024/03/15	2024/02/22 2024/02/24	2024/02/23 2024/03/15	2024/02/22 2026/07/07		0 days 864 days	0				5					1		İ	
30 31	LFT.D4~ LFT.D5,1650PC,B,L=50.95,D=3.417 Stage 1	-		2024/06/10 2024/04/17	2024/02/24 2024/02/24	2024/06/10 2024/04/17	2024/02/24 2024/02/24		0 days 0 days								i		İ		i I	
32	TTA Implementation	4 days 2	024/02/24	2024/02/27	2024/02/24	2024/02/27	2024/02/24	2024/02/27	0 days	0			i	* -			i I		i i		1	1
33 34	Breaking Ground Excavation and Lateral Support	-		2024/03/06 2024/03/16	2024/02/26 2024/03/05	2024/03/06 2024/03/16		2024/03/06 2024/03/16	0 days 0 days	2				1x Exca			I		1			1
35 36	Drain Laying Bedding and Backfilling	10 days 2	024/03/15	2024/03/24 2024/03/30	2024/03/15 2024/03/23	2024/03/24 2024/03/30	2024/03/15	2024/03/24	0 days 0 days	2			!		ainlayer, 2x labo xcavator	our	 		 		I	
37	Manhole Construction	10 days 2	024/03/29	2024/04/07	2024/03/29	2024/04/07	2024/03/29	2024/04/07	0 days	2				3x	carpenter, 2x la							
38 39	Reinstatement TTA Removal			2024/04/15	2024/04/08 2024/04/16	2024/04/15 2024/04/17	2024/04/08		0 days 0 days	0				1:	x Excavator, 1x	aump truck					i	
40 41	Stage 2 TTA Implementation	54 days 2	024/04/18		2024/04/18 2024/04/18	2024/06/10 2024/04/21		2024/06/10	0 days 0 days	0				+			i		i		i I	i I
42	Breaking Ground	10 days 2	024/04/20	2024/04/29	2024/04/20	2024/04/29	2024/04/20	2024/04/29	0 days	2			i		1x Excavator		i I		i		I I	1
43 44	Ex cavation and Lateral Support Drain Laying	-		2024/05/09 2024/05/17	2024/04/28 2024/05/08	2024/05/09 2024/05/17	2024/04/28 2024/05/08		0 days 0 days	2			1	I	1x Excavato 3x drainla	or yer, 2x lab our	I		I I		1	1
45	Bedding and Backfilling	8 days 2	024/05/16	2024/05/23	2024/05/16	2024/05/23	2024/05/16	2024/05/23	0 days	0			1		1x Excav	-	I I		I I		-	
46 47	Manhole Construction Reinstatement	8 days 2	024/06/01		2024/05/22 2024/06/01	2024/05/31 2024/06/08		2024/06/08	o day s	0						enter, 2x rabour cavator, 1x dump truck			1		1	
48	TTA Removal	2 days 2			2024/06/09	2024/06/10			0 days	0	- MAII4		P ::		*	Charl I		-			Duning to C	
Revision.: 1.4	Task Date: 25 September 2023 Critical Task			Milestone Summary	•		•	Critical Task Milestone			e Milestone e Summary		-Duration - Manual Su	only Jmmary Rollup 🔷		Start-only Finish-only	_	Exte	rnal Milestone		Project Summary Group By Summary	▼
	Progress			Rolled Up Tas	k 📕	· ·	Rolled Up		-	- Manua	*	************************************	Manual St	, ,		External Tasks	♦	⊋ Spiii Exte	rnal Tasks			⊕
	1 5													-								

									CON	TRACT NO. DO	C/2022/02 - DR	RAINAGE IMPRO	OVEMENT WORKS	AT YUEN LONG - STA	ΓAGE 2						
ID Task N	lame	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish		TRA Half 1		2023, Ha	alf 2	2024, Half 1		2024, Half 2 A S O N	2025, Half 1	М	2025, Half 2	2026, Half 1 J F M A M	2026, Half 2 J J A S O N
	LFT.D3a~LFT.D4,1650PC,B,L=22.88,D=3.418	50 days	2024/06/11	2024/07/30				2024/07/30	0 days	A	161 7 7	1019	V IN I U	, , , , , , , , , , , , , , , , , , ,	***	73 U IN	I I IVI A	INI]	, A , J , O , N , D		, , , M 3 U N
50 51	TTA Implementation Breaking Ground	4 days 8 days	2024/06/11	2024/06/14	2024/06/11 2024/06/13	2024/06/14 2024/06/20		2024/06/14 2024/06/20	0 days 0 days	0	1		1		1x Excav	vator with breaker	I I			ı	1
52	Excavation and Lateral Support	10 days	2024/06/19	2024/06/28	2024/06/19	2024/06/28	2024/06/19	2024/06/28	0 days	2	1		1		1x Exca		1	1		ı	I I
53 54	Drain Laying Bedding and Backfilling	10 days 8 days	2024/06/27	2024/07/06 2024/07/12	2024/06/27 2024/07/05	2024/07/06 2024/07/12		2024/07/06 2024/07/12	0 days 0 days	2						rainlayer, 2x labour Excavator		į		l .	
55	Manhole Construction	10 days	2024/07/11	2024/07/20	2024/07/11	2024/07/20	2024/07/11	2024/07/20	0 days	2	1		1			campenter, 2x labour	 	I		l .	1
56 57	Reinstatement TTA Removal	8 days 2 days	2024/07/21	2024/07/28	2024/07/21 2024/07/29	2024/07/28		2024/07/28 2024/07/30	0 days 0 days	0	į		į		•	1x Excavator, 1x dump tru	ck '	į		d.	i I
58 L	LFT. D3 ~ LFT. D3 a, 1650 PC, B, L = 13.9, D = 3.418	42 days		2024/09/10		2024/09/10	2024/07/31	2024/09/10	0 days		į		į				İ	į		1	
59 60	TTA Implementation Breaking Ground	4 days 8 days	2024/07/31 2024/08/02	2024/08/03	2024/07/31 2024/08/02	2024/08/03		2024/08/03	0 days 0 days	0			i i		· ·	1x Excavator with break	ker .				
61	Excavation and Lateral Support	10 days	2024/08/08	2024/08/17	2024/08/08	2024/08/17		2024/08/17	0 days	1			1			1x Excavator					
62 63	Drain Laying Bedding and Backfilling	8 days	2024/08/16	2024/08/23	2024/08/16	2024/08/23 2024/08/27		2024/08/23 2024/08/27	0 days 0 days	0	i i		i		l I	3x drainlayer, 2x labo	our				
64	Manhole Construction	6 days 8 days	2024/08/22	2024/08/27				2024/08/27	0 days	0	1				[3x carpenter, 2x lab	our			ı	
65	Reinstatement	6 days	2024/09/03	2024/09/08	2024/09/03	2024/09/08		2024/09/08	0 days	0	1		1		[1x Excavator, 1x d	lump truck			J	
66 67 L	TTA Removal LFT.D2~LFT.D3,1650PC,B,L=39,D=3.34	2 days 99 days	2024/09/09 2024/09/11	2024/09/10 2024/12/18				2024/09/10 2024/12/18	0 days 0 days	-	1		1		 	1	- -			ı	
68	Stage 1	54 days	2024/09/11	2024/11/03	2024/09/11			2024/11/03	0 days		1		1		į.		1			ı	1
69 70	TTA Implementation Breaking Ground	4 days 10 days	2024/09/11 2024/09/13	2024/09/14	2024/09/11 2024/09/13	2024/09/14		2024/09/14 2024/09/22	0 days 0 days	2	I.		1		I I	1x Excavator w	ıith breaker	1		l .	1
71	Excavation and Lateral Support	12 days	2024/09/21	2024/10/02	2024/09/21	2024/10/02	2024/09/21	2024/10/02	0 days	2			į		į	1x Excavator	· į	į		1	
72 73	Drain Laying Bedding and Backfilling	10 days 8 days	2024/10/01 2024/10/09	2024/10/10		2024/10/10 2024/10/16		2024/10/10	0 days 0 days	2	į		i i		į	3x drainlay 1x Excava					
74	Manhole Construction	10 days	2024/10/15	2024/10/24	2024/10/15	2024/10/24	2024/10/15	2024/10/24	0 days	2						3x carpe	enter, 2x labour	1			
75 76	Reinstatement TTA Removal	8 days	2024/10/25	2024/11/01 2024/11/03				2024/11/01	0 days	0			1		 	1x Exca	avat or,1x dump truck	1			
77	Stage 2	2 days 45 days	2024/11/02 2024/11/04	2024/11/03		2024/11/03 2024/12/18		2024/11/03 2024/12/18	0 days 0 days	0			1) —	▼ !	1			
78	TTA Implementation	4 days	2024/11/04	2024/11/07	2024/11/04	2024/11/07	2024/11/04	2024/11/07	0 days	0	1		1			Š ., e	xcavator with breaker	 			
79 80	Breaking Ground Excavation and Lateral Support	8 days 10 days	2024/11/06	2024/11/13	2024/11/06 2024/11/12	2024/11/13 2024/11/21		2024/11/13 2024/11/21	0 days 0 days	1	1		1		I I	1001	xcayator with breaker Excavator	I I			I I
81	Drain Laying	8 days		2024/11/27	2024/11/20			2024/11/27	0 days	1	1		1		I I		x drainlayer, 2x labour			ı	
82	Bedding and Backfilling Manhole Construction	7 days 9 days	2024/11/26 2024/12/01	2024/12/02 2024/12/09	2024/11/26 2024/12/01	2024/12/02 2024/12/09		2024/12/02 2024/12/09	0 days 0 days	1	1		1				1x Excavator 3x carpenter, 2x labour	1		ı	
84	Reinstatement	7 days	2024/12/10	2024/12/16	2024/12/10	2024/12/16	2024/12/10	2024/12/16	0 days	0	i		i		i I		1x Excavator, 1x dump truc	ck		ı	1
85 86 L	TTA Removal LFT.D1b~LFT.D2,1650PC,B,L=45.56,D=3.34	2 days 108 days	2024/12/17	2024/12/18	2024/12/17 2024/12/19			2024/12/18	0 days 0 days	0	į		į		į		<u> </u>	į		1	
87	Stage 1	54 days			2024/12/19			2025/02/10	0 days						į						
88	TTA Implementation	4 days	2024/12/19	2024/12/22	2024/12/19	2024/12/22		2024/12/22	0 days	0	i		i		I I		1x Excavator with break	l l			
90	Breaking Ground Excavation and Lateral Support	10 days 12 days	2024/12/21 2024/12/29	2024/12/30 2025/01/09		2024/12/30 2025/01/09		2024/12/30 2025/01/09	0 days 0 days	2	l I				l I		1x Excavator	kei			
91	Drain Laying	10 days	2025/01/08	2025/01/17				2025/01/17	0 days	2	1				l I		3x drainlayer, 2x labo	our		ı	
92	Bedding and Backfilling Manhole Construction	8 days 10 days	2025/01/16	2025/01/23 2025/01/31	2025/01/16 2025/01/22	2025/01/23 2025/01/31		2025/01/23 2025/01/31	0 days 0 days	2	I I		1		[1x Excavator 3x carpenter 2x la	ab our ∣		J	
94	Reinstatement	8 days	2025/02/01	2025/02/08	2025/02/01	2025/02/08	2025/02/01	2025/02/08	0 days	0	1		1		I I		1x Excavator, 1x	c dump truck		J	
95 96	TTA Removal Stage 2	2 days 54 days	2025/02/09 2025/02/11	2025/02/10 2025/04/05		2025/02/10 2025/04/05		2025/02/10 2025/04/05	0 days 0 days	0	1				į.		<u> </u>			l .	1
97	TTA Implementation	4 days	2025/02/11	2025/02/14	2025/02/11	2025/02/14	2025/02/11	2025/02/14	0 days	0	1		1		I I		<u> </u>			l .	
98	Breaking Ground Excavation and Lateral Support	10 days 12 days	2025/02/13	2025/02/22 2025/03/04	2025/02/13	2025/02/22 2025/03/04		2025/02/22 2025/03/04	0 days 0 days	2	į		i		į		1x Excavator			ı	i I
100	Drain Laying	10 days	2025/03/03	2025/03/04	2025/03/03	2025/03/04		2025/03/12	0 days	2			ļį ļ		į		3x drainla	ayer 2x labour		1	
101 102	Bedding and Backfilling	8 days 10 days	2025/03/11 2025/03/17	2025/03/18 2025/03/26		2025/03/18 2025/03/26		2025/03/18 2025/03/26	0 days 0 days	0					1		1x Excav	vator penter, 2x labour			
103	Manhole Construction Reinstatement	8 days	2025/03/17	2025/05/26	2025/03/17	2025/03/26		2025/03/26	0 days	0	i		i		I I			xcavator, 1x dum			
104 105 L	TTA Removal	2 days	2025/04/04	2025/04/05	2025/04/04	2025/04/05		2025/04/05	0 days	0	i i		i		l L		<u> </u>				
106	LFT.D1a~LFT.D1b,1650PC,B,L=25.59,D=3.411 TTA Implementation	53 days 4 days	2025/04/06	2025/05/28	2025/04/06 2025/04/06	2025/05/28 2025/04/09	2025/04/06 2025/04/06	2025/05/28 2025/04/09	0 days 0 days	0	1							_			
107	Breaking Ground	10 days	2025/04/08	2025/04/17	2025/04/08	2025/04/17		2025/04/17	0 days	0			1		[[x Excavator with	breaker	ı	
108 109	Excavation and Lateral Support Drain Laying	12 days 9 days	2025/04/16	2025/04/27	2025/04/16	2025/04/27 2025/05/04		2025/04/27 2025/05/04	0 days 0 days	2	1		1		I I			1x Excavator 3x drainlayer 2	x labour	ı	
110	Bedding and Backfilling	8 days	2025/05/03	2025/05/10	2025/05/03	2025/05/10	2025/05/03	2025/05/10	0 days	1	1		1		ĺ			1x Excavator		l .	1
111 112	Manhole Construction Reinstatement	10 days 8 days	2025/05/09	2025/05/18		2025/05/18		2025/05/18	0 days 0 days	2	I.		1		I I		I I	3x carpente	r,2x labour :or,1x dump truck	l .	1
113	TTA Removal	2 days	2025/05/27	2025/05/28				2025/05/28	0 days	0			i i		į		İ	TX EXCUSAL	Isings damp track	1	
114 L 115	LFT.D1~LFT.D1a,1650PC,B,L=5.65,D=3.411 TTA Implementation	32 days 4 days	2025/05/29 2025/05/29	2025/06/29 2025/06/01	2025/05/29 2025/05/29			2025/06/29 2025/06/01	0 days 0 days									*			,
116	Breaking Ground	7 days	2025/05/29	2025/06/01		2025/06/01		2025/06/01	0 days	0							i I	888 7	ator with breaker		
117	Excavation and Lateral Support	7 days	2025/06/05	2025/06/11	2025/06/05	2025/06/11		2025/06/11	0 days	1			1		 		1	1x Exca	vator inlaver. 2x labour		
118 119	Drain Laying Bedding and Backfilling	7 days 4 days	2025/06/10	2025/06/16	2025/06/10 2025/06/15	2025/06/16 2025/06/18		2025/06/16 2025/06/18	0 days 0 days	0			1					3x dra 1x Exc	, ,		I I
120	Manhole Construction	7 days	2025/06/17	2025/06/23	2025/06/17	2025/06/23	2025/06/17	2025/06/23	0 days	0			1					~ 1	rpenter, 2x labour		
121 122	Reinstatement TTA Removal	4 days 2 days		2025/06/27	2025/06/24 2025/06/28			2025/06/27 2025/06/29	0 days 0 days	0	1		1		 		I I	Tx F:	xcavator,1x dump truck		I I
123	CCTV inspection and T&C	28 days	2025/06/30	2025/07/27	2025/06/30	2025/07/27	2025/06/30	2025/07/27	0 days	4			1		 		I I	***************************************	.	ı	
124 F	Final Reinstatement	30 days	2025/07/28	2025/08/26	2025/07/28	2025/08/26	2025/07/28	2025/08/26	0 days	4			1		1		I I	i I		ı	
57 Section		1095 days			2023/05/30			2026/07/27	0 days		1				1		1	1		_	1
	ess date of Portion D tion IV (Ha Che)	210 days 1095 days		2023/12/25 2026/05/28				2023/12/25 2026/05/28	0 days 0 days	0	Ţ				İ		i				:
	e Establishment	191 days			2023/05/30			2026/05/28	0 days			-			_			-			,
	Initial Survey Public Liaison and TTA	21 days 80 days		2024/01/14		2024/01/14		2024/01/14	0 days	0		<u></u>	<u> </u>		1						
	Public Liaison and TTA Initial Safety & Environmental measures	60 days	2023/09/24	2023/12/12 2024/02/10		2023/12/12 2024/02/10		2023/12/21 2024/02/19	9 days 9 days	0								1			1
	Prepare and Accept Design and Method Statement	90 days	2023/10/26	2024/01/23	2023/10/26	2024/01/23	2023/11/07	2024/02/04	12 days	0				Environmental Tea	am :			1			
	Environmental Baseline Monitoring Setup of instrum entation and monitoring	21 days 21 days	2024/01/15	2024/02/04	2024/01/15 2024/01/15			2024/02/04	0 days 0 days	0	1			Environmental Teal			I I	I I			
14 (Condition Survey	21 days	2024/01/15	2024/02/04	2024/01/15	2024/02/04	2024/01/15	2024/02/04	0 days	0	1			Building Surveyor /		neer	I I	I I			l I
	Freshwater Crab Translocation Plan Tree Survey	21 days 21 days				2024/02/04 2024/02/04		2024/02/04 2024/02/04	0 days 0 days	0	1			Environmental Tea	am - Ecologist		1	1		ı	I I
	UU detection	15 days					2024/02/05		0 days	0				Competent Pers	son (UU)		I I	l l			1
	´T ask		_	Milestone	4	-	Rolled Up C	 Critical Task		lnactive	e Milestone		Duration	-only		Start-only	Exte	ernal Milestone	Pro	oject Summary	
Revision.: 1.4	Date: 25 September 2023 Critical Task			Summary	•	,	▼ Rolled Up N	/lilestone	\Diamond	Inactive	e Summary		Manual S	ummary Rollup 🔷	!	Finish-only	▼ Split	t	Gro	oup By Summary	₹
	Progress			Rolled Up Tas	sk 🖁		Rolled Up P	rogress		— Manua	l Task	\Diamond	Manual S	ummary	1	External Tasks	♦ Exte	ern al Tasks	De	adline 💠	

									CONTR	RACT NO. [ENGINEERIN PROVEMENT	WORKS AT YUEN LONG - STAGE 2
Task N	ame	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack T	TRA Half:			3, Half 2	2024, Half 1 2024, Half 2 2025, Half 1 2025, Half 2 2026, Half 1 2026, Half 1 2026, Half 2 2026,
	Site Clearance	15 days	2024/02/05	2024/02/19	2024/02/05	2024/02/19	2024/02/05	2024/02/19	0 days	0 A	M J	J A S	UN	Mary 1 grab truck
	Establish access(es) to channels	21 days	2024/02/20	2024/03/11 2024/04/01	2024/02/20	2024/03/11	2024/02/20	2024/03/11	,-	0		1		Wildening, making good or leasing of private land may be required List long crane, 3x labour, 1x welder
	Guarding / Barrier / Hoarding inage Channel Works (East)	21 days 787 days	2024/03/12 2024/04/02		2024/03/12 2024/04/02	2024/04/01 2026/05/28	2024/03/12 2024/04/02	2024/04/01 2026/07/27	0 days 0 days	U		1		x forty dane, sx rabour, xx weider
	Demolish & relocate hoarding, wall YLL797/40	30 days	2024/04/02	2024/05/01	2024/04/02	2024/05/01	2024/04/02	2024/05/01	0 days	0		I I		L
_	Demolish & relocate storage YLL 797/42	30 days	2024/04/02	2024/05/01	2024/04/02	2024/05/01	2024/04/02	2024/05/01	, -	0		İ		
(CH.A600.00~ CH.A653.949 (Transition & Half-box culve		2024/04/16	2024/06/29	2024/04/16	2024/06/29	2024/04/16	2024/06/29	0 days	1				1x Sheet biling machine, 1x lorry crane
	Sheetpiling Excavation and Lateral Support	25 days 25 days	2024/04/16	2024/05/10	2024/04/16	2024/05/10 2024/05/18	2024/04/16	2024/05/10 2024/05/18	0 days 0 days	1		I I		. Ix Excavator, Ix dump truck 2x labour
	Base Slab	33 days	2024/05/02		2024/05/02	2024/06/03	2024/05/02	2024/06/03	0 days	_		i i		
	Rebar Fixing	25 days	2024/05/02	2024/05/26	2024/05/02	2024/05/26	2024/05/02	2024/05/26	0 days	1		1		x repar fixers
	Formwork Erection and Cast-in items	25 days	2024/05/10		2024/05/10	2024/06/03	2024/05/10	2024/06/03	0 days	1		į		3x carpenters
	Concreting Walls and Roof Slab	1 day 33 days	2024/05/18	2024/05/18		2024/05/18 2024/06/20	2024/05/18 2024/05/19	2024/05/18	0 days	0				J gang/concrete mixers pump truck
	Rebar Fixing	25 days	2024/05/19	2024/06/12	2024/05/19	2024/06/12	2024/05/19	2024/06/12	0 days	1		I I		3 rebar fixers
	Formwork Erection and Cast-in items	25 days	2024/05/27		2024/05/27	2024/06/20	2024/05/27	2024/06/20	0 days	1		i		3x carpenters
	Concreting	1 day	2024/06/04	2024/06/04	2024/06/04	2024/06/04	2024/06/04	2024/06/04	0 days	0		1		Concrete mixers, 1 gang, pump truck
	Backfilling and Compaction Removal of Sheetpiles	20 days	2024/06/05	2024/06/24	2024/06/05 2024/06/10	2024/06/24 2024/06/29	2024/06/05 2024/06/10	2024/06/24 2024/06/29	0 days 0 days	0		İ		1x Excavator, 1x dump t ruck
	Demolish & relocate porch, hoarding YLL 797/44	20 days 30 days	2024/06/10		2024/06/15	2024/00/23	2024/06/10	2024/00/23	0 days	0		i i		The state of the s
	Demolish & relocate porch YLL797/38,39	30 days	2024/06/15	2024/07/14		2024/07/14			0 days	0		1		
(CH.A500.00~ CH.A600.00	120 days	2024/06/29		2024/06/29	2024/10/26			0 days			į		
	Sheetpiling	36 days	2024/06/29	2024/08/03	2024/06/29	2024/08/03	2024/06/29	2024/08/03	0 days	2		1		1x Sheetpiling machine 1x lorry crane
-	Excavation and Lateral Support Ground and Edge Beams	36 days 54 days	2024/07/11 2024/07/23		2024/07/11 2024/07/23	2024/08/15 2024/09/14	2024/07/11 2024/07/23	2024/08/15 2024/09/14	0 days 0 days	2				1x Excavator, 1x dump truck, 2x labour
+	Install precast portion (ground beam)	40 days	2024/07/23	2024/03/14	2024/07/23	2024/08/31	2024/07/23	2024/08/31	0 days	0		i I		1x lorry crane, 2x lab our
	Rebar Fixing	30 days	2024/08/06	2024/09/04	2024/08/06	2024/09/04	2024/08/06	2024/09/04	0 days	2		1		3x reb ar fix ers
	Formwork Erection and Cast-in items	30 days	2024/08/16	2024/09/14	2024/08/16	2024/09/14	2024/08/16	2024/09/14	0 days	2		1		3x carpenters
	Concreting Walls	1 day 40 days	2024/08/26 2024/08/27	2024/08/26 2024/10/05	2024/08/26 2024/08/27	2024/08/26 2024/10/05	2024/08/26 2024/08/27	2024/08/26 2024/10/05	0 days 0 days	U		I 		1 gang, concrete mixers pump truck
	Rebar Fixing	30 days	2024/08/27	2024/10/05	2024/08/27	2024/10/05	2024/08/27	2024/10/05	0 days	2		1		3x rebar fixers
	Formwork Erection and Cast-in items	30 days	2024/09/06	2024/10/05	2024/09/06	2024/10/05	2024/09/06	2024/10/05	0 days	2		İ		3x carpenters
	Concreting	1 day	2024/09/16		2024/09/16	2024/09/16	2024/09/16	2024/09/16	0 days	0		1		Concrete mixers, 1 gang, pump truck
	Backfilling and Compaction	30 days	2024/09/17	2024/10/16	2024/09/17	2024/10/16	2024/09/17	2024/10/16	0 days	0		1		1x Excavator, 1x dump truck 1x lorry crane 1x Sheetpiling machine
F	Removal of Sheetpiles Pedestrian & Vehicular Crossing no. 3 (Box Culvert no. 4)	30 days 1 day	2024/09/27	2024/10/26	2024/09/27 2024/10/07	2024/10/26 2024/10/07	2024/09/27	2024/10/26 2026/07/27	0 days 658 days	0		i I		Temporary crossing
	Demolish & relocate porch YLL797/34,37	30 days	2024/10/07	2024/11/05		2024/11/05	2024/10/07	2024/11/05		0		1		
	Demolish & relocate car body YLL 797/36	30 days	2024/10/07	2024/11/05	2024/10/07	2024/11/05	2024/10/07	2024/11/05	,-	0		İ		
_	Demolish & relocate godown YLL797/35	30 days	2024/10/07		2024/10/07	2024/11/05	2024/10/07	2024/11/05		0		1		
- (CH.A400.00~ CH.A500.00 Sheetpiling	120 days 36 days	2024/10/21 2024/10/21	2025/02/17	2024/10/21 2024/10/21	2025/02/17 2024/11/25	2024/10/21 2024/10/21	2025/02/17 2024/11/25	0 days 0 days	2		1		1x Sheetpiling machine 1x lorry crane
	Excavation and Lateral Support	36 days	2024/10/21	2024/11/23	2024/10/21	2024/11/23	2024/10/21	2024/11/23	0 days	2		1		LE Excavator, Ix dump truck 2x labour
	Ground and Edge Beams	54 days	2024/11/14		2024/11/14				0 days			1		
	Install precast portion (ground beam)	40 days	2024/11/14	2024/12/23		2024/12/23	2024/11/14	2024/12/23	0 days	0		İ		1x lorry crane, 2x labour
	Rebar Fixing	30 days	2024/11/28	2024/12/27	2024/11/28	2024/12/27	2024/11/28		0 days	2		1		3x rebar fixers
	Formwork Erection and Cast-in items Concreting	30 days 1 day	2024/12/08		2024/12/08 2024/12/18	2025/01/06 2024/12/18	2024/12/08 2024/12/18	2025/01/06 2024/12/18	0 days 0 days	0		1		A Capelines A Cape
	Walls	40 days	2024/12/19		2024/12/19	2025/01/27	2024/12/19		0 days			l l		
	Rebar Fixing	30 days	2024/12/19	2025/01/17	2024/12/19	2025/01/17	2024/12/19	2025/01/17	0 days	2		1		3x rebar fixers
_	Formwork Erection and Cast-in items	30 days	2024/12/29	2025/01/27		2025/01/27			0 days	2		İ		3x carpenters Concrete mixers, 1 gang, pump truck
	Concreting Back filling and Compaction	1 day 30 days	2025/01/08	2025/01/08	2025/01/08	2025/01/08	2025/01/08	2025/01/08 2025/02/07	0 days 0 days	0		1		Lx Excavator, Ix dump truck
	Removal of Sheetpiles	30 days	2025/01/19	2025/02/17	2025/01/19	2025/02/17			0 days	0		1		Դ1x lorry crane,1x Sheetp i∮ng machine
	Demolish & relocate metal frame YLL 797/28, 30, 33	30 days	2025/01/29		2025/01/29	2025/02/27	2025/01/29	2025/02/27	0 days	0		į		F
	Demolish & relocate storage YLL797/29 Demolish & relocate retaining wall YLL797/32	30 days	2025/01/29	2025/02/27	2025/01/29	2025/02/27	2025/01/29	2025/02/27	0 days 0 days	0		1		
_	CH.A300.00~ CH.A400.00	30 days 120 days	2025/01/29 2025/02/12	2025/02/27 2025/06/11	2025/01/29 2025/02/12	2025/02/27	2025/01/29 2025/02/12	2025/02/27	0 days	-		1		
	Sheetpiling	36 days	2025/02/12		2025/02/12	2025/03/19	2025/02/12		0 days	2		İ		1x Sheetpiling machine 1x lorry crane
	Excavation and Lateral Support	36 days	2025/02/24	2025/03/31	2025/02/24	2025/03/31	2025/02/24	2025/03/31	0 days	2		1		Sx Excavator, 1x dump truck, 2x labour
_	Ground and Edge Beams	54 days	2025/03/08		2025/03/08	2025/04/30			0 days	_		1		
+	Install precast portion (ground beam) Rebar Fixing	40 days 30 days	2025/03/08	2025/04/16	2025/03/08 2025/03/22	2025/04/16 2025/04/20	2025/03/08 2025/03/22	2025/04/16 2025/04/20	0 days 0 days	2		İ		ax rebar fixers
1	Formwork Erection and Cast-in items	30 days	2025/04/01	2025/04/30		2025/04/30	2025/04/01	2025/04/30	0 days	2		1		3x carpenters
	Concreting	1 day	2025/04/11	2025/04/11	2025/04/11	2025/04/11	2025/04/11	2025/04/11		0				1 gang. concrete mixers, pump truck
	Walls	40 days	2025/04/12		2025/04/12	2025/05/21			0 days	_		1		20 raharfuara
	Rebar Fixing Formwork Erection and Cast-in items	30 days 30 days	2025/04/12	2025/05/11 2025/05/21	2025/04/12 2025/04/22	2025/05/11 2025/05/21	2025/04/12 2025/04/22		0 days 0 days	2			1	3x rebar fixers 3x carpenters
	Concreting	1 day	2025/05/02	2025/05/02	2025/05/02	2025/05/02	2025/05/02	2025/05/02		0		İ		Concrete mixers 1 gang, pump truck
1	Back filling and Compaction	30 days	2025/05/03	2025/06/01	2025/05/03	2025/06/01	2025/05/03	2025/06/01	0 days	0		1		lx Eccavator, 1x dump truck
1	Removal of Sheetpiles	30 days	2025/05/13		2025/05/13	2025/06/11	2025/05/13		o aay o	0				1x lorry crane, 1x Sheetpiling machine
	2x300 pipe with flap valve Femp support to 3x ex. cable bridge	28 days 28 days	2025/05/23	2025/06/19		2025/06/19 2025/06/19	2026/06/30		100 day 5	4		i I		
	Demolish & relocate drainage channel YLL 797/12	28 days 30 days	2025/05/23			2025/06/19	2025/05/23			0			1	
	CH.A200.00~ CH.A300.00	120 days	2025/06/06			2025/10/03			0 days			İ		
	Sheetpiling	36 days	2025/06/06			2025/07/11			0 days	2		1		1x Sheetpiling machine 1x lorry crane
	Excavation and Lateral Support	36 days	2025/06/18			2025/07/23			0 days	2				1x Excavator, 1x dump truck, 2x labour
	Ground and Edge Beams Install precast portion (ground beam)	54 days 40 days	2025/06/30	2025/08/22 2025/08/08	2025/06/30	2025/08/22 2025/08/08	2025/06/30	2025/08/22 2025/08/08	0 days 0 days	0		i I		1x lorry crane 2x labour
	Rebar Fixing	30 days	2025/07/14	2025/08/12		2025/08/12		2025/08/12	0 days	2		1		3x rebar fixers
	Formwork Erection and Cast-in items	30 days	2025/07/24	2025/08/22	2025/07/24	2025/08/22	2025/07/24	2025/08/22	0 days	2		Į.		3x carpenters
	Concreting	1 day	2025/08/03	2025/08/03		2025/08/03	2025/08/03	2025/08/03	0 days	0		1		1 gang, concrete mixers pump truck
	Walls Rebar Fixing	40 days 30 days	2025/08/04	2025/09/12 2025/09/02	2025/08/04	2025/09/12 2025/09/02	2025/08/04 2025/08/04	2025/09/12 2025/09/02	0 days 0 days	2		1		3x rebar fixers
	Formwork Erection and Cast-in items	30 days	2025/08/04	2025/09/02	2025/08/04	2025/09/02	2025/08/04	2025/09/02	0 days	2		Ì		3x carpenters
	Concreting	1 day	2025/08/24		2025/08/24	2025/08/24			0 days	0			1	Sp. concrete mix ers 1 gang, pump truck
	Backfilling and Compaction	30 days	2025/08/25	2025/09/23	2025/08/25	2025/09/23			0 days	0		I.		1x Excavator, 1x dump truck
	Removal of Sheetpiles	30 days	2025/09/04	2025/10/03	2025/09/04	2025/10/03	2025/09/04	2025/10/03	0 days	0		1		1x lorry crane, 1x Sheetpiling machine
_	2x300 pipe with flap valve Survey, assess, repair, strengthen ex. Channel	28 days 28 days	2025/09/14	2025/10/11 2025/10/11	2025/09/14	2025/10/11 2025/10/11	2026/06/30	2026/07/27 2026/07/27	289 days 289 days	4		1		
_	Demolish & relocate toilet YLL 797/5	30 days		2025/10/11		2025/10/11	2025/09/14		-	0		Ì		
	Demolish & relocate container YLL797/6	30 days					2025/09/14		-	0		1		
	´T ask			Milestone	•		Rolled Up (Critical Task		lnactiv	ive Mileston	e		uration-only Start-only External Milestone Project Summary
.4	Date: 25 September 2023 Critical Task			Summary	•		Rolled Up 1		♦		ive Summar			anual Summary Rollup ♦ Finish-only ♥ ▼ Split Group By Summary ▼
	Progress			Rolled Up Ta	sk 📟		Rolled Up F				ual Task	,		anual Summary ♦ External Tasks ♦ External Tasks Deadline ↔
				Ja Jp 14.	200									

									CON	NTRACT NO	WIN 1 - DC/2022/02 .	DRAINAGE IMPRO	OVEMENT WORK	S AT YUEN LON	G - STAGE 2					
ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA H		2023, H J A S		2024, Ha		2024, Half 2 J A S O N	ı l d l ı l	2025, Half 1 F M A M		2025, Half 2 2026, Half 1 2026, Half 2 A S O N D J F M A M J J A S O N D
109 110	Demolish & relocate porch YLL797/7 Demolish & relocate fencing, retaining wall YLL797/10,1:	30 days 30 days	2025/09/14 2025/09/14			2025/10/13 2025/10/13	2025/09/14 2025/09/14		0 days 0 days	0										
111 112	CH.A100.00~ CH.A200.00 Sheetpiling	120 days 36 days	2025/09/28	2026/01/25 2025/11/02		2026/01/25 2025/11/02			0 days 0 days	2			ļ į		i		i		į	1x Sheetpiling machine, 1x lorry crane
113	Excavation and Lateral Support	36 days	2025/10/10	2025/11/14	2025/10/10	2025/11/14	2025/10/10	2025/11/14	0 days	2	I		1		 		I I		1	1x Excavator, 1x dump truck, 2x labour
114 115	Ground and Edge Beams Install precast portion (ground beam)	54 days 40 days	2025/10/22	2025/12/14 2025/11/30		2025/12/14 2025/11/30		2025/12/14 2025/11/30	0 days 0 days	0	I I		1		 		I I		I I	1x lorry crane, 2x labour
116 117	Rebar Fixing Formwork Erection and Cast-in items	30 days 30 days	2025/11/05 2025/11/15			2025/12/04 2025/12/14	2025/11/05 2025/11/15	2025/12/04 2025/12/14	0 days 0 days	2										3x rebar fixers
118	Concreting	1 day	2025/11/25	2025/11/25	2025/11/25	2025/11/25	2025/11/25	2025/11/25	0 days	0			i li		İ				į	1 gang, concrete mixers, pump truck
119 120	Walls Rebar Fixing	40 days 30 days	2025/11/26 2025/11/26				2025/11/26 2025/11/26		0 days 0 days	2	i		i		i		i		i	3x rebar fixers
121 122	Formwork Erection and Cast-in items Concreting	30 days 1 day	2025/12/06 2025/12/16			2026/01/04 2025/12/16	2025/12/06 2025/12/16		0 days 0 days	2	I I		1		 		l I		1 1	3x carpenters concrete mixers,1 gang,pump truck
123	Backfilling and Compaction	30 days	2025/12/17	2026/01/15	2025/12/17	2026/01/15	2025/12/17	2026/01/15	0 days	0	!		1				1		1	1x Excavator,1x dump truck
124 125	Removal of Sheetpiles Pedestrian & Vehicular Crossing no. 2 (Box Culvert no. 2)	30 days 28 days	2025/12/27 2026/01/06	2026/01/25		2026/01/25 2026/02/02	2025/12/27 2026/06/30		0 days 175 days	4										Temporary crossing
126 127	Pedestrian & Vehicular Crossing no. 1 (Box Culvert no. 3) Demolish & relocate wall, gate YLL797/2	28 days 30 days	2026/01/06	2026/02/02			2026/06/30 2026/01/06		175 days 0 days	4			i li		İ				i	Temp orary crossing
128 129	CH.A11.13~ CH.A100.00	99 days	2026/01/20	2026/04/28	2026/01/20	2026/04/28	2026/01/20	2026/04/28	0 days	1	l I		1		İ		I		I I	1x Sheetpiling machine,1x lorry crane
130	Sheetpiling Excavation and Lateral Support	28 days 28 days	2026/01/29		2026/01/29	2026/02/25	2026/01/29	2026/02/25	0 days 0 days	1	1		1				I I		1	1x Excavator, 1x dump truck, 2x labour
131 132	Ground and Edge Beams Install precast portion (ground beam)	43 days 30 days	2026/02/07			2026/03/21 2026/03/08		2026/03/21 2026/03/08	0 days 0 days	0										1x lorry crane, 2x labour
133 134	Rebar Fixing Formwork Erection and Cast-in items	25 days 25 days	2026/02/17 2026/02/25	2026/03/13	2026/02/17	2026/03/13 2026/03/21	2026/02/17 2026/02/25		0 days 0 days	1					 		1		İ	3x rebar fixers 3x carpenters
135	Concreting	1 day	2026/03/05	2026/03/05	2026/03/05	2026/03/05	2026/03/05	2026/03/05	0 days	0			i		, 		i I		i I	gang, concrete mixers pump truck
136 137	Walls Rebar Fixing	33 days 25 days	2026/03/06 2026/03/06			2026/04/07 2026/03/30			0 days 0 days	1			1		İ		I I		1	3x rebar fixers
138 139	Formwork Erection and Cast-in items Concreting	25 days 1 day	2026/03/14 2026/03/22	2026/04/07	2026/03/14	2026/04/07 2026/03/22	2026/03/14 2026/03/22	2026/04/07	0 days 0 days	1 0			1		 		 		I I	3x carp enters Concrete mixers, 1 gang, pump truck
140	Backfilling and Compaction	28 days	2026/03/23	2026/04/19	2026/03/23	2026/04/19	2026/03/23	2026/04/19	0 days	0					 		 			1x Excavator/1x dump truck
141 142	Removal of Sheetpiles Pedestrian & Vehicular Crossing no. 1 (Box Culvert)	28 days 28 days	2026/04/01 2026/04/10			2026/04/28 2026/05/07	2026/04/01 2026/04/10		0 days 0 days	0					 		i		į	\frac{\rightarrow}{\rightarrow} 1x lorry crahe, 1x Sheetpiling machine \tag{Temporaty crossing}
143 144	Animal Escape Ramp Facing stone	28 days 10.5 days	2026/04/10 2026/05/08			2026/05/07 2026/05/18	2026/04/10 2026/05/18		0 days 10.5 days	0			1		İ		I I		I I	Elevated Working Platform, Builder
145 146	ABWF works Bedding works	21 days 21 days	2026/05/08	2026/05/28	2026/05/08		2026/05/08	2026/05/28	0 days	0			1		 		 		 	
147	Drainage Channel Works (West)	21 days 285 days	2025/08/17		2025/08/17		2025/08/17		0 days										-	▼
149 150	Survey, assess, repair, strengthen ex. Channel Demolish ex. Geotechnical feature 6NE-B/R19	21 days 30 days	2025/08/17	2025/09/06		2025/09/06 2025/10/06		2025/09/06 2025/10/06	0 days 0 days	0			li li		; ;		i			
151 152	Demolish ex. Geotechnical feature 6NE-B/R19 Demolish & relocate boundary wall, platform, gate YLL79	30 days	2025/09/07 2025/09/07	2025/10/06	2025/09/07	2025/10/06	2025/09/07	2025/10/06	0 days 0 days	0	İ		1		İ		I I		i I	
153	CH.A800.00~ CH.A905.63	158 days	2025/09/21	2026/02/25	2025/09/21	2026/02/25	2025/09/21	2026/02/25	0 days				1				 		1	
154 155	Sheetpiling Excavation and Lateral Support	45 days 45 days	2025/09/21 2025/10/06			2025/11/04 2025/11/19	2025/09/21 2025/10/06		0 days 0 days	2			į				l I			1x Sheetpiling machine, 1x lorry crane 1x Excavator, 1x dump truck, 2x labour
156 157	Ground and Edge Beams Install precast portion (ground beam)	66 days 50 days	2025/10/21 2025/10/21			2025/12/25 2025/12/09	2025/10/21 2025/10/21	2025/12/25 2025/12/09	0 days 0 days	0			i li		i				-	1x lorry crane 2x labour
158	Rebar Fixing	36 days	2025/11/08	2025/12/13	2025/11/08	2025/12/13	2025/11/08	2025/12/13	0 days	2	1		1				I I		I I	3x rebar fixers 3x carpenters
159 160	Formwork Erection and Cast-in items Concreting	36 days 1 day	2025/11/20	2025/12/25		2025/12/25 2025/12/02	2025/11/20 2025/12/02		0 days 0 days	0			1				1		1	1 gang, concrete mixers, pump truck
161 162	Walls Rebar Fixing	48 days 36 days	2025/12/03 2025/12/03			2026/01/19 2026/01/07	2025/12/03 2025/12/03	2026/01/19 2026/01/07	0 days 0 days	2			į.				I I			3x rebar fixers
163 164	Formwork Erection and Cast-in items Concreting	36 days 1 day	2025/12/15 2025/12/27	2026/01/19	2025/12/15				0 days 0 days	2			i li							3x carpenters
165	Backfilling and Compaction	45 days	2025/12/28	2026/02/10	2025/12/28	2026/02/10	2025/12/28	2026/02/10	0 days	0	İ		1		İ		I I		l I	1x Excavator, 1x dump truck
166 167	Removal of Sheetpiles CH.A700.00~ CH.A800.00	45 days 121 days	2026/01/12 2026/01/27	2026/02/25 2026/05/27	2026/01/12 2026/01/27	2026/02/25 2026/05/27	2026/01/12 2026/01/27	2026/02/25 2026/05/27	0 days 0 days	0							 		!	1x lorry crane,1x Sheetpiling machine
168 169	Sheetpiling Excavation and Lateral Support	36 days 36 days	2026/01/27 2026/02/08			2026/03/03 2026/03/15	2026/01/27 2026/02/08	2026/03/03	0 days 0 days	2			į.				I I			1x Sheetpiling machine, 1x lorry crane 1x Excavator, 1x dump truck, 2x labour
170 171	Ground and Edge Beams Install precast portion (ground beam)	55 days 45 days	2026/02/20		2026/02/20	2026/04/15	2026/02/20	2026/04/15	0 days 0 days		i		i		i		i		i	1x lorry crane 2k lab our
172	Rebar Fixing	30 days	2026/03/07	2026/04/05	2026/03/07	2026/04/05	2026/03/07	2026/04/05	0 days	2	I		1		 		I I		I I	3x rebar fix ers
173 174	Formwork Erection and Cast-in items Concreting	30 days 1 day	2026/03/17	2026/04/15		2026/04/15 2026/03/27	2026/03/17 2026/03/27		0 days 0 days	0					 				!	∫ Sx carpenters
175 176	Walls Rebar Fixing	40 days 30 days	2026/03/28 2026/03/28		2026/03/28 2026/03/28				0 days 0 days	2			į		 		 			3x reb ar fixers
177 178	Formwork Erection and Cast-in items	30 days	2026/04/07	2026/05/06	2026/04/07	2026/05/06	2026/04/07	2026/05/06	0 days	2			i		!		i I		i I	3x carpenters
179	Concreting Back filling and Compaction	1 day 30 days		2026/05/17	2026/04/18	2026/05/17	2026/04/18	2026/05/17	0 days 0 days	0	1		1		 		1		!	Concrete mixers, 1 gang, pump truck
180 181	Removal of Sheetpiles Facing stone	30 days 21 days	2026/04/28 2026/05/08		2026/04/28 2026/05/08		2026/04/28 2026/05/08		0 days 0 days	0 0										1x lorry crane 1x Sheetpiling machine
182 183	ABWF works Bedding works	21 days 21 days	2026/05/08	2026/05/28	2026/05/08		2026/05/08	2026/05/28	0 days 0 days	0			i		 				i	
58	_												i		i		<u> </u>		 	P000000
59 2	Section VII access date of Portion D	8 20 days 210 days	2023/05/30	2023/12/25		2023/12/25	2023/05/30	2023/12/25	0 days 0 days				7						1	
3 4	section VII (Ha Che - Fam Kam Road) Site Establishment	820 days 212 days	2023/05/30 2023/09/24			2025/08/26 2024/04/22			0 days 0 days	0	Ĭ.				~					
5	Initial Survey Public Liaison and TTA	30 days 90 days	2023/12/25	2024/01/23	2023/12/25	2024/01/23	2023/12/25	2024/01/23	0 days 62 days	0		1	#		! !		i		i	
8	Initial Safety & Environmental measures	60 days	2023/12/23	2024/02/20	2023/12/23	2024/02/20	2024/02/23	2024/04/22	62 days	0	İ		1		_		I I		I I	
10 11	Prepare and Accept Design and Method Statement Setup of instrumentation and monitoring	90 days 30 days	2023/10/26 2024/01/24			2024/02/22	2023/11/25 2024/01/24		30 days 0 days	0							 		1	
12 13	Tree Survey Condition Survey	30 days 30 days	2024/01/24	2024/02/22		2024/02/22 2024/02/22	2024/01/24 2024/01/24		0 days 0 days	0				Arb orist Building	Surveyor / Struc	tural Engineer	 			
14	UU detection	30 days	2024/02/23	2024/03/23	2024/02/23	2024/03/23	2024/02/23	2024/03/23	0 days	0					ompetent Person	(UU)	i		i	i i
15 16	Site Clearance Temporary Traffic Arrangement	30 days 120 days		2024/04/22	2023/12/25	2024/04/22 2024/04/22		2024/04/22	0 days 0 days	U			-	****	2x labour, 1	ษาลม แ <i>น</i> เห	I I		I I	
17 18	Application of XP Submission of TTA and Arrange TMLG	90 days 90 days			2023/12/25 2023/12/25	2024/03/23 2024/03/23	2023/12/25 2023/12/25		0 days 0 days	0	1						1		1	
Revision.: 1.4	Date: 25 September 2023 Critic al Task	•		Milestone Summary	•)		Critical Task	*	lna	active Milestone active Summary		Duratio Manua	n-only I Summary Rollup		Start-only Finish-only	-	External Split	l Milestone	Project Summary Group By Summary
	Progress	_		Rolled Up T	ask I		Rolled Up	Progress		— Ma	anual Task	♦	Manua	l Summary	•	External Tasks	♦	External	l Tasks	Deadline

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	Task Name		Start		Early Start	Early Finish	Late Start	Late Finish		RA Half 1 A	М	2023, Half 2 A S O		2024, Half 1 F M A	м ј	2024, Half 2 A S O N		2025, Half 1 F M A	м ј	2025, Half 2 A S O N D	2026, Half : J F M A		2026, Half 2 A S O N
19 20	Approval of TTA Drain Laying Works				2024/03/24 2024/04/23	2024/04/22 2025/08/26	2024/03/24 2024/04/23	2024/04/22 2025/08/26	0 days 0 days	0										-			
21	Protection to ex. Dongjiang Water Main	48 days 2024	4/04/23 2	024/06/09	2024/04/23	2024/06/09	2024/04/23	2024/06/09	0 days	0				*		_							
22 23	CH.A653.949~CH.A665.219 Sheetpiling				2024/06/10 2024/06/10	2024/09/07 2024/07/04	2024/06/10 2024/06/10	2024/09/07 2024/07/04	0 days 0 days	0					1x S	■■■ Sheetpiling machine,1x l	lorry crane			 			
24	Excavation and Lateral Support				2024/06/17	2024/07/11	2024/06/17	2024/07/11	0 days	0						Excavator 1x dump tru				I I		l I	
!5 !6	Ground and Edge Beams Install precast portion (ground beam)				2024/06/24 2024/06/24	2024/08/08 2024/07/23	2024/06/24 2024/06/24	2024/08/08 2024/07/23	0 days 0 days	0	1					■ 1x lorry crane, 2x labour	r I			I I			
27	Rebar Fixing				2024/07/04	2024/07/23	2024/00/24	2024/07/23	0 days	1	1		1		,	2x rebar fix ers	' I			I I		1	
28	Formwork Erection and Cast-in items				2024/07/12	2024/08/08	2024/07/12	2024/08/08	0 days	1	1				, ,	2x carpenters				I I		 	
29 30	Concreting Walls				2024/07/20 2024/07/21	2024/07/20 2024/08/25	2024/07/20 2024/07/21	2024/07/20 2024/08/25	0 days 0 days	0	į		į .			L gang, concrete mixers,	pump truck			i		İ	
31	Rebar Fixing	28 days 2024	4/07/21 2	024/08/17	2024/07/21	2024/08/17	2024/07/21	2024/08/17	0 days	1	į		į.			2x rebar fixers	į		į	i		į	
32 33	Formwork Erection and Cast-in items Concreting				2024/07/29 2024/08/06	2024/08/25 2024/08/06	2024/07/29 2024/08/06	2024/08/25 2024/08/06	0 days 0 days	1 0			1			2x carpenters concrete mixers 1 ga	ang pump truck	k				İ	
34	Backfilling and Compaction	25 days 2024			2024/08/07	2024/08/31	2024/08/07	2024/08/31	0 days	0						1x Excavator, 1x	dump truck						
35 36	Removal of Sheetpiles Box Culvert no. 5				2024/08/14 2024/08/21	2024/09/07 2024/12/08	2024/08/14 2024/08/21	2024/09/07 2024/12/08	0 days 0 days	0						1x lorry crane	1x Sheetpiling	machine		I I		l I	
37	CH.A665.219~CH.A674.419, 2x1500PC,T,L=9.2,D=3.2	-			2024/12/09	2025/03/21	2024/00/21	2025/03/21	0 days														
38 39	Erection of temp. works TTA Implementation and Mobilisation				2024/12/09	2025/01/22	2024/12/09	2025/01/22	0 days	3			1				1)	x lorry crane				1	
40	Pipe Jacking				2025/01/03 2025/01/13	2025/01/22 2025/02/26	2025/01/03 2025/01/13	2025/01/22 2025/02/26	0 days 0 days	4	1				1			1x pipe jackir	ng machine	I		1	
41	Demobilisation				2025/02/12	2025/02/19	2025/02/12	2025/02/19	0 days	0	1				1			••••••••••••••••••••••••••••••••••••••		I I		 	
42 43	Removal of temp. works Rehabilitate 2x1400 GRP pipes				2025/02/20 2025/03/07	2025/03/21 2025/06/24	2025/02/20 2025/03/07	2025/03/21 2025/06/24	0 days 0 days	0	i i				İ		İ	1x lorry o		ethod to be proposed			
14	CCTV inspection	28 days 2025	5/06/25 2	025/07/22	2025/06/25	2025/07/22	2025/06/25	2025/07/22	0 days	4			i				į	,				į	
50	Reinstatement	35 days 2025	5/07/23 2	025/08/26	2025/07/23	2025/08/26	2025/07/23	2025/08/26	0 days	5	1								The state of the s	*			
51	Section V	975 days 2023	3/05/29 2	026/01/27	2023/05/29	2026/01/27	2023/05/29	2026/07/27	0 days												-	1	
2	access date of Portion E1				2023/05/29	2023/05/29	2023/05/29	2023/05/29	0 days	0	05/29										2000		
4	section V (Shan Ha Tsuen - Shan Ha Road) Site Establishment	· ·			2023/05/30 2023/05/29	2026/01/26 2024/01/23	2023/05/30 2023/08/27	2026/01/26 2024/01/23	0 days 0 days					▼	I		l		I	Ī	##	1	
5	Initial Survey	45 days 2023	3/05/29 2	023/07/12	2023/05/29	2023/07/12	2023/08/27	2023/10/10	90 days	0		↓	l I		I I		I I		1	I I		1	
7	Public Liaison Initial Safety & Environmental measures		3/09/24 2 3/11/23 2		2023/09/24 2023/11/23	2023/11/22 2023/12/22	2023/10/26 2023/12/25	2023/12/24 2024/01/23	32 days 32 days	0							I I		1			1	
10	Prepare and Accept Design and Method Statement	90 days 2023	3/10/26 2	024/01/23	2023/10/26	2024/01/23	2023/10/26	2024/01/23	0 days	0				h	i		İ		i	i		i	
11 12	Setup of instrumentation and monitoring Tree Survey				2023/07/13	2023/08/26	2023/10/11 2023/10/11	2023/11/24 2023/11/24	90 days 90 days	0		Arborist	i		į		į		į	į		i	
13	UU detection				2023/08/27	2023/09/25	2023/11/25	2023/11/24	90 days	0			petent Person (l		į		į						
14	Site Clearance				2023/09/26	2023/10/25	2023/12/25	2024/01/23	90 days	0			2x labour, 1 gr	b truck									
L5 L6	Temporary Traffic Arrangement Application of XP	-			2023/05/29 2023/05/29	2024/01/23 2023/12/24	2023/05/29 2023/05/29	2024/01/23 2023/12/24	0 days 0 days	0							l I						
17	Submission of TTA and Arrange TMLG			023/12/24		2023/12/24	2023/05/29	2023/12/24	0 days	0							l					1	
18 19	Approval of TTA Drain Laying Works	-		024/01/23 026/01/26	2023/12/25 2024/01/24	2024/01/23 2026/01/26	2023/12/25 2024/01/24	2024/01/23 2026/01/26	0 days 0 days	0	1		1		1				!	I .		1	
20	SHT.A05~ SHT.A06A, 15 00PC, B, L=13.12, D=3.15		1/01/24 2	024/03/29	2024/01/24	2024/03/29		2024/03/29	0 days		I I		1		1		l I		-	I I	•	1	
21	TTA Implementation Breaking Ground				2024/01/24 2024/01/26	2024/01/27 2024/02/08	2024/01/24 2024/01/26	2024/01/27 2024/02/08	0 days 0 days	0	į			1x Excavator with	h breaker i		İ					i I	
23	Excavation and Lateral Support				2024/02/07	2024/02/22	2024/02/07	2024/02/22	0 days	2	i		į	1x Excavator	1		į		į	i		i	
24 25	Drain Laying Bedding and Backfilling				2024/02/21 2024/03/04	2024/03/05 2024/03/11	2024/02/21 2024/03/04	2024/03/05 2024/03/11	0 days 0 days	2	į		i	3x drainlaye	1		i		į	i		i	
26	Manhole Construction				2024/03/10	2024/03/19	2024/03/10	2024/03/19	0 days	1					nter 2x lab our		į		į			İ	
27 28	Reinstatement TTA Removal	,		024/03/27 024/03/29	2024/03/20	2024/03/27 2024/03/29	2024/03/20 2024/03/28	2024/03/27 2024/03/29	0 days 0 days	0				1x Exca	avator, 1x dump t	ruck							
29	Connection of ex. 900pipe to SHT.A06A				2024/03/28	2024/03/29	2024/03/28	2024/05/29	0 days	0				*			l I		1	I I		l l	
30	SHT.A04~ SHT.A05,1500PC,B,L=81.31,D=3.44				2024/04/29	2024/10/21	2024/04/29	2024/10/21	0 days					<u> </u>			l I						
31	Stage 1 TTA Implementation				2024/04/29	2024/06/27 2024/05/02	2024/04/29 2024/04/29	2024/06/27 2024/05/02	0 days 0 days	0			1	¥	<u> </u>		l I						
33	Breaking Ground	12 days 2024	4/05/01 2	024/05/12	2024/05/01	2024/05/12	2024/05/01	2024/05/12	0 days	1	1				1x Excavator v		I I			I I		1	
34 35	Excavation and Lateral Support Drain Laying				2024/05/11 2024/05/23	2024/05/24 2024/06/03	2024/05/11	2024/05/24 2024/06/03	0 days 0 days	2	I I		1		1x Excavato 3x drainla		l I		-	I I		1	
36	Bedding and Backfilling				2024/06/02	2024/06/09	2024/06/02	2024/06/09	0 days	0	į		į.		1x Excav		i		į	i		İ	
7	Manhole Construction Reinstatement				2024/06/08	2024/06/17	2024/06/08	2024/06/17	0 days	1						enter, 2x labour cavator, 1x dump truck	i		į			į	
88 89	Reinstatement TTA Removal				2024/06/18 2024/06/26	2024/06/25 2024/06/27	2024/06/18	2024/06/25 2024/06/27	0 days 0 days	0					TX EX	cavacor, 1x dump truck							
40	Stage 2	58 days 2024	1/06/28 2	024/08/24	2024/06/28	2024/08/24	2024/06/28	2024/08/24	0 days						+		1			I I			
41 42	TTA Implementation Breaking Ground				2024/06/28 2024/06/30	2024/07/01 2024/07/09	2024/06/28	2024/07/01 2024/07/09	0 days 0 days	1	1				1x	Excavator with breaker	.		1	 			
13	Excavation and Lateral Support	14 days 2024	1/07/08 2	024/07/21	2024/07/08	2024/07/21	2024/07/08	2024/07/21	0 days	2						lx Excavator	l I			I I			
-4 -5	Drain Laying Bedding and Backfilling				2024/07/20 2024/07/30	2024/07/31 2024/08/06	2024/07/20 2024/07/30	2024/07/31 2024/08/06	0 days 0 days	2 0	1		1			3x drainlayer, 2x labou 1x Excavator	ur j		1			1	
6	Manhole Construction	10 days 2024	4/08/05 2	024/08/14	2024/08/05	2024/08/14	2024/08/05	2024/08/14	0 days	1	1		1		I	3x carpenter, 2x lab			1			1	
17	Reinstatement TTA Removal			024/08/22 024/08/24	2024/08/15	2024/08/22 2024/08/24	2024/08/15 2024/08/23	2024/08/22 2024/08/24	0 days 0 days	0	i i		i		i	1x Excavator, 1x d	dump truck		1	i		1	
19	Stage 3				2024/08/23	2024/08/24	2024/08/23	2024/08/24	0 days	_						₹	i		į			į	
0	TTA Implementation				2024/08/25	2024/08/28	2024/08/25	2024/08/28	0 days	0						1x Excavator w	vith brooks		į				
2	Breaking Ground Excavation and Lateral Support				2024/08/27 2024/09/04	2024/09/05 2024/09/17	2024/08/27	2024/09/05 2024/09/17	0 days 0 days	2						1x Excavator w				1			
3	Drain Laying	12 days 2024	4/09/16 2	024/09/27	2024/09/16	2024/09/27	2024/09/16	2024/09/27	0 days	2						3x drainlay	yer, 2x labour			I I			
4 5	Bedding and Backfilling Manhole Construction				2024/09/26 2024/10/02	2024/10/03 2024/10/11	2024/09/26 2024/10/02	2024/10/03 2024/10/11	0 days 0 days	1					I	1x Excava 3x carp	ator ∣ enter, 2k laboui	ır		 			
6	Reinstatement	8 days 2024	4/10/12 2	024/10/19	2024/10/12	2024/10/19	2024/10/12	2024/10/19	0 days	0	1		1		1		cavat or 1x dum		1	I I		1	
7 8	TTA Removal Connection of ex. 900pipe to SHT.A05				2024/10/20 2024/10/22	2024/10/21 2024/11/20	2024/10/20 2024/10/22	2024/10/21 2024/11/20	0 days 0 days	0	1		1		I	<u></u>	l I		1	i 1		1	
9	SHT.A3A~SHT.A04, 15 00PC, B, L = 49.29, D = 3.65					2024/11/20			0 days	_	İ		i		İ	• • • • • • • • • • • • • • • • • • •	1		İ	i			
50	Stage 1	72 days 2024	1/11/21 2	025/01/31	2024/11/21	2025/01/31	2024/11/21	2025/01/31	0 days							Ţ		,	į			į	
51 52	TTA Implementation Breaking Ground		4/11/21 2 4/11/23 2		2024/11/21 2024/11/23	2024/11/24 2024/12/04	2024/11/21 2024/11/23	2024/11/24 2024/12/04	0 days 0 days	1						8	1x Excavato	or with breaker		1			
63	Excavation and Lateral Support	18 days 2024	4/12/03 2	024/12/20	2024/12/03	2024/12/20	2024/12/03	2024/12/20	0 days	2						,	1x Excav	vator				1	
64 65	Drain Laying Bedding and Backfilling					2025/01/03 2025/01/11		2025/01/03 2025/01/11	0 days 0 days	0	1				l I			rainlayer, 2x lab our Excavator				1	
	Task	20 Guys 2023		lestone	_023,01/02			Critical Task		Inactive	Milestone		Duration	-only		Start-only			nal Milestone	Droin	ect Summary		<u> </u>
sion.: 1.4				mmary	-		Rolled Up		♦		Summary			-only Summary Rollup 🔷		Finish-only		Snlit	a. milestone	Proje	•	· ·	
	Progress			lled Up Task			Rolled Up		-	- Manual		*		Summary •		External Tasks	•	Evter	nal Tasks			Ŷ	
	1 Flouress											~	Manua	outilitially 🔻						Dead			

70 71 72 73 74 75 76 77 78 SHT. 77 78 SHT. 79 111 80 81 82 D 88 84 84 85 87 SHT. 88 86 111 88 89 90 91 92 93 90 91 92 93 93 94 95 96 97 St 98 99 100 101 101 102 103 104 105 106 CCTV 107 Rein: 108 109 101 101 101 101 101 102 103 104 105 106 107 Rein: 108 111 Site Est. 111 Site Est. 111 Site Est. 111 Site Est. 111 Site Setup 111 Site Cond 112 Site Cond 112 Site Cond 113 SHT 124 SHT 125 SHT 124 SHT	Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal HT.A03~SHT.A3A 1500PC,B,L=8.59,D=3.65 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal HT.A02~SHT.A03,1500PC,T,L=32.82,D=3.6 Stage 1 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal TTV inspection Listatement Stage Stag	270 days 2023/05/3	22 2025/01/29 2025/01/22 2025/01/31 2025/01/30 11 2025/02/01 2025/02/01 2025/02/04 2025/02/01 2025/02/04 2025/02/01 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/03/16 2025/04/17 2025/04/14 2025/04/17 2025/04/14 2025/04/17 2025/04/14 2025/04/17 2025/04/14 2025/05/07 2025/04/14 2025/05/07 2025/04/16 2025/05/07 2025/04/16 2025/05/07 2025/05/16 2025/05/07 2025/05/16 2025/05/07 2025/06/19 2025/06/08 2025/06/09 2025/05/17 2025/06/09 2025/06/08 2025/06/09 2025/06/08 2025/06/09 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/08 2025/06/01 2025/06/09 2025/06/09 2025/08/05 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/07/11 2025/07/26 2025/07/11 2025/07/26 2025/07/17 2025/08/05 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/08/07 2025/08/06 2025/09/28 2025/08/06 2025/09/28 2025/09/09 2025/09/28 2025/09/09 2025/09/18 2025/09/09 2025/09/18 2025/09/09 2025/09/28 2025/09/29 2025/09/28 2025/09/29 2025/09/28 2025/09/29	0 2025/01/21 20 2 2025/01/21 20 2 2025/01/31 20 1 2025/04/13 20 1 2025/02/04 20 3 2025/03/02 20 3 2025/03/04 20 3 2025/03/16 20 5 2025/03/24 20 3 2025/03/24 20 3 2025/04/13 20 4 2025/04/11 20 2025/04/17 20 6 2025/04/17 20 6 2025/04/25 20 4 2025/05/17 20 6 2025/05/31 20 6 2025/05/31 20 6 2025/05/05 20 9 2025/05/06 20 9 2025/05/06 20 9 2025/06/06 20 7 2025/06/08 20 9 2025/06/08 20 9 2025/06/08 20 9 2025/06/12 20 1 2025/06/08 20 9 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/12 20 1 2025/06/09 20 1 2025/06/12 20 1 2025/06/09 20 1 2025/07/12 20 1 2025/06/09 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 1 2025/07/12 20 2025/07/12 20 2025/07/18 20 2025/08/07 20 2025/08/07 20 2025/09/18 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20 2025/09/10 20	Late Start Late Finish 2025/01/10 2025/01/21 2025/01/22 2025/01/29 2025/01/20 2025/01/29 2025/01/30 2025/01/31 2025/02/01 2025/02/04 2025/02/01 2025/02/04 2025/02/01 2025/03/04 2025/03/01 2025/03/04 2025/03/15 2025/03/16 2025/03/15 2025/03/16 2025/03/15 2025/03/16 2025/04/14 2025/04/13 2025/04/14 2025/04/13 2025/04/14 2025/04/13 2025/04/14 2025/04/17 2025/05/06/06 2025/05/17 2025/05/06/07 2025/05/07 2025/06/07 2025/06/08 2025/06/09 2025/06/08 2025/06/09 2025/06/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/06/11 2025/07/12 2025/08/06 2025/06/12 2025/08/06 2025/08/05 2025/08/06 2025/08/05 2025/08/06 2025/08/05 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/06 2025/09/18 2025/08/06 2025/09/19 2025/09/09 2025/09/19	Total Slack		2023, Half 2 J A S O N D	2024, Half 1 J F M A M J	2025 Half 2 2025 Half 2 2026 Half
67 68 69 70 71 72 73 73 74 75 76 77 78 SHT. 79 T1 80 81 81 82 D 83 84 84 85 87 SHT. 88 86 T1 87 SHT. 88 86 T1 87 SHT. 88 86 T1 87 SHT. 88 86 T1 87 SHT. 88 86 T1 87 SHT. 10 10 10 10 10 10 10 10 10 10 10 10 10	Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal 4T.A03~ SHT.A3A 1500PC,B,L=8.59,D=3.65 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal 4T.A02~ SHT.A03,1500PC,T,L=32.82,D=3.6 Stage 1 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal TTA Removal TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal	8 days 2025/01/2 2 days 2025/02/7 72 days 2025/02/7 4 days 2025/02/1 12 days 2025/02/1 18 days 2025/02/1 16 days 2025/03/1 10 days 2025/03/1 2 days 2025/04/1 56 days 2025/04/1 4 days 2025/04/1 4 days 2025/04/1 4 days 2025/04/1 10 days 2025/04/1 12 days 2025/04/1 12 days 2025/06/1 12 days 2025/06/1 14 days 2025/05/1 0 days 2025/06/1 2 days 2025/06/1 2 days 2025/06/1 12 days 2025/06/1 12 days 2025/06/1 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71 72 73 74 75 76 76 77 78 SHT. 79 TI 88 81 82 B1 82 B2 B3 84 84 85 R6 TI 87 SHT. 88 86 TI 87 SHT. 88 89 90 91 92 93 94 99 91 91 92 93 94 95 96 97 St 98 99 100 101 101 102 103 104 105 107 Rein: 108 109 100 101 101 101 105 100 101 101 105 100 101 101	Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal 4T.A03~SHT.A3A 1500PC,B,L=8.59,D=3.65 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal 4T.A02~SHT.A03,1500PC,T,L=32.82,D=3.6 STAGE TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction 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94 95 96 97 98 99 99 91 91 91 91 91 91 91 91 91 91 91	Manhole Construction Reinstatement TTA Removal Stage 2 TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal CTV inspection einstatement sis date of Portion E2 on V (Shan HaT suen) establishment	10 days 2025/07/: 8 days 2025/07/: 2 days 2025/08// 54 days 2025/08// 4 days 2025/08// 10 days 2025/08// 10 days 2025/08// 10 days 2025/08// 10 days 2025/09// 8 days 2025/09// 8 days 2025/09// 6 days 2025/09// 60 days 2025/09// 2 days 2025/09// 2 days 2025/09// 60 days 2025/09// 2 days 2025/09// 2 days 2025/09// 2 days 2025/09// 2 days 2025/09// 2 days 2025/09// 2 days 2025/09//	7.7 2025/07/26 2025/07/17 7.7 2025/08/03 2025/07/27 7.7 2025/08/03 2025/07/27 7.7 2025/08/05 2025/08/06 7.7 2025/08/09 2025/08/06 7.7 2025/08/09 2025/08/06 7.7 2025/08/09 2025/08/06 7.7 2025/08/27 7.7 2025/09/10 2025/09/09 7.7 2025/09/26 2025/09/19 7.7 2025/09/28 2025/09/27 7.7 2025/09/28 2025/09/29 7.8 2026/01/26 2025/11/28	77 2025/07/26 20 78 2025/08/03 20 79 2025/08/05 20 66 2025/09/28 20 66 2025/08/09 20 68 2025/08/09 20 68 2025/08/27 20 68 2025/09/04 20 69 2025/09/10 20 69 2025/09/18 20 69 2025/09/18 20 69 2025/09/26 20 67 2025/09/28 20	2025/07/17 2025/07/26 2025/07/27 2025/08/03 2025/08/04 2025/08/05 2025/08/06 2025/08/09 2025/08/06 2025/08/09 2025/08/08 2025/08/17 2025/08/16 2025/08/27 2025/08/26 2025/09/04 2025/09/03 2025/09/10 2025/09/09 2025/09/18	0 days 1 0 days 0 0 days 2 0 days 2				😹 3x carpenter, 2x lab our
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97 St 98 99 99 9100 100 101 102 103 104 105 106 CCTV 107 Rein: 108 109 access of 110 section 111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setur 117 Condition 118 Tree 119 Built 120 UU of 121 Site St 122 Drain It 122 Drain It 122 Site St 122 Sit	Stage 2 TTA Implementation Breaking Ground Ex cavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal CTV inspection einstatement sis date of Portion E2 on V (Shan HaTsuen) establishment	54 days 2025/08/ 4 days 2025/08/ 10 days 2025/08/ 12 days 2025/08/ 10 days 2025/08/ 10 days 2025/09/ 10 days 2025/09/ 8 days 2025/09/ 2 days 2025/09/ 60 days 2025/09/ 60 days 2025/11/ 270 days 2023/05/	06 2025/09/28 2025/08/06 06 2025/08/09 2025/08/09 08 2025/08/17 2025/08/26 0.6 2025/08/27 2025/08/26 202 2025/09/24 2025/09/26 202 2025/09/10 2025/09/28 30 2025/09/18 2025/09/18 99 2025/09/26 2025/09/19 197 2025/09/28 2025/09/27 198 2025/11/27 2025/09/29 199 2025/09/28 2025/01/26 2025/09/29 2025/01/26 2025/01/28	66 2025/09/28 20 66 2025/08/09 20 66 2025/08/17 20 66 2025/08/27 20 66 2025/09/04 20 33 2025/09/10 20 92025/09/18 20 9 2025/09/26 20 7 2025/09/28 20	2025/08/06 2025/09/28 2025/08/06 2025/08/09 2025/08/08 2025/08/17 2025/08/16 2025/08/27 2025/08/26 2025/09/10 2025/08/27 2025/09/10 2025/09/09 2025/09/18	0 days 0 days 0 days 0 days 0 days 2 days 2		1		and the state of the state of the state of the state of the state of the state of the state of the state of the
98 99 100 101 101 102 103 105 106 CCTV 107 Rein: 108 109 access c 110 Site Est. 111 111 115 Prep 116 Setul 117 Cond 118 Tree 119 Built 117 Cond 118 Tree 119 Built 120 UU c 121 Site C 122 Drain L: 123 SHT. 124 Ti 125 Br	TTA Implementation Breaking Ground Excavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal CTV inspection einstatement sis date of Portion E2 on V (Shan HaTsuen)	4 days 2025/08/ 10 days 2025/08/ 12 days 2025/08/ 10 days 2025/09/ 8 days 2025/09/ 10 days 2025/09/ 2 days 2025/09/ 60 days 2025/09/ 60 days 2025/09/ 270 days 2025/11/	06 2025/08/09 2025/08/06 08 2025/08/17 2025/08/08 06 2025/08/27 2025/08/26 06 2025/09/04 2025/08/26 03 2025/09/10 2025/09/09 09 2025/09/18 2025/09/09 09 2025/09/26 2025/09/27 07 2025/09/28 2025/09/27 09 2025/11/27 2025/09/29 2025/01/26 2025/11/28	66 2025/08/09 2025/08/17 2025/08/17 2025/08/27 2025/09/04 2025/09/10 2025/09/18 2025/09/18 2025/09/26 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28 2025/09/28	2025/08/06 2025/08/09 2025/08/08 2025/08/17 2025/08/16 2025/08/27 2025/08/26 2025/09/04 2025/09/03 2025/09/10 2025/09/09 2025/09/18	0 days 0 0 days 0 0 days 2 0 days 2			1	
100 101 102 103 104 105 106 CCTV 107 Rein: 108 110 section 111 Site Est: 112 Initial 113 Publi 114 Initial 115 Prep 116 Setul 117 Cond 118 Tree 119 Built 117 UU c 121 Site U 122 Drain L 123 SHT. 124 Ti 125 Br	Ex cavation and Lateral Support Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal ZTV inspection einstatement sis date of Portion E2 on V (Shan Ha T suen) Establishment	12 days 2025/08/: 10 days 2025/08/: 8 days 2025/09// 10 days 2025/09// 8 days 2025/09// 2 days 2025/09// 60 days 2025/09// 60 days 2025/11// 270 days 2023/05/:	.6 2025/08/27 2025/08/16 66 2025/09/04 2025/08/26 30 2025/09/10 2025/09/03 09 2025/09/18 2025/09/9 .9 2025/09/26 2025/09/19 27 2025/09/28 2025/09/27 29 2025/11/27 2025/09/29 8 2026/01/26 2025/11/28	66 2025/08/27 20 66 2025/09/04 20 33 2025/09/10 20 99 2025/09/18 20 99 2025/09/26 20 77 2025/09/28 20	2025/08/16 2025/08/27 2025/08/26 2025/09/04 2025/09/03 2025/09/10 2025/09/09 2025/09/18	0 days 2 0 days 2			'	
101 102 103 104 105 106 CCTV 107 Rein: 108 109 access of 110 section 111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setur 117 Condition 118 Tree 119 Built 120 UU of 121 Site 0 UU of 121 Site 0 UU of 121 Site 0 UU of 122 SHT. 123 SHT. 124 Ti 125 Br	Drain Laying Bedding and Backfilling Manhole Construction Reinstatement TTA Removal CTV inspection einstatement sis date of Portion E2 on V (Shan HaTsuen) establishment	10 days 2025/08// 8 days 2025/09// 10 days 2025/09// 8 days 2025/09// 2 days 2025/09// 60 days 2025/09// 60 days 2025/11// 270 days 2023/05//	26 2025/09/04 2025/08/26 2025/09/10 2025/09/03 2025/09/18 2025/09/09 2025/09/26 2025/09/19 27 2025/09/28 2025/09/27 29 2025/11/27 2025/09/29 2026/01/26 2025/11/28	6 2025/09/04 20 3 2025/09/10 20 9 2025/09/18 20 9 2025/09/26 20 7 2025/09/28 20	2025/08/26 2025/09/04 2025/09/03 2025/09/10 2025/09/09 2025/09/18	0 days 2	1 1		!	1x Excavator with breaker
103 104 105 106 CCTV 107 Rein: 108 109 access c 110 section 111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Conc 118 Tree 119 Built 120 UU c 121 CSite C 122 Drain L 123 SHT. 124 T15	Manhole Construction Reinstatement TTA Removal CTV in spection ein statement ss date of Portion E2 on V (Shan Ha T suen) establishment	10 days 2025/09/0 8 days 2025/09/2 2 days 2025/09/2 60 days 2025/09/2 60 days 2025/11/2 270 days 2023/05/3	09 2025/09/18 2025/09/09 9 2025/09/26 2025/09/19 17 2025/09/28 2025/09/27 29 2025/11/27 2025/09/29 2026/01/26 2025/11/28	9 2025/09/18 20 9 2025/09/26 20 7 2025/09/28 20	2025/09/09 2025/09/18				ı	🛣 3x drainlayer, 2x labour
104 105 106 CCTV 107 Rein: 108 109 access of 110 section 111 Site Est: 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Cond 118 Tree 119 Built 120 UU of 121 Site of 122 Drain Le 123 SHT. 124 Ti 125 Br	Reinstatement TTA Removal CTV inspection einstatement es date of Portion E2 on V (Shan Ha T suen) establishment	8 days 2025/09/2 2 days 2025/09/2 60 days 2025/09/2 60 days 2025/11/2 270 days 2023/05/3	.9 2025/09/26 2025/09/19 27 2025/09/28 2025/09/27 29 2025/11/27 2025/09/29 28 2026/01/26 2025/11/28	9 2025/09/26 20 7 2025/09/28 20		0 days 0			ı	1x Excavat or 3x carpenter, 2x labour
106 CCTV 107 Rein: 108 109 access c 110 section 111 Site Est 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Conc 118 Tree 119 Built 120 UU c 121 Site C 122 Drain L 123 SHT. 124 T 125 Br	CTV inspection einstatement iss date of Portion E2 on V (Shan HaTsuen) establishment	60 days 2025/09/2 60 days 2025/11/2 270 days 2023/05/3	29 2025/11/27 2025/09/29 28 2026/01/26 2025/11/28			0 days 0 0 days 0	-		l	3 X Excavator, 1x dump truck
107 Rein: 108 access c 110 section 111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Conc 118 Tree 119 Built 120 UU c 121 Site c 122 Drain L 123 SHT. 124 T 125 Br	einstatement ss date of Portion E2 on V (Shan Ha T suen) establishment	60 days 2025/11/2 270 days 2023/05/3	28 2026/01/26 2025/11/28	9 2025/11/27 20	2025/09/27 2025/09/28	0 days 0		1	I	
108 109 access c 110 section 111 Site Est 112 Initia 113 Publi 114 Initia 115 Prep 116 Setu 117 Conc 118 Tree 119 Built 120 UU c 121 Site G 122 Drain L 123 SHT. 124 Ti 125 Br	ss date of Portion E2 on V (Shan Ha Tsuen) sstablishment	270 days 2023/05/3			2025/09/29 2025/11/27 2025/11/28 2026/01/26	0 days 0 0 days 0			I	
110 section 111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Conc 118 Tree 119 Bulk 120 UU o 121 Site o 122 Drain L 123 SHT. 124 Ti 125 Br	on V (Shan Ha Tsuen) Establishment		0 2024/02/22 2022/05/22						ı	
111 Site Est. 112 Initia 113 Publi 114 Initia 115 Prep 116 Setul 117 Conn 118 Tree 119 Built 120 UU c 121 Site G 122 Drain Le 123 SHT. 124 TI 125 Br	stablishm ent	575 day 5 2025, 0575	30 2024/02/23 2023/05/30 30 2026/01/26 2023/05/30		2023/05/30 2024/02/23 2023/11/28 2026/07/27	0 days 0 182 days 0	_			
113 Publi 114 Initia 115 Prep 116 Setu 117 Cond 118 Tree 119 Built 120 UU o 121 Site 122 Drain L 123 SHT. 124 Ti 125 Br		323 days 2023/09/			2023/12/12 2026/02/28	79 days		-		
114 Initia 115 Prep 116 Setul 117 Con 118 Tree 119 Bull 120 UU c 121 Site l 122 Drain L 123 SHT 124 T 125 Br	itial Survey ıblic Liaison and TTA	21 days 2024/02/2 90 days 2023/09/2			2024/02/23 2024/03/14 2023/12/12 2024/03/10	0 days 0 79 days 0	_		<u>*</u>	
116 Setul 117 Conn 118 Tree 119 Built 120 UU c 121 Site c 122 Drain L 123 SHT. 124 Ti 125 Br	itial Safety & Environmental measures	60 days 2023/03/2			2024/03/11 2024/05/09	79 days 0	—	¥.,		
117 Cond 118 Tree 119 Built 120 UU c 121 Site c 122 Drain L2 123 SHT. 124 Ti 125 Br	epare and Accept Design and Method Statement etup of instrumentation and monitoring	90 days 2023/10/2 28 days 2024/03/2	26 2024/01/23 2023/10/26 .5 2024/04/11 2024/03/15		2024/01/13 2024/04/11 2024/03/15 2024/04/11	79 days 0 0 days 0	\Box			
119 Built 120 UU c 121 Site c 122 Drain La 123 SHT. 124 T1 125 Br	andition Survey	28 days 2024/03/3			2024/03/15 2024/04/11	0 days 0			Building Surve	veypr / Structural Engineer
120 UU c 121 Site (122 Drain La 123 SHT. 124 T1 125 Br	ee Survey	28 days 2024/03/			2024/03/15 2024/04/11	0 days 0			Arborist	Fault and the Land Advantage of Charles Communication (Charles and Charles and
122 Drain La 123 SHT. 124 T1 125 Br	rilt Heritage Survey J detection	150 days 2024/03/2 28 days 2024/04/2	.5 2024/08/11 2024/03/15 .2 2024/05/09 2024/04/12		2025/10/02 2026/02/28 2024/04/12 2024/05/09	566 days 0 0 days 0	-		Compete	terft Person (UU)
123 SHT. 124 T1 125 Br	te Clearance	28 days 2024/04/2			2024/04/12 2024/05/09	0 days 0			2x labour	ur, 1 grab truck
124 T1 125 Br	n Laying Works (West) HT.A01~ SHT.A02,15 00PC,B,L = 8.3 9,D = 3.6	361 days 2024/05/2 28 days 2024/05/2			2024/05/10 2026/07/27 2024/05/10 2024/06/06	0 days 0 days				
	TTA implementation	4 days 2024/05/	.0 2024/05/13 2024/05/10	0 2024/05/13 20	2024/05/10 2024/05/13	0 days 0			<u> </u>	
-	Breaking pavement Excavation and Lateral Support	5 days 2024/05/3 5 days 2024/05/3			2024/05/12 2024/05/16 2024/05/15 2024/05/19	0 days 0 0 days 0		1 1	1x Excay	cavator with breaker ccavator
	Drain Laying	5 days 2024/05/2			2024/05/18 2024/05/22	0 days 0			3x drai	rainlayer, 2x labour
	Bedding and Backfilling Manhole construction	6 days 2024/05/2 7 days 2024/05/2			2024/05/21 2024/05/26 2024/05/25 2024/05/31	0 days 0 0 days 0		į į		excavator calpenter, 2x labour
	Reinstatement	5 days 2024/06/0			2024/05/25 2024/05/31	0 days 0				x Excavator, 1x dump truck
131 T1	TTA removal	1 day 2024/06/0	06 2024/06/06 2024/06/06	6 2024/06/06 20	2024/06/06 2024/06/06	0 days 0			<u>**</u>	
	HT.A1A~SHT.A01, 1200PC, B, L = 7.675, D = 2.14 TTA implementation	30 days 2024/06/0 4 days 2024/06/0			2024/06/07 2024/07/06 2024/06/07 2024/06/10	0 days 0 days 0				
134 Br	Breaking pavement	5 days 2024/06/0	09 2024/06/13 2024/06/09	9 2024/06/13 20	2024/06/09 2024/06/13	0 days 0	\Box		" <u>_</u>	1x ex cavator with breaker
	Excavation and Lateral Support Manhole bedding construction	5 days 2024/06/3 7 days 2024/06/3			2024/06/12 2024/06/16 2024/06/15 2024/06/21	0 days 0 0 days 0				1x Excavator
137 D	Drain Laying	6 days 2024/06/2	20 2024/06/25 2024/06/20	0 2024/06/25 20	2024/06/20 2024/06/25	0 days 0				🛣 x Excavator
	Manhole construction Reinstatement	7 days 2024/06/2 5 days 2024/07/0			2024/06/24 2024/06/30 2024/07/01 2024/07/05	0 days 0 0 days 0		I I		
140 T1	TTA removal	1 day 2024/07/0	06 2024/07/06 2024/07/06	6 2024/07/06 20	2024/07/06 2024/07/06	0 days 0				
	onnection of ex. Pipe to SHT.A01 emporary decking over ex. UC	28 days 2024/07/0 28 days 2024/07/0			2026/06/30 2026/07/27 2024/07/07 2024/08/03	723 days 0 0 days 0			;	
143 SHT.	HT.CP1~ SHT.A1A, 55 0PC, B, L =4.16, D = 2.06	27 days 2024/07/3			2024/07/21 2024/08/16	0 days		i i		
	TTA implementation	3 days 2024/07/2			2024/07/21 2024/07/23	0 days 0			I	1x Excavator with breaker
	Breaking pavement Excavation and Lateral Support	5 days 2024/07/2 5 days 2024/07/2			2024/07/22 2024/07/26 2024/07/25 2024/07/29	0 days 0 0 days 0			ı	1x Excavator
	Manhole bedding construction	7 days 2024/07/2			2024/07/28 2024/08/03	0 days 0			I	3x drainlayer,2x labour 1x Excavator
	Drain Laying Manhole construction	5 days 2024/08/0 6 days 2024/08/0			2024/08/02 2024/08/06 2024/08/05 2024/08/10	0 days 0 0 days 0			I	
150 R	Reinstatement	5 days 2024/08/2	.1 2024/08/15 2024/08/11	1 2024/08/15 20	2024/08/11 2024/08/15	0 days 0			I	1x Excavator, 1x dump truck
	TTA removal onnection of ex. 550pipe to SHT.CP1	1 day 2024/08/2 28 days 2024/08/2			2024/08/16 2024/08/16 2026/06/30 2026/07/27	0 days 0 682 days 0			I	
153 SHT.	HT.B04~ SHT.A1A, 900PC, B,L = 13.155D = 2.06	28 days 2024/08/	17 2024/09/13 2024/08/17	7 2024/09/13 20	2024/08/17 2024/09/13	0 days			i	
		3 days 2024/08/2 5 days 2024/08/2	.7 2024/08/19 2024/08/17 .8 2024/08/22 2024/08/18		2024/08/17 2024/08/19 2024/08/18 2024/08/22	0 days 0 0 days 0			ï	1x Excavator with breaker
	TTA implementation		.8 2024/08/22 2024/08/18 21 2024/08/26 2024/08/21			0 days 0		<u> </u>	<u> </u>	1x Excavator
ision.: 1.4	TTA implementation Breaking pavement Excavation and Lateral Support		Milestone ·	*	Rolled Up Critical Task Rolled Up Milestone	*	Inactive Milestone		al Summary Rollup 🔷	Start-only External Milestone Project Summary Finish-only Split Group By Summary
in: {U/S}~{D/S},size	Breaking pavement		■ Summary - Rolled Up Task		Rolled Up Progress		- Manual Task	♦ Manual Page 10	al Summary •	External Tasks 🔷 External Tasks Deadline 🕀

					CONTRAC	T NO. DC/2022/02 -	DRAINAGE IMPROVEMENT WORK	S AT YUEN LONG - STAGE 2	
ID Task Name	Duration Start	Finish Early Star			Total Slack TRA	Half 1 A M J	2023, Half 2 J A S O N D	2024, Half 1	2024, Half 2 2025, Half 1 2025, Half 2 2026, Half 2 2026, Half 2 J A S O N D J F M A M J J A S O N
157 Manhole bedding construction 158 Drain Laying	7 days 2024/08/2 5 days 2024/08/3				0 days 0 0 days 0				3x drainlayer, 2x labour
159 Manhole construction	6 days 2024/09/0		2 2024/09/07 2024/09/02	2 2024/09/07	0 days 0				3x carpenter,2x abour
160 Reinstatement 161 TTA removal	5 days 2024/09/0 1 day 2024/09/1				0 days 0 0 days 0				1x Excavator, 1x dump truck
162 Connection of ex. UC to SHT.A1A	28 days 2024/09/1		4 2024/10/11 2026/06/30	0 2026/07/27	654 days 0				
163 SHT.B03~ SHT.B04, 900PC, B, L = 21, D = 1.97 164 TTA implementation	29 days 2024/09/1 4 days 2024/09/1				0 days 0 days 0	_			
165 Breaking pavement	5 days 2024/09/1				0 days 0				1x Excavator with breaker
166 Excavation and Lateral Support	6 days 2024/09/1				0 days 0				X 1x Excavator
167 Manhole bedding construction 168 Drain Laying	6 days 2024/09/2 6 days 2024/09/2				0 days 0 0 days 0	-			of 3x drainlayer.2x labour of 1x Excavator
169 Manhole construction	6 days 2024/10/0	01 2024/10/06 2024/10/0	1 2024/10/06 2024/10/03		0 days 0			i	3x carpenter, 2x: llabour
170 Reinstatement 171 TTA removal	5 days 2024/10/0 1 day 2024/10/1				0 days 0 0 days 0	_			1x Excavator, 1x dump truck
172 SHT.B02~ SHT.B03,900PC,B,L=36.94,D=1.72	56 days 2024/10/1	13 2024/12/07 2024/10/1			0 days				
173 Stage 1 174 TTA implementation	28 days 2024/10/1 4 days 2024/10/1				0 days 0 days 0	_			
175 Breaking pavement	5 days 2024/10/1				0 days 0				1x Excavat or with breaker
176 Excavation and Lateral Support 177 Manhole bedding construction	6 days 2024/10/1 5 days 2024/10/2				0 days 0 0 days 0				X Excavator 3x drainlayer 2x labour
178 Drain Laying	5 days 2024/10/2 6 days 2024/10/2				0 days 0	-			1x Excavator
179 Manhole construction	6 days 2024/10/2				0 days 0				3x carpenter, 2x labour
180 Reinstatement 181 TTA removal	5 days 2024/11/0 1 day 2024/11/0				0 days 0 0 days 0	-			1x Ekcavátor, 1x dump truck
182 Stage 2	28 days 2024/11/1	10 2024/12/07 2024/11/1	0 2024/12/07 2026/02/03	1 2026/02/28	448 days				
183 TTA implementation 184 Breaking pavement	4 days 2024/11/1 5 days 2024/11/1	.0 2024/11/13 2024/11/1 .2 2024/11/16 2024/11/1			448 days 0 448 days 0	_			1x Excavator with breaker
185 Excavation and Lateral Support	6 days 2024/11/1	5 2024/11/20 2024/11/1			448 days 0				Excavator
186 Manhole bedding construction 187 Drain Laying	5 days 2024/11/1				448 days 0	_			3k drainlayer, 2x lab our
187 Drain Laying 188 Manhole construction	6 days 2024/11/2 6 days 2024/11/2				448 days 0 448 days 0	-		1	3x carpenter,2x labour
189 Reinstatement	5 days 2024/12/0	02 2024/12/06 2024/12/0	2 2024/12/06 2026/02/2	3 2026/02/27	448 days 0				1x Excavator,1x dump truck
190 TTA removal 191 SHT.B01~ SHT.B02,900PC,B,L=61.6,D=1.59	1 day 2024/12/0 56 days 2024/12/0	07 2024/12/07 2024/12/0 08 2025/02/01 2024/12/ 0			448 days 0 448 days	-			
192 Stage 1	28 days 2024/12/0	08 2025/01/04 2024/12/0	8 2025/01/04 2026/03/03	1 2026/03/28	448 days			i	
193 TTA implementation 194 Breaking pavement	4 days 2024/12/0 5 days 2024/12/1				448 days 0 448 days 0	_			1x Excavator with breaker
195 Excavation and Lateral Support	6 days 2024/12/1				448 days 0	-			1x Excavator
196 Manhole bedding construction	5 days 2024/12/1				448 days 0				3x drainlayer,2x lab our 1x Excavator
197 Drain Laying 198 Manhole construction	6 days 2024/12/2 6 days 2024/12/2				448 days 0 448 days 0				3x carpenter, 2x labour
199 Reinstatement	5 days 2024/12/3				448 days 0				1x Excavator, 1x dump truck
200 TTA removal 201 Stage 2	1 day 2025/01/0 28 days 2025/01/0				448 days 0 448 days				
202 TTA implementation	4 days 2025/01/0				448 days 0			1	
203 Breaking pavement 204 Excavation and Lateral Support	5 days 2025/01/0 6 days 2025/01/1				448 days 0 448 days 0				1x Excavator with breaker
205 Manhole bedding construction	5 days 2025/01/1				448 days 0	-		i	x drainlayer,2x labour
206 Drain Laying 207 Manhole construction	6 days 2025/01/1 6 days 2025/01/2				448 days 0 448 days 0	_			1x Excavator
208 Reinstatement	5 days 2025/01/2				448 days 0	-			1x Excavator, 1x dump truck
209 TTA removal	1 day 2025/02/0				448 days 0				
210 SHT.CP2~ SHT.B01, 900PC, B, L = 10.36, D = 1.59 211 TTA implementation	30 days 2025/02/0 3 days 2025/02/0	02 2025/03/03 2025/02/0 02 2025/02/04 2025/02/0			448 days 448 days 0				
212 Breaking pavement	6 days 2025/02/0				448 days 0				1x Excavator with breaker
213 Excavation and Lateral Support 214 Manhole bedding construction	6 days 2025/02/0 6 days 2025/02/1				448 days 0 448 days 0	-			1x Excavator
215 Drain Laying	6 days 2025/02/1	.5 2025/02/20 2025/02/1	5 2025/02/20 2026/05/09	9 2026/05/14	448 days 0				🛣 1x Excavat or
216 Manhole construction 217 Reinstatement	7 days 2025/02/1 5 days 2025/02/2				448 days 0 448 days 0				3x carpenter, 2x labour 1x Excavator, 1x dump truck
218 TTA removal	1 day 2025/03/0	3 2025/03/03 2025/03/0	3 2025/03/03 2026/05/25	5 2026/05/25	448 days 0			i	
219 CCTV inspection Reinstatement	28 days 2025/03/0 35 days 2025/04/0	04 2025/03/31 2025/03/0 01 2025/05/05 2025/04/0			448 days 0 448 days 0	_			
221 U-Channel Works (West)	444 days 2024/11/1	10 2026/01/27 2024/11/1	0 2026/01/27 2024/11/1		0 days				• • • • • • • • • • • • • • • • • • •
222 SHT.CP2.5~ SHT.CP2,300->900CU(G),L=11.4	,	0 2024/11/29 2024/11/1		0 2024/11/29	0 days				x Excavator
223 Excavation and Lateral Support 224 Formwork Erection		.0 2024/11/15 2024/11/1 4 2024/11/22 2024/11/1			0 days 0 0 days 0	-			X Excayator Zx carpenter
225 Catchpit construcion	9 days 2024/11/2	1 2024/11/29 2024/11/2	1 2024/11/29 2024/11/2	1 2024/11/29	0 days 0				2x carpenter
226 Concreting 227 SHT.CP3~SHT.CP2.5,300->900CU(G),L=66.5		28 2024/11/28 2024/11/2 29 2025/02/06 2024/11/ 2			0 days 0 0 days				Concrete gang
228 Stage 1	24 days 2024/11/2	29 2024/12/22 2024/11/2	9 2024/12/22 2024/11/2	9 2024/12/22	0 days			i	
Excavation and Lateral Support Formwork Erection		9 2024/12/06 2024/11/2 5 2024/12/14 2024/12/0			0 days 0 0 days 0	_		i	1x Excavator
231 Catchpit construcion		.3 2024/12/14 2024/12/0 .3 2024/12/22 2024/12/1			0 days 0	-			3.2 x carpenter
Concreting	1 day 2024/12/2				0 days 0				Concrete gang
Stage 2 Excavation and Lateral Support		22 2025/01/14 2024/12/2 22 2024/12/29 2024/12/2			0 days 0 days 0	-			x Excavator
Formwork Erection	10 days 2024/12/2	8 2025/01/06 2024/12/2	8 2025/01/06 2024/12/28	8 2025/01/06	0 days 0				x carpenter
Catchpit construcion Concreting	10 days 2025/01/0 1 day 2025/01/1				0 days 0 0 days 0				Z carpenter
Stage 3	24 days 2025/01/1	14 2025/02/06 2025/01/1	4 2025/02/06 2025/01/14	4 2025/02/06	0 days			1	
39 Excavation and Lateral Support 40 Formwork Erection	8 days 2025/01/1 10 days 2025/01/2	.4 2025/01/21 2025/01/1 .0 2025/01/29 2025/01/2			0 days 0 0 days 0			i	1x Excavator
241 Catchpit construcion		8 2025/02/06 2025/01/2			0 days 0			i	🐹 2x carpenter
24.2 Concreting	1 day 2025/02/0	05 2025/02/05 2025/02/0	5 2025/02/05 2025/02/05	5 2025/02/05	0 days 0				Concrete gang
243 SHT.CP3.3~SHT.CP3,300->450CU(G),L=54.5 244 Stage 1	76 days 2025/02/0 24 days 2025/02/0	06 2025/04/22 2025/02/0 06 2025/03/01 2025/02/0			0 days 0 days	\dashv			
245 Ex cavation and Lateral Support	8 days 2025/02/0	06 2025/02/13 2025/02/0	6 2025/02/13 2025/02/06	6 2025/02/13	0 days 0				1x Excavator
246 Formwork Erection 247 Catchpit construcion		.2 2025/02/21 2025/02/1 :0 2025/03/01 2025/02/2		2 2025/02/21 0 2025/03/01	0 days 0 0 days 0				2x carpenter
Task	10 days 2023/02/2	Milestone		p Critical Task		Inactive Milestone	Duratio	-only	
rision.: 1.4 Date: 25 September 2023 Critical Task		Summary		p Milestone	♦	Inactive Milestone	Duratio Manual	•	Finish-only Split Group By Summary
			, Rolled 0			Janiniary		,	,
Progress	-	 Rolled Up Task 	Rolled II	p Progress		Manual Task	Manual	Summary 🔷	External Tasks 🔷 External Tasks Deadline 💠

									CONTR	ACT NO. DC/20	122/02 - DRA	AINAGE IMPROVE	MENT WORKS	AT YUEN LONG - STA	AGE 2				
ID Task Name		Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish			l l	2023, Half 2 A S O	N D	2024, Half 1 F M A M		2024, Half 2 A S O N D	2025, Half 1 J F M A M J	2025, Half 2 2026, Half 1 J A S O N D J F M A M J	2026, Half 2 J A S O N D
248 Concret 249 Stage 2	ing	1 day 27 days	2025/02/28 2025/03/01	2025/02/28 2025/03/27	2025/02/28 2025/03/01	2025/02/28 2025/03/27		2025/02/28 2025/03/27	0 days 0 days	0	Ì				i		Concrete gang		
	ion and Lateral Support ork Erection	8 days 12 days	2025/03/01 2025/03/07	2025/03/08 2025/03/18	2025/03/01 2025/03/07	2025/03/08 2025/03/18		2025/03/08 2025/03/18	0 days 0 days))	İ	İ	1		Ì		1x Excavator 2x carpenter		I I
252 Catchpit	t construcion	11 days	2025/03/17	2025/03/27	2025/03/17	2025/03/27	2025/03/17	2025/03/27	0 days	5	1	 			I L	I I	2x carp enter		I I
253 Concret 254 Stage 3	ing	1 day 27 days	2025/03/26 2025/03/27	2025/03/26 2025/04/22	2025/03/26 2025/03/27	2025/03/26 2025/04/22		2025/03/26 2025/04/22	0 days 0 days	0		 			1		Concrete gang		1
	ion and Lateral Support ork Erection	8 days 12 days	2025/03/27 2025/04/02	2025/04/03 2025/04/13	2025/03/27 2025/04/02	2025/04/03 2025/04/13		2025/04/03 2025/04/13	0 days 0 days)			-				1x Excavator 2x carpenter		
257 Catchpit	t construcion	11 days	2025/04/12	2025/04/22	2025/04/12	2025/04/22	2025/04/12	2025/04/22	0 days	5			- 1			1	2x carpente		
258 Concret 259 SHT.CP3.5~Sh	ting HT.CP3.3,300->450CU(G),L=43.3	1 day 57 days	2025/04/21 2025/04/22	2025/04/21 2025/06/17	2025/04/21 2025/04/22	2025/04/21 2025/06/17		2025/04/21 2025/06/17	0 days 0 days	0	į		į			İ	Concrete ga	ng '	
260 Stage 1 261 Excavati	ion and Lateral Support	29 days	2025/04/22	2025/05/20	2025/04/22	2025/05/20	2025/04/22	2025/05/20 2025/05/01	0 days	2	į	i	į		i	į	1x Excava	or	
	ork Erection	10 days 12 days	2025/04/22 2025/04/30	2025/05/01 2025/05/11	2025/04/22 2025/04/30	2025/05/01 2025/05/11		2025/05/01	0 days 0 days	0	1		1		1	1	2x carp e	nter	I I
263 Catchpit 264 Concret	t construcion	11 days 1 day	2025/05/10 2025/05/19	2025/05/20 2025/05/19	2025/05/10 2025/05/19	2025/05/20 2025/05/19		2025/05/20 2025/05/19	0 days 0 days	0	1	 			1 1	I I	2x carp		
265 Stage 2	_	29 days	2025/05/20	2025/06/17	2025/05/20	2025/06/17	2025/05/20	2025/06/17	0 days			!					•		I I
	ion and Lateral Support ork Erection	10 days 12 days	2025/05/20 2025/05/28	2025/05/29 2025/06/08	2025/05/20 2025/05/28	2025/05/29 2025/06/08		2025/05/29 2025/06/08	0 days 0 days	0							000_	cavator carpenter	
268 Catchpit 269 Concret	t construcion	11 days 1 day	2025/06/07 2025/06/16	2025/06/17 2025/06/16	2025/06/07 2025/06/16	2025/06/17 2025/06/16		2025/06/17 2025/06/16	0 days 0 days	0			į		į	! !		x carpenter oncrete gang	!
270 End~SHT.CP3	3.5,300->450CU(G),L=107.7	113 days	2025/06/17	2025/10/07	2025/06/17	2025/10/07	2025/06/17	2025/10/07	0 days		į	į į	į		Ì	į	<u>-</u>		
271 Stage 1 272 Excavati	ion and Lateral Support	29 days 10 days	2025/06/17 2025/06/17	2025/07/15 2025/06/26	2025/06/17 2025/06/17	2025/07/15 2025/06/26		2025/07/15 2025/06/26	0 days 0 days	0	İ	İ	İ		į	1		1x Excavator	i I
	ork Erection t construcion	12 days 11 days	2025/06/25 2025/07/05	2025/07/06 2025/07/15	2025/06/25 2025/07/05	2025/07/06 2025/07/15		2025/07/06 2025/07/15	0 days 0 days	0	I I	1				1	Ì	2x carpenter 2x carpenter	I I
275 Concret		1 day	2025/07/14	2025/07/14	2025/07/14	2025/07/14	2025/07/14	2025/07/14	0 days	0	 	 	1			1		Concrete gang	I I
276 Stage 2 277 Excavati	ion and Lateral Support	29 days 10 days	2025/07/15 2025/07/15	2025/08/12 2025/07/24	2025/07/15 2025/07/15	2025/08/12 2025/07/24		2025/08/12 2025/07/24	0 days 0 days	0	 		!					1x Excavator	I I
278 Formwo	ork Erection	12 days 11 days	2025/07/23 2025/08/02	2025/08/03 2025/08/12	2025/07/23 2025/08/02	2025/08/03 2025/08/12	2025/07/23	2025/08/03 2025/08/12	0 days 0 days	2						!		2x carpenter	1
280 Concret	t construcion ing	1 day	2025/08/11	2025/08/11	2025/08/11	2025/08/11	2025/08/11	2025/08/11	0 days	0	İ							Concrete gang	
281 Stage 3 282 Excavati	ion and Lateral Support	29 days 10 days	2025/08/12 2025/08/12	2025/09/09 2025/08/21	2025/08/12 2025/08/12	2025/09/09 2025/08/21		2025/09/09 2025/08/21	0 days 0 days	<u> </u>	į		i		ill -			1x Excavator	
283 Formwo	ork Erection	12 days	2025/08/20	2025/08/31	2025/08/20	2025/08/31	2025/08/20	2025/08/31	0 days	0	i I	i	i		ill	į		2x carpenter	I I
284 Catchpit 285 Concret	t construcion ing	11 days 1 day	2025/08/30 2025/09/08	2025/09/09 2025/09/08	2025/08/30 2025/09/08	2025/09/09 2025/09/08		2025/09/09 2025/09/08	0 days 0 days	0	1	 	1		1	I I		Concrete gang	I I
286 Stage 4 287 Excavati	ion and Lateral Support	29 days 10 days	2025/09/09 2025/09/09	2025/10/07 2025/09/18	2025/09/09 2025/09/09	2025/10/07 2025/09/18		2025/10/07 2025/09/18	0 days 0 days		1	 			1 1	I I		1x Excavator	
288 Formwo	ork Erection	12 days	2025/09/17	2025/09/28	2025/09/17	2025/09/28	2025/09/17	2025/09/28	0 days	5		!	- 1			1		2x carpenter]
289 Catchpit 290 Concret	t construcion ing	11 days 1 day	2025/09/27 2025/10/06	2025/10/07 2025/10/06	2025/09/27 2025/10/06	2025/10/07 2025/10/06		2025/10/07 2025/10/06	0 days 0 days	0			-					≥ 2x carpenter Concrete gang	
291 End~ex. UC, 4! 292 Stage 1	5 0 CU (G), L = 70	113 days 29 days		2026/01/27 2025/11/04		2026/01/27 2025/11/04		2026/01/27 2025/11/04	0 days 0 days				į		į	! !		▼	!
293 Ex cavati	ion and Lateral Support	10 days	2025/10/07	2025/10/16	2025/10/07	2025/10/16	2025/10/07	2025/10/16	0 days	0	į	į į	į		Ì	į		1x Excavator	i I
	ork Erection t construcion	12 days 11 days	2025/10/15 2025/10/25	2025/10/26 2025/11/04	2025/10/15 2025/10/25	2025/10/26 2025/11/04		2025/10/26 2025/11/04	0 days 0 days	0	İ	İ	İ		į	i 1		2x carpenter	i I
296 Concret 297 Stage 2		1 day	2025/11/03	2025/11/03	2025/11/03	2025/11/03 2025/12/02	2025/11/03	2025/11/03 2025/12/02	0 days)	1	 			1	I		Concrete gang	I I
298 Ex cavati	ion and Lateral Support	29 days 10 days	2025/11/04 2025/11/04	2025/12/02 2025/11/13	2025/11/04	2025/11/13		2025/11/13	0 days 0 days	0		 				1		1x Excavator	1
	ork Erection t construcion	12 days 11 days		2025/11/23 2025/12/02	2025/11/12 2025/11/22	2025/11/23 2025/12/02		2025/11/23 2025/12/02	0 days 0 days	0			-					2x carpenter	
301 Concret		1 day	2025/12/01	2025/12/01	2025/12/01	2025/12/01	2025/12/01	2025/12/01	0 days)			- 1		i			Concrete gang	
	ion and Lateral Support	29 days 10 days	2025/12/02	2025/12/30 2025/12/11	2025/12/02	2025/12/30 2025/12/11		2025/12/30 2025/12/11	0 days 0 days	0	į	į	į			į		1x Excavator	
	ork Erection t construcion	12 days 11 days	2025/12/10	2025/12/21 2025/12/30	2025/12/10 2025/12/20	2025/12/21 2025/12/30		2025/12/21 2025/12/30	0 days 0 days	0	į	İ	į		i	i		2x carpenter 2x carpenter	I I
306 Concret		1 day	2025/12/29	2025/12/29	2025/12/29	2025/12/29	2025/12/29	2025/12/29	0 days	0	1	 	1		1	1		Concrete gang	I I
307 Stage 4 308 Excavati	ion and Lateral Support	29 days 10 days	2025/12/30	2026/01/27 2026/01/08	2025/12/30 2025/12/30	2026/01/27 2026/01/08		2026/01/27 2026/01/08	0 days 0 days	0	I I		1		1	I 		1x Excavator	I I
	ork Erection t construcion	12 days 11 days		2026/01/18 2026/01/27		2026/01/18 2026/01/27		2026/01/18 2026/01/27	0 days 0 days))						!		2x carpenter	1
311 Concret	ing	1 day	2026/01/26	2026/01/26	2026/01/26	2026/01/26	2026/01/26	2026/01/26	0 days	0								Concrete gang	1
312 U-Channel Work 313 SHT.CP11~SH	ts (East) HT. CP10E, 750CU (HD-G), L=19.8	570 days 29 days		2026/01/27 2024/08/04	2024/07/07 2024/07/07	2026/01/27 2024/08/04		2026/07/27 2024/08/04	0 days 0 days		İ				#	-			
	and Lateral Support	10 days 12 days	2024/07/07	2024/07/16 2024/07/26	2024/07/07 2024/07/15	2024/07/16 2024/07/26	2024/07/07	2024/07/16	0 days 0 days	0	i I	İ	į			1x Excavator 2x carpenter			I I
316 Catchpit co	onstrucion	11 days	2024/07/25	2024/08/04	2024/07/25	2024/08/04	2024/07/25	2024/08/04	0 days	0	İ	; 	i			2x carpenter		i I I	I I
317 Concreting 318 SHT.CP10E~S	5HT.CP 10D, 75 0CU(HD-G), L = 23.7	1 day 36 days	2024/08/03 2024/08/04	2024/08/03 2024/09/08	2024/08/03 2024/08/04	2024/08/03 2024/09/08		2024/08/03 2024/09/08	0 days 0 days	0	 	 			1	Concrete gang]	
319 Excavation	and Lateral Support	13 days	2024/08/04	2024/08/16	2024/08/04	2024/08/16	2024/08/04	2024/08/16	0 days	0	<u> </u>	 	1		I I	1x Excavator			
320 Formwork I 321 Catchpit co	onstrucion	14 days 13 days	2024/08/27	2024/08/28 2024/09/08	2024/08/27	2024/09/08	2024/08/27	2024/08/28 2024/09/08	0 days 0 days	0	[[!		I I	2x carpenter			I I
322 Concreting 323 SHT.CP10D~S	SHT. CP 10C, 75 0CU (HD-G), L = 11.9	1 day 24 days		2024/09/07 2024/10/01		2024/09/07 2024/10/01		2024/09/07 2024/10/01	0 days 0 days	0	 	 			1	Concrete gang			1
324 Excavation	and Lateral Support	8 days	2024/09/08	2024/09/15	2024/09/08	2024/09/15	2024/09/08	2024/09/15	0 days	0	1					1x Excavator			1
325 Formwork I 326 Catchpit co		10 days 10 days		2024/09/23 2024/10/01	2024/09/14 2024/09/22	2024/09/23 2024/10/01		2024/09/23 2024/10/01	0 days 0 days	5	į	İ	į		į	2x carpenter 2x carpenter			i I I
327 Concreting 328 SHT.CP10C~S	5HT.CP10B,750CU(HD-G),L=6.5	1 day 17 days	2024/09/30 2024/10/01	2024/09/30 2024/10/17	2024/09/30	2024/09/30 2024/10/17		2024/09/30 2024/10/17	0 days 0 days	0	I I	i I	i		I.	Concrete gang			I I
329 Excavation	and Lateral Support	6 days	2024/10/01	2024/10/06	2024/10/01	2024/10/06	2024/10/01	2024/10/06	0 days	0	I I	 	1		I I	1x Excavat or		1 1	I I
330 Formwork I 331 Catchpit co		8 days 7 days	2024/10/05 2024/10/11	2024/10/12 2024/10/17	2024/10/05 2024/10/11	2024/10/12 2024/10/17		2024/10/12 2024/10/17	0 days 0 days	0	1	 			 	2x carpenter 2x carpenter			I I
332 Concreting	I	1 day	2024/10/16	2024/10/16	2024/10/16	2024/10/16	2024/10/16	2024/10/16	0 days	0	 		!		Į Į	Concrete gang			
334 Excavation	SHT.CP10A, 75 0 CU (HD-G), L = 6.4 and Lateral Support	17 days 6 days		2024/11/02 2024/10/22		2024/11/02 2024/10/22		2024/11/02 2024/10/22	0 days 0 days	0	I I				[1x Excavator			1
335 Formwork I 336 Catchpit co		8 days 7 days	2024/10/21 2024/10/27	2024/10/28 2024/11/02	2024/10/21 2024/10/27	2024/10/28 2024/11/02		2024/10/28 2024/11/02	0 days 0 days	0	 	 				2x carp enter 2x carp ente			1
337 Concreting	ı	1 day	2024/11/01	2024/11/01	2024/11/01	2024/11/01	2024/11/01	2024/11/01	0 days	0					İ	Concrete ga		! !	
338 SHT.CP10A~S	5HT.CP10,75 0CU (HD-G),L = 26.7	39 days			2024/11/02	2024/12/10	2024/11/02 Rolled Up C		0 days	Inactive 649	lectors		Durcette	only	i	Start-only —	Fork core =1 8 8 9	Droinet Cummari	<u> </u>
Revision.: 1.4 Date: 25	Task 5 September 2023 Critical Task			Milestone Summary	•		Rolled Up C Rolled Up N		♦	Inactive Mil Inactive Sur			Duration ::: Manual	only ummary Rollup ♦		Start-only ====================================	External Miles	one Project Summary Group By Summary	─ ▼
	Progress			Rolled Up Tas	k 🔣	`	Rolled Up P		1	Manual Tas	,	\$		ummary •		External Tasks	External Tasks	Deadline &	

		WING TAT CIVIL ENGINEERING CO LTD CONTRACT NO. DC/2022/02 - DRAINAGE IMPROVEMENT WORKS AT YUEN LONG - STAGE 2	
ID Task N	Name	Duration Start Finish Early Start Early Finish Late Start Late Finish Total Slack TRA Half 1 2023, Half 2 2024, Half 1 2024, Half 2 2024, Half 2 2025, Half 1	2025, Half 2
339 340	Excavation and Lateral Support Formwork Erection	14 days 2024/11/02 2024/11/15 2024/11/02 2024/11/02 2024/11/05 2024/11/05 2024/11/05 0 days 0	
341	Catchpit construcion	14 days 2024/11/27 2024/12/10 2024/11/27 2024/12/10 2024/12/10 2024/12/10 2024/12/10 0 days 0	
342 343 S	Concreting SHT. CP10~SHT. CP9, 750CU(HD-G), L = 4.3	1 day 2024/12/09 2024/12/09 2024/12/09 2024/12/09 2024/12/09 2024/12/09 2024/12/09 0 days 0 17 days 2024/12/10 2024/12/26 2024/12/10 2024/12/26 2024/12/10 2024/12/26 0 days	
344	Excavation and Lateral Support	6 days 2024/12/10 2024/12/15 2024/12/15 2024/12/15 2024/12/15 2024/12/15 2024/12/15 0 days 0	
345 346	Formwork Erection Catchpit construcion	8 days 2024/12/14 2024/12/21 2024/12/21 2024/12/21 2024/12/21 2024/12/21 2024/12/21 2024/12/21 0 days 0 7 days 2024/12/20 2024/12/20 2024/12/20 2024/12/20 2024/12/20 2024/12/20 0 days 0	
347 348 S	Concreting	1 day 2024/12/25 2024/12/25 2024/12/25 2024/12/25 2024/12/25 2024/12/25 0 days 0	
349	SHT.CP9~ SHT.CP8, 600CU(HD-G), L=33.7 Stage 1	45 days 2024/12/26 2025/02/08 2024/12/26 2025/02/08 2024/12/26 2025/02/08 2024/12/26 2025/02/08 0 days 24 days 2024/12/26 2025/01/18 2024/12/26 2025/01/18 2024/12/26 2025/01/18 2024/12/26 2025/01/18 0 days	
350 351	Ex cavation and Lateral Support Formwork Erection	8 days 2024/12/26 2025/01/02 2025/01/02 2025/01/02 2025/01/02 2025/01/02 2025/01/02 2025/01/01 2025/01/10 2025	
352	Catchpit construcion	10 days 2025/01/09 2025/01/18 2025/01/18 2025/01/18 2025/01/18 2025/01/18 2025/01/18 0 days 0	
353 354	Concreting Stage 2	1 day 2025/01/17 2025/01/17 2025/01/17 2025/01/17 2025/01/17 2025/01/17 2025/01/17 2025/01/17 0 days 0 22 days 2025/01/18 2025/02/08 2025/01/18 2025/02/08 2025/01/18 2025/02/08 0 days	
355	Excavation and Lateral Support	8 days 2025/01/18 2025/01/25 2025/01/18 2025/01/25 2025/01/18 2025/01/25 2025/01/18 2025/01/25 0 days 0	
356 357	Formwork Erection Catchpit construcion	10 days 2025/01/24 2025/02/02 2025/01/24 2025/02/02 2025/01/24 2025/02/02 2025/01/24 2025/02/02 0 days 0 Sdays 2025/02/01 2025/02/08 2025/02/08 2025/02/08 2025/02/08 2025/02/08 2025/02/08 2025/02/08 2025/02/08 2025/02/08 0 days 0	
358 359 C	Concreting Connection of ex. 300CU to SHT.CP8	1 day 2025/02/07 2025/02/07 2025/02/07 2025/02/07 2025/02/07 2025/02/07 2025/02/07 2025/02/07 0 days 0 28 days 2025/02/06 2025/03/05 2025/02/06 2025/03/05 2025/03/05 2026/06/30 2026/07/27 509 days 0	
360 S	SHT.CP8~ SHT.CP7, 600CU(HD-G), L=8.5	17 days 2025/02/08 2025/02/24 2025/02/24 2025/02/24 2025/02/24 2025/02/24 0 days	
361 362	Excavation and Lateral Support Formwork Erection	6 days 2025/02/08 2025/02/13 2025/02/13 2025/02/13 2025/02/13 2025/02/13 2025/02/13 2025/02/13 0 days 0 8 days 2025/02/12 2025/02/12 2025/02/19 2025/02/19 2025/02/19 2025/02/19 0 days 0	
363	Catchpit construcion	7 days 2025/02/18 2025/02/24 2025/02/24 2025/02/24 2025/02/24 2025/02/24 0 days 0	
364 365 R	Concreting Reconstruction of U/S end wall	1 day 2025/02/23 2025/02/23 2025/02/23 2025/02/23 2025/02/23 2025/02/23 2025/02/23 2025/02/23 0 days 0 21 days 2025/02/22 2025/03/14 2025/02/22 2025/03/14 2026/07/07 2026/07/27 500 days 0	
	SHT.CP7~ SHT.CP6, 600CU(HD-G), L=130.8	141 days 2025/02/24 2025/07/14 2025/02/24 2025/07/14 2025/07/14 2025/02/24 2025/07/14 0 days	
368	Stage 1 Excavation and Lateral Support	29 days 2025/02/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/05 2025/02/24 2025/02/24 202	
369 370	Formwork Erection Catchpit construcion	12 days 2025/03/04 2025/03/15 2025/03/15 2025/03/15 2025/03/15 2025/03/15 2025/03/15 2025/03/15 0 days 0 11 days 2025/03/14 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 0 days 0	į
371	Concreting	1 day 2025/03/23 2025/03/23 2025/03/23 2025/03/23 2025/03/23 2025/03/23 2025/03/23 0205/	
372 373	Stage 2 Excavation and Lateral Support	29 days 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/03/24 2025/04/21 2025/03/24 2025/04/22 005/03/24 2025/04/02 2025/03/24 2025/04/02 0 days 0	
374 375	Formwork Erection	12 days 2025/04/01 2025/04/12 2025/04/12 2025/04/12 2025/04/12 2025/04/12 2025/04/12 0 days 0	1 1
376	Catchpit construcion Concreting	11 days 2025/04/11 2025/04/21 2025/04/21 2025/04/21 2025/04/21 2025/04/21 2025/04/21 2025/04/21 2025/04/20 0 days 0 1 day 2025/04/20 2025/04/20 2025/04/20 2025/04/20 2025/04/20 2025/04/20 0 days 0	
377 378	Stage 3 Excavation and Lateral Support	29 days 2025/04/21 2025/05/19 2025/04/21 2025/05/19 2025/05/19 2025/05/19 2025/05/19 0 days 10 days 2025/04/21 2025/04/30 2025/04/30 2025/04/30 2025/04/30 2025/04/30 0 days 0	
379	Formwork Erection	12 days 2025/04/29 2025/05/10 2025/05/10 2025/05/10 2025/05/10 2025/05/10 2025/05/10 0 days 0	
380 381	Catchpit construcion Concreting	11 days 2025/05/09 2025/05/19 2025/05/19 2025/05/19 2025/05/19 2025/05/19 2025/05/19 2025/05/19 0 days 0 1 day 2025/05/18 2025/05/18 2025/05/18 2025/05/18 2025/05/18 2025/05/18 2025/05/18 2025/05/18 0 days 0	
382	Stage 4	29 days 2025/05/19 2025/06/16 2025/05/19 2025/06/16 2025/06/16 2025/05/19 2025/06/16 0 days	
383 384	Ex cavation and Lateral Support Formwork Erection	10 days 2025/05/19 2025/05/28 2025/05/19 2025/05/28 2025/05/28 2025/05/28 2025/05/28 2025/05/28 0 days 0 12 days 2025/05/27 2025/06/07 2025/05/27 2025/06/07 2025/05/27 2025/06/07 2025/06/07 0 days 0	
385 386	Catchpit construcion Concreting	11 days 2025/06/06 2025/06/16 2025/06/16 2025/06/16 2025/06/16 2025/06/16 2025/06/16 2025/06/16 0 days 0 1 day 2025/06/15 2025/06/15 2025/06/15 2025/06/15 2025/06/15 2025/06/15 2025/06/15 0 days 0	
387	Stage 5	29 days 2025/06/16 2025/07/14 2025/06/16 2025/07/14 2025/07/14 2025/06/16 2025/07/14 0 days	
388 389	Ex cavation and Lateral Support Formwork Erection	10 days 2025/06/16 2025/06/25 2025/06/25 2025/06/25 2025/06/25 2025/06/25 2025/06/25 2025/06/25 0 days 0 12 days 2025/06/24 2025/07/05 2025/06/24 2025/07/05 2025/06/24 2025/07/05 0 days 0	
390	Catchpit construcion	11 days 2025/07/04 2025/07/14 2025/07/14 2025/07/14 2025/07/14 2025/07/14 0 days 0	rpenter rete gang
391 392 C	Concreting Connection of ex. 400CU to SHT.CP6	1 day 2025/07/13 2025/07/13 2025/07/13 2025/07/13 2025/07/13 2025/07/13 2025/07/13 2025/07/13 0 days 0 28 days 2025/07/12 2025/08/08 2025/07/12 2025/08/08 2026/06/30 2026/07/27 353 days 0	ete gang
393 S	SHT.CP6~ SHT.CP5, 600CU(HD-G), L = 24.1 Excavation and Lateral Support	36 days 2025/07/14 2025/08/18 2025/07/14 2025/08/18 2025/07/14 2025/08/18 2025/07/14 2025/08/18 0 days 13 days 2025/07/14 2025/07/26 2025/07/26 2025/07/26 2025/07/26 2025/07/26 0 days 0	Excavator
395	Formwork Erection	14 days 2025/07/25 2025/08/07 2025/08/07 2025/08/07 2025/08/07 0 days 0	2x carpenter
396 397	Catchpit construcion Concreting		2x carpenter Concrete gang
	Connection of ex. 400CU to SHT.CP5 SHT.CP5~SHT.CP4,600CU(HD-G),L=73.9	28 days 2025/08/16 2025/09/12 2025/08/16 2025/09/12 2026/06/30 2026/07/27 318 days 0	
400	Stage 1	85 days	
401 402	Ex cavation and Lateral Support Formwork Erection	10 days 2025/08/18 2025/08/27 2025/08/18 2025/08/27 2025/08/28 2025/08/27 2025/08/27 0 days 0 12 days 2025/08/26 2025/09/06 2025/08/26 2025/09/06 2025/09/06 2025/09/06 0 days 0	1x Excavator 2x carpenter
403	Catchpit construcion	11 days 2025/09/05 2025/09/15 2025/09/15 2025/09/15 2025/09/15 2025/09/15 2025/09/15 0 days 0	2x carpenter
404 405	Concreting Stage 2	1 day 2025/09/14 2025/09/14 2025/09/14 2025/09/14 2025/09/14 2025/09/14 2025/09/14 0 days 0 29 days 2025/09/15 2025/10/13 2025/09/15 2025/10/13 2025/09/15 2025/10/13 0 days	Concrete gang
406 407	Ex cavation and Lateral Support Formwork Erection	10 days 2025/09/15 2025/09/24 2025/09/24 2025/09/24 2025/09/24 2025/09/24 0 days 0 12 days 2025/09/23 2025/10/04 2025/09/23 2025/10/04 2025/09/23 2025/10/04 0 days 0	1x Excavator 2x carpenter
408	Catchpit construcion	11 days 2025/10/03 2025/10/13 2025/10/13 2025/10/13 2025/10/13 2025/10/13 2025/10/13 0 days 0	2x carpenter
409 410	Concreting Stage 3	1 day 2025/10/12 2025/10/12 2025/10/12 2025/10/12 2025/10/12 2025/10/12 2025/10/12 2025/10/12 0 days 0 29 days 2025/10/13 2025/11/10 2025/11/10 2025/11/10 2025/11/10 2025/11/10 0 days	Concrete gang
411	Excavation and Lateral Support	10 days 2025/10/13 2025/10/22 2025/10/13 2025/10/22 2025/10/13 2025/10/22 2025/10/13 2025/10/22 0 days 0	1x Excavator
412 413	Formwork Erection Catchpit construcion	12 days 2025/10/21 2025/11/01 2025/11/01 2025/11/01 2025/11/01 2025/11/01 2025/11/01 2025/11/01 0 days 0 11 days 2025/10/31 2025/11/10	🚵 2x carpenter 🛣 2x carpenter
414	Concreting	1 day 2025/11/09 2025/11/09 2025/11/09 2025/11/09 2025/11/09 2025/11/09 2025/11/09 0 days 0	Concrete gang
416 S	Connection of ex. 450CU to SHT.CP4 SHT.CP4~End,525CU(HD-G), L=82.3	28 days 2025/11/08 2025/12/05 2025/11/08 2025/12/05 2025/12/05 2026/06/30 2026/07/27 234 days 0 79 days 2025/11/10 2026/01/27 2025/11/10 2026/01/27 2025/11/10 2026/01/27 2025/11/10 2026/01/27 0 days	***
417 418	Stage 1 Excavation and Lateral Support	27 days 2025/11/10 2025/12/06 2025/11/10 2025/12/06 2025/11/10 2025/12/06 2025/11/10 0 days 10 days 2025/11/10 2025/11/19 2025/11/19 2025/11/19 2025/11/19 2025/11/19 0 days 0	1x Excavator
419	Formwork Erection	11 days 2025/11/18 2025/11/28 2025/11/18 2025/11/28 2025/11/28 2025/11/28 025/11/28 0 days 0	2x carpenter
420 421	Catchpit construcion Concreting	10 days 2025/11/27 2025/12/06 2025/11/27 2025/12/06 2025/12/07 2025/12/06 2025/12/07 2025/12/05 2025/12/	💑 2x carpenter Concrete gang
422	Stage 2	27 days 2025/12/06 2026/01/01 2025/12/06 2026/01/01 2025/12/06 2026/01/01 2025/12/06 2026/01/01 0 days	1x Excavator
423 424	Excavation and Lateral Support Formwork Erection	10 days 2025/12/06 2025/12/15 2025/12/15 2025/12/15 2025/12/15 2025/12/15 2025/12/15 0 days 0 11 days 2025/12/14 2025/12/24 2025/12/14 2025/12/24 2025/12/14 2025/12/24 0 days 0	2x carpenter
425 426	Catchpit construcion Concreting	10 days 2025/12/23 2026/01/01 2025/12/23 2026/01/01 2025/12/3 2026/01/01 2025/12/3 2026/01/01 0 days 0 1 day 2025/12/31 2025/12/31 2025/12/31 2025/12/31 2025/12/31 2025/12/31 0 days 0	Zx carpenter Concrete gang
427	Stage 3	27 days 2026/01/01 2026/01/27 2026/01/27 2026/01/27 2026/01/27 2026/01/27 0 days	—
428 429	Ex cavation and Lateral Support Formwork Erection	10 days 2026/01/01 2026/01/10 2026/01/10 2026/01/10 2026/01/10 2026/01/10 2026/01/10 0 days 0 11 days 2026/01/09 2026/01/19 2026/01/19 2026/01/19 2026/01/19 2026/01/19 0 days 0	X 1x Excavator 2x carpenter
123	Task	Milestone ♦ Rolled Up Critical Task Inactive Milestone Duration-only Start-only	Project Summary
Revision.: 1.4	Date: 25 September 2023 Critical Task	Summary V Rolled Up Milestone ♦ Inactive Namery Manual Summary Rollup ♦ Finish-only ▼ Split	Group By Summary
	Progress	Rolled Up Task Rolled Up Progress — Manual Task \Diamond Manual Summary \blacklozenge External Tasks \Diamond External Tasks	Deadline &
	-		

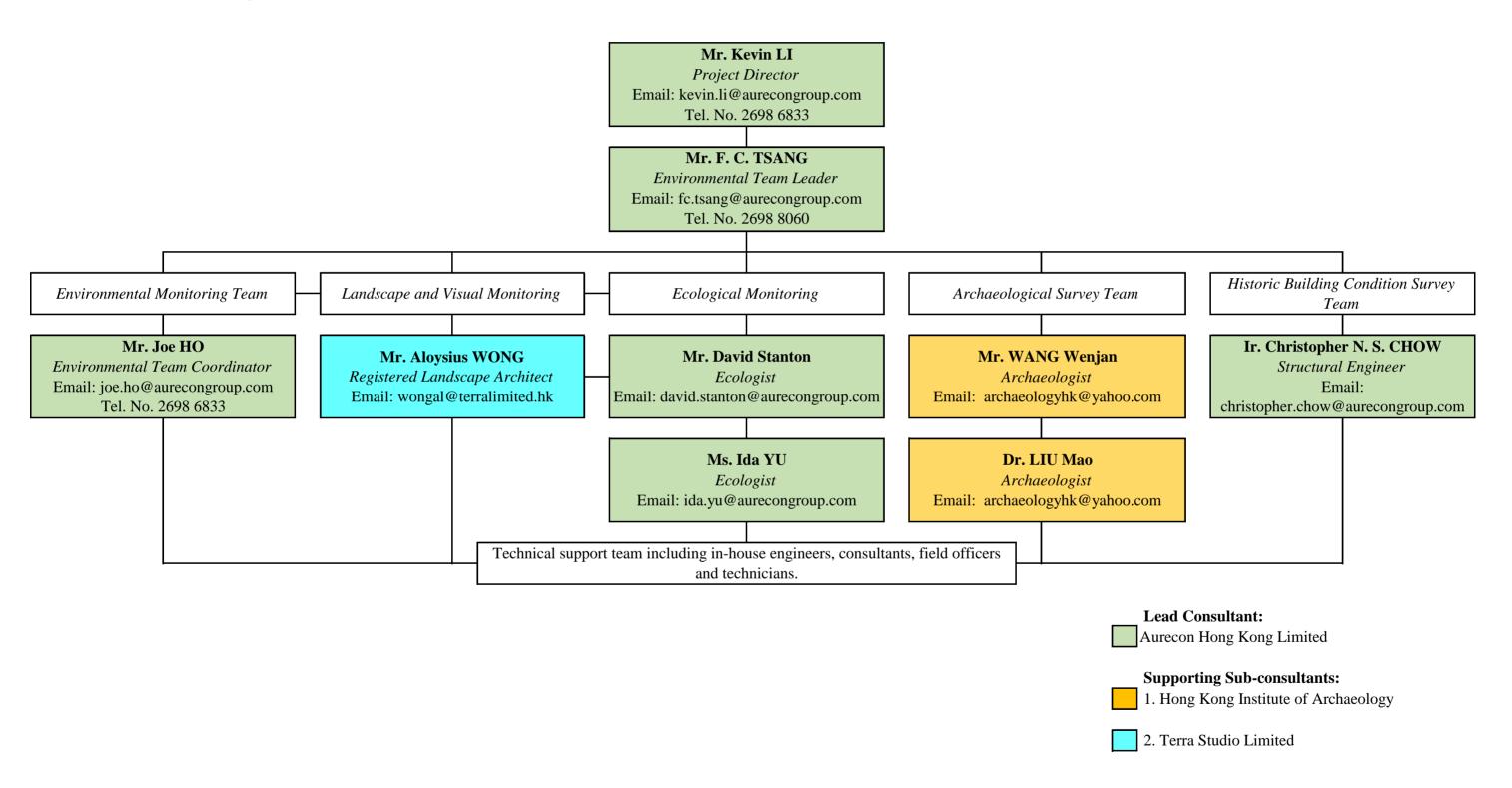
WING TAT CIVIL ENGINEERING CO LTD

									CC	ONTRACT	NO. DC/2022/02 - DRAINAGE IMPROV	MENT WORKS AT YUEN LONG	STAGE 2				
ID	Task Name	Duration	Start	Finish	Early Start	Early Finish	Late Start	Late Finish	Total Slack	TRA	Half 1 2023, Half	2024, Half	. 2024, Half 2	2025, Half 1 D J F M A M J	2025, Half 2	2026, Half 1	2026, Half 2
430	Catchpit construcion	10 days	2026/01/18	2026/01/27	2026/01/18	2026/01/27	2026/01/18	2026/01/27	0 days	0						2x carpenter	
/131	Concreting	1 day	2026/01/26	2026/01/26	2026/01/26	2026/01/26	2026/01/26	2026/01/26	0 days	0	7	1	1	1	1	Concrete gang	1

´T ask Milestone Rolled Up Critical Task Inactive Milestone Duration-only Start-only External Milestone Project Summary Date: 25 September 2023 Critical Task Summary Rolled Up Milestone 💠 Inactive Summary Manual Summary Rollup 🔷 Finish-only **Split** ■ Group By Summary Rolled Up Progress Progress Rolled Up Task — Manual Task \Diamond Manual Summary 🔷 External Tasks External Tasks Deadline Drain: {U/S}~{D/S},size+type,bedding,length(m),depth(m)
U-Channel: {U/S}~{D/S},size+type,length(m) Page 14

Appendix 1.2	Project Organization Chart	

Environmental Team's Organization Chart



Appendix 1.3	Implementation Status of Environmental Mitigation Measure

Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che Monthly EM&A Report Environmental Mitigation Implementation Schedule (EMIS)



Air Quality Impact Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.3.8.1	S.3.2.3	All the dust control measures as recommended in the Air Pollution Control (Construction Dust) Regulation, where applicable, should be implemented. Typical dust control measures include:	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	Proper and regular watering should be provided for all exposed and excavated work sites.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	All excavated or stockpile of dusty materials should be entirely covered by impervious sheeting or sprayed with water to ensure that the entire surface is wet. They should be sprayed with water immediately prior to any loading or transfer activities. These materials should be removed, backfilled or reinstated where practicable.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.3.8.1	S.3.2.3	 After the removal of stockpiles, the remaining dusty material should be sprayed with water and cleared from the surface of roads. Stockpiling areas of dusty materials should not be extended beyond the pedestrian barriers, fencing or traffic cones. 	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	At locations with proposed open excavation and reinstatement works, hoarding of not less than 2.4 m from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. The contractor should ensure that the hoardings are well maintained throughout the entire construction period.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	 Vehicles used for the transportation of dusty materials/ spoils should be covered with tarpaulin or similar material. The cover should extend over the edges of the sides and tailboards. 	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	Vehicle wheel washing facilities will be provided at exit of the works site. The areas where vehicle wheel washing activities are carried out and the section of the construction site between the vehicle washing facilities and the exit should be paved with concrete or bituminous materials.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	Where possible, routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.3.8.1	S.3.2.3	 All demolished materials that may generate dust should be covered entirely by impervious sheeting or placed in a covered area with the top and three sides enclosed within a day of demolition. 	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	 At construction works areas where demolition takes place, water or dust suppression chemicals should be sprayed prior to, during and immediately after the demolition activities to ensure that the top surface remains wet. 	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Annex 4 and Annex 12 of EIAO -TM, Air Pollution Control (Construction Dust) Regulation	Implemented
S.3.8.1	S.3.2.3	The requirements stipulated in the Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness should be followed as far as practicable to enhance the cleanliness and tidiness of construction sites.	Air Quality (fugitive dust) Control during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Development Bureau Technical Circular (Works) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness	Implemented
S.3.8.1	S.3.2.3	NRMMs should be approved or exempted with a label issued by EPD. The label should be displayed at a conspicuous position of the machine or vehicle. Nonroad vehicles are required to meet the Euro V emission standards and smoke requirements as stipulated under the Air Pollution Control (Vehicle Design Standards) (Emission) Regulation.	Emission from NRMM during Construction Phase	Contractor(s)	At all construction areas of the site during the entire construction period	Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.3.8.1	\$.3.2.3	 The works at overlapping section are recommended to be scheduled to avoid works at the areas near Fan Kam Road. The Contractor shall liaise with No. CE 61/2012 (HY) – Improvement to Fan Kam Road – Investigation contractors so as to avoid undertaking works concurrently with the works from CE 61/2012 Project when they are in the close proximity. As a conservative approach, works for drainage improvement shall be carried when the works from the No. CE 61/2012 project is over 500 m away. 	Prevent potential cumulative construction air quality impacts	Contractor(s)	At all construction areas of the site for Ha Che during the entire construction period	-	Implemented

Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che Monthly EM&A Report Environmental Mitigation Implementation Schedule (EMIS)



Noise Impact – Implementation Schedule of Recommended Mitigation Measures

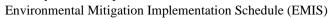
EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Constru	ction Phase						
S.4.6.6	S. 4.8.1	Use of quiet PMEs and smaller sized of PMEs as practicable.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented
S.4.6.7	S. 4.8.1	Use of quiet PME for generator, mobile crane and excavator, wheeled/ tracked.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented
S.4.6.8	S. 4.8.1	The Contractor should be responsible for the design of temporary/ movable noise barriers with consideration of the size of PME and the requirements of intercepting the line of sight between the noise sensitive receivers and PME.	Noise control during construction	Contractor(s)	Construction areas near the specified locations during the construction period	EIAO-TM and NCO	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.4.7.1	S. 4.8.1	 The Contractor shall adopt the Code of Practice on Good Management Practice to Prevent Violation of the NCO (Cap. 400) (for Construction Industry) published by the EPD; The Contractor shall observe and comply with the statutory and non-statutory requirements and guidelines; Before commencing any work, the Contractor shall submit to the Environmental Review for approval the method of working, equipment and noise mitigation measures intended to be used at the site; The Contractor shall devise and execute working methods to minimise the noise impact on the identified surrounding sensitive uses, and provide experienced personnel with suitable training to ensure that those methods are implemented; Noisy equipment and noisy activities should be located as far away from the NSR's as is practical; Machines and plant (such as dump truck, vibratory compactor, lorry, cranes) that may be intermitted use should be shut down between work periods or should be throttled down to a minimum. Additionally, the combined use of noisy equipment/ machines should be avoided, when possible; 	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction programme; Silencers, mufflers or acoustic treatment mats on construction equipment should be utilised and properly maintained during the construction duration; Plants known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures should be effectively utilised as noise barriers, where practicable. 					
S.4.7.2	S. 4.8.1	The Contractor shall, from time to time, be aware of the noise impacts on the surrounding NSRs through adequate noise monitoring during the works so that adjustments can be made to the number of plants used for any construction activity and the corresponding plant positioning. These requirements shall be incorporated into the project works contract.	Noise control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	EIAO-TM and NCO	Implemented





Ecological Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Construc	tion Phase						
S.5.9.2	S.5.2.1	The section of watercourse with construction activities should be hydrologically isolated from the rest of the watercourse as far as practicable (except discharge of treated runoff).	Ecological – to avoid and minimize the spatial impact/ disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented
S.5.9.2	S.5.2.1	The staged construction activities should be commenced from upstream and progresses toward the downstream area and the reinstatement work especially the planting of riparian vegetation should also be undertaken in stages and commenced as soon as the hardscape work completed in the working section	Ecological – to avoid and minimize the spatial impact and shorten the temporal disturbance to the riverine habitat	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented



EIA Ref. EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.5.9.3 S.5.2.2	 Effective implementation of an Environmental Management Systems in accordance with the ISO 14001 for all work sites; Effective implementation of mitigation measures recommended for dust suppression, noise reduction, as well as water quality and waste management as detailed in other sections of the EIA Report. Effective implementation of the Tree Preservation Measures as detailed in the guidelines published by the Tree Management Office. Staff awareness training on the ecological importance of the riverine habitats and inhabited wildlife, as well as briefing on the mitigation measures recommended in the EIA Report. Well defined and fenced Work Area to prevent intentional or accidental encroachment or trespassing into the adjacent habitats for access, parking and operation of plants/ machineries, as well as stockpiling of construction material or waste; Fence off any potentially ecologically sensitive resources within the work area with warning signpost; Water diversion by means of submerged water pump should be avoided as far as practicable to prevent obstruction of wildlife movement along the channel; 	Ecological – to avoid or minimize the potential disturbance to the habitats and wildlife inhabited within or adjacent to the work sites	Contractor(s)	During construction at all sites	EIA, contractual requirements	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 Waste and refuse should be stored or dumped in appropriate receptacles and onsite burning of waste should be strictly prohibited; Excavated material should be properly covered or promptly disposed of, and opportunities to stockpile and backfill the topsoil should be explored; No chemical should be stockpiled on-site until absolutely necessary; On-site maintenance of plant/ machineries/ vehicle should be avoided as far as practicable; Silt/ Sediment/ Oil traps should be installed to avoid direct discharge of effluent or site run-off; Regular ecological checks; Cut down of vegetation during site clearance should be in stages before groundwork takes place as such to disperse any wildlife that is sheltering in the immediate area; and minimise vehicle access. 					

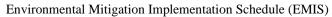


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EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.5.9.4	S.5.2.10	The construction work in Tai Wo should be scheduled in the dry season and sandbags or other similar facilities should be placed along the southern boundary of the work site to prevent any accidental discharge of untreated effluent into the buffered grassland and EIS under adverse weather condition. In addition, discharge of any treated or untreated effluent, either by means of soakaway or direct discharge to nearby waterways, should be directed away from the grassland buffer and the EIS. The above measure should be audited regularly as part of the routine site inspection undertaken by the ET.	Ecological – to avoid and minimize any potential impact to the Cheung Po EIA from site discharge	Contractor(s)	Tai Wo	EIA, contractual requirements	To be implemented, since the construction work at Tai Wo is not commenced yet
S.5.9.6 to 5.9.7	S.5.2.7, 5.2.8	A detail survey to update the abundance and distribution of the endemic freshwater crabs within the project site (include the original watercourse which will be cut-off at Ha Che and Lin Fa Tei, inclusive of a receptor site search for the preparation of a "Freshwater Crab Translocation Plan", in which the whole process including logistic arrangement should be detailed for the approval of AFCD.	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species	Engineer	Lin Fa Tei and Ha Che, before the commencement of the construction work	EIA, contractual requirements	Implemented, EPD advised no comment on the FCTP on 9 Feb 2024
S.5.9.6 to 5.9.7	S.5.2.9	Capture and translocate two endemic freshwater crabs and undertake post-translocation monitoring programme in accordance to the approved "Freshwater Crab Translocation Plan".	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species.	Contractor, ET	Lin Fa Tei and Ha Che, within one month before the commencement of the construction work	EIA, contractual requirements	Implemented, pro- construction survey at Ha Che was completed between 5 and 7 Feb 2024



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.5.9.6 to 5.9.8	S.5.2.9	Before the commencement of a construction work in a new section, the site should be inspected by the ecologist to confirm no inhabitation of the two freshwater crab species.	Ecological – to avoid/ minimize the direct impact to the local population of these two endemic freshwater crab species	Contractor, ET	Lin Fa Tei and Ha Che, within one month before the commencement of the construction work	EIA, contractual requirements	Implemented
S.5.9.9	S.5.2.4	The Aquilaria sinensis (seedling) within the site boundary at Sung Shan New Village to be protected and retained during construction in accordance with DEVB TCW No. 4/2020 Tree Preservation	Ecological – to preserve the floral species of conservation concern	Engineer	Sung Shan New Village	EIA, contractual requirements	To be implemented, since the construction work at Sung Shan New Village is not commenced yet
S.5.9.13- 5.9.19	S.5.2.15	Restoration of wildlife habitat by ecological habitat and niche that could promote colonisation of aquatic wildlife during the reinstatement of embankment and channel bed	Ecological – to compensate for the loss of wildlife habitat especially the two endemic freshwater crab species	Contractor(s)	All sites during construction	EIA, contractual requirements	The restoration and planting works will be conducted after the completion of construction work at Ha Che, Lin Fa Tei and Sung Shan New Village





Water Quality Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Constru	ction Phase						
S.6.7.2	S.6.2.3	 The mitigation measures should cover, but not limited to the following Best Management Practices: Sand/ silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove sand/ silt particles from runoff to meet the requirements of the Technical Memorandum standards under the WPCO. The design of silt removal facilities should be based on the guidelines provided in ProPECC PN 2/23. All drainage facilities and erosion and sediment control structures should be inspected monthly and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Work programmes should be designed to minimize the size of work areas to minimize the soil exposure soil and reduce the potential for increased siltation and runoff; Boundaries of earthworks should be marked and surrounded by dykes or embankments for flood protection, as necessary; Silt removal facilities, channels and manholes should be maintained and cleaned regularly to ensure the proper function; Water pumped out from excavations should be discharged into silt removal facilities; 	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and ProPECC PN 2/23	Implemented, WPCO license is under application



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 Careful programming of the works to minimize soil excavation during the rainy season. If excavation of soil cannot be avoided during the wet season (April to September), exposed slope surfaces should be covered by a tarpaulin or other means. Other measures that need to be implemented before, during, and after rainstorms are summarized in ProPECC PN 2/23; Earthwork surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed; Wastewater generated from the washing down of mixer trucks and drum mixers and similar equipment should wherever practicable be recycled. The discharge of wastewater should be kept to a minimum; To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an on-line standby pump of adequate capacity and with automatic alternating devices; 					



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment. Surface run-off should be segregated from the concrete batching plant and casting yard area as much as possible, and diverted to the stormwater drainage system. Surface run-off contaminated by materials in a concrete batching plant or casting yard should be adequately treated before disposal into stormwater drains; Open stockpiles of construction materials on site should be covered with tarpaulin or similar fabric during rainstorms. 					
S.6.7.4	\$6.2.3	The guidelines stipulated in the ProPECC PN 2/23 "Construction Site Drainage" issued by the EPD should be followed to minimise the potential water quality impacts. Good housekeeping and stormwater best management practices, as detailed below, should be implemented to ensure that all construction runoff are well controlled to minimise the water quality impacts that arise due to the construction works of the Project.	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and ProPECC PN 2/23	Implemented, WPCO license is under application



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 Flood protection such as dikes or embankments should be provided around the boundaries of earthwork areas. Temporary ditches should be provided as appropriate to facilitate the runoff discharge into drainage system, through a silt/ sediment trap. The silt/ sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates; Construction works should be programmed to avoid surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means; All drainage facilities and erosion and sediment control structures, if any, should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms; Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas; 					



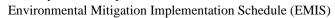
EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 All open stockpiles of construction materials (for example, aggregates, sand and fill material) 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; 3Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions to 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 2/23. Particular attention should be paid to the control of silty surface runoff during storm events; 					



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 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 sited 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-washing bay to the public road should be paved with sufficient backfall toward the wheel-washing 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 as far as possible. The oil interceptors, if any, should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. 					



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.6.7.5	S.6.2.3	Maintenance of vehicles and equipment involving activities with potential for leakage and spillage is expected to be carried out off-site and should only be undertaken within areas appropriately equipped to control these discharges.	To control the effluent discharge during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented
S.6.7.6	S.6.2.3	Contractor shall apply for a discharge license under WPCO.	To control the effluent discharge during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	WPCO license is under application





EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.6.7.7 & S.6.7.8	S.6.2.3	 Portable chemical toilets and/ or sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater to 0.15 m³/day/worker of sewage and be responsible for appropriate disposal and maintenance. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the project. Regular environmental audit on the construction site should be conducted to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the project would not cause water quality impact after undertaking all required measures. 	To control sewage generation during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO and Waste Disposal Ordinance	Implemented

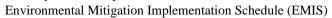


EIA EM&A Ref. Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.6.7.15 S.6.2.3 - S.6.7.15	 Due to the characteristics of narrow width and small water flow of the existing channel, the excavation should be carried out in dry condition (even in wet season) by diverting the stream flow from upstream by a temporary drainage channel with a temporary sheet piles, earth bund or barrier so that the works area will remain dry for later excavation and widening works; The temporary drainage channel would be backfilled when the construction works are completed or the temporary diversion is no longer required. Although flooding of the proposed contaminant section seldom occurs in dry season, the excavation would consider to suspend when flood water enters the containment causing leakage of runoffs to stream water; After dewatering of the streams, the sediments should be allowed to dry before excavation (yet still maintain a moist state to avoid dust nuisance). This will facilitate excavation of the sediments and also minimize the risk of drained water flowing back into watercourses or diversion channels as the sediment is handled. Where time or weather constraints require handling of wet sediment, care should be taken in the removal of sediment and the storage area should be bunded to prevent silty runoff entering watercourses. Given its small quantity, all excavated sediment should be reused on-site as backfilling material; 	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented

Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che Monthly EM&A Report Environmental Mitigation Implementation Schedule (EMIS)

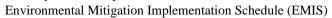


EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 To further minimize the leakage and loss of sediments during excavation, tightly sealed closed grab excavators should be employed in river sections where material to be handled is wet. Where material is dry and in non-river sections, conventional excavations can be used; Excavated sediment will likely be temporarily stored on-site for reuse as backfilling material. This should be stored in a bunded area and covered at any time to avoid inadvertent release of silts and suspended solids to nearby water bodies; Regular monitoring of suspended solids, pH and turbidity should be conducted during excavation works. Any exceedance of water quality in the nearby water bodies caused by inadvertent release of site runoff should be rectified in accordance with EM&A programme for this project. 					





EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.6.7.16	\$6.2.3	 Cast in-situ Construction Minimise the area of the site which generates contaminated stormwater runoff; Provide a separate dedicated drainage system to discharge clean stormwater from the site; Drain all contaminated stormwater and process wastewater to a collection pit for recycling; Regularly clean out solids that accumulate in the pit; There must be no dry weather wastewater discharges from the site; Monitor wet weather discharges for pH and suspended solids. Retain the records. 	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO	Implemented
S.6.7.17	S6.2.3	Registration to EPD as a CWP (Chemical Waste Producers) is required if chemical wastes are generated and need to be disposed of. Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance (WDO). The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the WDO should be used as a guideline for handing chemical wastes.	Water quality control during construction	Contractor(s)	At all construction areas of the site during the entire construction period	WPCO, WDO and the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes	Implemented





EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.6.7.18	S.6.2.3	 Mitigation measures to avoid potential impact to Cheung Po EIS The construction work in Tai Wo should be scheduled in the dry season and sand bags or other similar facilities should be placed along the southern boundary to the work site to prevent any accidental discharge of untreated effluent into the buffered grassland and EIS under adverse weather condition; Discharge of any treated or untreated effluent, either by means of soakaway or direct discharge to nearby waterways, should be directed away from the grassland buffer and the EIS. 	Water quality control during construction	Contractor(s)	At Tai Wo Area during the entire construction period	WPCO	To be implemented, since the construction work at Tai Wo is not commenced yet



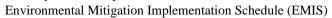
Environmental Mitigation Implementation Schedule (EMIS)

Waste Management Implication – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Constr	uction Phase						
S.7.5.1	S.7.2.5	 An on-site environmental co-ordinator employed by the contractor should be identified prior to the outset of the work. Prior to commencement of project, the environmental coordinator shall prepare a WMP in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Sites, for the Engineers Representative's approval. The WMP shall include monthly and yearly Waste Flow Tables (WFT) that indicate the amount of waste generated, recycled and disposed of (including final disposal location), and which should be regularly updated; 	Waste management during construction	Contractor(s)	Prior to commencement of Project works and implemented throughout the entire construction period	ETWB TCW No. 19/2005	Implemented
S.7.5.1	S.7.2.5	The Project contractor's waste management practices and effectiveness should also be audited by the Engineer on a regular basis;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented
S.7.5.1	S.7.2.5	 The reuse/ recycling of all materials on site should be investigated and exhausted prior to treatment/ disposal off-site; 	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented



EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.7.5.1	S.7.2.5	 Good site practices should be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation; 	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	ETWB TCW No. 19/2005	Implemented
S.7.5.1	S.7.2.5	• All waste materials should be sorted on-site into inert and non-inert C&D materials, and where the materials can be recycled or reused, they should be further segregated. Inert material, or public fill will comprise stone, rock, masonry, brick, concrete and soil which is suitable for land reclamation and site formation whilst non-inert materials include all other wastes generated from the construction process such as plastic packaging and vegetation;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance	Implemented
S.7.5.1	S.7.2.5	The Project contractor should be responsible for identifying what materials can be recycled/ reused, whether on-site or off-site. In the event of the latter, the contractor should make arrangements for the collection of the recyclable materials. Any remaining non-inert waste should be collected and disposed of to the landfill as last resort whilst any inert C&D materials should be re-used on site as far as possible. Alternatively, if no use of the inert materials can be found onsite, the materials can be delivered to a public fill area or public fill bank after obtaining the appropriate licence;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance	Implemented

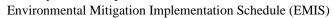




EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.7.5.1	S.7.2.5	In order to monitor the disposal of C&D materials and solid waste at public filling facilities and landfills, and to control flytipping, a trip ticket system shall be implemented by the contractor, in accordance with the contract and the requirements of DEVB TCW No. 6/2010 "Trip Ticket System for Disposal of Construction and Demolition Material";	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	DEVB TCW No. 6/2010	Implemented
S.7.5.1	\$.7.2.5	Under the Waste Disposal (Chemical Waste) (General) Regulation, the Project contractor shall register as a Chemical Waste Producer (CWP) if chemical wastes such as spent lubricants, paints, etc. are generated onsite. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated onsite. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by the EPD;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal (Chemical Waste) (General) Regulation	Implemented

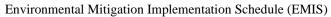


EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.7.5.1	S.7.2.5	A sufficient number of covered bins should be provided onsite for the containment of general refuse to prevent visual impacts and nuisance to the sensitive surroundings. These bins should be cleared daily and the collected waste disposed of to the nearest refuse transfer station. Further to the issue of DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the contractor is required to maintain a clean and hygienic site throughout the Project works;	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction period	Waste Disposal Ordinance and DEVB TC(W) No. 8/2010	Implemented
S.7.5.1	S.7.2.5	 Minimize windblown litter and dust during transportation by either fitting trucks with mechanical covers or transporting waste in enclosed containers; 	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented
S.7.5.1	S.7.2.5	 All chemical toilets, if any, should be regularly cleaned and the night-soil collected and transported by a licensed contractor to a Government Sewage Treatment Works facility for disposal; 	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented
S.7.5.1	S.7.2.5	Toolbox talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; and	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented
S.7.5.1	S.7.2.5	The project contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of the project construction.	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	Waste Disposal Ordinance	Implemented





EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.7.5.1	S.7.2.5	 Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Segregation and storage different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the workforce; Use of reusable non-timber formwork to reduce the amount of C&D material; Prior to disposal of C&D waste, it is recommended that wood, steel and other metal shall be separated for re-used and/ or recycling to minimise the quantity of waste to be disposal of to landfill; Proper storage and site practice to minimise the potential for damage and contamination of construction materials; Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 	Waste management during construction	Contractor(s)	At all construction areas of the site during the entire construction	ETWB TCW No. 19/2005	Implemented





Land Contamination – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Constru	ction Phase						
S.8.8.1	S.8.2.1	Unexpected contaminated materials may be encountered near identified potential contaminated sites during construction. Should suspected contamination be found during construction, the extent and nature of contamination within project areas should be properly assessed and the contaminated soil/ groundwater should be remediated in accordance with EPD issued publications as below: • Guidance Note for Contaminated Land Assessment and Remediation; • Guidance Manual for Use of Risk-based Remediation Goals ("RBRGs") for Contaminated Land Management; and • Practice Guide for Investigation and Remediation of Contaminated Land.	Safety precautionary measures for handling possible contaminated materials	Contractor(s)	During construction works within the works areas nearby the land contamination sites HC-A, HC-C, HC-D, HC-I, LFT-A, LFT-B, LFT-C, LFT-D, LFT-E and SSNV-A	Guidance Note for Contaminated Land Assessment and Practice Guide for Investigation Remediation of Contaminated Land	No unexpected contaminated material was encountered during reporting period

Drainage Improvement Works Near Four Villages in Yuen Long – Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che Monthly EM&A Report Environmental Mitigation Implementation Schedule (EMIS)



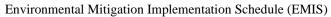
Landscape & Visual Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Construct	tion Phase						
S9.12.1.1	S.9.2	Construction Site Control CM01 - Tree Protection and Preservation Trees / woodland within the Project Site which are unaffected by the works shall be protected and preserved during the construction phase. The tree preservation proposals shall be coordinated with the layout and design of the engineering and architectural works at detailed design stage for further retention of individual trees.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S9.12.1.1	S.9.2	CM02 – Compensatory Tree Planting If removal of trees unavoidable due to construction impacts, trees will be compensated where technically feasible.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	No tree was removed during reporting period
S9.12.1.1	S.9.2	CM03 - Works Area and Temporary Works Areas (Good Site Practice) The construction sequence and construction programme shall be optimized in order to minimize the duration of impact. Construction site controls shall be enforced including the storage of materials, and the location and appearance of site accommodation and site storage. The site office or temporary above- ground structures shall be sited in locations which are not visually prominent.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S9.12.1.1	S.9.2	CM04 - Advance Implementation of Mitigation Planting Replanting of existing/ disturbed vegetation shall be undertaken as soon as technically feasible.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	No replanting work was conducted during reporting period



Environmental Mitigation Implementation Schedule (EMIS)

EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
S.9.2	CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S.9.2	CM06 - Decorative Screen Hoarding Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publicly accessible routes and/ or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S.9.2	CM07 – Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S.9.2	CM08 – Topsoil reuse Excavated topsoil should be conserved for reuse by the project or other projects. This is considered a general measure for good site practice.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	Implemented
S.9.2	CM09 - Channel Bed Translocation Excavated natural stream bedding should be conserved for re-use by the project. This is considered a general measure for promoting sustainability and ecological continuity.	Good site practices and to minimize landscape and visual impact	DSD and its contractors.	Work sites	EIAO-TM	No excavation work at natural stream was carried out during reporting period
	S.9.2 S.9.2 S.9.2	S.9.2 CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance. S.9.2 CM06 - Decorative Screen Hoarding Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publicly accessible routes and/ or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. S.9.2 CM07 – Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice. S.9.2 CM08 – Topsoil reuse Excavated topsoil should be conserved for re- use by the project or other projects. This is considered a general measure for good site practice. S.9.2 CM09 - Channel Bed Translocation Excavated natural stream bedding should be conserved for re-use by the project. This is considered a general measure for promoting	EM&A Ref. Recommended Environmental Protection Measures/ Mitigation Measures S.9.2 CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance. S.9.2 CM06 - Decorative Screen Hoarding Decorative screen hoarding will be erected along areas of the construction works site boundary where the works site borders publicly accessible routes and/ or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. S.9.2 CM07 – Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice. S.9.2 CM08 – Topsoil reuse Excavated topsoil should be conserved for reuse by the project or other projects. This is considered a general measure for good site practices and to minimize landscape and visual impact Good site practices and to minimize landscape and visual impact Good site practices and to minimize landscape and visual impact Good site practices and to minimize landscape and visual impact Good site practices and to minimize landscape and visual impact	EM&A Ref. Recommended Environmental Protection Measures & Mitigation Measures S.9.2 CM05 - Coordination with Concurrent Projects Coordinated implementation programme with concurrent projects to minimise impacts and where possible reduce the period of disturbance. 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This is considered a general measure for good practice. S.9.2 CM08 - Topsoil reuse Excavated topsoil should be conserved for reuse by the project or other projects. This is considered a general measure for good site practices and to minimize landscape and visual impact Good site practices and to minimize landscape and visual impact Topsoil reuse Excavated topsoil should be conserved for reuse by the project or other projects. This is considered a general measure for good site practices and to minimize landscape and visual impact CM09 - Channel Bed Translocation Excavated natural stream bedding should be conserved for re-use by the project. This is considered a general measure for promoting	EM&A Ref. Recommended Environmental Protection Measures recommended measures bipplement the measures Timing of implementation or the measures to achieve? S.9.2 CM05 - Coordination with Concurrent Projects to minimise impacts and where possible reduce the period of disturbance. Good site practices and to minimize landscape and visual impact DSD and its contractors. Work sites EIAO-TM S.9.2 CM06 - Decorative Screen Hoarding Decorative Screen Hoarding areas of the construction works site boundary where the works site borders publicly accessible routes and/ or is close to visually sensitive receivers (VSRs) to screen undesirable views of the works site. It is proposed that the surrounding environment and where possible, non-reflective, recessive colours be used. Good site practices and to minimize landscape and visual impact DSD and its contractors. Work sites EIAO-TM S.9.2 CM07 - Light Control Construction and night time lighting glare will be controlled to minimize glare impact to adjacent VSRs during the construction stage. This is considered a general measure for good practice. Good site practices and to minimize landscape and visual impact DSD and its contractors. Work sites EIAO-TM S.9.2 CM08 - Topsoil reuse Excavated topsoil should be conserved for reuse by the project or other projects. This is considered a general measure for good site practices and by the project or other projects. This is considered a general measure for good site practices and by the project or other projects. This is considered a general





Cultural Heritage Impact – Implementation Schedule of Recommended Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Constru	ction Phase						
Table 10-3	Table 10.1	 A condition survey will be carried out in advance of works that may be affected by ground-borne vibration. The Condition Survey Report should contain descriptions of the structure, identification of fragile elements, an appraisal of the condition and working methods for any proposed monitoring and precautionary measures that are recommended with aid of photo records. The condition survey report must be submitted to AMO for comment before construction activities commence. The contractor should implement the approved monitoring and precautionary measures; Vibration monitoring should be undertaken during the construction works to ensure that safe levels of vibration are not exceeded. An Alert, Alarm and Action (AAA) vibration limit set at 5 / 6 / 7.5 mm/s for Grade 3 historic buildings should be adopted. A monitoring schedule, the location of monitoring, reporting requirements and action plan should be included in the condition survey report. The location of any monitoring equipment in the building must be approved by the owner before installation; 	Cultural heritage protection	Contractors	During the construction period, for Lee Tat Bridge (GB-01)	AMO Guidelines on CHIA; EIAO-TM	The condition survey report was submitted on 22 December 2023



Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
		 A buffer zone should be provided to separate the building or walls of the building from the construction works. The buffer zone should be clearly marked out by temporary fencing. The buffer zone should be made at least 5 m from the proposed works or if this is not possible as large as the site restrictions allow; The contractor should ensure that safe public access is possible, through provision of clearly marked paths separated from the construction works areas, and is provided for any such affected cultural heritage structure. It is recommended that safe public access to the bridge be provided during the construction works. 					
Table 10-3	Table 10.1	Lan Fong Study Hall (GB-02) No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A
Table 10-3	Table 10.1	St. John's Chapel (GB-03) No mitigation required	N/A	N/A	N/A	AMO Guidelines on CHIA; EIAO-TM	N/A
Table 10-1	S.10.2.1 – S.10.2.2	 The proposed drainage works in the Lin Fa Tei area near previous wooden archaeological remains; Archaeological survey prior to construction works in area marked on Figure 10.16 of the EIA report; A qualified archaeologist shall apply for a licence under the Antiquities and Monuments Ordinance (Cap. 53) for the archaeological fieldwork. 	Identification of archaeological remains, deposits and material within survey area Identification of archaeological extent	Qualified archaeologist engaged by Contractor	Prior to construction phase	Antiquities and Monuments Ordinance	Archaeological Survey will be conducted prior to the construction works



Environmental Mitigation Implementation Schedule (EMIS)

EIA Ref.	EM&A Ref.	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Who to implement the measures?	Location/ Timing of implementation of Measures	What requirements or standards for the measures to achieve?	Implementation Status
Table 10-1	S.10.2.3	As a precautionary measure, the Antiquities and Monuments Office (AMO) should be informed immediately in case of discovery of antiquities or supposed antiquities in the course of excavation for the proposed drainage improvement works at Tai Wo area, Ha Che River area, Lin Fa Tei area (all areas except area identified for Archaeological Survey) and Sung Shan New village area, so that appropriate mitigation measures, if needed, can be timely formulated and implemented in agreement with AMO.	To ensure appropriate mitigation measures can be timely formulated and implemented to preserve archaeological data, if discovered, in agreement with AMO	Contractor	During construction phase	Antiquities and Monuments Ordinance	No antiquities or supposed antiquities was discovered during the reporting period

Appendix 2.1	Calibration Certificates of Impact Water Quality Monitoring Equipment

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC120002

Date of Issue

: 05 December 2023

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

22D100436

Date of Received:

01 December 2023

Date of Calibration :
Date of Next Calibration :

04 December 2023

Request No. :

03 March 2024 D-BC120002

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.13	0.13	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.02	0.01	Satisfactory

Tolerance of pH value should be less than \pm 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
36	35.5	-0.5	Satisfactory
25	24.8	-0.2	Satisfactory
15	15.1	0.1	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.57	-4.30	Satisfactory
20	19.14	-4.30	Satisfactory
30	29.99	-0.03	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning Assistant Manager Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC120002

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: 05 December 2023

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.99	8.35	0.36	Satisfactory
5.00	5.10	0.10	Satisfactory
2.58	2.40	-0.18	Satisfactory
0.10	0.20	0.10	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.50		Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- ·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BD010030

Date of Issue

: 25 January 2024

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Acuity Sustainability Consulting Limited

Unit E, 12/F, Ford Glory Plaza 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

22C106561

Date of Received:

22 January 2024

Date of Calibration :

24 January 2024

Date of Next Calibration:

24 April 2024

Request No.:

D-BD010030

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500-H+ B

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 23e 4500-O G (Membrane Electrode Method)

Turbidity

APHA 21e 2130 B (Nephelometric Method)

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.45	0.03	Satisfactory
10.01	10.05	0.04	Satisfactory

Tolerance of pH value should be less than \pm 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
33	34.1	1.1	Satisfactory
19	18.7	-0.3	Satisfactory
11	11.5	0.5	Satisfactory

Tolerance of Temperature should be less than ± 2.0 (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.19	1.90	Satisfactory
20	21.27	6.35	Satisfactory
30	30.21	0.70	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

> LEE Chun-ning Assistant Manager

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BD010030

Date of Issue

: 25 January 2024

Page No.

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.60	8.89	0.29	Satisfactory
5.33	5.70	0.37	Satisfactory
3.40	3.50	0.10	Satisfactory
0.34	0.26	-0.08	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

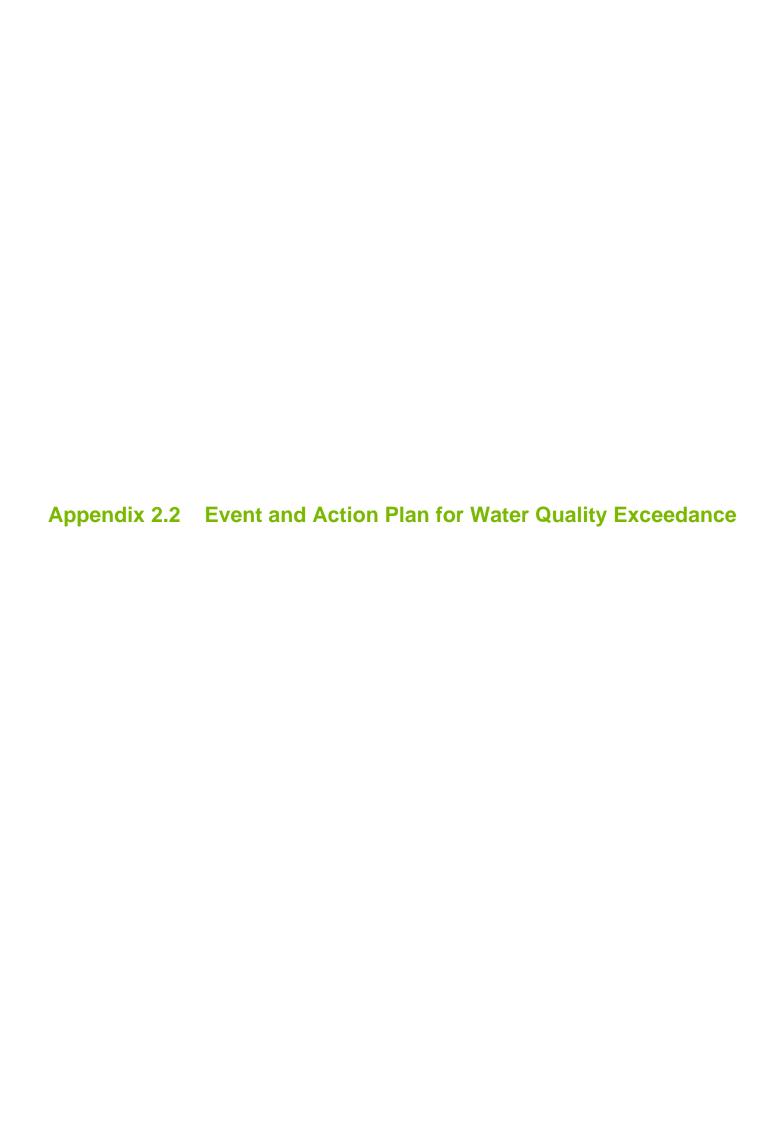
Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.50		Satisfactory
10	9.88	-1.2	Satisfactory
20	18.35	-8.2	Satisfactory
100	95.10	-4.9	Satisfactory
800	736.55	-7.9	Satisfactory

Tolerance of Turbidity should be less than $\pm~10.0$ (%)

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- ·The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- ·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



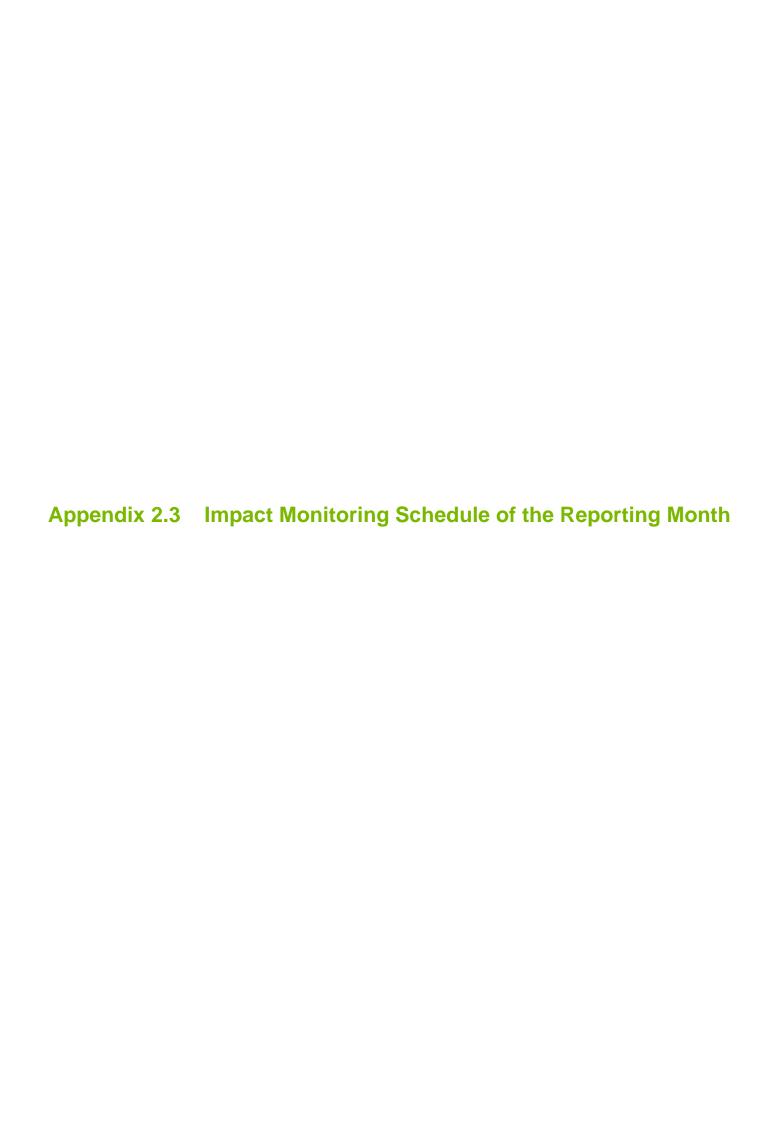
Event and Action Plan for Water Quality

		Act	tion	
Event	ET ⁽¹⁾	IEC (1)	ER ⁽¹⁾	Contractor
Action Level being exceeded by one sampling day	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC and the Contractor; Check monitoring data, all plant, equipment and the Contractor's working methods; Discuss mitigation measures with the IEC and the Contractor; Repeat measurement on next day of exceedance. 	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented.	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER; Implement the agreed mitigation measures.
Action Level being exceeded by more than one consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC and the Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with the IEC and the Contractor; Ensure mitigation measures are implemented; Prepare to increase the monitoring frequency to daily; Repeat measurement on next day of exceedance. 	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Assess the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC on the proposed mitigation measures; 2. Make agreement on the mitigation measures to be implemented; 3. Assess the effectiveness of the implemented mitigation measures.	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ET and the IEC and propose mitigation measures to the IEC and the ER within 3 working days; Implement the agreed mitigation measures.

Front		Ac	tion	
Event	ET ⁽¹⁾	IEC ⁽¹⁾	ER ⁽¹⁾	Contractor
Limit Level being exceeded by one sampling days	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform the IEC, the Contractor and the DEP; Check monitoring data, all plant, equipment and the Contractor's working methods; Discuss mitigation measures with the IEC, the ER and the Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit Level. 	1. Discuss with the ET and the Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request the Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures.	1. Inform the Engineer and confirm notification of the non-compliance in writing; 2. Rectify unacceptable practice; 3. Check all plant and equipment; 4. Consider changes of working methods; 5. Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; 6. Implement the agreed mitigation measures.

F		Act	tion	
Event	ET ⁽¹⁾	IEC (1)	ER ⁽¹⁾	Contractor
Limit Level being exceeded by more than one consecutive sampling days	 Repeat in-situ measurement to confirm findings; Identify source(s) of impact. Inform the IEC, the Contractor and the DEP; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with the IEC, the ER and the Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	1. Discuss with the ET and Contractor on the mitigation measures; 2. Review proposals on mitigation measures submitted by the Contractor and advise the ER accordingly; 3. Access the effectiveness of the implemented mitigation measures.	1. Discuss with the IEC, the ET and the Contractor on the proposed mitigation measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the mitigation measures to be implemented; 4. Assess the effectiveness of the implemented mitigation measures; 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the works until no exceedance of Limit Level.	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with the ET, the IEC and the ER and propose mitigation measures to the IEC and the ER within 3 working days; Implement the agreed mitigation measures; As directed by the ER, slow down or stop all or part of the construction activities.

Note (1) ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative, DEP – Director of Environmental Protection.



	Impact Noise a	& Water Monitoring Schedule for Co	ntract No. DC/2022/02 Drainage Imp	rovement Works at Yuen Long Stage	2 (Version 1.0)		
	February 2024						
Sun	Mon	Tue	Wed	Thur		Sat	
				1	2	3	
4	5	6				10	
11	12	13	14	15	16	17	
18	19		Water quality monitoring at C9 and C10		Noise monitoring at HC_M3a, HC_M4 and HC_M6 Water quality monitoring at C9 and C10	24	
25	Water quality monitoring at C9 and C10	27	Water quality monitoring at C9 and C10	29			

Noise Monitoring Locations:

Noise monitoring stations at Ha Che: HC_M3A, HC_M4, and HC_M6 Noise monitoring stations at Tai Wo: TW_M2 and TW_M3

Noise monitoring stations at Lin Fa Tei. LTF_MI, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11
Noise monitoring stations at Sung Shan New Village: SSNV_M2, SSNV_M3, and SSNV_M6

Water Monitoring Locations:

Water quality monitoring stations at Ha Che: C9 and C10
Water quality monitoring stations at Tai Wo: C4 and C5
Water quality monitoring stations at Lin Fa Tei: C6, C7A, and C8

Water quality monitoring stations at Sung Shan New Village: C1A, C2, and C3A

1. The schedule may be changed due to unforeseen circumstances (e.g. adverse weather, etc.)

2. As contruction work will only be carried out at Ha Che in Feburary 2024, monitoring works will only be conducted at Ha Che in Feburary 2024

Appendix 2.4	Impact Water Quality Monitoring Data	

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Water Quality Monitoring Result



Water Quality Monitoring Location: HC-C9

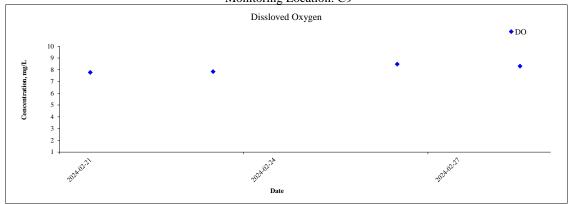
Location	Date	Weather	Time	DO (mg/L)	Do Saturation (%)	рН	Sal (ppt)	Temp (°C)	Turbidty (NTU)	SS (mg/L)	Remark
C9	20240221	Cloudy	8:37	7.76	87.7	7.94	0.05	21.40	10.88	16	/
C9	20240221	Cloudy	8:38	7.8	88.2	7.94	0.05	21.40	10.93	17	/
C9	20240223	Cloudy	10:36	7.9	87.2	7.34	0.06	20.20	7.34	5	/
C9	20240223	Cloudy	10:37	7.8	86	7.41	0.06	20.20	7.41	6	/
C9	20240226	Cloudy	8:27	8.49	86.8	7.59	0.08	16.40	7.24	16	/
C9	20240226	Cloudy	8:28	8.48	86.7	7.61	0.08	16.40	7.29	10	/
C9	20240228	Cloudy	13:34	8.5	89.9	7.29	0.05	18.00	7.51	12	/
C9	20240228	Cloudy	13:34	8.13	86.1	7.15	0.05	18.00	7.41	13	/

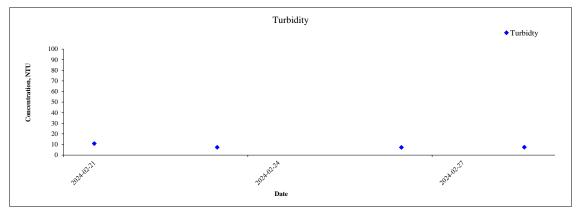
Water Quality Monitoring Location: HC-C10

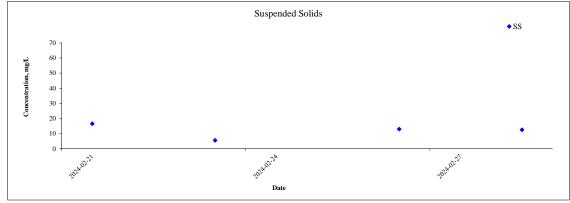
C10	20240221	Cloudy	9:03	1.1	12.6	7.1	0.07	22.10	77.85	45	/
C10	20240221	Cloudy	9:04	1.4	16	7.11	0.07	22.10	75.41	46	/
C10	20240223	Cloudy	10:56	3.41	38.4	7.2	0.14	21.10	10.34	5	/
C10	20240223	Cloudy	10:57	3.14	35.4	7.16	0.14	21.10	10.77	5	/
C10	20240226	Cloudy	8:39	2.99	31.1	7.08	0.11	17.30	6.96	5	/
C10	20240226	Cloudy	8:40	2.96	30.8	7.09	0.11	17.30	7.05	5	/
C10	20240228	Cloudy	13:53	3.82	42.1	7.06	0.12	20.00	9.37	32	/
C10	20240228	Cloudy	13:54	3.58	39.4	7.05	0.12	20.00	9.41	33	/

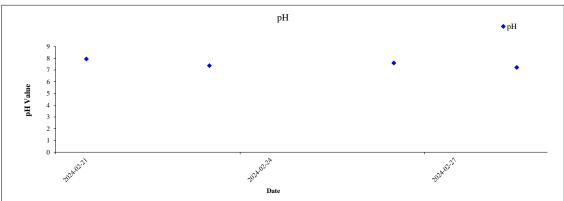




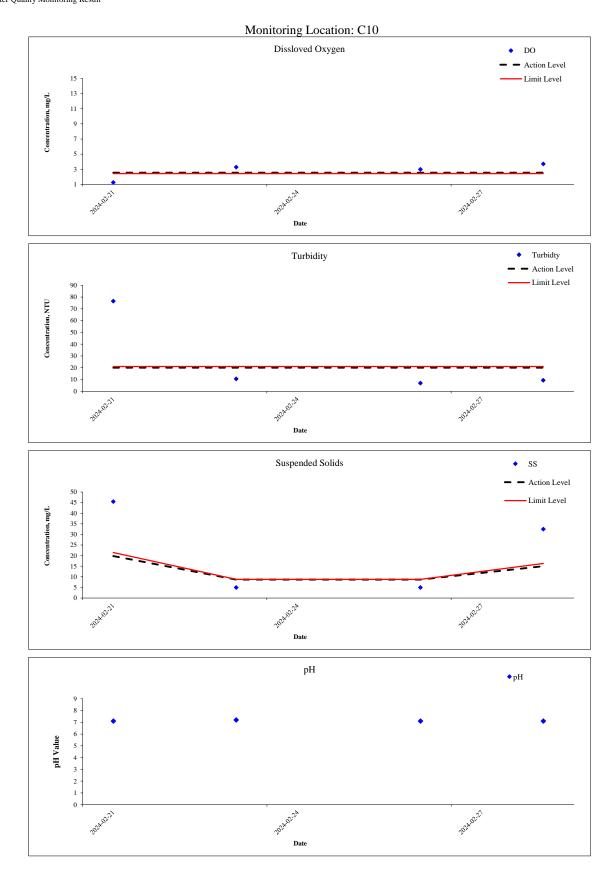












Appendix 3.1	Calibration Certificates of Impact Noise Monitoring Equipment



Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724244

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon,

Hong Kong

Upon receipt for calibration, the instrument was found to be:

Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC004

Page 1 of 2



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.6 ° C
Air Pressure:	1006 hP a
Relative Humidity:	52.9 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV220061	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV220120	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-049-CC004

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

SVANTEK

Type No.:

971 (Serial No.: 96062)

Microphone:

13905

Preamplifier:

SVANTEK SV 18 (Serial No.:C132231)

Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F., Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

☑ Within (31.5Hz – 8kHz)

Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 27 July 2023

Date of calibration: 3 August 2023

Date of NEXT calibration: 2 August 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 3 August 2023

Certificate No.: APJ23-049-CC001

(A+A) *L

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Calibration Precaution: 1.

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:

22.6°C

Air Pressure:

1006 hPa

Relative Humidity:

52.9 %

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV220061

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
25.0-124.2	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
25.0-124.2	dBA SPL	BA SPL	Fast	104	1000	104.0	±0.3
			114		114.0	±0.3	

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB Freq. Weighting Tim		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
25.0.124.2	JD 4	CDI	Fast	0.1	1000	94.0	Ref
25.0-124.2	dBA SPL	Slow	94	1000	94.0	±0.3	

Certificate No.: APJ23-049-CC001



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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.3	±2.0
					63	94.2	±1.5
					125	94.1	±1.5
					250	94.1	±1.4
25.0-124.2	dB	SPL SPL	Fast	94	500	94.0	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	93.1	±1.6
					8000	91.9	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.3	-39.4 ±2.0
					63	68.2	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.4	-8.6 ±1.4
25.0-124.2	dBA	A SPL	Fast	94	500	90.8	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
					4000	94.1	+1.0 ±1.6
					8000	90.9	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.3	-3.0 ±2.0
					63	93.3	-0.8 ±1.5
					125	93.9	-0.2 ±1.5
					250	94.0	-0.0 ±1.4
25.0-124.2	dBC	SPL	Fast	94	500	94.0	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.4	-0.8 ±1.6
					8000	89.1	-3.0 +2.1: -3.1

Certificate No.: APJ23-049-CC001



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5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

31.5 Hz	± 0.05
63 Hz	± 0.05
125 Hz	± 0.05
250 Hz	± 0.05
500 Hz	± 0.05
1000 Hz	± 0.05
2000 Hz	± 0.05
4000 Hz	± 0.05
8000 Hz	± 0.10
1000 Hz	± 0.05
1000 Hz	± 0.05
	63 Hz 125 Hz 250 Hz 500 Hz 1000 Hz 2000 Hz 4000 Hz 8000 Hz 1000 Hz

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ23-049-CC001



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Appendix 3.2	Event and Action Plan for Noise Exceedance	

Event and Action Plan for Noise

Event	ET	IEC	ER	Contractor
Action Level	 Notify ER, IEC and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the IEC and the Contractor and formulate remedial measures; and Increase monitoring frequency to check the effectiveness of mitigation measures. 	 Review the investigation results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; and Advise the ER on the effectiveness of the proposed remedial measures. 	Confirm receipt of notification of failure in writing; Notify Contractor; In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; and Supervise the implementation of remedial measures.	Submit noise mitigation proposals to IEC and ER; and Implement noise mitigation proposals.
Limit	 Notify IEC, ER, EPD, and Contractor; Identify source and investigate the cause of exceedance; Repeat measurement to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Discuss with the IEC, Contractor and ER on remedial measures required; Assess the effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	Discuss amongst ER, and Contractor on the potential remedial actions; and Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise the implementation of remedial measures; and 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification; 3. Implement the agreed proposals; 4. Submit further proposal if problem still not under control; and 5. Stop the relevant portion of works as determined by ER, until the exceedance is abated.

Appendix 3.3	Impact Noise Monitoring Data	

Contract No. DC/2022/02
Drainage Improvement Works at Yuen Long Sung Shan New Village, Tai Wo, Lin Fa Tei and Ha Che
Noise Monitoring Result



Noise Level Results at HC-M3a

						Leq-5min, dB(A)					
											30min,
Date	Time		Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)	
23/2/2024	11:19	-	11:49	Sunny	56.7	58.0	59.8	61.8	60.9	61.2	60.1
						•		•		Max	Min
										60.1	60.1

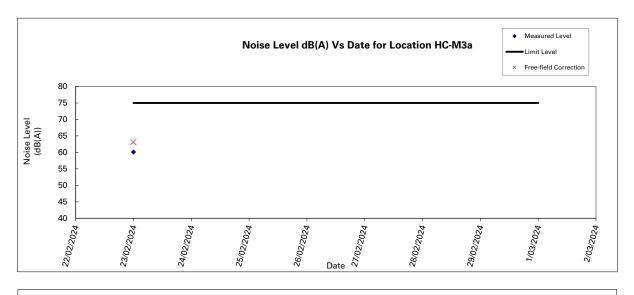
Noise Level Results at HC-M4

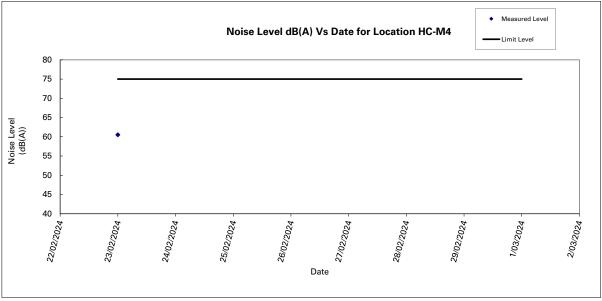
				Leq-5min, dB(A)						30min,
Date	Date Time		Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)
23/2/2024	10:38	- 11:08	Sunny	60.5	60.3	60.2	60.3	61.3	60.5	60.5
									Max	Min
									60.5	60.5

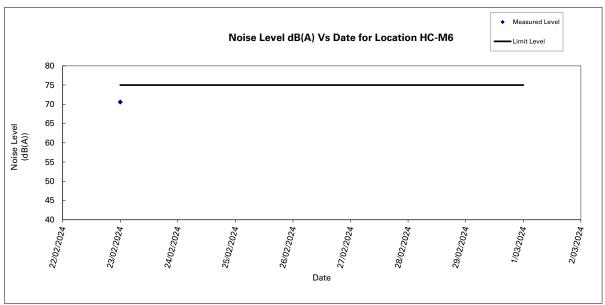
Noise Level Results at HC-M6

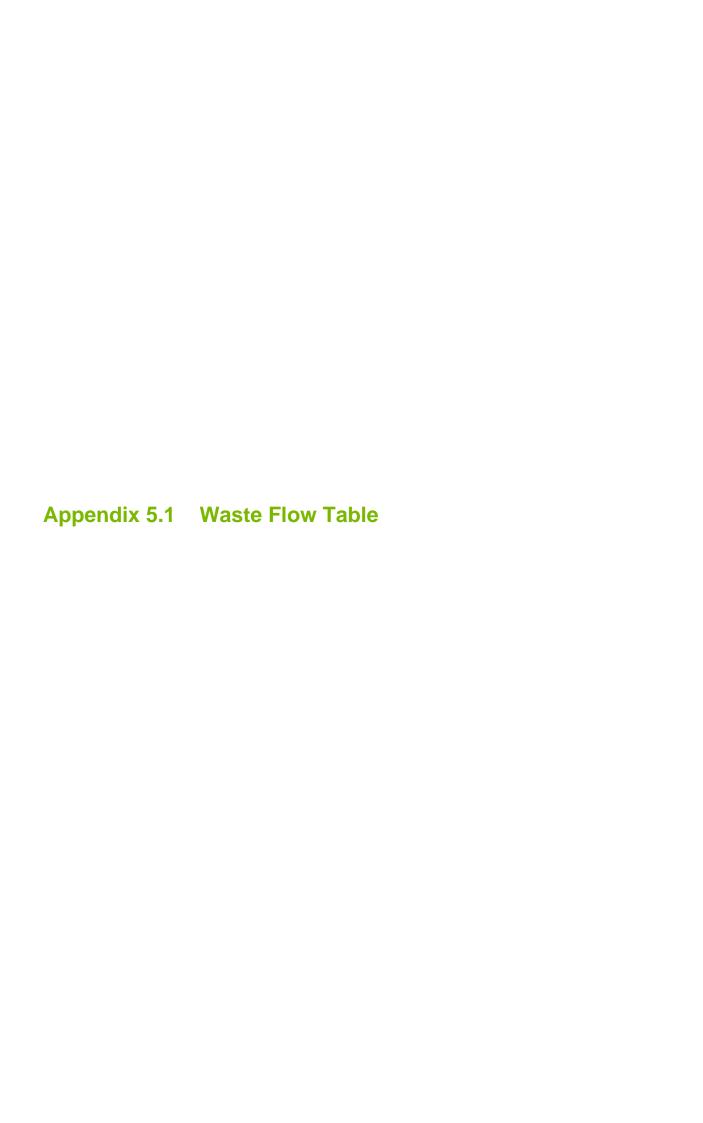
					Leq-5min, dB(A)						30min,
Date	Date Time		Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	dB(A)	
23/2/2024	10:04	-	10:34	Sunny	72.8	70.3	71.8	69.3	69.8	67.7	70.6
										Max	Min
										70.6	70.6











Contract No.: DC/2022/02

Monthly Summary Waste Flow Table

	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
Month	Total Quantity of Materials Generated	Hard Rock, Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 m ³)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 kg)	(in '000 m ³)
Feb	0.050	0.042	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.023
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Half Year Sub-total	0.050	0.042	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.023
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2024 Total	0.050	0.042	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.023
Jan	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
June	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Half Year Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
July	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
August	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
September	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
October	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
November	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
December	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
2025 Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Accumulated Total	0.050	0.042	0.000	0.000	0.050	0.000	0.000	0.000	0.000	0.000	0.023

Remarks: 1 tonne = 2m³

Appendix 10.1 Complaint Log



Statistical Summary of Environmental Complaints

Reporting	Environmental Complaint Statistics						
Period	Frequency	Cumulative	Complaint Nature				
20 Feb 2024 - 29 Feb 2024	0	0	N/A				

Statistical Summary of Environmental Summons

Reporting	Environmental Summons Statistics						
Period	Frequency	Cumulative	Details				
20 Feb 2024 -	0	0	N/A				
29 Feb 2024	U	0	N/A				

Statistical Summary of Environmental Prosecution

Reporting	Environmental Prosecution Statistics						
Period	Frequency	Cumulative	Details				
20 Feb 2024 -	0	0	N/A				
29 Feb 2024	O O	U	IVA				

Appendix 11.1	Impact Monitoring Schedule of Next Reporting Month

	Impact Noise &	& Water Monitoring Schedule for Co	ntract No. DC/2022/02 Drainage Imp	rovement Works at Yuen Long Stage	2 (Version 1.0)	
			March 2024			
Sun	Mon	Tue	Wed	Thur		Sat
					Noise monitoring at HC_M3a, HC_M4 and HC_M6 Water quality monitoring at C9 and C10	2
3	4	5	6	7		9
	Water quality monitoring at C9 and C10		Water quality monitoring at C9 and C10		Noise monitoring at HC_M3a, HC_M4 and HC_M6 Water quality monitoring at C9 and C10	
10	11	12	13	14	Noise monitoring at HC_M3a, HC_M4	16
	Water quality monitoring at C9 and C10		Water quality monitoring at C9 and C10		and HC_M6 Water quality monitoring at C9 and C10	
17	18	19	20	21	22	23
	Water quality monitoring at C9 and C10		Water quality monitoring at C9 and C10		Noise monitoring at HC_M3a, HC_M4 and HC_M6 Water quality monitoring at C9 and C10	
24	25	26	27	28	29	30
	Water quality monitoring at C9 and C10		Noise monitoring at HC_M3a, HC_M4 and HC_M6 Water quality monitoring at C9 and C10			
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Noise Monitoring Locations:

Noise monitoring stations at Ha Che: HC_M3A, HC_M4, and HC_M6

Noise monitoring stations at Tai Wo: TW_M2 and TW_M3

Noise monitoring stations at Lin Fa Tei: LFT_M1, LFT_M3A, LFT_M5, LFT_M7, and LFT_M11

Noise monitoring stations at Sung Shan New Village: SSNV_M2, SSNV_M3, and SSNV_M6

Remarks:

1. The schedule may be changed due to unforeseen circumstances (e.g. adverse weather, etc.)
2. As contruction work will only be carried out at Ha Che in March 2024, monitoring works will only be conducted at Ha Che in March 2024

Water Monitoring Locations:

Water quality monitoring stations at Ha Che: C9 and C10
Water quality monitoring stations at Tai Wo: C4 and C5

Water quality monitoring stations at Lin Fa Tei: C6, C7A, and C8

Water quality monitoring stations at Sung Shan New Village: C1A, C2, and C3A

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