





土木工程拓展署 Civil Engineering and Development Department

### Service Contract No. WD/02/2021

### Environmental Team for Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 – Site Formation and Engineering Infrastructure

## Monthly EM&A Report (December 2022)

## (Environmental Permit No. EP-528/2017)

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Date	18 January 2023	18 January 2023	



Our ref.: LES/J2021-08/CS/L023 Date : 18 January 2023

By Post and Email

Civil Engineering and Development Department West Development Office 9/F, Sha Tin Government Office, 1 Sheung Wo Che Road, Sha Tin, New Territories

#### Attn: Mr. HO Kai Ho, Chief Engineer/West 4 (CE/W4)

Dear Mr. HO,

Agreement No. WD/01/2021 Hung Shui Kiu / Ha Tsuen New Development Area Stage 1 Works – Independent Environmental Checker Verification of Monthly EM&A Report (December 2022)

Reference is made to the captioned report (Document No. ASCL / 210168223 / MRPT01 / 2 dated 18 January 2023) provided by the Environmental Team (ET) with the ET Leader's certification. We hereby verify the captioned for submission under Condition 3.4 of Environmental Permit No. EP-528/2017.

Yours faithfully, For and On Behalf Of Lam Environmental Services Limited

Raymond Dai Independent Environmental Checker

c.c.: Acuity S Mott Ma

Acuity Sustainability Consulting Limited Mott MacDonald Hong Kong Limited (Site office) Mr. F.C. Tsang Mr. Tom Fan (By email) (By email)



### **Revision History**

Rev.	Description of Modification	Date
0.	First issue for comments	11/01/2023
1.	Revised according to IEC's comments	14/01/2023
2.	Revised according to IEC's comments	18/01/2023

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This is the 1<sup>st</sup> Monthly Environment Monitoring and Audit (EM&A) Report for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure (the Project). This report was prepared by Acuity Sustainability Consulting Limited under Service Contract No. WD/02/2021 Environmental Team for Hung Shui Kiu / Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure (hereinafter called the "Service Contract"). This report documents the findings of EM&A works during the reporting period from 5 to 31 December 2022.

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The project construction was commenced on 5 December 2022 and the construction phase EM&A programme started on 6 December 2022.

#### Key Construction Works in the Reporting Period

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

• Construction of Box Culvert at Road D1

#### Environmental Monitoring and Audit Programme

The monthly EM&A programme was undertaken by the ET in accordance with the Updated EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented below:

EM&A Activities	Date		
Water Quality Monitoring	6, 8, 10, 13, 15, 17, 20, 22, 24, 26, 28 and 30 Dec 2022		
Weekly Environmental Site Inspection	9, 16, 23 and 28 Dec 2022		

#### Table I Summary of EM&A activities in the Reporting Period



Summary of the environmental exceedances of the reporting month is tabulated in Table II.

		Sum	mary 0	I Externance n	i the Kej	porung	
Environmental Monitoring	Parameter	No. of non- project related exceedances		Total No. of non-project related exceedances	No. of exceedances related to the the project		Total No. of exceedance related to the project
		AL	LL	•••••••	AL	LL	rjeee
	pН	0	0	0	0	0	0
Water Quality	DO	14	14	28	0	0	0
	Turbidity	1	2	3	0	0	0
	SS	0	1	1	0	0	0

#### Table IISummary of Exceedance in the Reporting Period

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#### Water Quality

All water quality monitoring was conducted as scheduled in the reporting period. Fourteen (14) action level exceedances and fourteen (14) limit level exceedances for dissolved oxygen were recorded. One (1) action level exceedance and two (2) limit level exceedances for turbidity were recorded, and one (1) limit level exceedance for Suspended Solids was recorded. After investigation, all exceedances were considered non-project related.

#### **Complaint Log**

No environmental complaint was received in the reporting period.

#### Notification of Summons and Successful Prosecutions

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

#### **Reporting Changes**

There was no reporting change in the reporting period.

#### **Future Key Issues**

The major site activities for the coming months are summarized below:

- Construction of Box Culvert
- Diversion of watermains

### 1 Introduction

#### Project Background

1.1. The HSK/HT NDA occupies an area of approximately 714 ha and is located in the northwestern part of the New Territories, midway between Tuen Mun and Tin Shui Wai New Towns. It is bounded by Tin Ying Road/ Ping Ha Road/ Kiu Hung Road to the east, Castle Peak Road to the south, Kong Sham Western Highway ("KSWH") to the west, and Tin Ha Road, Lau Fau Shan Road and hillslopes along Deep Bay Road to the north. In the wider context, the proposed Project is strategically located in close proximity to Shenzhen, particularly Shenzhen Bay Control Point, Qianhai, and Shekou and efficiently linked with the Greater Pearl River Delta ("PRD") region. The KSWH and the possible highway connecting the Project area with the Tuen Mun - Chek Lap Kok Link, the Hong Kong International Airport, Kwai Tsing Container Terminals, and the Hong Kong-Zhuhai-Macao Bridge and its Boundary Crossing facilities. New strategic highway infrastructure connecting the Project area with the urban area will also be planned to address the long-term development needs of North West New Territories ("NWNT"). The proposed West Rail Hung Shui Kiu Station ("HSK Station"), with its alignment traversing the Project allows convenient and efficient access to and from the Project area.

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- 1.2. The works under HSK/HT NDA Stage 1 works comprises the construction of interim section of new distributor road (Road D1) (hereinafter call "the Project") that is a designated project ("DP") (defined under item A1 in Schedule 2 of the Environmental Impact Assessment Ordinance) connecting the site for the first batch of multi-storey buildings ("MSBs") at Sites 3-6, 3-7 and 3-8 to the existing Ha Tsuen Roundabout of KSWH.
- 1.3. The HSK/HT NDA Stage 1 works would be implemented under a fast track programme, involving various complex tasks for providing infrastructure and forming the five development sites to be conducted in parallel, so as to tie in with operation of the development MSBs or other land-efficient means and population intake of the village resite house in 2025 tentatively.
- 1.4. The scope of works covered by Public Works Programme (PWP) Item No. 7796CL comprise the followings:
  - (i) Site formation works for Site 2-18, Site 2-19, Site 3-6, Site 3-7 and Site 3-8;
  - Land decontamination works including ground investigation works for Site 2-18, Site 2-19, Site 3-6, Site 3-7 and Site 3-8 and other areas within the boundaries of the site;
  - (iii) Construction of a district distributor road connecting to the existing interchange underneath KSWH, construction of local roads, widening of a section of Fung Kong Tsuen Road and associated junction/ road improvements; and



- (iv) Engineering infrastructure works comprising sewerage works (including a pumping station), drainage works (including a detention pond), waterworks and landscaping works.
- 1.5. Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection Department (EPD) granted the Environmental Permits (Nos.: EP-526/2017, EP-527/2017, EP-528/2017, EP-529/2017, EP-530/2017 and EP-531/2017) to the CEDD for the Project. The HSK/HT NDA Stage 1 works comprise the interim section of Road D1 that is governed under Environmental Permit No. EP-528/2017. No other DPs are identified within the scope of HSK/HT NDA Stage 1 works.
- 1.6. Acuity Sustainability Consulting Limited (ASCL) is commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Team (ET) services as required and/or implied, both explicitly and implicitly, in the Environmental Permit (EP), Environmental Impact Assessment (EIA) Report (Register No. AEIAR-203/2016) and Environmental Monitoring and Audit (EM&A) Manual for the Project; and to carry out the EM&A programme in fulfillment of the EIA Report's, EM&A requirements under Service Contract No. WD/02/2021.
- For construction phase of the Project, the construction has been commenced on 5 December 2022 and the construction phase EM&A programme was started on 6 December 2022.
- 1.8. This is the 1<sup>st</sup> Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 6 December to 31 December 2022 (the reporting period) and is submitted to fulfill the requirements in Condition 3.4 of EP-528/2017 and Section 15.3 of the Updated EM&A Manual of the Project.

#### **Project Organization**

- 1.9. Different parties with different levels of involvement in the Project organization include:
  - Project Proponent Civil Engineering and Development Department (CEDD)
  - Supervisor / Engineer's Representative (ER) Mott MacDonald Hong Kong Limited
  - Contractor China Geo-Engineering Corporation
  - Environmental Team (ET) Acuity Sustainability Consulting Limited
  - Independent Environmental Checker (IEC) Lam Environmental Services Limited
- 1.10. The key personnel contact names and numbers are summarized in Appendix B.

Construction Works Programme and Construction Works Area

1.11. The construction works commenced on 5 December 2022. The construction works programme and the construction works area of the Project are shown in **Appendix A** and **Figure 1** respectively. A summary of construction activities undertaken during this reporting period is presented below:

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• Construction of Box Culvert at Road D1

License, Notifications and Permits

1.12. A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 1.1**.

Dormit / Liconso No	Valid 1	Period	Status			
Fermit / License No.	From	То	Status			
Environmental Permit						
EP-528/2017	21/02/2017	N/A	Valid			
Notification pursuant to Air Pollution	Control (Constr	ruction Dust) R	egulation			
467008	29/04/2021	N/A	Valid			
Billing Account for Disposal of Construction Waste						
7040500	13/05/2021	N/A	Valid			
Registration of Chemical Waste Producer						
467007	29/04/2021	N/A	Valid			
Effluent Discharge License under Wa	Effluent Discharge License under Water Pollution Control Ordinance					
N/A	N/A N/A		Under application			
Construction Noise Permit (CNP)						
N/A	N/A	N/A	N/A			

#### Table 1.1 Status of Environmental License, Notifications and Permits

Submission Status under Environmental Permit

1.13. The summary of submission status under Environmental Permit EP-528/2021 was presented in Appendix K.

### 2 Air Quality

#### Monitoring Requirement

2.1. In accordance with the Updated EM&A Manual, the ET shall carry out impact monitoring during the construction phase of the Project. 1-hour Total Suspended Particulates (TSP) should be conducted at a frequency of at least three times in every six days when the highest dust impact occurs.

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#### Monitoring Location

2.2. According to the Updated EM&A Manual, the designated locations for impact air quality monitoring are listed in **Table 2.1** and their locations are shown in **Figure 2.1**.

Station(s)	EIA ID	Monitoring Location		
AM23	P1032	Planned Port Back-up, Storage and Workshop (at Site 3-6)		
AM24	P1501	Planned Port Back-up, Storage and Workshop (at Site 3-8)		
AM25a -		San Wai Sewage Treatment Plant near the Planned Port Back-up, Storage and Workshop (at Site 3-14)		

Table 2.1Summary of Proposed Air Quality Monitoring Location

- 2.3. In accordance with the Table A2.4 in Appendix A of the Updated EM&A Manual, impact air quality monitoring will be carried out at monitoring stations AM23, AM24 and AM25a after the occupation of the planned port back-up, storage and workshop.
- 2.4. As confirmed with ER, the planned port back-up, storages and workshops at Site 3-6, Site 3-8 and Site 3-14 are not constructed yet. Thus, the impact air quality monitoring will be carried out at AM23, AM24 and AM25a after the construction and occupation of these planned port back-up, storages and workshops. No air quality monitoring was carried out in this reporting month.



### 3 Water Quality

#### Monitoring Requirement

- 3.1. In accordance with the Updated 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.
- 3.2. 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.

#### Monitoring Location

3.3. Impact water quality monitoring was conducted at 6 monitoring stations which is summarized in **Table 3.1**. The location of water quality monitoring stations is shown in **Figure 3.1**.

Station	Description	Easting	Northing
U1	Upstream Station	815936	834150
U2	Upstream Station	816240	834009
SW	Gradient station (Downstream of U1 and the construction site of Road D1)	816304	834321
HT	Gradient station (Downstream of U2 and the construction site of Road D1)	816866	834314
TKW1	Gradient station (Downstream of the construction site of Road D1)	816563	834686
TKW	Gradient station (Downstream of TKW1 and construction site of Road D1)	816594	834690

 Table 3.1
 Summary of Impact Water Quality Monitoring Stations

Remark: The original water quality monitoring station DB was surrounded by scrubs and vegetation and located along the steep slope of the hill to south-west of Fung Kong Tsuen. The watercourse runs towards the north of Road D1, but no downstream watercourse was identified. Thus, water quality monitoring station DB is not recommended for this Contract without upstream/ downstream monitoring locations identified. An updated water quality monitoring stations TKW and TKW1 were proposed by ET and approved by IEC and EPD.

#### Monitoring Parameter and Frequency

3.4. The parameters that have been selected for measurement in-situ and in the laboratory are those that are either determined in the EIA to be those that are likely be affected by the construction works or a standard check on water quality conditions. Parameters to be measured in the impact water quality monitoring are listed in **Table 3.2**.

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Parameters	Units	Abbreviations	Frequency
In-situ measurements			
Dissolved oxygen	mg/L	DO	
Dissolved oxygen saturation	%	DO%	
Temperature	°C	-	3 days per week
рН	-	-	
Turbidity	NTU	-	
Laboratory measurements			
Suspended Solids	mg/L	SS	

 Table 3.2 Parameters measured in the Impact Water Quality Monitoring

3.5. Monitoring location and position, time, sampling depth, weather conditions and any special phenomena or work underway nearby was also be recorded.

#### Sampling Depths & Replication

3.6. During impact water quality monitoring, each station was sampled, and measurements / water samples was taken at three depths, 1 m below the water surface, mid-depth and 1 m above riverbed. If the water depth was less than 6 m, mid-depth might be omitted. If the water depth was less than 3 m, mid-depth sampling only. For in situ measurements, duplicate readings were made at each water depth at each station. Duplicate water samples were collected at each water depth at each station.

#### Monitoring Equipment

3.7. A multi-parameter meter (Model HORIBA U-53) was used to measure DO, turbidity, salinity, pH and temperature.

#### Dissolved Oxygen and Temperature Measuring Equipment

3.8. 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.
- 3.9. The equipment had a membrane electrode with automatic temperature compensation complete with a cable.
- 3.10. Sufficient stocks of spare electrodes and cables were available for replacement where necessary.

#### Turbidity Measurement Equipment

3.11. Turbidity was measured in situ by using the nephelometric method. The instrument was portable and weatherproof using a DC power source complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0 - 1000 NTU. The probe cable was not less than 25 m in length.

#### Water Depth Detector

3.12. A portable, battery-operated and handheld echo sounder was used for the determination of water depth at each designated monitoring station.

<u>pH</u>

3.13. The instrument was consisting of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It was readable to 0.1 pH value in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

#### Sample Container and Storage

3.14. Following collection, water samples for laboratory analysis were stored in high density polyethylene bottles with appropriate preservatives added, packed in the ice (cooled to 4 °C without being frozen). The sample were delivered to Acumen Laboratory and Testing Limited (ACUMEN) (HOKLAS Registration No. 241) and analysed as soon as possible after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.

#### Calibration of In Situ Instruments

3.15. The pH meter, DO meter and turbidimeter were checked and calibrated before use. DO meter and turbidimeter were certified before use and subsequently recalibrated at quarterly basis throughout all stage of water quality monitoring programme. Response of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement.



3.16. For the on-site calibration of field equipment (Multi-parameter Water Quality System), the BS 1427:2009, "Guide to on-site test methods for analysis of waters" was observed.

#### Back-up Equipment

- 3.17. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, etc.
- 3.18. **Table 3.3** 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 E**.

Table	: 5.5	water Quanty Monitoring Equipment	L
Equipment		<b>Brand and Model Number</b>	Quantity
Multi-parameter Quality System	Water	HORIBA U-53	1

Table 3.3Water Quality Monitoring Equipment

#### Monitoring Methodology

3.19. A multi-parameter meter (Model HORIBA U-53) was used to measure DO, turbidity, salinity, pH and temperature.

#### **Operating/ Analytical Procedures**

3.20. At each measurement, two consecutive measurements of DO concentration, DO saturation, salinity, turbidity, pH and temperature were taken. The probes were retrieved out of water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded, and further readings were taken.

#### Laboratory Analytical Methods

3.21. Duplicate samples from each independent sampling event are required for all parameters. Analysis of suspended solids were carried out by ACUMEN and comprehensive quality assurance and control procedures in place in order to ensure the quality and consistency of the results. The reporting limit and detection limit are provided in **Table 3.4** and the detection limit for the in-situ measurement are shown in **Table 3.5**.

Table 3.4Method for Laboratory Analysis for Water Samples

Determinant	Proposed Method	Limit of Reporting
Total Suspended Solid (SS)	APHA 2540 D	1.0 mg/L

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Table 5.5 Detection Limits and Precision for water Quality Parameters					
Parameters	<b>Detection limit</b>	Accuracy	Precision		
DO	0-20 mg/L	±0.1 mg/L			
Temperature	0-45 °C	± 0.1 °C	2501		
рН	0 - 14	±0.1	23%		
Turbidity	0 – 1000 NTU	±2NTU			

#### **QA/QC** Requirements

#### **Decontamination Procedures**

3.22. 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

3.23. 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 °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

- 3.24. Quality control of laboratory analysis of water samples was performed by ACUMEN for every batch of 20 samples:
  - One method blank; and
  - One set of QC sample

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#### Event and Action Plan

3.25. Should any non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix H** 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.

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#### Results and Observations

- 3.26. 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 D**.
- 3.27. The monitoring results and graphical presentation of water quality monitoring at the monitoring stations are shown in **Appendix F**.
- 3.28. During the reporting month, fourteen (14) action level exceedances and fourteen (14) limit level exceedances for DO were recorded, and one (1) action level exceedance and two (2) limit level exceedances for turbidity were recorded, and one (1) limit level exceedance of SS during impact water quality monitoring were recorded. Summaries of exceedance records are shown in **Table 3.6** and **Table 3.7**. Action and Limit Levels for impact water quality monitoring are presented in **Table 3.8**.

		Parameter	Parameter averaged		dance	Exceedances
Date	Station	(Unit)	Measured Value	AL	LL	due to the Project
	TKW1	DO(ma/L)	2.2		✓	N
6/12	HT	DO (mg/L)	2.2	✓		Ν
0/12	TKW	Turbidity (NTU)	26.5		✓	Ν
	SW	SS (mg/L)	13.5		✓	Ν
8/12	SW	Turbidity (NTU)	22.3	✓		Ν
	TKW1		2.4		~	Ν
10/12	TKW	DO (mg/L)	2.4	✓		Ν
10/12	10/12 SW		2.3		✓	Ν
	HT		2.3	✓		Ν
	TKW		2.2		✓	Ν
13/12 SW	SW	DO (mg/L)	2.0		~	Ν
	HT		2.1		✓	Ν
15/12	TKW1	DO(mg/I)	2.3		✓	N
13/12	SW	DO (IIIg/L)	3.6	$\checkmark$		N

 Table 3.6
 Summary of Exceedance Records of Water Quality Monitoring

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New Development Area Stage 1 Works – Site Formation and Engineering In Member of the Aurecon Group Monthly EM&A Report (December 2022)

	Parameter		Depth-	Excee	dance	Exceedances
Date	Station	(Unit)	Measured Value	AL	LL	due to the Project
	HT		2.4	✓		Ν
	TKW	Turbidity (NTU)	25.1		✓	Ν
	TKW1		2.5		✓	Ν
17/12	TKW	DO(mg/I)	2.3		$\checkmark$	Ν
1//12	SW	DO (mg/L)	3.6	✓		Ν
	HT		2.3	✓		Ν
	TKW1		2.7		✓	Ν
20/12	TKW	DO (mg/L)	2.5	✓		Ν
20/12	SW		3.3		✓	Ν
	HT		2.3	$\checkmark$		Ν
	TKW1		2.7		✓	Ν
22/12	TKW	DO(ma/L)	2.4	✓		Ν
22/12	SW	DO (mg/L)	3.6	$\checkmark$		Ν
	HT		2.4	$\checkmark$		Ν
	TKW1		2.2		$\checkmark$	Ν
24/12	SW	DO (mg/L)	3.6	$\checkmark$		Ν
	HT		2.4	✓		N

Table 3.7	Summary of	of Exceedance	e Records of	Water Ou	ality Monitoring
	•				

Parameter	No. of non- project related exceedances		on- ct Total No. of d non-project nces avcordances		. of dance l to the ject	Total No. of exceedance related to the
	AL	LL	exceedances	AL	LL	Project
pН	0	0	0	0	0	0
Dissolved Oxygen	14	14	28	0	0	0
Turbidity	1	2	3	0	0	0
Suspended Solids	0	1	1	0	0	0

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ed Action and Limit Levels for Water Quality				
Action Levels	Limit Levels			
3.7	3.5			
21.4	22.9			
9.7	9.9			
an 6.6 or greater than 8	Less than 6.5 or greater than 8.5			

Table 3.8	Derived Action and l	Limit Levels for	Water Quality	V
-----------	----------------------	------------------	---------------	---

SS (mg/L)	9.7	9.9
рН	Less than 6.6 or greater than 8.4	Less than 6.5 or greater than 8.5
HT		
DO (mg/L)	2.4	2.2
Turbidity (NTU)	32.3	32.6
SS (mg/L)	34.0	38.7
pH	Less than 6.6 or greater than 8.4	Less than 6.5 or greater than 8.5
TKW1		
DO (mg/L)	2.8	2.8
Turbidity (NTU)	27.9	29.2
SS (mg/L)	16.0	18.4
рН	Less than 6.6 or greater than 8.4	Less than 6.5 or greater than 8.5
TKW		
DO (mg/L)	2.5	2.4
Turbidity (NTU)	24.2	24.6
SS (mg/L)	19.8	21.6
pН	Less than 6.6 or greater than 8.4	Less than 6.5 or greater than 8.5

Notes:

**Parameters** 

DO (mg/L) Turbidity (NTU)

SW

(1) For DO, non-compliance of the water quality limit occurs when monitoring result is lower than the limit.

(2) For Turbidity and SS, non-compliance of the water quality limit occurs when monitoring result is higher than the limit.

(3) The Action Levels and Limit Levels for dissolved oxygen only apply to mid-depth.

3.29. After confirmation of exceedance of the water quality monitoring results, ET has sent the emails for 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. Detail of the investigation results are presented in Appendix M.



#### **Recommendations**

- 3.30. In view of the non-project related exceedances of action and limit levels recorded frequently in December 2022, review of the water quality baseline condition was proposed to reflect the baseline condition during dry season and to reduce the number of false alarms. After site investigation, there is no evidence to indicate that the water quality monitored between 6 and 31 December 2022 was affected by the stie activities, and the water quality monitoring exceedances were caused by other composite factors including surface runoff and effluent discharges from the workshops, open storages, warehouses, private toilet(s) and residential dwellings along the catchment downstream of the site, as well as natural variation of upstream water quality.
- 3.31. It is proposed to adopt the water quality data collected in December 2022 as the baseline water quality during the dry season and to derive a supplementary Action/ Limit Levels for the dry season. (The Action/ Limit Levels derived from the water quality data collected in May 2022 would then be applied for wet season.) An updated Baseline Water Quality Monitoring Report would be submitted to IEC and EPD for approval.

### 4 Waste Management

4.1. 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 I**.

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- 4.2. Construction and demolition (C&D) materials sorting 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.
- 4.3. The Contractor is advised to minimize the wastes generated through recycling or reusing. All applicable mitigation measures stipulated in the Updated EM&A Manual and waste management plans will be fully implemented.

### 5 Environmental Site Inspection and Audit

5.1. Site inspections were carried out by ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on 9, 16, 23 and 28 December 2022. Joint IEC site inspection was carried out on 28 December 2022.

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- 5.2. Bi-weekly landscape and visual site audits were carried out by a Registered Landscape Architect (RLA) on 16 and 28 December 2022. No particular observation was recorded in this reporting period.
- 5.3. During site inspection in the reporting period, no non-conformance was identified. Key observations and reminders during the site inspection and landscape and visual site audit are described in **Table 5.1**.

Inspection Date	Key Observation / Reminders	Follow-up Action
9 Dec 2022	<ol> <li>Fugitive dust was observed when a truck was moving on the haul road within the site. The Contractor had implemented water spraying on site and was reminded to enhance the measure over the haul road.</li> <li>The Contractor was reminded to place a copy of relevant environmental permit at the site entrance.</li> </ol>	<ol> <li>Water spraying was provided on site to prevent dust generation.</li> <li>Copies of environmental permit to be provided at the site entrance.</li> </ol>
16 Dec 2022	1. It is understood that the application of effluent discharge licenses is still underway. No effluent discharge away from the site was observed during the inspection. The Contractor was reminded that no effluent is allowed to be discharged off-site before the issue of license.	1. No effluent will be discharged before the effluent discharge license is acquired.
23 Dec 2022	1. Drip tray should be provided for chemical storage and chemical containers shall be properly labelled.	<ol> <li>Drip tray was provided for chemical storage.</li> <li>Copies of environmental permit to be provided at the site entrance.</li> </ol>

Table 5.1Summary of Site Inspections and Recommendations

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Inspection Date	Key Observation / Reminders	Follow-up Action
	2. Contractor was reminded to 3	3. NRMM Label was
	display Environmental Permit on	replaced.
	site exit.	4. No effluent will be
	3. The Contractor was reminded to	discharged before acquired
	replace the faded NRMM Label.	the effluent discharge license.
	4. The Contractor was reminded	
	that no effluent is allowed to be	
	discharged off-stie before the	
	issue of license.	
	1. At the construction site of Road	1. Stagnant water in drip tray
28 D 2022	D1, stagnant water within the	was removed.
28 Dec 2022	drip tray of a generator should be	
	properly removed.	

Implementation Status of Environmental Mitigation Measures

5.4. According to the EIA Report, EP and the Updated EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. A summary of the Project Implementation Schedule is provided in **Appendix C**.

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### 6 Environmental Non-Conformance

#### Summary of Exceedances

- 6.1. Fourteen (14) action level exceedances and fourteen (14) limit level exceedances for DO were recorded. One (1) action level exceedance and two (2) limit level exceedances for turbidity were recorded, and one (1) limit level exceedance for SS was recorded. After investigation, all exceedances were considered non-project related.
- 6.2. Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action / Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix H** would be carried out.
- 6.3. Bi-weekly landscape and visual site audits were carried out by a Registered Landscape Architect (RLA) on 16 and 28 December 2022. No particular observation was recorded in this reporting period.
- 6.4. Should the audit results indicate that the nonconformity occasion, the actions in accordance with the Event and Action Plans in **Appendix H** would be carried out.

Summary of Environmental Non-Compliance

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

Summary of Environmental Complaint

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

Summary of Environmental Summon and Successful Prosecution

6.7. 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 J**.



### 7 Future Key Issues

- 7.1. Works to be undertaken in the next reporting period are summarized in below:
  - Construction of Box Culvert
  - Diversion of watermains
- 7.2. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust impact, noise impact, water quality impact and waste management.

#### Recommendation

7.3. The key environmental mitigation measures for the Project in the coming reporting period associated with above construction activities will include:

#### Dust

- Regular watering to reduce dust emissions from exposed site surface;
- Stockpile of dusty materials shall be covered entirely by impervious sheeting;
- Provide vehicles washing facilities at all site exits to wash away any dusty materials from vehicle body;
- NRMM Labels should be displayed on the applicable equipment on site by the Contractor;
- Provision of water sprinklers along the haul road for dust suppression.

#### Noise

- Only well-maintained plant should be operated on-site, and plant should be maintained regularly during the construction programme;
- 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.

#### 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.

#### Landscape and Visual

- Construction activities shall be carefully designed to minimize impact in existing retained trees.
- 7.4. The construction programme for the Project for next reporting period is presented in **Appendix A**.

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#### Conclusion

8.1. This Monthly EM&A Report presents the EM&A works during the reporting period from 6 to 31 December 2022 in accordance with the Updated EM&A Manual.

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- 8.2. Fourteen (14) action level exceedances and fourteen (14) limit level exceedances for dissolved oxygen were recorded. One (1) action level exceedance and two (2) limit level exceedances for turbidity of impact water quality monitoring were recorded, and one (1) limit level exceedance for SS was recorded. After investigation, all exceedances were considered non-project related.
- 8.3. Environmental site inspections were conducted on 9, 16, 23 and 28 December 2022 by the ET in the reporting period.
- 8.4. No environmental complaint was received in the reporting period.
- 8.5. No notification of summons and prosecution was received in the reporting period.
- 8.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 8.7. No change of EM&A programme was made in this reporting period.

#### Comments/ Recommendations

- 8.8. The baseline water quality monitoring was conducted during a typical wet season in Hong Kong. During the dry season, however, the rainfall is less, and the stream flow would contain higher portion of expedient discharge from local village houses and contaminated runoff from brownfield sites/ open storage area. It is anticipated that the stream flow would contain higher content of turbidity and SS during the dry season. Thus, review of the water quality baseline condition would be required during the construction phase of the Project, particularly when the non-project related exceedances of Action and Limit Levels become frequent. The environmental performance criteria may need to be updated if it is evident that the baseline conditions have changed significantly.
- 8.9. As frequent non-project related exceedances of the water quality parameters were reported during the monitoring in December 2022, a supplementary set of Action/Limit Levels of the water quality parameters would be proposed for the dry season due to change of the baseline water quality during the dry season.



Figure(s)

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# Appendix A

## **Construction Programme**

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Hung Site F	Shui Kiu/Ha Tsuen New Development Area Stage 1 Works - Formation and Engineering Infrastructure														
ID	Task Name	Duration Start	Finish	Qtr 2, 2021	Qtr 3, 2021 Qtr 4, 2021	I Qtr 1, 2022 Qtr 2, 2022	2 Qtr 3, 2022 Qtr 4, 202	2 Qtr 1, 2023 Qtr 2, 2023	Qtr 3, 2023 Qtr 4, 2023	3 Qtr 1, 2024 Qtr 2, 20	24 Qtr 3, 2024 Qtr 4, 202	24 Qtr 1, 2025 0	Qtr 2, 2025 Qtr 3, 20	)25 Qtr 4, 2025	Qtr 1, 2026 Qtr 2, 2026
1	Programme of YI /2020/03	1836 days Mon 19/4	/21 Tue 28/4/26	Apr May Jur	n Jul Aug Sep Oct Nov De	c Jan Feb Mar Apr May Ju	n Jul Aug Sep Oct Nov D	ec Jan Feb Mar Apr May Jur	n Jul Aug Sep Oct Nov De	c Jan Feb Mar Apr May	Jun Jul Aug Sep Oct Nov D	ec Jan Feb Mar A	Apr May Jun Jul Aug	Sep Oct Nov Dec	Jan Feb Mar Apr May Jun
2	Contract Date	0 days Mon 19/4/	/21 Mon 19/4/21												••••
3	Project Dates	1826 days Wed 28/4	/21 Tue 28/4/26												Project
4	Starting Date	0 days Wed 28/4	/21 Wed 28/4/21	-											•••
5	Access Date 1	0 days Wed 28/4	/21 Wed 28/4/21												
6	Access Date 122	0 days Sat 28/8/2	21 Sat 28/8/21	[]											
7	Access Date 275	0 days Fri 28/1/2	2 Fri 28/1/22	- 11		•									
8	Access Date 456	0 days Thu 28/7/	22 Thu 28/7/22	- 11			•								
9	Completion Dates	913 days Sat 28/10	/23 Tue 28/4/26												Comple
10	Completion Date 913 Section 1A1	0 days Sat 28/10	/23 Sat 28/10/23						•						
11	Completion Date 913 Section 1A2	0 days Sat 28/10	/23 Sat 28/10/23						•						
12	Completion Date 913 Section 1A3	0 days Sat 28/10	/23 Sat 28/10/23						•						
13	Completion Date 913 Section 1A4	0 days Sat 28/10	/23 Sat 28/10/23						•						
14	Completion Date 913 Section 1A5	0 days Sat 28/10	/23 Sat 28/10/23						•						
15	Completion Date 913 Section 1A6	0 days Sat 28/10	/23 Sat 28/10/23						•						
16	Completion Date 1278 Section 1B	0 days Sun 27/10	0/24 Sun 27/10/24								•				
17	Completion Date 1461 Section 2A	0 days Mon 28/4/	/25 Mon 28/4/25										•		
18	Completion Date 1826 Section 2B	0 days Tue 28/4/	26 Tue 28/4/26												•
19	Access Dates	456 days Wed 28/4	/21 Thu 28/7/22	•			Access Dates								
20	Access Date of Portion A1	0 days Sat 28/8/2	21 Sat 28/8/21												
21	Access Date of Portion A2	0 days Sat 28/8/2	21 Sat 28/8/21												
22	Access Date of Portion A3	0 days Sat 28/8/2	21 Sat 28/8/21												
23	Access Date of Portion A4	0 days Sat 28/8/2	21 Sat 28/8/21		•										
24	Access Date of Portion A5	0 days Sat 28/8/2	21 Sat 28/8/21												
25	Access Date of Portion A6	0 days Sat 28/8/2	21 Sat 28/8/21												
26	Access Date of Portion A7	0 days Sat 28/8/2	21 Sat 28/8/21												
27	Access Date of Portion A8	0 days Sat 28/8/2	21 Sat 28/8/21	- 11	•										
20	Access Date of Portion B1	0 days FII 20/1/2	2 FII 20/1/22	_											
29	Access Date of Portion B2	0 days FII 20/1/2	2 FII 20/1/22												
30	Access Date of Portion B4	0 days Fil 20/1/2	2 FII 20/1/22												
32	Access Date of Portion B5	0 days Fri 28/1/2	2 Fri 28/1/22	- 11		<b>]</b>									
33	Access Date of Portion B6	0 days Fri 28/1/2	2 Fri 28/1/22	- 11		I I I									
34	Access Date of Portion B7	0 days Fri 28/1/2	2 Fri 28/1/22	- 11											
35	Access Date of Portion B8	0 days Fri 28/1/2	2 Fri 28/1/22	- 11											
36	Access Date of Portion B9	0 days Fri 28/1/2	2 Fri 28/1/22												
37	Access Date of Portion B10	0 days Fri 28/1/2	2 Fri 28/1/22	- 11											
38	Access Date of Portion B11	0 days Fri 28/1/2	2 Fri 28/1/22			•									
39	Access Date of Portion C1	0 days Wed 28/4	/21 Wed 28/4/21												
40	Access Date of Portion D1	0 days Thu 28/7/	22 Thu 28/7/22	1			•								
41	Access Date of Portion D2	0 days Fri 28/1/2	2 Fri 28/1/22	1		♣									
42	Key Dates	365 days Thu 28/10	0/21 Fri 28/10/22				Key	Dates							
43	Submission of the Detailed Boulder Survey Report with the Boulder Hazard Mitigation Measures to the Geotechnical Engineering Office of the Civil Engineering and Development Department	0 days Fri 28/1/2	2 Fri 28/1/22												
44	Submission of the Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) to the Environmental Protection Department	0 days Thu 28/7/	22 Thu 28/7/22				•								
45	Acceptance in principle by the Project Manager of the Contractor's Design for the Sewage Pumping Station	0 days Fri 28/10/	22 Fri 28/10/22				<b>*</b>								
46	Acceptance in principle by the Project Manager of the Contractor's Design of the Boost-up Transformer Room	0 days Thu 28/10	0/21 Thu 28/10/2		<b>•</b>									Goneral Berni	romont
4/	Conoral Submission	1407 days Tue 20/4/	21 FTI 25/4/25		General Submissi	00								General Requir	ement
40	Particulars of underground services detection equipment	7 days Tuo 20/4/	21 IUE 2/1//21												
49 50	Details of Contract Computer Facilities and Software (PS1.49A)	7 days Tue 20/4/	21 Mon 26/4/21 21 Mon 26/4/21												
51	Mobile phone for the contract (PS1.16)	7 days Tue 20/4/	21 Mon 26/4/21	╡╉╢											
52	Specialist Provider of Smart Card System (PS29.06)	7 days Tue 20/4/	21 Mon 26/4/21	╡╉╢											
	Task			Milestone		mmany			1	1	1		1		1

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID Task Name	Duration Start	Finish	Qtr 2, 2021	Qtr 3, 2	2021 Qtr 4, 2021 Q	r 1, 2022 Qtr 2, 202	22 Qtr 3, 2022 Qtr	r 4, 2022 Qt	r 1, 2023 Qtr 2, 2	023 Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024 C	tr 2, 2024 Qtr 3	, 2024 Qtr 4	1, 2024 Qtr 1, 20	25 Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026	Qtr 2
53 Proposal of Security System (PS1.53A)	14 days Tue 20/4/21	Mon 3/5/21	Apr May Jur	n∣Jul∣Aug	Sep Oct Nov Dec Ja	n⊫eb∣Mar∣Apr∣May J	iun Jui AugSepOct	Nov Dec Jar	n ⊢eb Mar Apr Ma	/Jun Jul Aug Sep	Uct Nov Dec	Jan⊩eb∣Mar∣Aj	or∣May∣Jun∣ Jul /	ug Sep Oct I	NOV Dec Jan Feb N	ıar Apr May∣Jur	I Jul Aug∣Ser	DOCT NOV Dec	Jan Feb Ma	r Apr N
54 Professional photographer and use of aircraft (PS1.55S)	1 day Thu 29/4/21	Thu 29/4/21																		
55 Procedures for selecting Subcontractors (ACC C9)	21 days Tue 20/4/21	Mon 10/5/21	¥.																	
56 Competitive process for selection of supplier of plant and materials equipment and insurance (ACC C11)	21 days Tue 20/4/21	Mon 10/5/21	<b>T</b>																	
57 Designated bank and payment of wages to all the site personnel (/95/20.05)	14 days Tue 20/4/21	Mon 3/5/21																		
58 Hydiene and Welfare facilities (PS1 50A)	14 days Thu 29/4/21	Wed 12/5/21	¥																	
50 Necessary Arrangement with Bank to implement the	14 days Thu 20/4/21	Wed 12/5/21	Ŧ																	
arrangement on payment of wages to Workers (ACC E6)	14 days Thu 29/4/21	Wed 12/3/21																		
60 Professional video production company and a competent video director (PS1.119)	14 days Thu 29/4/21	Wed 12/5/21																		
61 Details of ESIS and DRIS System (PS1.129)	14 days Thu 29/4/21	Wed 12/5/21																		
62 Hoarding Plan (PS1.48)	14 days Thu 29/4/21	Wed 12/5/21																		
63 Transport for PM and Supervisor (PS1.52)	14 days Thu 29/4/21	Wed 12/5/21																		
64 Sub-contractor Management Plan (ACC C5)	30 days Tue 20/4/21	Wed 19/5/21																		
65 Weather Protection Scheme against inclement weather (PS1.86)	30 days Thu 29/4/21	Fri 28/5/21																		
66 Temp Drainage Management Plan	30 days Thu 29/4/21	Fri 28/5/21																		
67 Contingency Plan to deal with Flooding	30 days Thu 29/4/21	Fri 28/5/21																		
68 Supply of Brand New Survey Equipment (PS Appendix 1.17)	30 days Thu 29/4/21	Fri 28/5/21																		
69 Site Uniform (PS1.88)	30 days Thu 29/4/21	Fri 28/5/21																		
70 PII insurance Policy	60 days Tue 20/4/21	Fri 18/6/21	▮																	
71 Book with a certification body acceptable to the Employer the date of audit for the ISO 9001:2015 certification	90 days Thu 29/4/21	Tue 27/7/21	*																	
72 Completion of Initial General Submission	0 days Fri 28/5/21	Fri 28/5/21	🐩																	
73 Programme	104 days Tue 20/4/21	Sun 1/8/21		P	rogramme															
74 First Programme (CDP1 3)	14 days Tue 20/4/21	Mon 3/5/21	╅																	
75 Acceptance of the First Programme	30 days Tue 4/5/21	Wed 2/6/21																		
76 Expanded and more detailed version of the first programme (PSA 1.3)	60 days Thu 3/6/21	Sun 1/8/21																		
77 First Monthly Progress Report (PS1.08A)	30 days Tue 4/5/21	Wed 2/6/21																		
78 Completion of Initial Programme Submission	0 days Wed 2/6/21	Wed 2/6/21																		
79 Appointment of Personnel	99 days Tue 20/4/21	Tue 27/7/21		A	pointment of Perso	nel														
80 Contractor's Labour Officer (PS29.09)	7 days Tue 20/4/21	Mon 26/4/21																		
81 Contractor's Surveyor (PS1.09)	7 days Thu 29/4/21	Wed 5/5/21																		
82 List of Staff for Construction Management Team (ACC D1)	14 days Thu 29/4/21	Wed 12/5/21																		
83 RSO and SS (ACC D1)	14 days Thu 29/4/21	Wed 12/5/21																		
84 EO and ES (ACC D1)	14 days Thu 29/4/21	Wed 12/5/21																		
85 Site Agents and Employees (PS1.12)	14 days Thu 29/4/21	Wed 12/5/21																		
86 Construction Manager (PS1.12A)	14 days Thu 29/4/21	Wed 12/5/21																		
87 Construction, Landscape and Land Decontanmination Leader (PS1.12B)	14 days Thu 29/4/21	Wed 12/5/21																		
88 Geotechnical Engineer, Geologist, Geotechnical Supervisor and GFT (1.12C)	14 days Thu 29/4/21	Wed 12/5/21																		
89 Foreman for Road and Drainage Works	14 days Thu 29/4/21	Wed 12/5/21																		
90 Particulars of Emergency Unit (PS1.99)	14 days Thu 29/4/21	Wed 12/5/21																		
91 Tree Supervisor (PS26.02)	30 days Tue 20/4/21	Wed 19/5/21	¥⊨∥∥																	
92 Public Relocation Officer (PS 1.12F)	28 days Thu 29/4/21	Wed 26/5/21																		
93 Quantity Surevying Clerk (PS1.49)	28 days Thu 29/4/21	Wed 26/5/21																		
94 Field and Drafting assistant (PS1.49C)	28 days Thu 29/4/21	Wed 26/5/21																		
95 Independent Checking Engineer (PS1.105)	30 days Thu 29/4/21	Fri 28/5/21																		
96 Employ CEG and TA (PS1.83)	90 days Thu 29/4/21	Tue 27/7/21																		
97 BIM Team Leader (PS1.108)	90 days Thu 29/4/21	Tue 27/7/21	+																	
98 Completion of Construction Management Team Submission	0 days Fri 28/5/21	Fri 28/5/21																		
99 Safety	42 days Tue 20/4/21	Mon 31/5/21	s s	afety																
100 Draft Construction Health and Safety Plan (ACC D6)	14 days Tue 20/4/21	Mon 3/5/21																		
101 Ad-hoc meeting with Supervisor ro discuss the draft Safety Plan (ACC D6)	7 days Tue 4/5/21	Mon 10/5/21																		
102 Monthly Reports on Safety Performance (ACC D28)	30 days Tue 20/4/21	Wed 19/5/21	╅╻║																	
103 Monthly Safety Report	30 days Tue 20/4/21	Wed 19/5/21	<b>₩</b>																	
Task	Critical Task	Mi	lestone	•	Summa															

#### 07 Oct 2022

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID	Task Name	Duration Start	Finish	Qtr 2, 20	021 Qtr	3, 2021	Qtr 4, 2021	Qtr 1, 20	022 Qtr 2	2, 2022 Qtr	3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024	Qtr 2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026 Qtr 2, 2026
104	Submission of Safety Plan (ACC D6)	35 days Tue 20/4/21	Mon 24/5/21	Apr May	Jun Jul /	Aug Sep (	Oct Nov De	c Jan Feb	Mar Apr N	May Jun Jul	Aug Sep	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep	Oct Nov Dec	Jan Feb Mar Apr May Jun
105	Establish and conduct first SSC and SSMC meeting (PS1.65)	40 days Tue 20/4/21	Sat 29/5/21	┤╈																					
106	Site Traffic Safety Management Plan (PS1.71C)	42 days Tue 20/4/21	Mon 31/5/21	-  ╈																					
107	Completion of Initial Safety Submission	0 days Mon 31/5/21	1 Mon 31/5/21																						
108	Environmental	328 days Tue 20/4/21	Sun 13/3/22	┤╺┽┽╾┽					Envir	onmental															
109	Register of the DDF and Trip Ticket System	14 days Tue 20/4/21	Mon 3/5/21	┤╈┥																					
110	Draft Environmental Management Plan (ACC D20, PS1.97)	21 days Tue 20/4/21	Mon 10/5/21	┤┱																					
111	Daily Cleaning Supervisor (PS1.32)	21 days Tue 20/4/21	Mon 10/5/21	╡┳▁																					
112	Inspection CheckIsit for Daily Cleaning (PS1.32)	21 days Tue 20/4/21	Mon 10/5/21	┤╇╻╢																					
113	Monthly Reports on Environmental Management (PS1.98)	30 days Tue 20/4/21	Wed 19/5/21	┤╋╻																					
114	Rodents Disinfestation Operation	14 days Thu 29/4/21	Wed 12/5/21	┤╽╅╷																					
115	Apply for registration as Chemical Waste Producer (GS25.28)	21 days Thu 29/4/21	Wed 19/5/21																						
116	Trip Ticket System Proposal	21 days Thu 29/4/21	Wed 19/5/21	┤ ┣╋_																					
117	Site Management Plan for implementaton of Trip Ticket System (PS25.25S)	45 days Tue 20/4/21	Thu 3/6/21		8																				
118	Finalized Environmental Mangement Plan	45 days Tue 20/4/21	Thu 3/6/21	▏▓																					
119	Appoint ET and ET Leader	42 days Tue 20/4/21	Mon 31/5/21	╡╋																					
120	Application of Discharge License - First Batch	45 days Thu 29/4/21	Sat 12/6/21																						
121	Application of Discharge License - Second Batch	45 days Sat 28/8/21	Mon 11/10/21																						
122	Application of Discharge License - Third Batch	45 days Fri 28/1/22	Sun 13/3/22																						
123	Completion of Initial Environmental Submission	0 days Thu 3/6/21	Thu 3/6/21																						
124	Ready for Commencement of Site Works	0 days Thu 3/6/21	Thu 3/6/21																						
125	Public Relation	60 days Thu 29/4/21	Sun 27/6/21		Pul	olic Rela	tion																		
126	Provision of PRO (PS1.12F)	30 days Thu 29/4/21	Fri 28/5/21																						
127	Setup 24-hour telephone line cum information centre	60 days Thu 29/4/21	Sun 27/6/21																						
128	Traffic Management	147 days Thu 29/4/21	Wed 22/9/21				гаттіс ма	nagement																	
129	Prenere Detailed Construction Seguence with ecception TTA	7 days Thu 29/4/21	Wed 5/5/21	₋∣ <mark>∎</mark> −†																					
130	and obtain endoresement in principle	24 days 1 nu 1/7/21	Sat 24/7/21																						
137	Setup Title	30 days Sun 25/7/21	Mon 23/8/21	- 11																					
132		30 days 5ull 23/7/21	Wed 22/0/21	- 11	-																				
134	Excavation Permit	395 days Thu 29/4/21	Sat 28/5/22	┤╢╷						Excava	tion Per	mit													
135	Request employer to apply for XP (ACC D18)	7 days Thu 29/4/21	Wed 5/5/21	- 1						•															
136	1st Batch of XP (Ping Ha Road)	100 days Thu 6/5/21	Fri 13/8/21	┤╏┛┿		🛡 1st B	atch of XP	(Ping Ha I	Road)																
137	Prepare particular for XP Application	40 days Thu 6/5/21	Mon 14/6/21	-  -		Ĩ																			
138	Application and approval of Excavation Permit for street maintained by HyD - (ACC D18)	60 days Tue 15/6/21	Fri 13/8/21			h																			
139	2nd Batch of XP (Ha Tsuen Road)	120 days Sun 29/8/21	1 Sun 26/12/21			-		2nd Ba	tch of XP	P (Ha Tsuen	Road)														
140	Prepare particular for XP Application	60 days Sun 29/8/21	Wed 27/10/21	ī																					
141	Application and approval of Excavation Permit for street maintained by HyD -(ACC D18)	60 days Thu 28/10/2	1 Sun 26/12/21				*																		
142	3rd Batch of XP (Fung Kong Tsuen Road)	120 days Sat 29/1/22	Sat 28/5/22							🔫 3rd Ba	ch of XI	P (Fung Kong	g Tsuen Roa	d)											
143	Prepare particular for XP Application	60 days Sat 29/1/22	Tue 29/3/22																						
144	Application and approval of Excavation Permit for street maintained by HyD -(ACC D18)	60 days Wed 30/3/2	2 Sat 28/5/22																						
145	Utilities Works	1458 days Thu 29/4/21	Fri 25/4/25																			Utilities	s Works		
146	Setup or Utilities Liaison Group	90 days Thu 29/4/21	1 Mer 07/0/02	_							oreir - f	Sahama - f =	vietie - 14324	on if and											
147	Diversion Scheme of Existing Utilities, if any	335 days wed 28///2	1 Mon 27/6/22	- 11				+			ersion	Scheme of E	kisting Utiliti	es, if any											
148	Exisiting Service at Read D1 and L51	60 days Sat 29/1/22	Word 24/11/22																						
149	Exisiting Service at Road 153 and 154	60 days Sull 20/9/21	1 Sat 25/0/21	'																					
151	New Utilities Connection	684 days Mon 12/6/2	3 Fri 25/4/25	- 11										_								New Ut	ilities Conne	ection	
152	Watermain	634 days Tue 1/8/23	Fri 25/4/25	-										•	-							Watern	nain		
153	Road D1, L51 and Ha Tsuen Road	60 days Sun 23/6/24	Wed 21/8/24	-											-							•			
154	Road L53 and L54	30 days Tue 1/8/23	Wed 30/8/23	-																					
155	Ping Ha Road	30 days Thu 27/3/25	Fri 25/4/25	-																					
156	Road Lighting System	420 days Wed 30/8/2	3 Tue 22/10/24												-					🔫 Road L	ighting Syste	em			
157	Road D1 and L51	60 days Sat 24/8/24	Tue 22/10/24																						
158	Road L53 and L54	60 days Wed 30/8/23	3 Sat 28/10/23													€									
	Task	Critical Task	N	Vilestone	•		Sur	nmary	•				1				1		I		1	1			1

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

U	lask Name	Duration         Start         Finish         Qtr 2, 2021         Qtr 3, 2021         Qtr 4, 2021         Qtr 1, 2022         Qtr 2, 2022         Q	3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 3, 2023 Qtr 4, 2023 Qtr 4, 2023 Qtr 4, 2024 Qtr 2, 2024 Qtr 3, 2024 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2024 Qtr 4, 2024 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2024 Qtr 4, 202
159	CLP	Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Ju 379 days Mon 12/6/23 Mon 24/6/24	Aug/Sep/Oct/Nov/Dec/Jan/Feb/Mar/Apr/May/Jun/Jul/Aug/Sep/Oct/Nov/Dec/Jan/Feb/Mar/Ap
160	Road D1 and L51	60 days Fri 26/4/24 Mon 24/6/24	
161	Road L53 and L54	60 days Mon 12/6/23 Thu 10/8/23	
162	Telecom (HKT, HGC, HKRN)	379 days Mon 12/6/23 Mon 24/6/24	
162	Road D1 and L51	60 days Fri 26/4/24 Mon 24/6/24	
164	Pood I 53 and I 54	60 days Mon 12/6/23 Thu 10/8/23	
104			
165	Procurement	300 days Wed 28/4/21 Mon 21/2/22	
166	Subcontracting / Procurement	132 days Thu 29/4/21 Tue 7/9/21 Subcontracting / Procurement	
167	Traffic Consultant	63 days Thu 29/4/21 Wed 30/6/21	
168	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
169	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
170	Idenpendent Checking Engineer	63 days Thu 29/4/21 Wed 30/6/21 Idenpendent Checking Engineer	
171	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
172	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
173	PM's Accomodation (MiC Method)	63 days Thu 29/4/21 Wed 30/6/21 PM's Accomodation (MiC Method)	
174	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
175	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
176	Environmental Team and Team Leader	63 days Thu 29/4/21 Wed 30/6/21 Environmental Team and Team Leader	
177	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
178	Submission and Annroval	35 days Thu 27/5/21 Wed 30/6/21	
170		62 days Thu 20/4/24 Wed 20/6/24	
1/9			
180		20 uays Inu 29/4/21 Wed 20/0/21	
181	Submission and Approval	35 days Ihu 2//5/21 Wed 30/6/21	
182	Specialist for Decontamination Works	63 days Thu 29/4/21 Wed 30/6/21 Specialist for Decontamination Works	
183	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
184	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
185	BIM Service	63 days Thu 29/4/21 Wed 30/6/21 BIM Service	
186	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
187	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
188	Rebar Supply	63 days Wed 7/7/21 Tue 7/9/21 Rebar Supply	
189	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
190	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
191	Concrete Supply	63 days Wed 7/7/21 Tue 7/9/21 Concrete Supply	
192	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
193	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
194	Bitumen Supply and Paving	63 days Wed 7/7/21 Tue 7/9/21 Bitumen Supply and Paving	
195	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
196	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
197	Ground Investigation Works	63 days Wed 7/7/21 Tue 7/9/21 Ground Investigation Works	
102	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
100	Submission and Approval	25 days Wed ///21 Tue 7/0/21	
199		53 days Wed 4/0/21 Tue 1/3/21	
200			
201	Subletting	28 days Wed ////21 lue 3/8/21	
202	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
203	Pipe Jacking Works	63 days Thu 29/4/21 Wed 30/6/21 Pipe Jacking Works	
204	Subletting	28 days Thu 29/4/21 Wed 26/5/21	
205	Submission and Approval	35 days Thu 27/5/21 Wed 30/6/21	
206	Road Marking	63 days Wed 7/7/21 Tue 7/9/21	
207	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
208	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
209	Road Lighting System (Design and Install)	63 days Wed 7/7/21 Tue 7/9/21 Road Lighting System (Design and Insta	
210	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
211	Submission and Approval	35 days Wed 4/8/21 Tue 7/9/21	
212	Landscaping Works	63 days Wed 7/7/21 Tue 7/9/21	
212	Subletting	28 days Wed 7/7/21 Tue 3/8/21	
213		20 days wed ///21 Tue 3/0/21	
214		35 days Wed 4/6/21 Tue 1/9/21	
215			
	Subletting	28 days/Wed 7/7/21 Tue 3/8/21	
Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID T	ask Name	ration Start Finish Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2021 Qtr 1, 2022 Qtr 2, 2022 Qtr 3, 2022 Qtr	4, 2022   Qtr 1, 2023   Qtr 2, 2023   Qtr 3, 2023   Qtr 4, 2023   Qtr 4, 2023   Qtr 1, 2024   Qtr 2, 2024   Qtr 3, 2024   Qtr 4, 2024   Qtr 1, 2025   Qtr 2, 2025   Qtr 3, 2025   Qtr 4, 2025   Qtr 4, 2025   Qtr 4, 2025   Qtr 1, 2026   Qtr 2,
217	Submission and Approval	Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct 35 days Wed 4/8/21 Tue 7/9/21	Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
218	Maior Materials Fabrication and Delivery	00 days Wed 28/4/21 Mon 21/2/22	Delivery
219	MiC Modular for PM's Accomodation	00 days Tue 10/8/21 Sun 7/11/21 Mic Modular for PM's Accomodation	
220	Fabrication and Delivery	90 days Tue 10/8/21 Sun 7/11/21	
221	Waterpipe (Supply and Test)	10 days Wed 28/4/21 Mon 21/2/22 🛛 🐙 🛶 👘 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶	
222	Batch 1	50 days Wed 28/4/21 Sat 26/6/21	
223	Batch 2	20 days Sun 27/6/21 Sun 24/10/21	
224	Batch 3	20 days Mon 25/10/21 Mon 21/2/22	
225	Drainage Pipe (Supply and Test)	10 days Wed 28/4/21 Mon 21/2/22 🛛 🖤 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 Drainage Pipe (Supply and Test	
226	Batch 1	30 days Wed 28/4/21 Fri 16/7/21	
227	Batch 2	00 days Sat 17/7/21 Sun 24/10/21	
228	Batch 3	20 days Mon 25/10/21 Mon 21/2/22	
229	Sewerage Pipe (Supply and Test)	00 days Wed 28/4/21 Mon 21/2/22 🛛 💗 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶 🛶	
230	Batch 1	30 days Wed 28/4/21 Fri 16/7/21	
231	Batch 2	00 days Sat 17/7/21 Sun 24/10/21	
232	Batch 3	20 days Mon 25/10/21 Mon 21/2/22	
233	E&M Materials	50 days Wed 28/4/21 Sat 26/6/21 🛛 🗰 🗮 E&M Materials	
234	Fabrication and Delivery	50 days Wed 28/4/21 Sat 26/6/21	
235	Roading Lighting Materials	50 days Wed 28/4/21 Sat 26/6/21	
236	Fabrication and Delivery	50 days Wed 28/4/21 Sat 26/6/21	
237	Design and Method of Works	78 days Tue 20/4/21 Fri 18/11/22	Design and Method of Works
238	Permanent Works Design	19 days Thu 10/6/21 Fri 21/10/22	Permanent Works Design
239	Natural Terrain Hazard Study	14 days Sat 28/8/21 Tue 29/3/22	ly
240	Submission of the Detailed Boulder Survey Report with the Boulder Hazard Mitigation Measures	54 days Sat 28/8/21 Fri 28/1/22	
241	Approval from GEO	50 days Sat 29/1/22 Tue 29/3/22	
242	Sewage Pumping Station	01 days Sat 8/1/22 Wed 27/7/22 Sewage P	mping Station
243	Prepare and Submit Design	20 days Sat 8/1/22 Sat 7/5/22	
244	ICE Certification, Approval and Consent	21 days Sun 8/5/22 Sat 28/5/22	
245	Approval from DSD	60 days Sun 29/5/22 Wed 27/7/22	
246	Transformer Room	11 days Thu 10/6/21 Thu 28/10/21 🛛 📭 🖛 Transformer Room	
247	Prepare and Submit Design	50 days Thu 10/6/21 Sun 8/8/21	
248	ICE Certification, Approval and Consent	21 days Mon 9/8/21 Sun 29/8/21	
249	Approval from CLP	60 days Mon 30/8/21 Thu 28/10/21	
250	Road Lighting System for Road D1 and L51	75 days Sat 29/1/22 Fri 22/7/22 Road Light	ng System for Road D1 and L51
251	Prepare and Submit Design	70 days Sat 29/1/22 Fri 8/4/22	
252	ICE Certification, Approval and Consent	21 days Sat 9/4/22 Fri 29/4/22	
253	Approval from HyD Lighting Division	84 days Sat 30/4/22 Fri 22/7/22	
254	Road Lighting System for Road L53 and L54	75 days Sat 30/4/22 Fri 21/10/22	Road Lighting System for Road L53 and L54
255	Prepare and Submit Design	1/ uays Sat 30/4/22 Fri 8///22	
200	Approval from HvD Lighting Division	21 uays Sat 30/7/22 Fri 21/10/22	
258		39 days Tue 20/4/21 Mon 10/10/22	Temporary Works Design
259	Site Establishment	12 days Tue 20/4/21 Mon 9/8/21	
260	PM's Accomodation	10 days Thu 1/7/21 Mon 9/8/21	
261	Prepare and Submit Design	20 days Thu 1/7/21 Tue 20/7/21	
262	ICE certification, approval and Consent	20 days Wed 21/7/21 Mon 9/8/21	
263	Site facilities (Hoarding, Project Signboard, Temporary	32 days Tue 20/4/21 Fri 21/5/21 🛛 🕶 Site facilities (Hoarding, Project \$ignboard, Temporary Traffic Sign e	c.)
264	Iramic Sign etc.)	20 days Tue 20/4/21 Sun 9/5/21	
265		12 days Mon 10/5/21 Fri 21/5/21	
266	Typical Excavation Shoring System for Trial Pit	30 days Mon 10/5/21 Tue 8/6/21	
267	Prepare and Submit Design	18 days Mon 10/5/21 Thu 27/5/21	
268	ICE Certification. Approval and Consent	12 days Fri 28/5/21 Tue 8/6/21	
269	Decontamination Works	25 days Sat 1/5/21 Wed 29/6/22	on Works
270	Contamination Assessment Plan	32 days Sat 1/5/21 Mon 28/3/22	Plan
271	Batch 1	14 days Sat 1/5/21 Sun 13/6/21	
272	Site Appraisal and Preparation of Plan	14 days Sat 1/5/21 Fri 14/5/21	
	Task		

Master Programme Rev.1

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID Tas	sk Name	Duration Start	Finish	Qtr 2, 2021 Qtr	3, 2021 Qt	tr 4, 2021	Qtr 1, 2022	2 Qtr 2, 20	022 Qtr	3, 2022	Qtr 4, 2022	Qtr 1, 2	023 Qtr 2, 2	2023 Qt	tr 3, 2023	Qtr 4, 20	023 Qtr	, 2024	Qtr 2, 2024	Qtr 3, 20	)24 Qtr	4, 2024	4 Qtr 1, 202	5 Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026	6 Qtr 2, 2026
273	Submission and Endorsement by EPD	30 days Sat 15/5/21	Sun 13/6/21	Apr May Jun Jul	Aug Sep Oc	t Nov Dec J	lan Feb Ma	ar Apr May	Jun Jul	Aug Sep C	oct Nov De	c Jan Feb	Mar Apr Ma	y Jun Ju	I Aug Sep	Oct Nov I	Dec Jan I	eb Mar /	pr May Jur	Jul Aug	Sep Oct	Nov De	ec Jan Feb M	ar Apr May Ju	1 Jul Aug Se	Oct Nov Dec	Jan Feb Ma	ar Apr May Jun
273	Batch 2	55 days Mon 31/1/22	Sat 26/3/22	-				Batch 2	2																			
275	Site Appraisal and Preparation of Plan	25 days Mon 31/1/22	Thu 24/2/22	_				Duton																				
276	Submission and Endorsement by EPD	30 days Fri 25/2/22	Sat 26/3/22	-																								
277	Batch 3	55 days Wed 2/2/22	Mon 28/3/22	-				Batch 3	3																			
278	Site Appraisal and Preparation of Plan	25 days Wed 2/2/22	Sat 26/2/22	-																								
279	Submission and Endorsement by EPD	30 days Sun 27/2/22	Mon 28/3/22	-																								
280	Cement Solidification System	48 days Fri 13/5/22	Wed 29/6/22	-					Ce	ment Soli	dification	System																
281	Prepare and Submit Design	24 days Fri 13/5/22	Sun 5/6/22	-								-																
282	ICE Certification, Approval and Consent	24 days Mon 6/6/22	Wed 29/6/22	-																								
283	Biopile System	48 days Fri 13/5/22	Wed 29/6/22	-					Bi	pile Syst	em																	
284	Prepare and Submit Design	24 days Fri 13/5/22	Sun 5/6/22	-																								
285	ICE Certification, Approval and Consent	24 days Mon 6/6/22	Wed 29/6/22	-																								
286	Demolition Works	84 days Sun 29/8/21	Sat 20/11/21	-		💶 🖉 Dem	olition Wo	orks 🦷	+																			
287	Demolition of RC Structures less than 2-storey	48 days Sun 29/8/21	Fri 15/10/21	-		Demolitio	n of RC S	tructures	less thar	2-storey																		
288	Prepare and Submit Design	24 days Sun 29/8/21	Tue 21/9/21																									
289	ICE Certification, Approval and Consent	24 days Wed 22/9/21	Fri 15/10/21																									
290	Demolition of Steel Frame Structures	60 days Wed 22/9/21	Sat 20/11/21			💶 🛡 Dem	olition of	Steel Fran	ne Struc	ures																		
291	Prepare and Submit Design	36 days Wed 22/9/21	Wed 27/10/21	ī III.																								
292	ICE Certification, Approval and Consent	24 days Thu 28/10/2	Sat 20/11/21																									
293	Drainage, Sewerage and Water Works	60 days Sun 29/8/21	Wed 27/10/21	I IIII		🛡 Drainag	e <mark>, S</mark> ewera	ge and Wa	ater Wor	ks																		
294	ELS Design (By Shoring Method)	36 days Sun 29/8/21	Sun 3/10/21			ELS Desigr	n (By Shor	ring Metho	od)																			
295	Prepare and Submit Design	12 days Sun 29/8/21	Thu 9/9/21																									
296	ICE Certification, Approval and Consent	24 days Fri 10/9/21	Sun 3/10/21			$h \mid \parallel$																						
297	Temporary Utility Support	36 days Fri 10/9/21	Fri 15/10/21			Temporar	y Utility S	upport																				
298	Prepare and Submit Design	12 days Fri 10/9/21	Tue 21/9/21		l i																							
299	ICE Certification, Approval and Consent	24 days Wed 22/9/21	Fri 15/10/21																									
300	Formwork Design for Manhole Construction	36 days Wed 22/9/21	Wed 27/10/21			Formwo	ork Design	for Marh	ole Cons	truction																		
301	Prepare and Submit Design	12 days Wed 22/9/21	Sun 3/10/21																									
302	ICE Certification, Approval and Consent	24 days Mon 4/10/21	Wed 27/10/21																									
303	Geotechnical Works	48 days Wed 30/3/22	Mon 16/5/22						Geotech	hical Wor	ks																	
304	Working Platform	36 days Wed 30/3/22	Wed 4/5/22						/orking F	latform																		
305	Prepare and Submit Design	12 days Wed 30/3/22	Sun 10/4/22																									
306	CE Certification, Approval and Consent	24 days Mon 11/4/22	Vved 4/5/22	_					Farmura	k Deeien																		
209	Propers and Submit Design	12 days Mon 11/4/22	Eri 22/4/22	_					FOIIIWO	k Design	IOI KC Su	ucluies																
300	ICE Certification Approval and Consent	24 days Sat 23/4/22	Mon 16/5/22	_																								
310		60 days Sat 14/8/21	Tue 12/10/21	-		Pipe Jack	ina																					
311	FLS Design (By Shoring Method)	60 days Sat 14/8/21	Tue 12/10/21	-		ELS Desid	un (By Sho	oring Meth	(bor																			
312	Prepare and Submit Design	30 days Sat 14/8/21	Sun 12/9/21	-			, , , , , , , , , , , , , , , , , , , ,	<b>g</b>	,																			
313	ICE Certification. Approval and Consent	30 days Mon 13/9/21	Tue 12/10/21	-																								
314	Retaining Wall	214 days Sat 28/8/21	Tue 29/3/22	-				🛡 Retain	ing Wall																			
315	- Formwork Design for Lagging Wall Construction (Soldier	36 days Sat 29/1/22	Sat 5/3/22	-				Formwork	k Design	for Laggir	ng Wall Co	onstructi	on (Soldier I	Pile Wall	)													
	Pile Wall)										Ĩ I																	
316	Prepare and Submit Design	12 days Sat 29/1/22	Wed 9/2/22				Ĩ <u>₩</u>																					
317	ICE Certification, Approval and Consent	24 days Thu 10/2/22	Sat 5/3/22																									
318	Formwork Design for Lagging Wall Construction (Bored Pile Wall)	36 days Thu 10/2/22	Thu 17/3/22					Formwo	ork Desig	n for Lagg	jing Wall (	Construc	tion (Bored	Pile Wal	I)													
319	Prepare and Submit Design	12 days Thu 10/2/22	Mon 21/2/22	-			I 👗 I																					
320	ICE Certification, Approval and Consent	24 days Tue 22/2/22	Thu 17/3/22																									
321	Formwork Design for RC Capping Beam Construction	36 days Tue 22/2/22	Tue 29/3/22					🗣 Formw	vork Des	gn for RC	Capping	Beam Co	onstruction															
322	Prepare and Submit Design	12 days Tue 22/2/22	Sat 5/3/22																									
323	ICE Certification, Approval and Consent	24 days Sun 6/3/22	Tue 29/3/22																									
324	Formwork Design for RC Retaining Wall Construction	36 days Sat 28/8/21	Sat 2/10/21		-	armwork I	Design for	r RC Retai	ning Wa	I Constru	ction																	
325	Prepare and Submit Design	12 days Sat 28/8/21	Wed 8/9/21	-																								
326	ICE Certification, Approval and Consent	24 days Thu 9/9/21	Sat 2/10/21	-																								
327	Detention Pond	36 days Sat 29/1/22	Sat 5/3/22					Detention	Pond																			
							Ţ Ţ																					

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

	ID Ta	ask Name	Duration Start	Finish	Qtr 2, 2021 C Apr May Jun Ju	Qtr 3, 2021 Qtr ul Aug Sep Oct	4, 2021 ( Nov Dec J	Qtr 1, 2022 G an Feb Mar A	Qtr 2, 2022 Q pr May Jun Ju	tr 3, 2022 Qtr 4	4, 2022 Qtr 1, 2 Nov Dec Jan Fet	023 Qtr 2, 2023 Mar Apr May Jun	Qtr 3, 2023	Qtr 4, 2023 Oct Nov Dec	Qtr 1, 2024 Q Jan Feb Mar Ar	tr 2, 2024 Q or May Jun Ju	r 3, 2024 ( Aug Sep (	Qtr 4, 2024 Oct Nov Dec	Qtr 1, 2025 Jan Feb Mar	Qtr 2, 2025 Apr May Jun	Qtr 3, 2025 Jul Aug Sep	Qtr 4, 2025 0 Oct Nov Dec J	Qtr 1, 2026 an Feb Mar	Qtr 2, 2026 Apr May Jun
i       Numericanization       Numericanization       Numericanization         i       Numericanization       Numericanization       Numericanization       Numericanization         i<	328	Formwork Design for RC Structure Construction	36 days Sat 29/1/22	Sat 5/3/22	, principality out of			For	mwork Desig	in for RC Struct	ture Construction	on		0001101200	ourr op marry	. may our of	, lug e ep e		ourir opiniai	, pr may can	our pragloop	000110120000		, principouri
Note: Section 1.1 Section 1	329	Prepare and Submit Design	12 days Sat 29/1/22	Wed 9/2/22																				
Image: Control in the second in the secon	330	ICE Certification, Approval and Consent	24 days Thu 10/2/22	Sat 5/3/22																				
11 Tar Sub Control State St	331	RC Box Culvert	150 days Sat 29/1/22	Mon 27/6/22					╺╾╍┥╺╍╼╤╵╹	RC Box Culvert														
Nuclear is a start of the st	332	Temp Works for Drainage Diversion	150 days Sat 29/1/22	Mon 27/6/22					━━━━━━━━━━━	Temp Works for	r Drainage Dive	rsion												
1 Classes, encourse development of the second of the se	333	Prepare and Submit Design	30 days Sat 29/1/22	Sun 27/2/22																				
Note: Section 1. Se	334	ICE Certification, Approval and Consent (By DSD)	120 days Mon 28/2/22	Mon 27/6/22																				
Terrer before from the first or the	335	Temp Excavation for Box Culvert Construction (Open	50 days Mon 28/2/22	Mon 18/4/22					Temp Exc	avation for Box	Culvert Constr	uction (Open Cu	t with Concre	ete Block Wa	ID									
Note: Section service states and section s		Cut with Concrete Block Wall)							•						,									
The second seco	336	Prepare and Submit Design	25 days Mon 28/2/22	Thu 24/3/22																				
Matrix	337	ICE Certification, Approval and Consent	25 days Fri 25/3/22	Mon 18/4/22																				
i Average and average ave	338	Formwork and Falsework Design for RC Structures	50 days Fri 25/3/22	Fri 13/5/22					Formw	ork and Falsew	vork Design for	RC Structures												
All and a construction of a	339	Prepare and Submit Design	25 days Fri 25/3/22	Mon 18/4/22																				
The second seco	340	ICE Certification Approval and Consent	25 days Tue 19/4/22	Fri 13/5/22																				
To react or former definition of the line of the li	341	Transformer Room	50 days Fri 29/10/21	Fri 17/12/21				ransformer R	2000															
<b>v v v v v v v v v v</b>	342	Formwork and Falcowork Docign for PC Structures	50 days Fri 29/10/21	Eri 17/12/21	_				i Ealcowork [	Design for PC S	Structures													
The first control of the fi	242		25 days Fri 20/10/21	Map 22/11/21						besign for ite o	Juciales													
The second seco	343		25 days FII 29/10/21																					
• • • • • • • • • • • • • • • • • • •	344	ICE Certification, Approval and Consent	25 days Tue 23/11/21	Fri 17/12/21																				
<ul> <li>a) Listing in yield words</li> <li>b) Bio private</li> <li>c) Listing in yield words</li> <li>c) Listing in yiel</li></ul>	345	Sewage Pumping Station	75 days Thu 28/7/22	Mon 10/10/22	²					S	ewage Pumpin	y station												
14 res to start during the set of the set	346	ELS Design (By Shoring Method)	50 days Thu 28/7/22	Thu 15/9/22							Design (By Sho	ring Method)												
1 I. D. en mont appear to service the s	347	Prepare and Submit Design	25 days Thu 28/7/22	Sun 21/8/22																				
10       Ferrovick and Factor Rev Biologic Rev Biologi Rev Biologi Rev Biologic Rev Biologic Rev Biologic Re	348	ICE Certification, Approval and Consent	25 days Mon 22/8/22	Thu 15/9/22																				
10       Norwer will handrage       30 arg/n 2002       10 k 100000         10       Text for the order of	349	Formwork and Falsework Design for RC Structures	50 days Mon 22/8/22	Mon 10/10/22	2					F	ormwork and F	alsework Design	for RC Struc	tures										
10       Cb Carbonics Approved Carbonics       Cb Sape Table 10       Cb Sape Table 10 <t< th=""><th>350</th><th>Prepare and Submit Design</th><th>25 days Mon 22/8/22</th><th>Thu 15/9/22</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	350	Prepare and Submit Design	25 days Mon 22/8/22	Thu 15/9/22																				
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20       Site Edistation       00 Up 11 20 2041       No Up 120 2045         31       Up 120 2045       Up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         32       Prace of Adminished Statument Park Assessor       2 up 120 2045       No Up 120 2045         34       Other Statument Park Assessor       2 up 120 2045       No Up 120 2045         34       Other Statument Park Assessor       2 up 120 2045       No Up 120 2045       No Up 120 2045         34       Other Statument Park Assessor       2 up 120 2045       No Up 120 2045       No Up 120 2045         34       Other Statument Park Assessor       2 up 120 2045       No Up 120 2045       No Up 120 2045         34       Other Statument Park Assessor       2 up 120 2045       No Up 120 2045       No Up 120 2045         34	352	Method Statement and Risk Assessment	578 days Tue 20/4/21	Fri 18/11/22	-			┝┽╾╾┾┾╋			🛡 Method Sta	tement and Risk	Assessment											
Dial       General Sine Canada       Use para and fuent Mathematificant and Mathematificant Mathamathmatificant Mathamathmatificant Mathamati	353	Site Establishment	150 days Tue 20/4/21	Thu 16/9/21		Site	e Establish	ment																
Pint set of submittened sub	354	General Site Clearance	9 days Tue 20/4/21	Wed 28/4/21	General	Site Clearance																		
Note       Approximation       Transport       Transport       Note       State         00       Metrodic Scotticution       Narphite Scotticution <th>355</th> <th>Prepare and Submit Method Statement/Risk Assessmen</th> <th>2 days Tue 20/4/21</th> <th>Wed 21/4/21</th> <th>T T</th> <th></th>	355	Prepare and Submit Method Statement/Risk Assessmen	2 days Tue 20/4/21	Wed 21/4/21	T T																			
Number of Some Profile Account of Barbon Markon Statemer Profile Account of Barbon Accoun	356	Approval and Consent	7 days Thu 22/4/21	Wed 28/4/21	- 1 - 1																			
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100       Construction PPP a PPP	359	Approval and Consent	14 days Tue 15/6/21	Mon 28/6/21	-																			
101       Proper and Skonit Method Skatement (Site A second       24 days Two 1000 (The 2001)         103       Ustimes obtained Skatement (Site A second)       21 days Wei State The 1000 (The 2001)         103       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         104       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         103       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         104       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         105       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         105       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         104       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 1000 (The 2001)         105       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         107       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         107       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)         107       Proper and Skonit Method Skatement (Site A second)       12 days Wei State The 1000 (The 2001)	360	Construction of PM's Accomodation (MiC)	38 days Tue 10/8/21	Thu 16/9/21		Cor	struction	of PM's Acco	modation (M	liC)														
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image:	362	Approval and Consent	14 days Fri 3/9/21	Thu 16/9/21																				
	363	Utilities Detection and Trial Pit Excavation	21 days Wed 9/6/21	Tue 29/6/21		Utilities Detec	tion and Ti	ial Pit Excav	ation															
A provid ad Consent   1 1 4 gay Weit 1982 100 gay Bit 2025 100 a 2040   26 Project Signboard Consent 4 day Weit 1982 100 a 2040   26 Approvid ad Consent 14 day Weit 1982 Non 2040   26 Approvid ad Consent 14 days Weit 1982 Non 2040   26 Approvid ad Consent 14 days Weit 1982 Non 2040   27 Project Signboard Consent 14 days Weit 1982 Non 2040   28 Approvid ad Consent 14 days Weit 1982 Non 2040   27 Project Signboard Consent 14 days Weit 1982 Non 2040   28 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Approvid ad Consent 14 days Weit 1982 Non 2040   29 Demolitor Of Startures Ista Astant Mehod Statemer/Nike Assessmend 14 days Weit 1982   20 Demolitor of Startures Ista Astant Mehod Statemer/Nike Assessmend 14 days Stat 1980 <th>364</th> <th>Prepare and Submit Method Statement/Risk Assessmen</th> <th>7 days Wed 9/6/21</th> <th>Tue 15/6/21</th> <th></th>	364	Prepare and Submit Method Statement/Risk Assessmen	7 days Wed 9/6/21	Tue 15/6/21																				
9       Project Signatura Construction       98 days Sat 22822       Not 2467         47       Project Signatura Construction       94 days Sat 22622       Not 2467         47       Project and Summ Method Statement/Risk Assessment       44 days Sat 22622       Not 2467         47       Project and Summ Method Statement/Risk Assessment       44 days Sat 22622       Not 2462         47       Project and Summ Method Statement/Risk Assessment       44 days Ta 14502       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4422       Not 3462         47       Project and Summ Method Statement/Risk Assessment       14 days Ta 4420       Not 3462         47 </th <th>365</th> <th>Approval and Consent</th> <th>14 days Wed 16/6/21</th> <th>Tue 29/6/21</th> <th>-     </th> <th></th>	365	Approval and Consent	14 days Wed 16/6/21	Tue 29/6/21	-																			
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or       or <th< th=""><th>360</th><th></th><th>11 down Tue 15/6/04</th><th>Mon 20/6/24</th><th>-     ━━⊇</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	360		11 down Tue 15/6/04	Mon 20/6/24	-     ━━⊇																			
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0.10       1000 Fengua and Crossent       42 days (up 2042)       Not 11724         71       Prepare and Submit Method Statement/Risk Assessment       14 days Tue 4/521       Not 11754         72       Approval and Consent       14 days Tue 4/521       Not 11754         73       Tree Transplanting       22 days Tue 4/521       Not 11754         73       Tree Transplanting       22 days Tue 4/521       Not 11754         73       Prepare and Submit Method Statement/Risk Assessment       14 days Tue 4/521       Not 31/521         73       Approval and Consent       14 days Tue 4/521       Not 31/521         73       Approval and Consent       14 days Tue 4/521       Not 31/521         73       Approval and Consent       14 days Tue 4/521       Not 31/521         73       Approval and Consent       14 days Tue 4/521       Not 31/521         74       Prepare and Submit Method Statement/Risk Assessment       24 days Sin 28/21       Tue 51/921         75       Approval and Consent       14 days Tue 21/21       Not 21/921         76       Denolition of RC Structures less than 2-storey       28 days Sin 16/1021       Tue 21/921         78       Approval and Consent       14 days Sin 201021       Fri 21/121         78       Approval and Consent	309		42 days Tue 20/4/21	Mor: 17/5/21			toot or																	
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372       Approval and Consent       14 days tue 4/5/21       Mon 17/5/21         373       Tree Transplanting       28 days Tue 4/5/21       Mon 17/5/21         374       Prepare and Submit Method Statement/Risk Assessment       14 days Tue 4/5/21       Mon 17/5/21         375       Approval and Consent       14 days Tue 1/5/21       Mon 17/5/21         376       Ground Investigation (Environmental Borehole, Trial PIt and 36 days Sun 29/8/21       Tue 5/10/21         377       Prepare and Submit Method Statement/Risk Assessment       24 days Sun 29/8/21       Tue 21/9/21         377       Prepare and Submit Method Statement/Risk Assessment       24 days Sun 16/10/21       Tue 21/9/21         378       Approval and Consent       14 days Sut 61/10/21       Tue 21/9/21         379       Demolition Works       74 days Sat 16/10/21       Fri 29/10/21         378       Approval and Consent       14 days Sat 16/10/21       Fri 29/10/21         379       Demolition of R Structures less tan 2-storey       28 days Sat 16/10/21       Fri 29/10/21         381       Prepare and Submit Method Statement/Risk Assessment       14 days Sat 30/10/21       Fri 29/10/21         382       Approval and Consent       14 days Sat 16/10/21       Fri 29/10/21         382       Approval and Consent       14 days Sat 20/10/	3/1	Prepare and Submit Method Statement/Risk Assessmen	14 days Tue 20/4/21	Mon 3/5/21																				
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374       Prepare and Submit Method Statement/Risk Assessment       14 days Tue 4/521       Mon 17/521         375       Approval and Consent       14 days Tue 18/521       Mon 31/521         376       Ground Investigation (Environmental Borehole, Trial Pit and Statement/Risk Assessment       38 days Sun 29/8/21       Tue 5/10/21         377       Prepare and Submit Method Statement/Risk Assessment       24 days Sun 29/8/21       Tue 5/10/21         378       Approval and Consent       14 days Wed 22/9/21       Tue 5/10/21         379       Demolition of RC Structures less than 2-storey       28 days Sat 16/10/21       Tue 28/10/21         381       Prepare and Submit Method Statement/Risk Assessment       14 days Sat 30/10/21       Fri 29/10/21         382       Approval and Consent       14 days Sat 30/10/21       Fri 29/10/21         383       Demolition of Steel Frame Structures       38 days Sun 21/11/21       Tue 28/12/21         383       Demolition of Steel Frame Structures       38 days Sun 21/11/21       Miesone Structures         384       Critical Task       Miesone Structures       Summary	373	Tree Transplanting	28 days Tue 4/5/21	Mon 31/5/21	Tree Tree	e Transplanting																		
375       Approval and Consent       14 days Tue 18/521       Mon 31/521         376       Ground Investigation (Environmental Borehole, Trial Pit and GB Borehole)       So cound Investigation (Environmental Eorehole, Trial Pit and GB Borehole)       Figure and Submit Method Statement/Risk Assessment       24 days Sun 29/8/2       Tue 51/9/21         377       Prepare and Submit Method Statement/Risk Assessment       24 days Sun 29/8/2       Tue 51/9/21       Tue 51/9/21         378       Approval and Consent       14 days Wed 22/9/21       Tue 51/9/21       Tue 51/9/21         379       Demolition Vorks       74 days Sat 161/0/21       Fit 12/1/21       Penpolition Works       Penpolition Vorks       Penpolition Vorks         380       Demolition of Stuel Frame Structures       38 days Sun 21/1/1/21       Fit 12/1/1/21       Penpolition of Steel Frame Structures       Fit 12/1/21         383       Demolition of Steel Frame Structures       38 days Sun 21/1/1/21       Fit 12/1/21       Fit 12/1/21         384       Critical Task       Miestone       Summary       Summary       Summary	374	Prepare and Submit Method Statement/Risk Assessmen	14 days Tue 4/5/21	Mon 17/5/21																				
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382       Approval and Consent       14 days Sat 30/10/21       Fri 12/11/21         383       Demolition of Steel Frame Structures       38 days       Sun 21/11/21       Tue 28/12/21         Task       Critical Task       Milestone       Summary	381	Prepare and Submit Method Statement/Risk Assessmen	14 days Sat 16/10/21	Fri 29/10/21																				
383     Demolition of Steel Frame Structures     38 days Sun 21/11/21     Tue 28/12/21     Demolition of Steel Frame Structures     Image: Critical Task in the structures     Demolition of Steel Frame Structures	382	Approval and Consent	14 days Sat 30/10/21	Fri 12/11/21																				
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		Task	Critical Task		Milestone 🔶		Summ	ary		,														

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

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ID Task	Name	Duration Start	Finish	Qtr 2, 202	1 Qtr 3, 2021	DOct Nov F	21 Qtr 1 Dec Jan F	I, 2022 ⁼eb Mar	Qtr 2, 20 Apr May	022 Qt Jun Jul	r 3, 2022 Aug Sep (	Qtr 4, 202 Oct Nov E	22 Qtr 1 Dec Jan F	, 2023 Qtr 2, eb Mar Apr Ma	2023 Qtr 3	3, 2023 ( Aug Sep C	2tr 4, 2023 1ct Nov De	3 Qtr 1, 202	4 Qtr 2, 2024 ar Apr May Ju	Qtr 3, 2	024 Qtr Sen Oct	4, 2024 Nov Dec	Qtr 1, 2025 Jan Feb Mar	Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026 Jan Feb Mar	Qtr 2, 2026
384	Prepare and Submit Method Statement/Risk Assessment	24 days Sun 21/11/21	1 Tue 14/12/2	1							g p				,													
385	Approval and Consent	14 days Wed 15/12/2	1 Tue 28/12/2	1				- 11																				
386	Drainage, Sewerage and Waterworks	56 days Sat 16/10/21	Fri 10/12/21				🛡 Draina	age, Se	werage a	and Wat	erworks																	
387	Waterworks and Associated Reinstatement Works	28 days Sat 16/10/21	Fri 12/11/21			<b>W4</b> M	/aterworl	ks and	Associat	ted Reir	tatemen	t Works																
388	Prepare and Submit Method Statement/Risk Assessment	14 days Sat 16/10/21	Fri 29/10/21																									
389	Approval and Consent	14 days Sat 30/10/21	Fri 12/11/21	_																								
390	Drainage and Associated Roadworks	28 days Sat 30/10/21	Fri 26/11/21	_			Drainad	e and	Associate	ed Road	works																	
391	Prenare and Submit Method Statement/Risk Assessment	14 days Sat 30/10/21	Fri 12/11/21	_																								
302		14 days Sat 00/10/21	Eri 26/11/21	_																								
202	Approval and Accessisted Deinstatement Works	14 days Sat 13/11/21	En: 40/42/24	_			Sava			inted De	notatoma	nt Works																
204	Dreners and Submit Method Statement/Disk Assessment	20 uays Sat 13/11/21	FII 10/12/21	_			- Sewei	aye ai	u A33001		instateme																	
394	Prepare and Submit Method Statement/Risk Assessment	14 days Sat 13/11/21	Fri 20/11/21	_																								
395		14 days Sat 21/11/21	FII 10/12/21	_																								
396		216 days Sun 3/10/21	Fri 6/5/22							onstruc	tion of Re	etaining v	vali															
397	Soldier Pile Wall	38 days Wed 30/3/22	Fri 6/5/22						Si Si	oldier F	ile Wall																	
398	Prepare and Submit Method Statement/Risk Assessment	24 days Wed 30/3/22	Fri 22/4/22																									
399	Approval and Consent	14 days Sat 23/4/22	Fri 6/5/22						▲+																			
400	Bored Pile Wall	38 days Wed 30/3/22	Fri 6/5/22						P B	ored Pi	e Wall																	
401	Prepare and Submit Method Statement/Risk Assessment	24 days Wed 30/3/22	Fri 22/4/22																									
402	Approval and Consent	14 days Sat 23/4/22	Fri 6/5/22						∥≚╂	+																		
403	RC Retaining Wall	38 days Sun 3/10/21	Tue 9/11/21			<b>P</b>	C Retairi	ing Wa	11																			
404	Prepare and Submit Method Statement/Risk Assessment	24 days Sun 3/10/21	Tue 26/10/2	1		<b>K</b>												1										
405	Approval and Consent	14 days Wed 27/10/2	1 Tue 9/11/21			│  ॉ—																						
406	Geotechnical Works	38 days Tue 17/5/22	Thu 23/6/22						-•	💻 Ge	otechnica	al Works																
407	Prepare and Submit Method Statement/Risk Assessment	24 days Tue 17/5/22	Thu 9/6/22																									
408	Approval and Consent	14 days Fri 10/6/22	Thu 23/6/22	_																								
409	Typical Roadworks Construction (Ducts, Pavement, Steet	38 days Sun 29/8/21	Tue 5/10/21	_	-	Typica	l Roadwo	orks C	onstructio	on (Duc	ts, Pavem	nent, Stee	t furiture	, Road Markir	ng etc.)													
	furiture, Road Marking etc.)																											
410	Prepare and Submit Method Statement/Risk Assessment	24 days Sun 29/8/21	Tue 21/9/21			ь II																						
411	Approval and Consent	14 days Wed 22/9/21	Tue 5/10/21			<b>i</b>																						
412	Site Formation Works (Earthwork and Surface Drainage)	38 days Sun 29/8/21	Tue 5/10/21		-	🛡 Site Fo	ormation	Works	(Earthwo	ork and	Surface D	Drainage)																
413	Prepare and Submit Method Statement/Risk Assessment	24 days Sun 29/8/21	Tue 21/9/21			<u>H</u>																						
414	Approval and Consent	14 days Wed 22/9/21	Tue 5/10/21			<b>ĕ</b> ⊹						-lh-																
415	Decontamination Works	28 days Mon 6/6/22	Sun 3/7/22						•	▝	ocontami	ination W	orks															
416	Cement Solidification Works	28 days Mon 6/6/22	Sun 3/7/22						•	•-• •	ement So	olidificatio	n Work															
417	Prepare and Submit Method Statement/Risk Assessment	14 days Mon 6/6/22	Sun 19/6/22						•																			
418	Approval and Consent	14 days Mon 20/6/22	Sun 3/7/22																									
419	Biopile Works	28 days Mon 6/6/22	Sun 3/7/22							<b>y my</b> E	B <mark>iopile</mark> Wo	orks																
420	Prepare and Submit Method Statement/Risk Assessment	14 days Mon 6/6/22	Sun 19/6/22						•																			
421	Approval and Consent	14 days Mon 20/6/22	Sun 3/7/22																									
422	Construction of Sewage Pumping Station	38 days Tue 11/10/22	2 Thu 17/11/2	2								<b></b>	onstruc	tion of Sewag	e Pumping	Station												
423	Prepare and Submit Method Statement/Risk Assessment	24 days Tue 11/10/22	2 Thu 3/11/22																									
424	Approval and Consent	14 days Fri 4/11/22	Thu 17/11/2	2																								
425	Construction of Transformer Room	38 days Sat 18/12/21	Mon 24/1/22	2				Const	uction of	f Transf	ormer Roo	om																
426	Prepare and Submit Method Statement/Risk Assessment	24 days Sat 18/12/21	Mon 10/1/22																									
427	Approval and Consent	14 days Tue 11/1/22	Mon 24/1/22																									
428	Construction of Detention Pond	28 days Sun 6/3/22	Sat 2/4/22	_						ruction	of Detenti	ion Pond																
429	Prenare and Submit Method Statement/Risk Assessment	14 days Sun 6/3/22	Sat 19/3/22	_																								
430		14 days Sun 20/3/22	Sat 2/4/22	_																								
430	Approval and consent	14 days Sull 20/3/22	Thu: 4/9/22	_							Box C		notru oti /															
431		100 days Sat 29/1/22	1110 4/δ/22				1							rko														
432		150 days Sat 29/1/22	won 27/6/22	<u>د</u>						- <b></b>	np prain	age Dive	SION WO	INS														
433	Prepare and Submit Method Statement/Risk Assessment	30 days Sat 29/1/22	Sun 27/2/22																									
434	Approval and Consent (By DSD)	120 days Mon 28/2/22	Mon 27/6/22																									
435	Construction of RC Box Culvert	38 days Tue 28/6/22	Thu 4/8/22							1	🗣 Constr	ruction o	RC Box	Culvert														
436	Prepare and Submit Method Statement/Risk Assessment	24 days Tue 28/6/22	Thu 21/7/22																									
437	Approval and Consent	14 days Fri 22/7/22	Thu 4/8/22							i		╶┼╢┼╴╢																
438	Pipe Jacking	38 days Wed 13/10/2	1 Fri 19/11/21				Pipe Jacl	king																				
439	Prepare and Submit Method Statement/Risk Assessment	24 days Wed 13/10/2	1 Fri 5/11/21																									
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#### Contract No. YL/2020/03 Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works

ID	Task Name	Duration Start Finish	Qtr 2, 2021 Qtr 3,	, 2021 Qtr 4, 2021	Qtr 1, 20	22 Qtr 2, 202	22 Qtr 3, 2022	2 Qtr 4, 20	022 Qtr 1,	, 2023	Qtr 2, 2023	Qtr 3, 202	3 Qtr 4, 2	023 Qtr 1,	2024 Qtr	2, 2024 May	Qtr 3, 202	4 Qtr 4, 2	024 Qtr 1, 20	025 Qtr 2, 2025	Qtr 3, 2025 Qtr 4, 2025	Qtr 1, 2026 Qtr 2, 2026
440	Approval and Consent	14 days Sat 6/11/21 Fri 19/11/21	Apr May Jun Jul A			viar Apr iviay J	un Jui Aug Se		Dec Jan Fe		AprinayJun	Jui Augis		Dec Jan Fe	ed war Apr	iviay Jul	I Jul Aug 5		Dec Jan Feb	viar Apr iviay Jun	Jui Augisep Oct Nov Dec.	
441	Road Lighting	28 days Sat 22/10/22 Fri 18/11/22							Road Lig	nting												
442	Prepare and Submit Method Statement/Risk Assessment	14 days Sat 22/10/22 Fri 4/11/22																				
443	Approval and Consent	14 days Sat 5/11/22 Fri 18/11/22						<b>≚</b> _														
444	Soft Landscape	38 days Wed 8/9/21 Fri 15/10/21		Soft La	indscape																	
445	Tree Planting and Soiling	38 days Wed 8/9/21 Fri 15/10/21		Tree Pl	anting and	Soiling																
446	Prepare and Submit Method Statement/Risk Assessment	24 days Wed 8/9/21 Fri 1/10/21																				
447	Approval and Consent	14 days Sat 2/10/21 Fri 15/10/21																				
448	Temporary Traffic Management Scheme	329 days Thu 23/9/21 Wed 17/8/22					Te	mporary T	'raffic Mar	lageme	nt Scheme											
449	TTA around Ping Ha Road	81 days Thu 23/9/21 Sun 12/12/21			TTA arour	nd Ping Ha R	oad															
450	Preparation of TTMS	49 days Thu 23/9/21 Wed 10/11/21	1																			
451	Present and Approved at TMLG	1 day Thu 11/11/21 Thu 11/11/21		Γ   <b>Γ</b>																		
452	Endorsement of TTMS	21 days Fri 12/11/21 Thu 2/12/21																				
453	RWA Application and 2 Days Notification	10 days Fri 3/12/21 Sun 12/12/21																				
454	TTA around Ha Tsuen Road	81 days Mon 27/12/21 Thu 17/3/22			<u><u></u></u>	🛡 TTA arour	nd Ha Tsuen F	Road														
455	Preparation of TTMS	49 days Mon 27/12/21 Sun 13/2/22			<b>ře</b>																	
456	Present and Approved at TMLG	1 day Mon 14/2/22 Mon 14/2/22																				
457	Endorsement of TTMS	21 days Tue 15/2/22 Mon 7/3/22				Ь																
458	RWA Application and 2 Days Notification	10 days Tue 8/3/22 Thu 17/3/22			i																	
459	TTA around Fung Kong Tsuen Road	81 days Sun 29/5/22 Wed 17/8/22				-		A around	Fung Kon	g Tsue	n Road											
460	Preparation of TTMS	49 days Sun 29/5/22 Sat 16/7/22																				
461	Present and Approved at TMLG	1 day Sun 17/7/22 Sun 17/7/22					<b>N</b>															
462	Endorsement of TTMS	21 days Mon 18/7/22 Sun 7/8/22																				
463	RWA Application and 2 Days Notification	10 days Mon 8/8/22 Wed 17/8/22							-													
464	Construction	1826 days Thu 29/4/21 Tue 28/4/26	•																			Constr
465	Preliminary	238 days Thu 29/4/21 Wed 22/12/21	1		🖡 Prelimin	ary																
466	Environment Baseline Monitoring	44 days Wed 2/6/21 Thu 15/7/21	Er	nvironment Baseli	ine Monitor	ring																
467	Submission of Baseline Monitoring Plan	14 days Wed 2/6/21 Tue 15/6/21																				
468	Conduct Baseline Monitoring	30 days Wed 16/6/21 Thu 15/7/21																				
469	Completion of Baseline Monitoring	0 days Thu 15/7/21 Thu 15/7/21	•																			
470	Site Depot	238 days Thu 29/4/21 Wed 22/12/21	1		Site Dep	ot																
471	Site Clearance	2 days Thu 29/4/21 Fri 30/4/21	Γ, Γ																			
472	Establishment	21 days Sat 1/5/21 Fri 21/5/21	Establish	ment																		
473	Condition Survey	7 days Sat 1/5/21 Fri 7/5/21																				
474	Tree Survey	7 days Sat 1/5/21 Fri 7/5/21																				
475	Initial Survey	14 days Sat 1/5/21 Fri 14/5/21																				
476	Health & Hygiene Facilities	7 days Sat 1/5/21 Fri 7/5/21																				
477	Underground Utilities Detection	7 days Sat 8/5/21 Fri 14/5/21																				
478	Setting up Temporary Office	7 days Sat 15/5/21 Fri 21/5/21																				
479	Hoarding/Project Signboard	8 days Tue 29/6/21 Tue 6/7/21		arding/Project Sig	nboard																	
480	Construction of Concrete Strip	2 days Tue 29/6/21 Wed 30/6/21																				
481	Erection of Project Signboard	6 days Thu 1//21 Tue 6//21																				
482	Project Manager's Accomodation	54 days Sat 30/10/21 Wed 22/12/2	1		Project I	Manager's Ac	comodiation															
483	Construction of Foundation	42 days Sat 30/10/21 Fri 10/12/21																				
484		3 days Sat 11/12/21 Mon 13/12/21																				
485	Erection of Mic Modulars	4 days Sat 11/12/21 Tue 14/12/21																				
400	Toeting and Commissioning	4 days wed 15/12/21 Sat 16/12/21																				
487	Delivers of Office Exercises and Environments	2 days Sun 19/12/21 Mon 20/12/21																				
488		2 days Tue 21/12/21 Wed 22/12/2	-			Annamadutia	_															
409		10 days Sat 30/10/21 Mon 15/11/2			niracións /	Accomodatio	'n															
490	Construction of Foundation	10 days Sat 30/10/21 Mon 8/11/21	_																			
491	Connection of Device Supply	3 days rue 9/11/21 Inu 11/11/21	_																			
492	Delivery of office Europhyse	2 days Fil 12/11/21 Sat 13/11/21																				
493	Completion of Site Accompletion	2 uays our 14/11/21 Mon 15/11/21	1		↓																	
494	Completion of Site Accomodation	0 days wed 22/12/21 Wed 22/12/21																				
490	Site 3.6 (Dortion A2 P4 P2 P2)	1 32 uays 3dl 20/0/21 Sat 28/10/23	_										50		tion A2 D4	B2 D3						
490	Site Clogrance	152 uays Jat 20/0/21 Jat 28/10/23	_		<b>C</b> <sup>14</sup>	o Clearance										52,63)						
+91	Site Clearaile	100 uays Sat 20/0/21 Tue 1/2/22			<b>Y</b> Sit	e oleai allice																
	Task	Critical Task	Milestone 🔶	Sur	mmary																	
							Dawa	<u> </u>											*P P			

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID Task Na	ne	Duration Start	Finish	Qtr 2, 202	21 Qtr 3, 202	1 Qtr 4, 202	1 Qtr 1, 20	022 Qtr 2	2, 2022	Qtr 3, 2022	Qtr 4, 20	22 Qtr 1,	2023	Qtr 2, 2023	3 Qtr 3, 2	2023 Qt	r 4, 2023	Qtr 1, 2024	Qtr 2, 20	24 Qtr 3	2024 0	Qtr 4, 202	4 Qtr 1, 20	25 Qtr 2, 202	25 Qtr 3, 20	25 Qtr 4, 2	025 Qtr 1, 2	026 Qtr 2	2, 2026
498	Site Clearance for Portion A2	5 days Sat 28/8/21	Wed 1/9/21	Apr May J	un Jul Aug Se	ep Oct Nov De	ec Jan Feb	Mar Apr N	/lay Jun J	ul Aug Sep	Oct Nov I	Dec Jan Fe	eb Mar A	Apr May Ju	n Jul Aug	Sep Oct	t Nov Dec	Jan Feb Ma	Apr May	Jun Jul A	ug Sep C	ct Nov D	ec Jan Feb N	lar Apr May J	un Jul Aug	Sep Oct Nov	Dec Jan Feb	Mar Apr N	/lay Jun
499	Site Clearance for Portion B1,B2,B3	5 days Fri 28/1/22	Tue 1/2/22	_																									
500	Establishment	, 181 days Thu 2/9/21	Tue 1/3/22	_				Establis	shment																				
501	Condition Survey for Existing Structures to be Demolished for Portion A2	14 days Thu 2/9/21	Wed 15/9/27	í -																									
502	Condition Survey for Existing Structures to be Demolished for Portion B1,B2,B3	14 days Wed 2/2/22	Tue 15/2/22	_																									
503	Tree Survey for Portion A2	14 days Thu 2/9/21	Wed 15/9/2	Ē																									
504	Tree Survey for Portion B1,B2,B3	14 days Wed 2/2/22	Tue 15/2/22	_																									
505	Initial Survey for Portion A2	14 days Thu 2/9/21	Wed 15/9/2	ī —	- i i i i i i i i i i i i i i i i i i i																								
506	Initial Survey for Portion B1,B2,B3	14 days Wed 2/2/22	Tue 15/2/22	_																									
507	Site Haul Road for Portion A2	7 days Thu 2/9/21	Wed 8/9/21	_	i i i																								
508	Site Haul Road for Portion B1,B2,B3	7 days Wed 2/2/22	Tue 8/2/22	_																									
509	Health & Hygiene Facilities	7 days Thu 2/9/21	Wed 8/9/21		i i i																								
510	Fence Work & Gate for Portion A2	14 days Thu 2/9/21	Wed 15/9/2	I	i i ii																								
511	Fence Work for Portion B1,B2,B3	14 days Wed 2/2/22	Tue 15/2/22																										
512	Underground Utilities Detection for Portion A2	7 days Thu 2/9/21	Wed 8/9/21																										
513	Underground Utilities Detection for Portion B1,B2,B3	7 days Wed 2/2/22	Tue 8/2/22																										
514	Install Monitoring Points	14 days Wed 16/2/2	2 Tue 1/3/22																										
515	Tree Treatment	167 days Thu 16/9/21	Tue 1/3/22				╾	Tree Tr	eatment																				
516	Tree Felling for Portion A2	14 days Thu 16/9/21	Wed 29/9/2	(																									
517	Tree Felling for Portion B1,B2,B3	14 days Wed 16/2/22	2 Tue 1/3/22																										
518	Tree Protection Portion A2	14 days Thu 16/9/21	Wed 29/9/2	1																									
519	Tree Protection Portion B1,B2,B3	14 days Wed 16/2/22	2 Tue 1/3/22																										
520	Demolition work	71 days Wed 16/2/2	2 Wed 27/4/22	2				_	Demoliti	on work																			
521	Demolition of Existing Structures	71 days Wed 16/2/22	2 Wed 27/4/22	2																									
522	Decontamination	668 days Thu 30/9/21	Sat 29/7/23	_											P	econtam	ination												
523	CAP	180 days Thu 30/9/21	Mon 28/3/22	-					P																				
524	Site Appraisal for Portion A2	60 days Thu 30/9/21	Sun 28/11/2	1																									
525	Site Appraisal for Portion B1,82,83 & Preparation of CAP for all Portions	25 days Wed 2/2/22	Sat 26/2/22																										
526		30 days Sun 27/2/22	Thu 40/5/00	_					Crow																				
527	Ground Investigation (Trial Pit / Borenole)	45 days Tue 29/3/22	Thu 12/5/22	_					Ground	a investiga	ation (Tria	II PIt / BOI	enoie)																
528	Inal Pit Sampling & Lesting	45 days Tue 29/3/22	Thu 12/5/22	_																									
530	Decontamination Works	45 days Tue 29/5/22	Sat 20/7/22	_												ocontam	ination V	Vorke											
531	Pilot Scale Trials	39 days Fri 13/5/22	Mon 20/6/22	,						Pilot Scale	Trials					ccontain	mation	I OI KS											
532	Pilot Trial	15 days Fri 13/5/22	Fri 27/5/22																										
533	Treatability Test for Heavy Metal	24 days Sat 28/5/22	Mon 20/6/22	_																									
534	CAR & RAP Submission	43 days Tue 21/6/22	Tue 2/8/22	_							& RAP Sul	bmission																	
535	Preparation of CAR & RAP	15 days Tue 21/6/22	Tue 5/7/22	_																									
536	Review & Accepted by EPD	28 days Wed 6/7/22	Tue 2/8/22	_																									
537	Excavation of Contaminated Soil	45 days Wed 3/8/22	Fri 16/9/22	-						<b>.</b>	Excavatio	on of Cor	taminat	ed Soil															
538	To Stockpile for Biopile 2	45 days Wed 3/8/22	Fri 16/9/22	-																									
539	To Stockpile for Cement Solidification Plant 2	45 days Wed 3/8/22	Fri 16/9/22	-																									
540	Biopile Works (Hydrocarbon Treatment)	323 days Wed 6/7/22	Wed 24/5/23	\$					-	━			-	— в	iopile Wo	orks (Hyd	Irocarbo	n Treatment)											
541	Biopile System Setup (Biopile 2)	76 days Wed 6/7/22	Mon 19/9/22	2					-	━	Biopile S	System Se	tup (Bio	opile 2)															
542	Preparation of Base	3 days Wed 6/7/22	Fri 8/7/22						Ĭ																				
543	Waterproofing Works	2 days Sat 9/7/22	Sun 10/7/22																										
544	Placing 1st layer of contaminated soil & associated pipe	15 days Wed 3/8/22	Wed 17/8/22	2																									
545	Placing 2nd layer of contaminated soil & associated pipe	15 days Thu 18/8/22	Thu 1/9/22																										
546	Placing final layer of contaminated soil & cover up the whole biople	15 days Fri 2/9/22	Fri 16/9/22																										
547	Erect of Shelter for Biopile System	15 days Mon 11/7/22	2 Mon 25/7/22																										
548	Connection & Commissioning of Biopile System	3 days Sat 17/9/22	Mon 19/9/22	_																									
549	Biopile System Operation (6 months)	180 days Tue 20/9/22	Sat 18/3/23	_										siopile Sys	stem Ope	ration (6	months)												
550	Operation & Maintenance	180 days Tue 20/9/22	Sat 18/3/23	_																									
551	vertification, Sampling & Testing	180 days I ue 20/9/22	Sat 18/3/23																										
	Task	Critical Task		Milestere	•	0				-																			

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID T	ask Name	Duration Start	Finish	Otr 2 2021	Otr 3 2021 (	Otr 4 2021 0	r 1 2022 (	Otr 2 2022	Otr 3	2022 Otr	r 4 2022	Otr 1 2	2023 Otr 2 2	023 Oti	r 3 2023	Otr 4	2023 Q	tr 1 202	4 Otr 2 2	024 0	3 2024	Otr 4 202	24 Otr 1	2025 Otr	2 2025	Otr 3 202	5 Otr 4 20	25 Otr 1 2	2026 Ot	tr 2 2026
				Apr May Ju	Jul Aug Sep C	Oct Nov Dec Ja	n Feb Mar A	pr May Ju	n Jul Au	g Sep Oct	t Nov Dec	Jan Feb	Mar Apr May	Jun Jul	I Aug Se	p Oct N	ov Dec Ja	n Feb M	ar Apr May	Jun Ju	Aug Sep	Oct Nov D	Dec Jan F	eb Mar Apr	May Jun	Jul Aug Se	p Oct Nov [	ec Jan Fel	b Mar Ap	or May Jun
552	Completion of Biopile	30 days Sun 19/3/23	Mon 17/4/23		5								Con	npietion	от вюр	lle														
553	Submission of Closure Assessment Report	30 days Sun 19/3/23	Mon 17/4/23		5																									
554	Backfilling to Formation	25 days Tue 18/4/23	Fri 12/5/23											ר																
555	Removal of Facilities	12 days Sat 13/5/23	Wed 24/5/23		5																									
556	Cement Solidification Works (Heavy Metal Treatment)	343 days Sat 9/7/22	Fri 16/6/23											<b>-</b> Cer	ment Sol	licificat	ion Work	s (Heav	/ Metal Tr	eatment										
557	Mixing Facilities Setup (Plant 2)	39 days Sat 9/7/22	Tue 16/8/22						<b></b>	Mixing F	Facilities	Setup (	(Plant 2)																	
558	Preparation of Base	6 days Sat 9/7/22	Thu 14/7/22						<b>X</b>																					
559	Placing Concrete Block Barrier	9 days Fri 15/7/22	Sat 23/7/22						<b></b>																					
560	Waterproofing Works	6 days Sun 24/7/22	Fri 29/7/22																											
561	Erection of Shelter	18 days Sat 30/7/22	Tue 16/8/22																											
562	Cement Solidification Operation	253 days Sat 17/9/22	Sat 27/5/23											Cemei	nt Solidi	fication	o Operatio	on												
563	Mixing Operation	243 days Sat 17/9/22	Wed 17/5/23																											
564	Confirmation Test	243 days Tue 27/9/22	Sat 27/5/23							9				ווו																
565	Backfilling to Formation	220 days Wed 9/11/22	Fri 16/6/23							8																				
566	Decommissing of Facilities	4 days Sun 28/5/23	Wed 31/5/23																											
567	Remediation Report Submission	43 days Sat 17/6/23	Sat 29/7/23											•	🛡 Reme	diation	Report S	ubmiss	ion											
568	Preparation of Remediation Report	15 days Sat 17/6/23	Sat 1/7/23																											
569	Review & Accepted by EPD	28 days Sun 2/7/23	Sat 29/7/23	1											∎┼┼┼	+														
570	Geotechnical Work	142 days Wed 1/3/23	Thu 20/7/23												Geoteo	chnical	Work													
571	Check Dam Construction	142 days Wed 1/3/23	Thu 20/7/23												Check	Dam C	onstructi	on												
572	Excavation to Formation	1 day Wed 1/3/23	Wed 1/3/23	-									<u> </u>																	
573	Blinding Concrete	1 day Thu 2/3/23	Thu 2/3/23										R I																	
574	RC Structure Construction	140 days Fri 3/3/23	Thu 20/7/23										••••••••••••••••••••••••••••••••••••••		RC Str	ucture	Construc	tion												
575	Base Slab & Wall Base	15 days Fri 3/3/23	Fri 17/3/23										<b>Š</b>																	
576	Slab on Cut Slope	25 days Sat 18/3/23	Tue 11/4/23																											
577	Lower Portion of Wall	45 days Wed 12/4/23	Fri 26/5/23											וו ו																
578	Upper Portion of Wall	45 days Sat 27/5/23	Mon 10/7/23										i																	
579	Baffle Structures	10 days Tue 11/7/23	Thu 20/7/23											Ĭ	·															
580	Site formation	354 days Wed 9/11/22	Sat 28/10/23								<b>w</b>						Site form	ation												
581	Earthwork	302 days Wed 9/11/22	Wed 6/9/23													Earthw	ork													
582	Excavation to +30mPD	15 days Tue 14/2/23	Tue 28/2/23										K																	
583	Excavation to Formation	25 days Tue 11/7/23	Fri 4/8/23											Ĭ																
584	Cut Slope to +30mPD	15 days Tue 14/2/23	Tue 28/2/23										K																	
585	Cut Slope to Formation	25 days Tue 11/7/23	Fri 4/8/23											Ĭ																
586	Backfilling & Compaction to Formation	287 days Wed 9/11/22	Tue 22/8/23												■															
587	Trimming for Fill Slope	15 days Wed 23/8/23	Wed 6/9/23												Ť															
588	Surface Drainage	242 days Wed 1/3/23	Sat 28/10/23									•	<b>P</b>				Surface D	Drainage												
589	At Cut Slope Crest	61 days Wed 1/3/23	Sun 30/4/23									•	📕 🛶 🗛 At	Cut Slo	ope Cres	ŧ														
590	Excavation to Formation	40 days Wed 1/3/23	Sun 9/4/23									ſ																		
591	Catchpit	40 days Wed 8/3/23	Sun 16/4/23																											
592	U-channel	40 days Wed 22/3/23	Sun 30/4/23	1																										
593	At +30mPD	54 days Mon 1/5/23	Fri 23/6/23											<b></b> At	+30mPE															
594	Excavation to Formation	30 days Mon 1/5/23	Tue 30/5/23										/ 🎽																	
595	Catchpit	30 days Thu 11/5/23	Fri 9/6/23										\																	
596	U-channel	30 days Thu 25/5/23	Fri 23/6/23																											
597	Stepped Channel	10 days Thu 1/6/23	Sat 10/6/23		B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B									┏┛╢																
598	At Formation Level	85 days Sat 5/8/23	Sat 28/10/23		B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B           B         B												At Forma	tion Lev	el											
599	Excavation to Formation	64 days Sat 5/8/23	Sat 7/10/23											l	<b>YĂNNI</b>															
600	Catchpit	64 days Sat 12/8/23	Sat 14/10/23																											
601	U-channel	64 days Sat 26/8/23	Sat 28/10/23																											
602	Stepped Channel	20 days Sat 2/9/23	Thu 21/9/23												└╄╪	ЫШ														
603	At Fill Slope Toe	52 days Thu 7/9/23	Sat 28/10/23													•	At Fill Slo	оре Тое												
604	Excavation to Formation	28 days Thu 7/9/23	Wed 4/10/23																											
605	Catchpit	28 days Sun 17/9/23	Sat 14/10/23																											
606	U-channel	28 days Sun 1/10/23	Sat 28/10/23												4	<b>×∎</b> ∎•														
607	Concrete Access	130 days Thu 25/5/23	Sun 1/10/23													🛡 Con	crete Aco	ess												
608	Maintenance Access	30 days Thu 25/5/23	Fri 23/6/23	1																										
	1				· · · · ·					4						** ***			4 1				1	1	1				1	

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID Ta	ask Name	Duration Start	Finish	Qtr 2, 2021	Qtr 3, 2021	Qtr 4, 2021 Qt	r 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 20	23 Qtr 1, 2	2024 Qtr 2	2024 Qtr	r 3, 2024	Qtr 4, 2024	Qtr 1, 2025	5 Qtr 2, 2025	Qtr 3, 2025 Qtr	4, 2025 Qtr 1, 2	2026 Qtr 2, 2026
609	Stairway above +30mPD	10 days Sat 24/6/23	Mon 3/7/23	Apr May Jun	1 Jul Aug Sep C	Oct Nov Dec Jar	h Feb Mar /	Apr May Jun	Jul Aug Sep	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sep O	Oct Nov [	Dec Jan Fel	Mar Apr M	ay Jun Jul	Aug Sep	Oct Nov De	c Jan Feb Ma	Ir Apr May Jun	Jul Aug Sep Oct	Nov Dec Jan Fel	b Mar Apr May Jun
610	Stairway above Formation Level	10 days Fri 22/9/23	Sun 1/10/23	-																				
611	Planned Completion of Section 1A1	0 days Sat 28/10/23	Sat 28/10/23	5										*										
612	Section 1A2	792 days Sat 28/8/21	Sat 28/10/23	5										🔫 Sec	tion 1A2									
613	Site 3-7 (Portion A2,B2,B3,B5)	792 days Sat 28/8/21	Sat 28/10/23	\$	-									💶 Site	a 3-7 (Porti	on A2,B2,B	3,B5)							
614	Site Clearance	158 days Sat 28/8/21	Tue 1/2/22				🖷 Site Cl	earance																
615	Site Clearance for Portion A2	5 days Sat 28/8/21	Wed 1/9/21	-	<b>K</b>																			
616	Site Clearance for Portion B2,B3,B5	5 days Fri 28/1/22	Tue 1/2/22				4																	
617	Establishment	181 days Thu 2/9/21	Tue 1/3/22		<u> </u>		Esi	tablishmen	t															
618	Condition Survey for Existing Structures to be Demolished for Portion A2	14 days Thu 2/9/21	Wed 15/9/21		<b>ĕ</b> +-																			
619	Condition Survey for Existing Structures to be Demolished for Portion B2,B3,B5	14 days Wed 2/2/22	Tue 15/2/22	_			₩.																	
620	Tree Survey for Portion A2	14 days Thu 2/9/21	Wed 15/9/21	Ē.																				
621	Tree Survey for Portion B2,B3,B5	14 days Wed 2/2/22	Tue 15/2/22	_																				
622	Initial Survey for Portion A2	14 days Thu 2/9/21	Wed 15/9/21	r l																				
623	Initial Survey for Portion B2,B3,B5	14 days Wed 2/2/22	Tue 15/2/22	-																				
624	Site Haul Road for Portion A2	7 days Thu 2/9/21	Wed 8/9/21	-																				
625	Site Haul Road for Portion B2,B3,B5	7 days Wed 2/2/22	Tue 8/2/22	-																				
626	Health & Hygiene Facilities	7 days Thu 2/9/21	Wed 8/9/21	-																				
627	Fence Work & Gate for Portion A2	14 days Thu 2/9/21	Wed 15/9/21	ī																				
628	Fence Work for Portion B2,B3,B5	14 days Wed 2/2/22	Tue 15/2/22	-																				
629	Underground Utilities Detection for Portion A2	7 days Thu 2/9/21	Wed 8/9/21	-																				
630	Underground Utilities Detection for Portion B2,B3,B5	7 days Wed 2/2/22	Tue 8/2/22	-																				
631	Install Monitoring Points	14 days Wed 16/2/22	Tue 1/3/22	-																				
632	Tree Treatment	167 days Thu 16/9/21	Tue 1/3/22	-	• • •		<b></b> Tre	ee Treatmer	nt															
633	Tree Felling for Portion A2	14 days Thu 16/9/21	Wed 29/9/21	Г — — — — — — — — — — — — — — — — — — —																				
634	Tree Felling for Portion B2,B3,B5	14 days Wed 16/2/22	Tue 1/3/22	-																				
635	Tree Protection Portion A2	14 days Thu 16/9/21	Wed 29/9/21	ī																				
636	Tree Protection Portion B2,B3,B5	14 days Wed 16/2/22	Tue 1/3/22	-																				
637	Demolition work	71 days Wed 16/2/22	Wed 27/4/22	1				🗨 Demol	lition work															
638	Demolition of Existing Structures	71 days Wed 16/2/22	Wed 27/4/22	1																				
639	Decontamination	668 days Thu 30/9/21	Sat 29/7/23		•				╾	_			💶 Deconta	iminatio	n									
640	CAP	180 days Thu 30/9/21	Mon 28/3/22	:	-		┿┥╼┿┿	САР																
641	Site Appraisal for Portion A2	60 days Thu 30/9/21	Sun 28/11/2	1																				
642	Site Appraisal for Portion B2,B3,B5 & Preparation of CAP for all Portions	25 days Wed 2/2/22	Sat 26/2/22																					
643	Submission & Endorsement by EPD	30 days Sun 27/2/22	Mon 28/3/22	_																				
644	Ground Investigation (Trial Pit / Borehole)	45 days Tue 29/3/22	Thu 12/5/22	_				Gro	und Investigat	tion (Trial Pit	/ Borehole													
645	Trial Pit Sampling & Testing	45 days Tue 29/3/22	Thu 12/5/22	_																				
646	Inspection Pit for installing Groundwater Wells	45 days Tue 29/3/22	Thu 12/5/22	_																				
647	Decontamination works	443 days Fri 13/5/22	Sat 29/7/23										Deconta	iminatio	n works									
648		39 days Fri 13/5/22	WION 20/6/22					I I	Plice Scale 1	riais														
650	r not rildi Treatability Test for Heavy Motel	24 days Sat 29/5/22	Mon 20/6/22	_													4							
651	CAP & PAP Submission	43 days Tuo 21/6/22	Tuo 2/8/22	_							sion													
652		15 days Tue 21/6/22	Tue 5/7/22	_																				
653	Poview & Accepted by EPD	28 days Wed 6/7/22	Tue 2/8/22	_																				
654	Excavation of Contaminated Soil	45 days Wed 3/8/22	Fri 16/9/22	_						Excavation of	f Contamin	ated Soil												
655		45 days Wed 3/8/22	Fri 16/9/22	_																				
656	To Stockpile for Cement Solidification Plant 1	45 days Wed 3/8/22	Fri 16/9/22	_																				
657	Biopile Works (Hydrocarbon Treatment)	323 days Wed 6/7/22	Wed 24/5/23	3								Bio	pile Works (Hy	ydrocar	bon Treatn	ent)	4							
658	Biopile System Setup (Biopile 1)	76 days Wed 6/7/22	Mon 19/9/22	2						Biopile Syste	em Setup (E	iopile 1)		-		Í								
659	Preparation of Base	3 days Wed 6/7/22	Fri 8/7/22	-													4							
660	Waterproofing Works	2 days Sat 9/7/22	Sun 10/7/22	-													4							
661	Placing 1st layer of contaminated soil & associated pipe	15 days Wed 3/8/22	Wed 17/8/22	:																				
662	Placing 2nd layer of contaminated soil & associated pipe	15 days Thu 18/8/22	Thu 1/9/22	-																				
	`												· · · · · · · · · · · · · · · · ·											
	Task	Critical Task		Milestone	•	Summai	ry 🛡		-															
									Dago 10											*E_E		Warten D. D.	ll plont C.C.	D D - 44
1									rage 12											· r=rxcavato	I LELOTTV V	v = vv orker = D=Dr	n piané – C=Cran	IC LOTTY K=Kotter

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

	isk name	Duration Start	Finish
663	Placing final layer of contaminated soil & cover	15 days Fri 2/9/22	Fri 16/9/22
	up the whole biople	10 dayor 11 2,0,22	111 10/0/22
664	Erect of Shelter for Biopile System	15 days Mon 11/7/22	Mon 25/7/22
665	Connection & Commissioning of Biopile System	3 days Sat 17/9/22	Mon 19/9/22
666	Biopile System Operation (6 months)	180 days Tue 20/9/22	Sat 18/3/23
667	Operation & Maintenance	180 days Tue 20/9/22	Sat 18/3/23
668	Vertification, Sampling & Testing	180 days Tue 20/9/22	Sat 18/3/23
669	Completion of Biopile	30 days Sun 19/3/23	Mon 17/4/23
670	Submission of Closure Assessment Report	30 days Sun 19/3/23	Mon 17/4/23
671	Backfilling to Formation	25 days Tue 18/4/23	Fri 12/5/23
672	Removal of Facilities	12 days Sat 13/5/23	Wed 24/5/23
673	Cement Solidification Works (Heavy Metal Treatment)	343 days Sat 9/7/22	Fri 16/6/23
674	Mixing Facilities Setup (Plant 1)	39 days Sat 9/7/22	Tue 16/8/22
675	Preparation of Base	6 days Sat 9/7/22	Thu 14/7/22
676	Placing Concrete Block Barrier	9 days Fri 15/7/22	Sat 23/7/22
677	Waterproofing Works	6 days Sun 24/7/22	Fri 29/7/22
678	Erection of Shelter	18 days Sat 30/7/22	Tue 16/8/22
679	Cement Solidification Operation	253 days Sat 17/9/22	Sat 27/5/23
680	Mixing Operation	243 days Sat 17/9/22	Wed 17/5/23
681	Confirmation Test	243 days Tue 27/9/22	Sat 27/5/23
682	Backfilling to Formation	220 days Wed 9/11/22	Fri 16/6/23
683	Decommissing of Facilities	4 days Sun 28/5/23	Wed 31/5/23
684	Remediation Report Submission	43 days Sat 17/6/23	Sat 29/7/23
685	Preparation of Remediation Report	15 days Sat 17/6/23	Sat 1/7/23
686	Review & Accepted by EPD	28 days Sun 2/7/23	Sat 29/7/23
687	Site Formation	354 days Wed 9/11/22	Sat 28/10/23
688	Earthwork	287 days Wed 9/11/22	Tue 22/8/23
689	Excavation to +30mPD	15 days Mon 27/2/23	Mon 13/3/23
690	Excavation to Formation	25 days Fri 7/7/23	Mon 31/7/23
691	Cut Slope to +30mPD	15 days Mon 27/2/23	Mon 13/3/23
692	Cut Slope to Formation	25 days Fri 7/7/23	Mon 31/7/23
693	Backfilling & Compaction to Formation	287 days Wed 9/11/22	Tue 22/8/23
694	Surface Drainage	229 days Tue 14/3/23	Sat 28/10/23
695	At Cut Slope Crest	61 days Tue 14/3/23	Sat 13/5/23
696	Excavation to Formation	40 days Tue 14/3/23	Sat 22/4/23
697	Catchpit	40 days Tue 21/3/23	Sat 29/4/23
698	U-channel	40 days Tue 4/4/23	Sat 13/5/23
699	At +30mPD	54 days Sun 14/5/23	Thu 6/7/23
700	Excavation to Formation	30 days Sun 14/5/23	Mon 12/6/23
701	Catchpit	30 days Wed 24/5/23	Thu 22/6/23
702	U-channel	30 days Wed 7/6/23	Thu 6/7/23
703	At Formation Level	85 days Sat 5/8/23	Sat 28/10/23
704	Excavation to Formation	64 days Sat 5/8/23	Sat 7/10/23
705	Catchpit	64 days Sat 12/8/23	Sat 14/10/23
706	U-channel	64 days Sat 26/8/23	Sat 28/10/23
707	Stepped Channel	20 days Sat 2/9/23	Thu 21/9/23
708	Concrete Access	117 days Wed 7/6/23	Sun 1/10/23
709	Maintenance Access	30 days Wed 7/6/23	Thu 6/7/23
710	Stairway above Formation Level	10 days Fri 22/9/23	Sun 1/10/23
711	Planned Completion of Section 1A2	0 days Sat 28/10/23	Sat 28/10/23
712	Section 1A3	792 days Sat 28/8/21	Sat 28/10/23
713	Site 3-8 (Portion A3,B4,B5,B6,B7)	792 days Sat 28/8/21	Sat 28/10/23
714	Site Clearance	158 days Sat 28/8/21	Tue 1/2/22
715	Site Clearance for Portion A3	5 days Sat 28/8/21	Wed 1/9/21
716	Site Clearance for Portion B4,B5,B6,B7	5 days Fri 28/1/22	Tue 1/2/22
717	Establishment	181 days Thu 2/9/21	Tue 1/3/22
710	Condition Survey for Existing Structures to be Demolished	14 days Thu 2/9/21	Wed 15/9/21

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

Master Programme Rev.1

ID	Task Name	Duration Start Finish	Qtr 2, 2021 Qtr 3, 2021 Qtr 4, 2	021 Qtr 1, 2022 Qt	r 2, 2022 Qtr 3,	2022 Qtr 4, 202	22 Qtr 1, 2023 (	Qtr 2, 2023 Qtr 3	3, 2023 Qtr	r 4, 2023 Qtr	1, 2024 Qtr 2, 2	024 Qtr 3, 2024	Qtr 4, 2024 Qt	r 1, 2025 Qtr 2, 2025	Qtr 3, 2025 Qtr 4, 202	25 Qtr 1, 2026	Qtr 2, 2026
719	Condition Survey for Existing Structures to be Demolished	d 14 days Wed 2/2/22 Tue 15/2/22	Apr May Jun Jul Aug Sep Oct Nov	Dec Jan Feb Mar Ap	r May Jun Jul Au	ug Sep Oct Nov D	ec Jan Feb Mar A	pr May Jun Jul A	Aug Sep Oct	Nov Dec Jan	Feb Mar Apr May	Jun Jul Aug Sep	o Oct Nov Dec Jai	n Feb Mar Apr May Jur	1 Jul Aug Sep Oct Nov D	ec Jan Feb Mar	Apr May Jur
	for Portion B4,B5,B6,B7																
720	Tree Survey for Portion A3	14 days Thu 2/9/21 Wed 15/9/2															
721		14 days Wed 2/2/22 Tue 13/2/22	1														
723	Initial Survey for Portion B4.B5.B6.B7	14 days Wed 2/2/22 Tue 15/2/22															
724	Site Haul Road for Portion A3	7 days Thu 2/9/21 Wed 8/9/21															
725	Site Haul Road for Portion B4,B5,B6,B7	7 days Wed 2/2/22 Tue 8/2/22															
726	Health & Hygiene Facilities	7 days Thu 2/9/21 Wed 8/9/21															
727	Fence Work & Gate for Portion A3	14 days Thu 2/9/21 Wed 15/9/2	1														
728	Fence Work for Portion B4,B5,B6,B7	14 days Wed 2/2/22 Tue 15/2/22	2														
729	Underground Utilities Detection for Portion A3	7 days Thu 2/9/21 Wed 8/9/21															
730	Underground Utilities Detection for Portion B4,B5,B6,B7	7 days Wed 2/2/22 Tue 8/2/22															
731	Install Monitoring Points	14 days Wed 16/2/22 Tue 1/3/22															
732	Tree Treatment	167 days Thu 16/9/21 Tue 1/3/22		Iree	Treatment												
733	Tree Felling for Portion 84 85 86 87	14 days 11u 16/9/21 Wed 29/9/2															
734	Tree Protection for Portion A3	14 days Thu 16/9/21 Wed 20/9/2	1														
736	Tree Protection for Portion R4 B5 B6 B7	14 days Wed 16/2/22 Tue 1/3/22															
737	Demolition work	71 days Wed 16/2/22 Wed 27/4/2	2		Demolition w	ork											
738	Demolition of Existing Structures	71 days Wed 16/2/22 Wed 27/4/2	2														
739	Decontamination	668 days Thu 30/9/21 Sat 29/7/23							Decontam	ination							
740	CAP	180 days Thu 30/9/21 Mon 28/3/2	2		AP												
741	Site Appraisal for Portion A3	60 days Thu 30/9/21 Sun 28/11/2	21														
742	Site Appraisal for Portion B4,B5,B6,B7 & Preparation of CAP for all Portions	25 days Wed 2/2/22 Sat 26/2/22															
743	Submission & Endorsement by EPD	30 days Sun 27/2/22 Mon 28/3/22	2														
744	Ground Investigation (Trial Pit / Borehole)	45 days Tue 29/3/22 Thu 12/5/22	2		Ground Inv	estigation (Trial	Pit / Borehole)										
745	Trial Pit Sampling & Testing	45 days Tue 29/3/22 Thu 12/5/22	2		■												
746	Inspection Pit for installing Groundwater Wells	45 days Tue 29/3/22 Thu 12/5/22	2														
747	Decontamination Works	443 days Fri 13/5/22 Sat 29/7/23							Decontam	ination Work	5						
740	Pilot Scale Trial	39 days Fri 13/5/22 Mon 20/6/2				Scale Trials											
750	Treatability Test for Heavy Metal	24 days Sat 28/5/22 Mon 20/6/22	2														
751	CAR & RAP Submission	43 days Tue 21/6/22 Tue 2/8/22				CAR & RAP Sub	mission										
752	Preparation of CAR & RAP	15 days Tue 21/6/22 Tue 5/7/22															
753	Review & Accepted by EPD	28 days Wed 6/7/22 Tue 2/8/22															
754	Excavation of Contaminated Soil	45 days Wed 3/8/22 Fri 16/9/22				Excavatio	n of Contaminat	ed Soil									
755	To Stockpile for Biopile 1	45 days Wed 3/8/22 Fri 16/9/22				, <b>1</b> 11											
756	To Stockpile for Cement Solidification Plant 1	45 days Wed 3/8/22 Fri 16/9/22															
757	Remediation Report Submission	43 days Sat 17/6/23 Sat 29/7/23						<b>***</b>	Remediation	on Report Su	bmission						
758	Preparation of Remediation Report	15 days Sat 17/6/23 Sat 1/7/23															
759	Review & Accepted by EPD	28 days Sun 2/7/23 Sat 29/7/23															
760	Site Formation	354 days Wed 9/11/22 Sat 28/10/2							Forthu	Site Forma	tion						
762	Excavation to +32mPD	15 days Mon 27/2/23 Mon 13/3/23	3														
763	Excavation to Formation	25 days Sat 15/7/23 Tue 8/8/23															
764	Cut Slope to +32mPD	15 days Mon 27/2/23 Mon 13/3/23	3														
765	Cut Slope to Formation	25 days Sat 15/7/23 Tue 8/8/23					,		6								
766	Backfilling & Compaction to Formation	287 days Wed 9/11/22 Tue 22/8/23	3														
767	Surface Drainage	229 days Tue 14/3/23 Sat 28/10/2	3				•			Surface Dr	ainage						
768	At Cut Slope Crest	56 days Tue 14/3/23 Mon 8/5/23					••••	🗕 At Cut Slo	pe Crest								
769	Excavation to Formation	35 days Tue 14/3/23 Mon 17/4/23	3														
770	Catchpit	35 days Tue 21/3/23 Mon 24/4/23	3														
771	U-channel	35 days Tue 4/4/23 Mon 8/5/23															
772	At +32mPD	64 days Tue 9/5/23 Tue 11/7/23	3						t +32mPD								
773	Excavation to Formation	40 days Tue 9/5/23 Sat 17/6/23															
774	Catchpit	40 days Fri 19/5/23 Tue 27/6/23	5														
	Task	Critical Task	Milestone 🔶	Summary													
					P	age 14							*E=	Excavator L=Lorry	W=Worker D=Drill plan	t C=Crane Lor	ry R=Rotter

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID	Task Name	Duration Start	Finish	Qtr 2, 2021	Qtr 3, 202	1 Qtr 4, 2021	Qtr 1. 2022	Qtr 2, 202	2 Qtr 3. 20	22 Qtr 4. 2	2022 Qtr 1. 2	2023 Qtr 2.	2023 Qtr 3	. 2023 Qt	tr 4. 2023	Qtr 1, 2024	Qtr 2. 2024	Qtr 3, 20	24 Qtr 4.	2024 Q	otr 1, 2025 C	Qtr 2. 2025	Qtr 3. 20	25 Qtr 4. 20	25 Qtr 1.	2026 Qtr 2	2. 2026
775	Li channel	40 days Eri 2/6/23	Tue 11/7/23	Apr May Ju	n Jul Aug Se	p Oct Nov Dec	Jan Feb Mar	Apr May Ju	un Jul Aug	Sep Oct No	ov Dec Jan Fel	b Mar Apr Ma	y Jun Jul A	ug Sep Oc	t Nov Dec	Jan Feb Mar A	pr May Jun	Jul Aug S	Sep Oct No	ov Dec Ja	an Feb Mar A	pr May Jur	Jul Aug	Sep Oct Nov	Dec Jan Fe	eb Mar Apr I	May Jur
776	Stepped Channel	40 days Fil 2/0/23	Sup 18/6/23	-																							
777	At Formation Level	91 days Wed 9/9/23	Sull 10/0/23	_												ation I ovol											
779		60 days Wed 9/6/23	Sat 20/10/23	_																							
770	Catabait	60 days Wed 9/8/23	Sat 1/10/23	_																							
790		60 days Wed 10/8/23	Sat 14/10/23	_																							
700	O-channel	00 days Wed 50/6/23	Man 25/0/22	_																							
701		20 days wed 6/9/23	NION 25/9/23																								
782		136 days Fri 2/6/23	Sun 15/10/2	-										Y	Concrete	Access											
783	Maintenance Access	40 days Fri 2/6/23	Tue 11/7/23	_																							
784	Stairway above +32mPD	3 days wed 12/1/23	0 FFI 14/7/23	_									P														
700	Stairway above Formation Level	20 days Tue 20/9/23	Sull 15/10/23	_																							
787	Section 1A4	639 days Fri 28/1/22	Sat 28/10/23	-											Section	144											
788	Site 2-18 (Portion B11)	639 days Fri 28/1/22	Sat 28/10/23	-			Ĭ								Site 2-1	8 (Portion B1	1)										
789	Site Clearance	3 days Fri 28/1/22	Sun 30/1/22	-			+								• • • • • •	o (i oitioii 2i	,										
700	Establishment	14 days Mon 31/1/22	Sun 13/2/22	-			Fet	hlishmont																			
790	Condition Survey for Existing Structures to be Demolished	14 days Mon 31/1/22	Sun 13/2/22	-				ionomient																			
131	Condition Survey for Existing Structures to be DefilUISIEU	days molt of / 1/22	Guil 10/2/22																								
792	Tree Survey	14 days Mon 31/1/22	Sun 13/2/22	1																							
793	Initial Survey	14 days Mon 31/1/22	Sun 13/2/22				🚹																				
794	Site Haul Road	7 days Mon 31/1/22	Sun 6/2/22																								
795	Health & Hygiene Facilities	7 days Mon 31/1/22	Sun 6/2/22																								
796	Fence Work	14 days Mon 31/1/22	Sun 13/2/22																								
797	Underground Utilities Detection	7 days Mon 31/1/22	Sun 6/2/22	-																							
798	Install Monitoring Points	14 days Mon 31/1/22	Sun 13/2/22																								
799	Tree Treatment	14 days Mon 14/2/22	Sun 27/2/22				T T	ee Tre <mark>a</mark> tm	ent																		
800	Tree Felling	14 days Mon 14/2/22	Sun 27/2/22																								
801	Tree Protection	14 days Mon 14/2/22	Sun 27/2/22																								
802	Demolition work	41 days Mon 14/2/22	Sat 26/3/22					Demoliti	on work																		
803	Demolition of Existing Structures	41 days Mon 14/2/22	Sat 26/3/22																								
804	Decontamination	543 days Mon 31/1/22	Thu 27/7/23				-							Decontam	ination												
805	САР	55 days Mon 31/1/22	Sat 26/3/22				-	САР																			
806	Site Appraisal & Preparation of CAP	25 days Mon 31/1/22	Thu 24/2/22																								
807	Submission & Endorsement by EPD	30 days Fri 25/2/22	Sat 26/3/22																								
808	Ground Investigation (Trial Pit / Borehole)	45 days Sun 27/3/22	Tue 10/5/22					Gr	ound Invest	tigation <mark>(</mark> Tr	rial Pit / Bore	hole)															
809	Trial Pit Sampling & Testing	45 days Sun 27/3/22	Tue 10/5/22																								
810	Inspection Pit for installing Groundwater Wells	45 days Sun 27/3/22	Tue 10/5/22																								
811	Decontamination Works	443 days Wed 11/5/22	Thu 27/7/23					-						Decontam	ination W	orks											
812	Pilot Scale Trials	39 days Wed 11/5/22	Sat 18/6/22						Pilot Sca	ale Trials																	
813	Pilot Trial	15 days Wed 11/5/22	Wed 25/5/22					l 🖡																			
814	Treatability Test for Heavy Metal	24 days Thu 26/5/22	Sat 18/6/22						┡┤╎╎║╽																		
815	CAR & RAP Submission	43 days Sun 19/6/22	Sun 31/7/22							AR & RAP S	Submission																
816	Preparation of CAR & RAP	15 days Sun 19/6/22	Sun 3/7/22																								
817	Review & Accepted by EPD	28 days Mon 4/7/22	Sun 31/7/22						<b>##</b> \																		
818	Excavation of Contaminated Soil	45 days Mon 1/8/22	Wed 14/9/22							Excava	ation of Conta	aminated Soi	11														
819	To Stockpile for Biopile 3	45 days Mon 1/8/22	Wed 14/9/22	_																							
820	To Stockpile for Cement Solidification Plant 3	45 days Mon 1/8/22	Wed 14/9/22	_																							
821	Biopile Works (Hydrocarbon Treatment)	323 days Mon 4/7/22	Mon 22/5/23										Biopile V	Vorks (Hyd	lrocarbon	Treatment)											
822	Biopile System Setup (Biopile 3)	76 days Mon 4/7/22	Sat 17/9/22	_						Biopile	e Systern Set	up (Biopile 3	)														
823	Preparation of Base	3 days Mon 4/7/22	Wed 6/7/22																								
824	Waterprooting Works	2 days Thu 7/7/22	Fri 8/7/22	_																							
825	Placing 1st layer of contaminated soil & associated pipe	15 days Mon 1/8/22	Mon 15/8/22																								
826	Placing 2nd layer of contaminated soil &	15 days Tue 16/8/22	Tue 30/8/22	1																							
827	Placing final layer of contaminated soil & cover up the whole biople	15 days Wed 31/8/22	Wed 14/9/22	_																							
828	Erect of Shelter for Biopile System	15 days Sat 9/7/22	Sat 23/7/22	-					∣∦∔∔∔																		
829	Connection & Commissioning of Biopile System	3 days Thu 15/9/22	Sat 17/9/22	-						<b>*</b>																	
		I		1	: Í					<b>-</b> 11			- 11				1 11 1			*****							

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

Tas	k Name	Duration Start	Finish
30	Biopile System Operation (6 months)	180 days Sun 18/9/22	Thu 16/3/23
31	Operation & Maintenance	180 days Sun 18/9/22	Thu 16/3/23
832	Vertification, Sampling & Testing	180 days Sun 18/9/22	Thu 16/3/23
833	Completion of Biopile	30 days Fri 17/3/23	Sat 15/4/23
834	Submission of Closure Assessment Report	30 days Fri 17/3/23	Sat 15/4/23
835	Backfilling to Formation	25 days Sun 16/4/23	Wed 10/5/23
836	Removal of Facilities	12 days Thu 11/5/23	Mon 22/5/23
837	Cement Solidification Works (Heavy Metal Treatment)	343 days Thu 7/7/22	Wed 14/6/23
838	Mixing Facilities Setup (Plant 3)	39 days Thu 7/7/22	Sun 14/8/22
839	Preparation of Base	6 days Thu 7/7/22	Tue 12/7/22
840	Waterproofing Works	9 days Wed 13/7/22	Wed 27/7/22
842	Erection of Shelter	18 days Thu 28/7/22	Sun 14/8/22
843	Cement Solidification Operation	253 days Thu 15/9/22	Thu 25/5/23
844	Mixing Operation	243 days Thu 15/9/22	Mon 15/5/23
845	Confirmation Test	243 days Sun 25/9/22	Thu 25/5/23
846	Backfilling to Formation	220 days Mon 7/11/22	Wed 14/6/23
847	Decommissing of Facilities	4 days Fri 26/5/23	Mon 29/5/23
848	Remediation Report Submission	43 days Thu 15/6/23	Thu 27/7/23
849	Preparation of Remediation Report	15 days Thu 15/6/23	Thu 29/6/23
850	Review & Accepted by EPD	28 days Fri 30/6/23	Thu 27/7/23
851	Site formation	356 days Mon 7/11/22	Sat 28/10/23
852	Earthwork	305 days Mon 7/11/22	Thu 7/9/23
854		15 days Thu 24/8/23	Thu 7/9/23
855	Surface Drainage	51 days Fri 8/9/23	Sat 28/10/23
856	At Formation Level	51 days Fri 8/9/23	Sat 28/10/23
857	Excavation to Formation	30 days Fri 8/9/23	Sat 7/10/23
858	Catchpit	30 days Fri 15/9/23	Sat 14/10/23
859	U-channel	30 days Fri 29/9/23	Sat 28/10/23
860	Planned Completion of Section 1A4	0 days Sat 28/10/23	Sat 28/10/23
861	Section 1A5	792 days Sat 28/8/21	Sat 28/10/23
862	Site 2-19 (Portion A5,B10)	792 days Sat 28/8/21	Sat 28/10/23
863	Site Clearance	156 days Sat 28/8/21	Sun 30/1/22
864	Site Clearance for Portion A5	3 days Sat 28/8/21	Mon 30/8/21
865	Site Clearance for Portion B10	3 days Fri 28/1/22	Sun 30/1/22
866	Establishment	181 days Tue 31/8/21	Sun 27/2/22
867	Condition Survey for Existing Structures to be Demolished for Portion A5	14 days Tue 31/8/21	Mon 13/9/21
868	Condition Survey for Existing Structures to be Demolished for Portion B10	14 days Mon 31/1/22	Sun 13/2/22
869	Tree Survey for Portion A5	14 days Tue 31/8/21	Mon 13/9/21
870	Tree Survey for Portion B10	14 days Mon 31/1/22	Sun 13/2/22
871	Initial Survey for Portion A5	14 days Tue 31/8/21	Mon 13/9/21
872	Initial Survey for Portion B10	14 days Mon 31/1/22	Sun 13/2/22
8/3	Site Haul Road for Portion A5	/ days Tue 31/8/21	Mon 6/9/21
875	Site Haul Road for Portion B10	7 days Mon 31/1/22	Sun 6/2/22
876	Fence Work & Gate for Portion A5	14 days Tue 31/8/21	Mon 13/0/21
877	Fence Work for Portion R10	14 days I ue 31/0/21	Sun 13/2/22
878	Underground Utilities Detection for Portion A5	7 days Tue 31/8/21	Mon 6/9/21
879	Underground Utilities Detection for Portion B10	7 days Mon 31/1/22	Sun 6/2/22
880	Install Monitoring Points	14 days Mon 14/2/22	Sun 27/2/22
881	Tree Treatment	167 days Tue 14/9/21	Sun 27/2/22
882	Tree Felling for Portion A5	14 days Tue 14/9/21	Mon 27/9/21
883	Tree Felling for Portion B10	14 days Mon 14/2/22	Sun 27/2/22
884	Tree Protection for Portion A5	14 days Tue 14/9/21	Mon 27/9/21
885	Tree Protection for Portion B10	14 days Mon 14/2/22	Sun 27/2/22

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

D Task N	ame	Duration Start Finish
886	Demolition work	41 days Mon 14/2/22 Sat 26/3/:
887	Demolition of Existing Structures	41 days Mon 14/2/22 Sat 26/3/2
888	Decontamination	543 days Mon 31/1/22 Thu 27/7/
889	САР	55 days Mon 31/1/22 Sat 26/3/2
890	Site Appraisal for Portion B10 & Preparation of CAP	25 days Mon 31/1/22 Thu 24/2/
891	Submission & Endorsement by EPD	30 days Fri 25/2/22 Sat 26/3/2
892	Ground Investigation (Trial Pit / Borehole)	45 days Sun 27/3/22 Tue 10/5/
893	Trial Pit Sampling & Testing	45 days Sun 27/3/22 Tue 10/5/
894	Inspection Pit for installing Groundwater Wells	45 days Sun 27/3/22 Tue 10/5/
895	Decontamination Works	443 days Wed 11/5/22 Thu 27/7/
896	Pilot Scale Trials	39 days Wed 11/5/22 Sat 18/6/;
897	Pilot Trial	15 days Wed 11/5/22 Wed 25/5
898	Treatability Test for Heavy Metal	24 days Thu 26/5/22 Sat 18/6/2
899	CAR & RAP Submission	43 days Sun 19/6/22 Sun 31/7/
900	Preparation of CAR & RAP	15 days Sun 19/6/22 Sun 3/7/2
901	Review & Accepted by EPD	28 days Mon 4/7/22 Sun 31/7/
902	Excavation of Contaminated Soil	15 days Mon 1/8/22 Mon 15/8
903	To Stockpile for Biopile 3	15 days Mon 1/8/22 Mon 15/8/
904	To Stockpile for Cement Solidification Plant 3	15 days Mon 1/8/22 Mon 15/8/
905	Remediation Report Submission	43 days Thu 15/6/23 Thu 27/7/
906	Preparation of Remediation Report	15 days Thu 15/6/23 Thu 29/6/
907	Review & Accepted by EPD	28 days Fri 30/6/23 Thu 27/7/
908	Site Formation	439 days Tue 16/8/22 Sat 28/10
909	Earthwork	385 days Tue 16/8/22 Mon 4/9/2
910	Excavation to Formation of RW1 & +11mPD	15 days Tue 16/8/22 Tue 30/8/
911	Backfilling & Compaction to Formation (Contamination Area)	40 days Tue 16/8/22 Sat 24/9/2
912	Backfilling & Compaction at the Back of RW1	40 days Sat 15/10/22 Wed 23/1
913	Excavation to Formation of RW3 & +9.5mPD	15 days Thu 24/11/22 Thu 8/12/
914	Backfilling & Compaction at the Back of RW3	40 days Sat 4/3/23 Wed 12/4
915	Excavation to Formation of RW2 & +7.5mPD	15 days Thu 13/4/23 Thu 27/4/
916	Backfilling & Compaction at the Back of RW2	40 days Thu 27/7/23 Mon 4/9/2
917	Cut Slope	15 days Thu 27/7/23 Thu 10/8/
918	Retaining Wall	330 days Wed 31/8/22 Wed 26/7
919	RW1 above +11mPD	45 days Wed 31/8/22 Fri 14/10/
920	RW1 at both sides. RW3 above +9.5mPD	85 days Fri 9/12/22 Fri 3/3/23
921	RW1 at both sides. RW2 above +7.5mPD	90 days Fri 28/4/23 Wed 26/7
922	Surface Drainage	339 days Thu 24/11/22 Sat 28/10
923	At +12.14mPD	24 days Thu 24/11/22 Sat 17/12
924	Excavation to Formation	10 days Thu 24/11/22 Sat 3/12/
925	Catchpit	10 days Thu 1/12/22 Sat 10/12
926	U-channel	10 days Thu 8/12/22 Sat 17/12
927	At +11mPD	50 days Thu 13/4/23 Thu 1/6/2
928	Excavation to Formation	30 days Thu 13/4/23 Fri 12/5/2
929	Catchpit	30 days Sun 23/4/23 Mon 22/5
930	U-channel	30 days Wed 3/5/23 Thu 1/6/2
931	At +9.5mPD Level	54 days Tue 5/9/23 Sat 28/10
932	Excavation to Formation	30 days Tue 5/9/23 Wed 4/10
933	Catchnit	30 days Tue 3/8/23 Wed 4/10/
933		40 days Tue 12/9/23 Wed 11/1
934		40 days I ue 19/9/23 Sat 28/10/
935	At +7.5mPD Level	44 days Fri 11/8/23 Sat 23/9/2
936	Excavation to Formation	30 days Fri 11/8/23 Sat 9/9/23
937	Catchpit	30 days Fri 18/8/23 Sat 16/9/2
	U-channel	30 days Fri 25/8/23 Sat 23/9/2
938		40 days Tue 5/9/23 Sat 14/10
938 939	Outside RW1 at the Side	
938 939 940	Excavation to Formation	10 days Tue 5/9/23 Thu 14/9/.
938 939 940 941	Excavation to Formation Catchpit	10 days         Tue 5/9/23         Thu 14/9/           10 days         Fri 15/9/23         Sun 24/9/.

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

	ask Name	Duration Start Finish	Qir 2, 2021 Qir 3, 2021 Qir 4, 2021 Qir 4, 2022 Qir 2, 2022 Qir 4, 2022 Qir 4, 2023 Qir 2, 2023 Qir 4, 2023 Qir 4, 2024 Qir 3, 2025 Qir 4, 2024 Qir 1, 2025 Qir 2, 2025 Qir 3, 2025 Qir 4,
943	Planned Completion of Section 1A5	0 days Sat 28/10/23 Sat 28/10/23	Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
944	Section 1A6	319 days Wed 14/12/22 Sat 28/10/23	section 1A6
945	Road L53 + L54 (Portion A5,B10,B11)	319 days Wed 14/12/22 Sat 28/10/23	Road L53 + L54 (Portion A5,B10,B11)
946	Drainage Work	200 days Wed 14/12/22 Sat 1/7/23	
947	Sewer Work	200 days Fri 13/1/23 Mon 31/7/23	
948	Water Work	200 days Sun 12/2/23 Wed 30/8/23	
949	Water Pipe Installation	170 days Sun 12/2/23 Mon 31/7/23	
050	Water Connection	20 days Tup 1/9/22 Wed 20/9/22	
051		24 days Tue 1/0/23 Wed 30/0/23	
951		1 day Fri 25/0/22 Fri 25/0/22	
952		1 day Fri 25/8/23 Fri 25/8/23	
953	water Connection	1 day Sat 26/8/23 Sat 26/8/23	
954	Reinstatement Works	4 days Sun 27/8/23 Wed 30/8/23	
55	Utilities	150 days Tue 14/3/23 Thu 10/8/23	
56	Road Work	200 days Tue 14/3/23 Fri 29/9/23	
57	Road Lighting	109 days Wed 12/7/23 Sat 28/10/23	
58	Landscaping Work	74 days Wed 16/8/23 Sat 28/10/23	
59	Transformer Room	155 days Wed 5/4/23 Wed 6/9/23	Transformer Room
60	Excavation to Formation Level	10 days Wed 5/4/23 Fri 14/4/23	
31	Construction of Footing & Trench	10 days Sat 15/4/23 Mon 24/4/23	
62	Construction of RC Structures	30 days Tue 25/4/23 Wed 24/5/23	
63	Waterproofing, Finishing & Painting Works	25 days Thu 25/5/23 Sun 18/6/23	
64	Hardware	20 days Mon 19/6/23 Sat 8/7/23	
65	E&M Works	30 days Sun 9/7/23 Mon 7/8/23	
66	Testing & Commissioning	20 days Tue 8/8/23 Sun 27/8/23	
67	Handover to CLP	10 days Mon 28/8/23 Wed 6/9/23	
8	Planned Completion of Section 1A6	0 days Sat 28/10/23 Sat 28/10/23	
69	Section 1B	365 days Sun 29/10/23 Sun 27/10/24	Section 1B
70	Establishment works of Sections 1A4, 1A5, 1A6	365 days Sun 29/10/23 Sun 27/10/24	
	Diamond Completion of Continue 4D	0 days Sup 27/10/24 Sup 27/10/24	
/1	Planned Completion of Section 1B	0.0375 500 277 10/24 500 277 10/24	
/1 72	Section 24	1459 days Sat 1/5/21 Mon 28/4/25	Section 2A
72 73	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1)	1459 days Sat 1/5/21 Mon 28/4/25	Section 2A
'1 '2 '3	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1)	O days Sun 2//10/24         Sun 2//10/24           1459 days Sat 1/5/21         Mon 28/4/25           1459 days Sat 1/5/21         Mon 28/4/25           1459 days Sat 1/5/21         Mon 28/4/25	Section 2A
'1 '2 '3 '4	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1) Decontamination	O days Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Nag 42/2/24         Two 40/0/22	Decontamination
1 2 3 4 1	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1) Decontamination Pipe Jacking Water Work	1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1222 days         Man 22/22/24         Man 28/4/25	Decontamination       Image: Contamination       Imag
1 2 3 4 1 )4	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1) Decontamination Pipe Jacking Water Work Up Towns Planted (Partice 20.00.4.2.00.4.2.00)	1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25	Decontamination       Image: Contamination       Imag
1 2 3 4 1 04	Planted Completion of Section 1B Section 2A Ping Ha Road (Portion C1) Decontamination Pipe Jacking Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)	1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24	Decontamination     Image: Decontamination
1 2 3 4 1 94 1 1	Planned Completion of Section 1B Section 2A Ping Ha Road (Portion C1) Decontamination Pipe Jacking Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Water Work Water Work Water Work
1 2 3 4 1 4 1 2 3	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Pipe Installation (Ha Tsuen Road to Road D1)	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24	Decontamination     Image: Contamination     Image: Conta
1       2       3       4       1       2       3       4       1       2       3       4	Planned Completion of Section TB       Section 2A       Ping Ha Road (Portion C1)       Decontamination       Pipe Jacking       Water Work       Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)       Water Work       Water Pipe Installation (Ha Tsuen Road to Road D1)       Water Connection	O days Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24	Decontamination     Image: Contamination     Image: Conta
1 2 3 4 1 1 1 2 3 3 4 5 5	Planned Completion of Section TB         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Pipe Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24	Section 2A Pipe Jacking Water Work Water Work Water Connection
11 22 33 44 11 44 11 22 33 4 5 66	Planned Completion of Section TB         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Testing and Submission         Approval from WSD	O days Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24	Section 2A Ping Ha Road (Portion C1) Decontamination Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Work Water Work Water Work
1           2           3           4           1           04           11           04           11           12           13           14           15           16           17	Planned Completion of Section TB         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Pipe Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24	Section 2A Ping Ha Road (Portion C1) Decontamination Water Work Water Work Water Work Water Work Water Work Water Connection Water Connection
1 1 2 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Pipe Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           600 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24	Section 2A Ping Ha Road (Portion C1) Decontamination
1         1           2         3           3         4           1	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Vork         Water Pipe Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           600 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Connection
1         1           12         3           33         4           11         1           1004         1           11         1           12         1           13         1           14         1           15         1           16         1           17         1           18         1           19         20	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work	1459 days       Sati 12/1/10/24       Sati 2/1/10/24         1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Mon 28/4/25         182 days       Sat 1/5/21       Fri 29/10/21         667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Mon 5/2/24         60 days       Sun 23/6/24       Wed 21/8/24         54 days       Sun 23/6/24       Thu 15/8/24         1 day       Fri 16/8/24       Fri 16/8/24         1 day       Sat 17/8/24       Sat 17/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 12/12/23	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Water Connection Sewage Pumping Station Sewage Work
11           72           73           74           91           004           111           12           133           14           15           16           17           18           19           20           21	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 12/12/23           0 days         Thu 28/7/22         Thu 28/7/22	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Work Water Work Water Connection Severge Pumping Station Severge Pumping Station
1         1           12         3           33	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           688 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 21/2/233           0 days         Thu 28/7/22         Thu 28/7/22           5 days         Thu 28/7/22         Mon 1/8/22	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Sewage Pumping Station
1         1           12         3           33	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey	O days         Sdil 2//10/24         Sdil 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           600 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 21/2/23           0 days         Thu 28/7/22         Thu 28/7/22           5 days         Thu 28/7/22         Mon 1/8/22           7 days         Tue 2/8/22         Mon 8/8/22	Section 2A Ping Ha Road (Portion C1) Pipe Jacking Water Work Water Work Water Work Water Work Water Connection Water Connection Sewage Pumping Station Sewage Work:
1         1           2         3           3         4           1         1           104         1           11         12           13         14           15         16           17         18           19         20           21         22           23         24	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey	1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Mon 28/4/25         182 days       Sat 1/5/21       Fri 29/10/21         667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Mon 5/2/24         60 days       Sun 23/6/24       Wed 21/8/24         54 days       Sun 23/6/24       Thu 15/8/24         1 day       Fri 16/8/24       Fri 16/8/24         54 days       Sun 23/6/24       Wed 21/8/24         54 days       Sun 23/6/24       Thu 15/8/24         1 day       Fri 16/8/24       Fri 16/8/24         1 day       Sat 17/8/24       Sat 17/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 2/8/22         0 days       Thu 28/7/22       Mon 1/8/22         0 days       Thu 28/7/22       Mon 1/8/22         7 days       Tue 2/8/22       Mon 8/8/22         7	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Severage Pumping Station
1       2       3       4       1       4       1       2       3       4       5       6       7       8       9       0       11       2       33       4       5       6       7       8       9       0       11       2       33       4       5	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work	O days         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           688 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Mon 5/2/24           60 days         Sun 23/6/24         Wed 21/8/24           54 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 12/12/23           0 days         Thu 28/7/22         Mon 1/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22 <td>Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Sewage Pumping Station Sewage Work</td>	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Sewage Pumping Station Sewage Work
1       2       3       4       1       4       1       2       3       4       5       6       7       8       9       00       11       2       3       4       5       6       7       8       9       00       11       2       3       4       25       6	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection	O days Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           563 days         Thu 28/7/22         Thu 28/7/22           0 days         Thu 28/7/22         Mon 1/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22 <td< td=""><td>Sector 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Connection Sewage Pumping Station Sewage Work:</td></td<>	Sector 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Connection Sewage Pumping Station Sewage Work:
1           2           3           4           1           4           1           2           3           4           5           6           7           8           9           0           11           2           33           4           5           6           7           33           4           25           6           7	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Pipe Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points	1459 days       Sati 12/1/10/24       Sati 2/1/10/24         1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Fri 29/10/21         1667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         1 day       Sun 23/6/24       Wed 21/8/24         1 day       Sun 23/6/24       Thu 15/8/24         1 day       Sat 17/8/24       Sat 17/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 12/12/23         0 days       Thu 28/7/22       Mon 1/8/22         7 days       Tue 2/8/22       Mon 8/8/22	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Water Work Water Work Water Work Water Connection Water Connection Sewage Pumping Station Sewage Work:
1           2           3           4           1           2           3           4           1           2           3           4           5           6           7           8           9           0           11           2           3           4           5           6           7           3           4           5           6           7           8           9           0           11           2           3           4           5           6           7           8	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Mon 28/4/25           182 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 21/8/24           503 days         Thu 28/7/22         Tue 21/2/23           0 days         Thu 28/7/22         Mon 1/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Work Water Connection Sewage Pumping Station Sewage Work Sewage Work
1       2       3       4       1       2       3       4       5       6       7       8       9       0       1       2       3       4       5       6       7       5       6       7       8       9       0       1       2       3       4       5       6       7       8       9	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Ope Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of PC Structures	1459 days       Sati 12/1/10/24       Sati 2/1/10/24         1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Fri 29/10/21         667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         60 days       Sun 23/6/24       Thu 15/8/24         1 day       Fri 16/8/24       Fri 16/8/24         1 day       Sat 17/8/24       Sat 17/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 21/8/24         503 days       Thu 28/7/22       Mon 18/22         7 days       Tue 2/8/22       Mon 8/8/22	Section 2A Ping Ha Read (Portion C1)
1         1           2         3           4         1           104         11           12         3           14         11           12         13           14         15           16         17           18         19           20         21           22         23           24         25           26         27           28         29           20         20	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Ope Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of RC Structures         Duidedo Masia and Ensist	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sun 13/8/24         Wed 21/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 17/8/24           503 days         Thu 28/7/22         Tue 21/8/24           503 days         Thu 28/7/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22	Section 2A Ping Ha Road (Portion C1)
1         1           2         3           4         1           1         1           1         2           3         4           1         2           3         4           5         6           7         8           9         9           20         21           22         23           24         25           26         27           28         29           30         64	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Ope Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of RC Structures         Builder's Works and Finish	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           690 days         Fri 18/3/22         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           60 days         Sun 23/6/24         Thu 15/8/24           1 day         Fri 16/8/24         Fri 16/8/24           1 day         Sun 18/8/24         Wed 21/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Tue 2/8/22           0 days         Thu 28/7/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22 <td>Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Sewage Work Sewage Work</td>	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C2) Water Work Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2) Water Work Water Connection Sewage Work Sewage Work
1         1           12         3           33         4           131         14           152         13           144         15           166         17           178         19           220         21           222         23           224         225           226         227           228         29           330         31	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of RC Structures         Builder's Works and Finish         E&M Works	1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Mon 28/4/25         182 days       Sat 1/5/21       Fri 29/10/21         667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Wed 21/8/24         60 days       Sun 23/6/24       Wed 21/8/24         60 days       Sun 23/6/24       Wed 21/8/24         60 days       Sun 23/6/24       Wed 21/8/24         1 day       Fri 16/8/24       Fri 16/8/24         1 day       Sun 13/8/24       Wed 21/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 21/8/24         503 days       Thu 28/7/22       Mon 8/8/22         7 days       Tue 2/8/22       Mon 8/8/22         7	Section 2A Ping Ha Road (Portion C1) Ping Ha Road (Portion C1) Water Work Water Work Water Connection Water Connection Sewage Pumping Station Sewage Work
(1)       72       73       74       91       04       11       12       13       14       15       16       17       18       19       20       21       22       23       24       25       26       27       28       29       30       31       32	Planned Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ope Installation (Ha Tsuen Road to Road D1)         Water Connection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of RC Structures         Builder's Works and Finish         E&M Works	1459 days       Sat 1/5/21       Mon 28/4/25         1459 days       Sat 1/5/21       Mon 28/4/25         182 days       Sat 1/5/21       Fri 29/10/21         667 days       Mon 13/12/21       Tue 10/10/23         1233 days       Mon 13/12/21       Mon 28/4/25         888 days       Fri 18/3/22       Wed 21/8/24         888 days       Fri 18/3/22       Wed 21/8/24         690 days       Fri 18/3/22       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         600 days       Sun 23/6/24       Wed 21/8/24         60 days       Sun 23/6/24       Wed 21/8/24         1 day       Sat 17/8/24       Sat 17/8/24         4 days       Sun 18/8/24       Wed 21/8/24         563 days       Thu 28/7/22       Sat 10/2/24         503 days       Thu 28/7/22       Tue 21/2/23         0 days       Thu 28/7/22       Mon 8/8/22         7 days       Tue 2/8/22       Mon 8/8/22         90	Section 2A Ping Ha Road (Portion C1)
1         1           12         3           3         4           11         104           11         11           12         13           14         15           16         17           18         19           20         21           22         23           24         25           26         ?7           ?8         !9           10         11           12         :3	Planted Completion of Section 1B         Section 2A         Ping Ha Road (Portion C1)         Decontamination         Pipe Jacking         Water Work         Ha Tsuen Road (Portion A3,A6,A7,A8,D1,D2)         Water Work         Water Work         Water Work         Water Ornection         Testing and Submission         Approval from WSD         Water Connection         Reinstatement Works         Sewage Pumping Station         Sewage Work         Access day 456         Site Clearance         Initial Survey         Tree Survey         Fence Work         Underground Utilities Detection         Install Monitoring Points         ELS         Construction of RC Structures         Builder's Works and Finish         E&M Works         Rising Main         Setting Equipment	O days Sun 2//10/24         Sun 2//10/24         Sun 2//10/24           1459 days         Sat 1/5/21         Mon 28/4/25           1459 days         Sat 1/5/21         Fri 29/10/21           667 days         Mon 13/12/21         Tue 10/10/23           1233 days         Mon 13/12/21         Mon 28/4/25           888 days         Fri 18/3/22         Wed 21/8/24           888 days         Fri 18/3/22         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           600 days         Sun 23/6/24         Wed 21/8/24           1 day         Sat 17/8/24         Wed 21/8/24           54 days         Sun 18/8/24         Wed 21/8/24           1 day         Sat 17/8/24         Sat 17/8/24           4 days         Sun 18/8/24         Wed 21/8/24           563 days         Thu 28/7/22         Sat 10/2/24           503 days         Thu 28/7/22         Mon 8/8/22           7 days         Tue 2/8/22         Mon 8/8/22	Sevige Pumping Station

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Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID Task	Name	Duration Start	Finish
1035	Detention Pond (Portion B2)	1137 days Fri 28/1/22	Sun 9/3/25
1036	Site Clearance	5 days Fri 28/1/22	Tue 1/2/22
1037	Initial Survey	7 days Wed 2/2/22	Tue 8/2/22
1038	Tree Survey	7 days Wed 2/2/22	Tue 8/2/22
1039	Fence Work	7 days Wed 2/2/22	Tue 8/2/22
1040	Underground Utilities Detection	7 days Wed 2/2/22	Tue 8/2/22
1041	Install Monitoring Points	14 days Wed 9/2/22	Tue 22/2/22
1042	Excavation to Bottom Level & Cut Slope	60 days Sun 3/4/22	Wed 1/6/22
1043	Laying 1st Layer of Granular Material with Geotextile Filter	60 days Thu 2/6/22	Sun 31/7/22
1044	Laying 2nd Layer of Granular Material with Geotextile Filter	60 days Mon 1/8/22	Thu 29/9/22
1045	300 u-channel at +17.2mPD	75 days Fri 30/9/22	Tue 13/12/22
1046	Construction of Toe Block & Outlet Chamber	150 days Wed 14/12/22	Fri 12/5/23
1047	Laying Granular Material with Geotextile Filter on Slope	90 days Sat 13/5/23	Thu 10/8/23
1048	Laying 150mm thk. Cast In-situ Cellar Reinforced Paving	150 days Fri 11/8/23	Sun 7/1/24
1049	Install Drainage Trunk Main No.1 & No.2	100 days Mon 8/1/24	Tue 16/4/24
1050	Access Road from +17.2mPD to Top	75 days Wed 17/4/24	Sun 30/6/24
1051	2 Nos. 600Dia Pipe to Outlet	100 days Mon 1/7/24	Tue 8/10/24
1052	Construction of Outlet Structure	152 days Wed 9/10/24	Sun 9/3/25
1053	150 u-channel & Concrete Slab on Top Level around the Pond	100 days Mon 1/7/24	Tue 8/10/24
1054	D1	930 days Wed 3/8/22	Mon 17/2/25
1055	Soldier Pile Wall	430 days Wed 3/8/22	Fri 6/10/23
1056	Working platform	30 days Wed 3/8/22	Thu 1/9/22
1057	Pre-drilling	60 days Fri 2/9/22	Mon 31/10/22
1058	Socket H-Pile	180 days Tue 1/11/22	Sat 29/4/23
1059	Lagging Wall & Capping Beam	150 days Wed 10/5/23	Fri 6/10/23
1060	Site Formation	220 days Sun 30/4/23	Tue 5/12/23
1061	Earthwork	160 days Sun 30/4/23	Fri 6/10/23
1062	Excavation to Formation	105 days Sun 30/4/23	Sat 12/8/23
1063	Backfilling & Compaction to Formation	125 days Sun 30/4/23	Fri 1/9/23
1064	Trimming for Fill Slope	35 days Sat 2/9/23	Fri 6/10/23
1065	Surface Drainage	210 days Wed 10/5/23	Tue 5/12/23
1066	At Capping Beam Level	120 days Wed 10/5/23	Wed 6/9/23
1067	At Cut Slope Toe Level	60 days Sat 7/10/23	Tue 5/12/23
1068	Box Culvert Construction	151 days Tue 1/11/22	Fri 31/3/23
1069	Dry Season Period	151 days Tue 1/11/22	Fri 31/3/23
1070	Start of Dry Season	0 days Tue 1/11/22	Tue 1/11/22
1071	End of Dry Season	0 days Fri 31/3/23	Fri 31/3/23
1072	Temporary Drainage Diversion (Bulkhead for water cuttoff)	30 days Tue 1/11/22	Wed 30/11/2
1073	Placing Sand Bag	14 days Tue 1/11/22	Mon 14/11/22
1074	Install Diversion Pipes	7 days Tue 15/11/22	Mon 21/11/22
1075	Sealing and Waterproof works for Bulkhead	7 days Tue 22/11/22	Mon 28/11/22
1076	Pumping water to Dry Condition	2 days Tue 29/11/22	Wed 30/11/2
1077	Excavation to Formation	21 days Thu 1/12/22	Wed 21/12/2
1078	Excavation (Open Cut)	7 days Thu 1/12/22	Wed 7/12/22
1079	Placing Precast Concrete Block	7 days Thu 8/12/22	Wed 14/12/2
1080	Temp Backfilling	7 days Thu 15/12/22	Wed 21/12/2
1081	Foundation	7 days Thu 22/12/22	Wed 28/12/2
1082	Rockfill and Subbase	5 days Thu 22/12/22	Mon 26/12/22
1083	Blinding Concrete	2 days Tue 27/12/22	Wed 28/12/2
1084	RC Structure Constructiom	73 days Thu 29/12/22	Sat 11/3/23
1085	Base Slab	21 days Thu 29/12/22	Wed 18/1/23
1086	Wall	21 days Thu 19/1/23	Wed 8/2/23
1087	Top Slab	21 days Thu 9/2/23	Wed 1/3/23
1088	Removal of Falsework and Defect Rectification	10 days Thu 2/3/23	Sat 11/3/23
1089	Removal of ELS and Backfilling	28 days Thu 2/3/23	Wed 29/3/23
1090	Excavation	7 days Thu 2/3/23	Wed 8/3/23
1000	Excavation	1 days 110 2/5/25	WCU 0/5/25

Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works -Site Formation and Engineering Infrastructure

ID	Task Name	Duration	Start	Finish	Qtr 2, 2021	Qtr 3, 2021	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022 Apr May Jun	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2	023 Q	tr 1, 2024	Qtr 2, 20	24 Qtr	13, 202
1091	Removal Concrete Block	7 days	s Thu 9/3/23	Wed 15/3/23	r (pr may ban	i bui nugoo			r pr may our t	Jul Flug CO			i indy our	i du rugioo		200 00		<u>r (pr may c</u>		rugio
1092	Backfilling to Formation	14 days	s Thu 16/3/23	Wed 29/3/23								1								
1093	Removal of Temp Drainage System	5 days	s Mon 27/3/23	Fri 31/3/23									Removal	of Temp Dra	inage Sys	tem				
1094	Removal of Pipe	3 days	s Mon 27/3/23	Wed 29/3/23																
1095	Removal of Bulk Head	2 days	s Thu 30/3/23	Fri 31/3/23																
1096	Drainage and Sewerage	200 days	s Sat 7/10/23	Tue 23/4/24																
1097	Water Pipe Installation	200 days	s Wed 6/12/23	Sat 22/6/24																
1098	Utilities	200 days	s Sun 4/2/24	Wed 21/8/24																
1099	Road Work	200 days	s Thu 4/4/24	Sun 20/10/24	1												$\square$			
1100	Road Lighting	200 days	s Mon 3/6/24	Thu 19/12/24	1															
1101	Landscaping Work	200 days	s Fri 2/8/24	Mon 17/2/25														<u> </u>		
1102	L51	872 days	s Wed 3/8/22	Sat 21/12/24	1					•										
1103	Bored Pile Wall	452 days	s Wed 3/8/22	Sat 28/10/23						•					Bo	ored Pi	le Wall			
1104	Working platform	30 days	s Wed 3/8/22	Thu 1/9/22																
1105	Pre-drilling	60 days	s Fri 2/9/22	Mon 31/10/22																
1106	A1 Bored Piles	200 days	s Tue 1/11/22	Fri 19/5/23																
1107	A2 Bored Piles	200 days	s Tue 1/11/22	Fri 19/5/23																
1108	Lagging Wall & Capping Beam	150 days	s Thu 1/6/23	Sat 28/10/23																
1109	Site Formation	222 days	s Sat 20/5/23	Wed 27/12/23												<b></b> • s	Site Form	ation		
1110	Earthwork	73 days	s Sat 20/5/23	Mon 31/7/23										Earth	work					
1111	Excavation to Formation	60 days	s Sat 20/5/23	Tue 18/7/23																
1112	Backfilling & Compaction for Fill Slope	63 days	s Sat 20/5/23	Fri 21/7/23																
1113	Trimming for Fill Slope	10 days	s Sat 22/7/23	Mon 31/7/23										1						
1114	Surface Drainage	149 days	s Tue 1/8/23	Wed 27/12/23										<u> </u>		<b></b> • S	Surface D	ainage		
1115	At Road Level	60 days	s Tue 1/8/23	Fri 29/9/23																
1116	At Capping Beam Level	60 days	s Sun 29/10/23	Wed 27/12/23																
1117	Drainage and Sewerage	120 days	s Sun 29/10/23	Sun 25/2/24																
1118	Water Pipe Installation	120 days	s Thu 28/12/23	Thu 25/4/24																
1119	Utilities	120 days	s Mon 26/2/24	Mon 24/6/24												4			ť	
1120	Road Work	120 days	s Fri 26/4/24	Fri 23/8/24															1	
1121	Road Lighting	120 days	s Tue 25/6/24	Tue 22/10/24																
1122	Landscaping Work	120 days	s Sat 24/8/24	Sat 21/12/24																
1123	Planned Completion of Section 2A	0 days	s Mon 28/4/25	Mon 28/4/25																
1124	Section 2B	365 days	s Tue 29/4/25	Tue 28/4/26																
1125	Establishment works of Sections 1A1, 1A2, 1A3, 2A	365 days	s Tue 29/4/25	Tue 28/4/26																
1126	Planned Completion of Section 2B	0 days	s Tue 28/4/26	Tue 28/4/26																

Critical Task

Milestone 🔶

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Summary 🛡



\*E=Excavator L=Lorry W=Worker D=Drill plant C=Crane Lorry R=Rotter



# Appendix B

# **Project Organization Chart**

Service Contract No. WD/02/2021 Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure Monthly EM&A Report



## **Project Organization Chart**



← → Link of Communication



# Appendix C

## Project Implementation Schedule (PIS)



## Environmental Mitigation Implementation Schedule (EMIS)

EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
Air Qualit	у					
	Watering once per hour on active works areas, exposed areas and unpaved haul roads to reduce dust emission	To minimize the dust impact	Contractor	Construction Phase	• Air Pollution Control Ordinance	Implemented after reminder
	The active construction works area should be reduced to one- third of monthly average work of the respective Work Contract so as to alleviate adverse dust impact.				• To control the dust impact to meet HKAOO and TM-	Implemented
	When there are open excavation and spoil handling works, hoarding of 3m high should be provided along the construction site boundary adjacent to the non-construction areas such as residential, educational institutes or recreation area in use so as to minimize the duct impact				EIAO criteria	To be Implemented
S4.10	<ul> <li>Dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation and good site practices:</li> <li>Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to Air Sensitive Receivers (ASRs).</li> <li>Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.</li> <li>Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> </ul>				<ul> <li>Air Pollution Control (Construction Dust) Ordinance (APCO)</li> <li>To control the dust impact to meet HKAQO and TM- EIAO criteria</li> </ul>	Implemented

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<ul> <li>Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.</li> <li>Imposition of speed controls for vehicles on site haul roads.</li> <li>Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</li> </ul>					
Construct	on Noise					
\$5.13	Use of quiet plant which should be made reference to the Powered Mechanical Equipment (PME) listed in the Technical Memorandum or the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages as far as possible which includes the Sound Power Level (SWLs) for specific quiet PME.	Reduce the noise levels of plant items	Contractor	Construction Phase	EIAO-TM	Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
\$5.13	Install movable noise barrier and enclosures. The movable noise barrier can provide 5 dB(A) noise reduction for mobile plant and 10 dB(A) noise reduction for static plant. The barrier material shall have a surface mass of not less than 14 kg/m2. The enclosures can provide 15 dB(A) noise reduction	Screen the noisy plant items to be used at all construction sites				To be implemented
S5.13	Proper workfront management and proper grouping of PME during construction activities operated at the critical work areas	Reduce the construction noise				Implemented
S5.13	Maintain the recommended minimum separation between the schools and the critical works areas during examination periods	impact				N/A
S5.13	<ul> <li><u>Good Site Management Practices</u></li> <li>only well-maintained plant should be operated on-site, and plant should be serviced regularly during the construction programme;</li> <li>machines and plant (such as trucks and cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;</li> <li>plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs</li> <li>silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works</li> <li>mobile plant should be sited as far away from NSRs as possible and practicable; and</li> <li>material stockpiles, site offices and other structures should be effectively utilized, where practicable, to screen noise from on-site construction activities.</li> </ul>	Control construction airborne noise				Implemented
S5.13	Liaison with the school representative(s) to obtain the examination schedule so as to avoid noisy construction activities during school examination period.					N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
\$5.13	Set up a liaison group among CEDD, relevant government departments, contractors of the Works contracts, etc. during construction phase of the Project to ensure proper implementation of mitigation measures					To be implemented
Water Qu	ality					
\$6.11	Surface run-off from construction sites should be discharged into stormwater drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels/earth bunds/sandbag barriers should be provided on site to properly direct stormwater to such silt removal facilities. 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. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	To minimise impact from construction site run-off	Contractor	Construction Phase	<ul> <li>Water Pollution Control Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94,</li> <li>Technical</li> </ul>	To be implemented
S6.11	Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re- alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.				Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland	To be implemented
S6.11	Construction works should be programmed to minimise soil excavation works in rainy seasons (April to September). If excavation in soil cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g., along the crest / edge of excavation) to prevent stormwater run-off from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface				Systems, Inland and Coastal Waters (TM-DSS)	To be implemented

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	protection measures can be safely carried out well before the arrival of a rainstorm.					
\$6.11	Earthworks final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.					To be implemented
S6.11	Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into stormwater drains via silt removal facilities.					N/A
\$6.11	Open stockpiles of construction materials (e.g., aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.					Implemented
S6.11	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent stormwater run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.					To be implemented
\$6.11	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.					Implemented
S6.11	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be re- circulated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into stormwater drains via silt removal facilities.	To minimise impact from boring and drilling water				N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
S6.11	All vehicles and plant should be cleaned before they leave a construction site to minimise the deposition of earth, mud, debris on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into stormwater drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains	To minimise impact from wheel washing water				Implemented
S6.11	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralised to within the pH range of 6 to 10 before discharging into foul sewers.	To minimise impact from acidic wastewater				N/A
\$6.11	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS.	To minimise impact from effluent discharges				Implemented
S6.11	Beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.	To minimise impact from effluent discharges				Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
S6.11	<ul> <li>To minimise the potential water quality impacts from the construction works located near any inland watercourses, the practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should be adopted where applicable:</li> <li>Impermeable sheet piles and cofferdams should be used as required to divert water flow from the construction works area so that all the construction works would be undertaken within a dry zone and physically separated from the watercourses.</li> <li>The proposed works should preferably be carried out within the dry season where the flow in the stormwater culvert/water channel/stream is low.</li> <li>The use of less or smaller construction plants may be specified in works areas close to the inland water bodies.</li> <li>Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any watercourses.</li> <li>Stockpiling of construction materials and dusty materials should be covered and located away from any watercourses.</li> <li>Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.</li> <li>Mitigation measures to control site run-off from entering the nearby water environment should be implemented to minimise water quality impacts.</li> </ul>	To minimise impact from construction works near watercourses			• WPCO, EIAO- TM, ETWB TC9Works) No. 5/2005	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<ul> <li>be provided along the edge of the waterfront within the work sites to intercept the run-off.</li> <li>Construction effluent, site run-off and sewage should be properly collected and/or treated.</li> <li>Any temporary works site inside the stormwater watercourses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the stormwater quality.</li> <li>Proper shoring may need to be erected in order to prevent soil/mud from slipping into the inland water bodies.</li> </ul>					
S6.11	<ul> <li>The key water quality measure for protection of the revitalised drainage channel water is to avoid polluted site run-off from reaching the revitalised drainage channel water. Relevant mitigation measures should follow the practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams / rivers from adverse impacts arising from construction works" as listed below:</li> <li>Impermeable sheet piles and cofferdams should be used as required to divert water flow from the construction works area so that all the construction works would be undertaken within a dry zone and physically separated from the revitalised drainage channel water.</li> <li>The proposed works should preferably be carried out within the dry season where the flow in the revitalised drainage channel is low.</li> <li>The use of less or smaller construction plants may be specified in works areas close to the revitalised drainage channel.</li> <li>Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from</li> </ul>	To minimise impact from revitalisation and greening of Drainage Channel Banks				N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<ul> <li>the revitalised drainage channel during carrying out of the construction works.</li> <li>Stockpiling of construction materials and dusty materials should be covered and located away from the revitalised drainage channel water.</li> <li>Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby revitalised drainage channel.</li> <li>Construction activities, which generate large amount of wastewater, should be carried out a distance away from the revitalised drainage channel, where practicable.</li> <li>Mitigation measures to control site run-off from entering the nearby revitalised drainage channel should be implemented to minimise water quality impacts. Surface channels should be provided along the edge of the revitalised drainage channel within the work sites to intercept the run-off.</li> <li>Construction effluent, site run-off and sewage should be properly collected and/or treated.</li> <li>Any temporary works site inside the revitalised drainage channel should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the revitalised drainage channel water.</li> </ul>					
S6.11	The construction method and sequence of the proposed construction in watercourses / concrete flood storage pond for works sites of DP12 should be carefully designed so that all the construction works including any excavation and pilling operations would be undertaken within a dry zone and physically separated from the watercourses downstream.	To minimise impact from construction in watercourses / concrete flood storage pond			WPCO, EIAO-TM	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
S6.11	Impermeable sheet pile walls or cofferdam walls or steel casing should be installed to fully enclose the construction works area (including all the excavation and piling works) in the watercourse / pond prior to the commencement of any works in watercourse / pond. Dewatering of the construction works area or diversion of water flow should be undertaken before the construction works to avoid water flow in the construction works area. Silt removal facilities should be used to clarify the effluent generated from the dewatering operation before discharging back to the watercourse / drainage system.	To minimise impact from construction in watercourses / concrete flood storage pond			WPCO, EIAO-TM, TM-DSS	N/A
\$6.11	Any construction works including excavation and pilling activities should be undertaken in a dry zone surrounded by the impermeable sheet pile walls or cofferdam walls or steel casing. Silt curtains should also be deployed around the construction works area inside the watercourse, where practicable, as a second layer of protection to further minimise sediment and contaminant release. All wastewater generated from the pilling activities should be regarded as part of the construction site effluent, which should be properly collected and treated as appropriate to meet the standards stipulated in the TM-DSS before disposal. It is recommended that the construction works in watercourses / pond should be undertaken in dry seasons, where practicable, when the water flow is low.	To minimise impact from construction in watercourses / concrete flood storage pond			WPCO, EIAO-TM	N/A
S6.11	Construction works for removal and diversion of watercourses should be undertaken within a dry zone. Where necessary, cofferdams or similar impermeable sheet pile walls should be used to isolate the works areas from the neighbouring waters.	To minimise impact from removal and diversion of watercourse			WPCO, EIAO-TM	N/A
\$6.11	Construction works at watercourse should be undertaken only after flow diversion or dewatering operation is fully completed to avoid water flow in the works area. Dewatering of watercourse should be performed by diverting the water flow to new or temporary drainage. Where necessary, cofferdams or similar impermeable sheet pile walls should be used to isolate				WPCO, EIAO-TM, TM-DSS	N/A

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	the works areas from neighbouring waters. The permanent or temporary drainage for carrying the diverted flow from existing watercourse to be removed should be constructed and completed before dewatering of that existing watercourse. Construction of all the proposed permanent and temporary drainage should be undertaken in a dry zone prior to receiving any water flow					
S6.11	The Contractor should provide a dry zone for all the construction works to be undertaken in watercourses and stormwater drainage following the tentative works sequence as described above or using other approved methods as appropriate to suit the works condition. The flow diversion works should be conducted in dry season, where possible, when the flow in the watercourse is low. The wastewater and ingress water from the site should be properly treated to comply with the WPCO and the TM-DSS before discharge.				WPCO, EIAO-TM, TM-DSS	N/A
S6.11	The site practices outlined in the ProPECC PN 1/94 "Construction Site Drainage" and ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should be adopted for the proposed demolition or diversion of watercourses where applicable.				WPCO, EIAO-TM, ProPECC PN 1/94, ETWB TC (Works) No. 5/2005	Implemented
S6.11	Construction works at the existing ponds / wet areas should be conducted only after dewatering of these ponds / wet areas is fully completed. The drained water generated from the dewatering of these ponds / wet areas to be removed should be temporarily stored in appropriate storage tanks or containers for reuse on-site as far as possible. Any surplus drained water should be tankered away for proper disposal at STW in a controlled manner.	To minimise impact from removal of ponds / wet areas			WPCO, EIAO-TM	N/A
\$6.11	It is recommended to drain only one pond at a time to minimise the potential water quality impact. Dewatering works at ponds / wet areas should be conducted within dry season to minimise the quantity of drained water. No direct discharge of drained					N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	water to the stormwater drainage system or marine water should be allowed.					
S6.11	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied with for control of chemical wastes.	To minimise impact from accidental spillage			WPCO, Waste Disposal Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation, EIAO- TM	Implemented
S6.11	Any service workshop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.				WPCO, WDO, Waste Disposal (Chemical Waste) (General) Regulation, EIAO- TM	N/A
S6.11	<ul> <li>Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:</li> <li>Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport.</li> <li>Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents.</li> <li>Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>					Implemented
S6.11	No discharge of sewage to the stormwater system and marine water will be allowed. Adequate and sufficient portable chemical toilets should be provided in the works areas to handle	To minimise impact from workforce sewage effluent			WPCO, EIAO-TM, TM-DSS	Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	sewage from construction workforce. A licensed waste collector should be employed to clean and maintain the chemical toilets on a regular basis.					
\$6.11	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. Regular environmental audit of the construction site should be conducted to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.				WPCO, EIAO-TM	Implemented
S6.11	Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated run-off. Open stockpiling of contaminated materials should not be allowed. Any contaminated run-off or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF). The WTF shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment system shall meet the requirements as stated in TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.	To minimise impact from contaminated site run-off and wastewater from land decontamination			WPCO, EIAO-TM, TM-DSS	N/A
S6.11	No direct discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas, the baseline groundwater quality in these areas should be reviewed based on the past relevant site investigation data and any additional groundwater quality measurements to be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation works would	To minimise impact from groundwater from contaminated areas			WPCO, TM-DSS, Guidance Note for Contaminated Land Assessment and Remediation	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal.					
S6.11	If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of the TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells and submit a working plan to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge points to monitor the effectiveness of the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor. The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater.	To minimise impact from groundwater from contaminated areas			WPCO, EIAO-TM, TM-DSS	N/A



		Objective of the				
EM&A		recommended	Implement	Implementation	Requirements and /	Implementation
Ref.	Mitigation Measures	measure & main	Ågent	Timing	or Standards to be	status
		concerns to address			Acineved	
	The following measures should be implemented by the	To minimise impact			WPCO, EIAO-TM,	Implemented
	Contractors to minimise the chance of emergency construction	from construction			TM-DSS	
	site discharge (due to failure of treatment facilities such as sand traps, silt traps, sedimentation basing, oil interceptors etc.):	site discharges				
	• Provide spare or standby treatment facilities of suitable					
	capacities for emergency replacement in case damage or					
	defect or malfunctioning of the duty treatment facilities					
S6.11	is observed.					
	• Conduct daily integrity checking of the construction site					
	drainage and treatment facilities to inspect malfunctions,					
	in particular before, during and after a storm event.					
	• Carry out regular maintenance or desilting works to					
	and treatment facilities in particular before during and					
	after a storm event.					
	An Emergency Response Plan (ERP) should be developed to	To minimise impact				Implemented
	minimise the potential impact from construction site discharges	from construction				
	under failure of treatment facilities during emergency	site discharges				
	situations or inclement weather. The ERP should give the					
	emergency contacts to mobilise retention facilities and					
	construction site drainage system and the design and operation					
	of duty and standby treatment facilities. The ERP should also					
QC 11	provide the procedures and guidelines for routine integrity					
50.11	checking and maintenance of the drainage system and					
	treatment facilities as well as the emergency response and					
	rectification procedures to restore normal operation of the					
	treatment facilities in case of treatment failure during					
	Management Practices (BMPs) in controlling water pollution					
	arising from the construction activities and an event and action					
	plan with action and limit levels for water quality monitoring					
	should be included in the ERP. The ERP should be submitted					



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	to the EPD for approval before commencement of the construction works.					
S6.11	Construction of the Project would involve diversion of the existing twin 800 mm diameter rising mains along Tin Ying Road. New sewerage facilities for receiving the diverted sewage flow from the existing rising mains should be constructed prior to the commencement of any demolition and construction works at the existing rising mains. All sewage flow running in the existing rising mains along Tin Ying Road should be diverted to the new sewerage system prior to any demolition and construction works at the existing rising mains. No discharge of sewage flow to the environment should be allowed during the sewerage diversion works.	To minimise impact from sewerage diversion works			WPCO, EIAO-TM	N/A
S6.11	All excavated materials generated from removal and diversion of watercourses, removal and construction works in ponds and wet areas as well as the proposed bridge pier construction works in watercourses should be collected and handled in compliance with the Waste Disposal Ordinance. Excavated sediment, if any, generated from the excavation activities in watercourses, ponds and wet areas should be tested and classified in accordance with the ETWB TCW No. 34/2002 for determining the disposal arrangement for the sediment. No direct disposal of the construction wastes or excavated materials into the stormwater drainage system and marine water should be allowed.	To manage the disposal of sediment			Waste Disposal Ordinance, ETWB TCW No. 34/2002	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main	Implement Agent	Implementation Timing	Requirements and / or Standards to be	Implementation status
		concerns to address			Acineved	
Waste Ma	nagement					
S8.2	<ul> <li><u>Good Site Practice</u> The following good site practices are recommended during the construction phase: <ul> <li>Nomination of an approved person, such as a site manager, to be responsible for the implementation of good site practices,</li> <li>Training of site personnel in proper waste management and chemical handling procedures. <li>Provision of sufficient waste disposal points and regular collection of waste.</li> <li>Appropriate measures to minimize windblown litter and dust during handing, transportation and disposal of waste; and</li> <li>Preparation of a WMP in accordance with the ETWB TCW No. 19/2005 Environmental Management on Construction Sites and submitted it to the Engineer for approval.</li> </li></ul></li></ul>	Minimise waste generation during construction	Contractor	Construction Phase	Waste Disposal Ordinance, Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)	Implemented
S8.2	<ul> <li>Waste Reduction Measures</li> <li>Waste reduction is best achieved by proper planning and design at the planning and design phases, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve waste reduction</li> <li>Segregation and storage of different types of waste in different containers or skips or stockpiles to enhance reuse or recycling of materials and their proper disposal.</li> <li>Adopt proper storage and site practices to minimise the potential for damage to, and contamination of, construction materials;</li> <li>Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated;</li> </ul>				Waste Disposal Ordinance	Implemented


EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<ul> <li>Sort out demolition debris and excavated materials from demolition works to recover reusable / recyclable portions (i.e. soil, rock, broken concrete, etc.);</li> <li>Maximise the use of reusable steel formwork to reduce the amount of C&amp;D materials;</li> <li>Minimise over ordering concrete, mortars and cement grout by doing careful check before ordering; and</li> <li>Adopt pre-cast construction method instead of cast-in-situ method for construction of concrete structures as far as possible.</li> </ul>					
\$8.2	<ul> <li><u>Storage of Waste</u></li> <li>Storage of materials on site may induce adverse environmental impacts if not properly managed. The following recommendations should be implemented to minimise the impacts:</li> <li>Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimising the potential of pollution;</li> <li>Maintain and clean storage areas routinely;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from being windblown or washed away; and</li> <li>Different locations should be designated to stockpile each material to enhance reuse.</li> </ul>	Minimise waste impacts during storage of waste			Waste Disposal Ordinance	Implemented

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<u>Collection and Transportation of Waste</u> Waste hauler with appropriate permits should be employed by the Contractor for the collection and transportation of waste	Minimise waste impacts during collection and			Waste Disposal Ordinance	Implemented
	from works areas to respective disposal outlets. The following recommendation should be implemented to minimise the	transportation of waste				
S8.2	<ul><li>impacts:</li><li>Remove waste in timely manner;</li></ul>					
	• Employ the trucks with cover or enclosed containers for waste transportation;					
	• Obtain relevant waste disposal permits from the appropriate authorities; and					
	• Dispose of waste at licensed waste disposal facilities.					
	Construction and Demolition (C&D) Materials	Minimise waste			Waste Disposal	Implemented
	wherever practicable, C&D materials should be segregated	impacts from C&D			Ordinance, Land	
	from other waste to avoid contamination and ensure	materials			(Miscellaneous	
	following mitigation massures should be implemented in				Provisions) Ordinanaa Wasta	
	handling the C&D materials:				Disposal (Charges	
	• Adopt "selective demolition" technique to demolish the				for Disposal of	
	existing structure and facilities with a view to recovering				Construction	
	broken concrete effectively for recycling purpose, where possible:				Waste) Regulation (Cap. 354N)	
S8.2	<ul> <li>Maintain the stockpile areas and reuse excavated fill material for backfilling;</li> </ul>					
	• Carry out on-site sorting to recover the inert C&D materials					
	and reusable and recyclable materials prior to disposal off-					
	site;					
	• Make provisions in the contract documents to allow and					
	promote the use of recycled aggregates where appropriate; and					
	• Implement a trip-ticket system for each works contract in					
	accordance with DEVB TC(W) No. 6/2010 Trip-ticket					
	System for Disposal of Construction and Demolition					



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	Material to ensure that the disposal of C&D materials are properly documented and verified The Contractor should be responsible for devising a system to work for on-site sorting of C&D materials. It is recommended that the system should include the identification of the source of generation, estimated quantity of waste generated, arrangement for on-site sorting and/or collection, designated stockpiling areas, frequency of collection by recycling contractors and frequency of removal off-site.					
S8.2	<u>Asbestos Containing Materials</u> Due to the potential large amount of asbestos containing materials during the site clearance stage, asbestos investigation is required. However, as asbestos investigation will involve a large number of buildings and most premises will involve private access, which cannot be obtained at this stage, it is considered that an asbestos specialist shall be employed by the responsible parties during the construction stage to investigate this issue. Sufficient and reasonable lead time shall be allowed for preparation, vetting and implementation of Asbestos Investigation Report and Asbestos Abatement Plan in accordance with Air Pollution Control Ordinance before commencement of any demolition or site clearance work.	Control the asbestos containing materials and ensure proper storage, handling and disposal			Code of Practice on Handling, Transportation and Disposal of Asbestos Waste ProPECC PN 2/97 Handling of Asbestos Containing Materials in Buildings	N/A
	<ul> <li>Some key precationary measures related to the handning and disposal of asbestos are listed as following:</li> <li>Adoption of protection, such as full containment, mini containment, or segregation of work area;</li> <li>Provision of decontamination facilities for cleaning of workings, equipment and bagged waste before leaving the work area;</li> <li>Adoption of engineering control techniques to prevent fibre release from work area, such as use of negative pressure</li> </ul>					



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	<ul> <li>equipment with high efficiency particulate air (HEPA) filters to control air flow between the work area and the outside environment;</li> <li>Wetting of asbestos containing materials before and during disturbance, minimising the breakage and dropping of asbestos containing materials, and packing of debris and waste immediately after it is produced;</li> <li>Cleaning of work area by wet wiping and vacuuming with HEPA-filtered vacuum cleaner;</li> <li>Coating on any surfaces previously in contact with or contained by asbestos with a sealant;</li> <li>Proper bagging, safe storage and disposal of asbestos and asbestos-contaminated waste;</li> <li>Pre-treatment of all effluent from the work area before discharged; and</li> <li>Air monitoring strategy to check the leakage and clearance of the work area during and after the asbestos work.</li> </ul>					
S8.2	<u>Chemical Waste</u> For those processes which generated chemical waste, it may be possible to find alternatives to eliminate the use of chemicals, to reduce the generation quantities or to select a chemical type of less impact on environment, health and safety as far as possible. If chemical waste is produced at the construction site, the Contractor will be required to register with the EPD as a chemical waste producer. Chemical waste should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical waste (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while chemical waste that cannot be recycled should be disposed of at either the CWTC, or another licensed facility.	Control the chemical waste and ensure proper storage, handling and disposal.			Waste Disposal (Chemical Waste) General) Regulation, Code of Practice on the Packaging, Labelling and Storage of Chemical Waste	Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
S8.2	<u>General Refuse</u> General refuse should be stored in enclosed bins separately from construction and chemical waste. Recycling bins should also be placed to encourage recycling. Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. A reputable waste collector should be employed to remove general refuse on a daily basis. It is expected that such arrangements would minimise potential environmental impacts.	Minimise production of general refuse and avoid odour, pest and litter impacts			Waste Disposal Ordinance	Implemented
	Excavated Sediment Since the amount of excavated sediment generated from the inland water removal / diversion works is expected to be small, all excavated sediment will be treated and reused on-site as backfilling materials for the Project. This approach avoids the need for off-site disposal that may result in impacts on the marine environment. In addition, all construction works near the watercourses should be undertaken within a dry zone and during dry season to avoid adverse impacts to the environment. The excavated sediment, if stockpiled on site, should be stored in enclosed containers and transported to the on-site treatment facilities as soon as practicable to minimise any potential odour impacts.	Proper handling of excavated sediment			Waste Disposal Ordinance	N/A
	<u>Contaminated Soil</u> It is considered unlikely that contaminated land issues, if any subject to site investigation, would be a concern during either the construction or the operational of the proposed development as remediation on contaminated area would be carried out prior to construction. However, as a precaution, it is recommended that standard good site practices should be implemented during the construction phase to minimise any potential exposure to contaminated soils or groundwater.	Proper handling of contaminated soil			Practice Guide for Investigation and Remediation of Contaminated Land	N/A

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
Land Con	tamination					
-	Identified Potentially Contaminated SitesPrior to development of these sites, the Project Proponentshould appoint a consultant to re-appraise these sites to updatethe corresponding findings and sampling and testingrequirements presented in the Contamination Assessment Plan(CAP).Supplementary CAP(s), incorporating the findings of the sitere-appraisal and the updated sampling and testing strategy,should be prepared and submitted to EPD for approval prior toconducting any site investigation (SI) works.SI works should then be carried out according to thesupplementary CAP(s). Contamination Assessment Report(CAR(s)) and, if contaminated soil and/or groundwateridentified, Remediation Action Plan (RAP(s)) should beprepared and submitted to EPD for approval.	Identify the presence, nature and extent of contamination and formulate the necessary remedial actions	CEDD/ Detailed Design Consultant / Contractor	After the land is resumed and handed over to the Project Proponent and prior to commencement of any remediation / construction works.	EIAO-TM, Guidance Manual for Use of Risk- Based Remediation Goals (RBRGs) for Contaminated Land Management, Guidance Notes for Contaminated Land Assessment and Remediation; and Practice Guide for Investigation and Remediation of Contaminated Land	N/A
-	Remaining Non-Contaminated Sites After the sites are handed over to the Project Proponent for development, the Project Proponent should appoint a consultant to revisit these sites to assess the latest land uses and site conditions. If any of these sites are found to have potential land contamination issues, the Project Proponents appointed consultant should prepare and submit supplementary CAP(s) to EPD for approval prior to conducting any SI works. SI works should then be carried out according to the supplementary CAP(s). CAR(s) and, if contaminated soil and/or groundwater identified, RAP(s) should be prepared and submitted to EPD for approval					N/A



			1							
EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status				
-	Any contaminated soil and groundwater should be treated according to EPD's approved RAP(s) and RR(s) should be submitted to EPD for agreement after completion of the remediation works.	Remediate any contaminated soil and groundwater and demonstrate that the remediation works are adequate and is carried out in accordance with EPD's approved RAP(s).	Contractor	After the land is resumed and handed over to the PP and prior to commencement of any construction works.		N/A				
Ecology	Ecology									
S10.2.4	Scheduling the site formation and construction works at Sites 3-32, 3-33, 3-37, 3-39 and 3-40 outside the breeding season of ardeids	Minimise disturbance impacts to breeding ardeids in San Sang San Tsuen egretry	CEDD / Contractor	Construction phase	TM-EIAO	N/A				
S10.2.5	Provision of screening (e.g. hoarding) at adjacent habitats within CA at northwest of San Sang San Tsuen.	Disturbance impacts (e.g. noise/vibration, visual) to adjacent habitats within the CA				N/A				
S10.2.6	Hoarding around "Green Belt" zoning to mitigate construction disturbance impacts to the Crested Serpent Eagle habitat.	Minimise construction disturbance impacts to the Crested Serpent Eagle habitat				N/A				
S10.2.7	Carefully design the construction methods and sequence of the proposed pier in the watercourses so that all piling and excavation works would be done within dry zone and physically separated from the watercourse downstream	Minimise potential water quality impacts to the habitats of the main channel and waterbird species				N/A				



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
S10.2.8	An ecologist with relevant experience should be consulted before the clearance of any bat roost.	Ensure no bat roost would be damaged due to the proposed development				N/A
\$10.2.10	Provision of hoarding for proper delineation of works boundary.	Minimise construction disturbance impacts to existing mitigation ponds				Implemented
\$10.2.11	General dust and noise control measures.	Mitigate disturbance impacts to the surrounding habitats and associated wildlife				Implemented
\$10.2.12	Night-time lighting control.	Minimise glare disturbance to wildlife				Implemented
S10.2.13 - S10.2.15	Good site practices during the construction phase to avoid any pollution entering any nearby watercourses.	Minimise water quality impacts to nearby water bodies				Implemented
Fisheries				I	I	I
S.13.4.8	Follow the mitigation measures proposed in the water quality assessment for construction and operational phase	To protect fisheries resources from potential indirect impacts arising from deterioration of water quality	Contractor	Construction phase	EIA, contractual requirments	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
Landscape	e and Visual					
CM1	<u>Minimised construction area and contractor's temporary works</u> <u>areas</u> The construction area and contractor's temporary works areas should be minimised. General Good Practice Measures - For areas unavoidably disturbed by the Project on a short-term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to	Minimise impacts on adjacent landscape	Government/ Developer/ Detailed Design Consultant/ Contractor	Prior to construction, construction stages. This should be implemented as soon as the areas become available, to achieve early establishment	-	Implemented
CM2	Stripping and storing of topsoil Topsoil, where identified, should be stripped and stored for re- use in the construction of the soft landscape works, where practical. The Contract Specification shall include storage and reuse of topsoil as appropriate. On potentially contaminated sites (as per Section 8) where investigation results indicate soil contamination is present, the use of contaminated soils for planting is to be avoided where appropriate.	Minimise the loss of existing topsoil and reduce the need to provide imported material		Detailed design, construction stages	-	Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
CM3	<u>Protection of existing trees</u> Tree Protection & Preservation – Exiting trees to be retained within the Project site should be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.	Protect and Preserve Trees			ETWB Technical Circular Works (TCW) No. 29/2004 and 3/2006	Implemented
CM4	Transplantation of existing trees where practical Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the Project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation		Prior to Construction, Construction Phase & Maintenance in Operation Phase	ETWB TCW 3/2006 and 2/2004 HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit	Implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
CM5	<u>Control of night-time lighting</u> Control of night-time lighting and glare by hooding all lights. Construction day and night-time lighting should be controlled to minimise glare impact to adjacent VSRs during the Construction phase.	Minimise impact of night-time lighting and glare	Government/ Developer/ Contractor	Construction stage	-	Implemented
CM6	<u>Construction of decorative hoarding around construction works</u> Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours Screen hoarding shall 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). It is proposed that the screening be compatible with the surrounding environment and where possible, non- reflective, recessive colours be used.	To screen undesirable views of the works site.	Contractor	Construction stage	-	To be implemented
CM7	Reduction of construction period to practical minimum Reduction of construction period to practical minimum	Minimise length of exposure to construction works	Government/ Developer/ Detailed	Construction stage	-	Implemented
CM8	Prevention of run-off Limitation of / Ensuring no run-off into surrounding landscape and prohibit run-off from entering adjacent water bodies and waterways Refer to guidelines	Minimise / limit impacts on surrounding landscape and adjacent water sea areas	Design Consultant/ Contractor	Construction stage	Guidelines for this include ETWB Technical Circular (Works) No. 5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered Structural	Implemented

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EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
					Engineers 295: Protection of natural streams/rivers from adverse impacts arising from construction works	
CM9	<u>Phasing of construction stage</u> Phasing of the construction stage to reduce visual impacts.	Minimise visual impacts during the construction phase		Construction stage	-	To be implemented
CM10	Advance screen planting Advance screen planting of fast-growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	Minimise length of exposure without long term mitigation measures		Detailed design, construction stages	ETWB TCW 3/2006 and 2/2004	To be implemented
CM11	<u>Minimise disturbance footprints</u> To minimise landscape and visual impacts, the footprint and elevation of such elements should be optimised to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimise landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption		Detailed design, construction stages	GEO Publication No. 1/2011, Technical Guidelines on Landscape Treatment on Slopes	Implemented
CM12	Protection of existing water courses For all the natural rivers and streams inside the development area, consideration of protection measures should be made to minimise any impacts from the construction works.	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	Detailed design, construction stages	Guidelines for this include ETWB Technical Circular (Works) No.	N/A



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimise any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. Bridges and box culverts should also be used to minimise the necessity of watercourse modification and protect the watercourses where necessary.				5/2005 Protection of natural streams/rivers from adverse impacts arising from construction works; Building Department (BD) Practice Note for Authorised Persons and Registered Structural Engineers 295: Protection of natural streams/rivers from adverse impacts arising from construction works	
CM13	Hydroseeding on modified slopes Hydroseeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Developer/ Detailed Design Consultant/ Contractor	Prior to Construction, Construction Phase & Maintenance in Operation Phase	GEO publication (1999) – Use of Vegetation as Surface Protection on Slope; GEO Publication No. 1/2011- Technical Guidelines on Landscape Treatment for Slopes	To be implemented



EM&A Ref.	Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
CM14	Integrate Open Space Network with existing nullah conditions For watercourses affected during construction, measures should be sought to minimise the impact with respect to the existing nullah conditions, existing shrubs and trees along the banks. Where natural streams are unavoidably affected along some of their length, they can be diverted to avoid the proposed new developments and retain the integrity of the whole stream. Detailed design of any stream diversion should follow the Guidelines in ETWB Technical Circular (Works) No. 5/2005 (Protection of natural streams/rivers from adverse impacts arising from construction works) and appropriate construction methods should be used.	Minimise / limit impacts on surrounding landscape and adjacent water sea areas			ETWB TCW No. 5/2005 – Protection of natural streams/rivers from adverse impacts arising from construction works; DSD Practice Note No.1/2005, Guidelines on Environmental Considerations for River Channel Design	N/A
Cultural i	Heritage Impact					
S13.1.1	The archaeological impact arising from the construction works should be assessed when the detailed design of the works is available. Preservation in situ is the top priority to safeguard the archaeological remains in the impacted area by amending the layout plans of the construction works. However, if the works cannot avoid disturbance to the archaeological deposit, depending on degree of direct impact, the following mitigation measures should be considered, such as archaeological surveys, archaeological watching brief, preservation by record and relocation of archaeological remains. The scope and programme of the archaeological fieldwork would be agreed with AMO.	Minimise impact to archaeology in SAIs	Contractor	Prior to construction phase commencement	Environmental Impact Assessment Ordinance EIAO (Cap.499) and Technical Memorandum (EIAO-TM) Guidance Note on Assessment of Impact on Sites of Culture Heritage in Environmental Impact Assessment Studies (GCH-EIA) Antiquities and Monuments Ordinance (A&MO)	N/A

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Objective of the	
EM&A Ref.Mitigation Measuresrecommended measure & main measure & mainImplement AgentImplementation or Standa Achie	ds to be ved Implementation status
Hong	l
Planning	
	ielines
	SG)
Cultural	es lor
	essment
(GCF	IA)
Eurther archaeological survey is required to be conducted at Minimise impact to EIAO	TM N/A
APA 1 and APA 2 to ascertain the extent of any archaeological archaeology in GCH-	EIA
remains within the APAs if any construction works will be APAs.	10
carried out. Based on the findings of the survey, mitigation	SG
S13.1.2 measures could be proposed, such as preservation in situ, GCH	IA
preservation by record, or relocation of archaeological remains,	
in prior agreement with the AMO. Direct impact arising from	
the proposed development within APA 3 should be avoided as	
far as possible.	
Preservation by record (including cartographic and Minimise impact to EIAO	TM N/A
S13.1.5 photographic record) prior to any construction works would be	
HKH required for the directly impacted built heritage.	SG
GCH GCH	
Maximise the public CEDD EIAO	IM N/A
A Conservation Management Plan should be proposed to education, heritage	
- Implement future maintenance and management of the cultural and cultural tourism A&I	
in this area as	
heritage attractions	



## Appendix D

## Environmental Monitoring Schedule

Contract No. WD/02/2021 Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works - Site Formation and Engineering Infrastructure (Version 4.0)

	Environmental Monitoring Schedule					
			December 2022			
Sun	Mon	Tue	Wed	Thur	Fri	Sat
				1	2	3
4	5	6 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	7	8 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	9	10 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)
11	12	13 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	14	15 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	16	17 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)
18	19	20 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	21	<b>22</b> Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	23	24 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)
25	26 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	27	28 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	29	<b>30</b> Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	31

Water Quality Monitoring Station:

U1 - Upstream Station

U2 - Upstream Station

SW - Gradient station (downstream of U1 and the construction site of Road D1)

HT - Gradient station (downstream of U2 and the construction site of Road D1)

TKW1 - Gradient station (downstream of the construction site of Road D1)

TKW - Gradient station (downstream of the construction site of Road D1)

#### Contract No. WD/02/2021 Environmental Team for Hung Shui Kiu/ Ha Tsuen New Development Area Stage 1 Works - Site Formation and Engineering Infrastructure

Tentative Environmental Monitoring Schedule							
	January 2023						
Sun	Mon	Tue	Wed	Thur	Fri	Sat	
1	2 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	3	<b>4</b> Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	5	<b>6</b> Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	7	
8	9	10 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	11	12 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	13	14 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	
15	16	17 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	18	19 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	20	21 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	
22	23	24	25 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	26	27 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)	28	
29	30	31 Water Quality Monitoring (U1, U2, SW, HT, TKW, TKW1)					

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

Water Quality Monitoring Station:

U1 - Upstream Station

U2 - Upstream Station

SW - Gradient station (downstream of U1 and the construction site of Road D1)

HT - Gradient station (downstream of U2 and the construction site of Road D1)

TKW1 - Gradient station (downstream of the construction site of Road D1)

TKW - Gradient station (downstream of the construction site of Road D1)

#### \*Remark:

As confirmed by the Engineers, no construction works will be carried out during Chinese New Year (22 - 25 Jan 2023), thus no water quality monitoring will be carried out on 23 Jan 2023.



# Appendix E Calibration Certification



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

### **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.	
Date of Issue	
Page No.	

: R-BB110035 : 17 November 2022 : 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 :	HORIBA U-53
Manufacturer :	HORIBA
Serial Number :	PPHNOMXY
Date of Received :	16 November 2022
Date of Calibration :	16 November 2022
Date of Next Calibration :	16 February 2023
Request No. :	D-BB110035

#### PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

<u>Test Parameter</u>	Reference Method
pH value	APHA 21e 4500 H <sup>+</sup>
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 21e 4500 O
Turbidity	APHA 21e 2130 B

#### **PART D - CALIBRATION RESULT**

#### (1) pH value

Target ( pH unit )	Display Reading ( pH unit )	Tolerance	Result
4.00	4.15	0.15	Satisfactory
7.42	7.34	-0.08	Satisfactory
10.01	9.92	-0.09	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
14	15.45	1.45	Satisfactory
21	21.44	0.44	Satisfactory
34	34.68	0.68	Satisfactory

Tolerance of Temperature should be less than  $\pm$  2.0 ( °C )

#### (3) Salinity

Expected Reading (g/L)	Display Reading ( g/L )	Tolerance (%)	Result
10	9.61	-3.90	Satisfactory
20	21.04	5.20	Satisfactory
30	32.03	6.77	Satisfactory

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

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning

Assistant Manager (Chemical Testing)

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## **REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Test Report No.
Date of Issue
Page No.

: R-BB110035 : 17 November 2022 : 2 of 2

#### (4) Dissolved oxygen

Expected Reading ( mg/L )	Display Reading ( mg/L )	Tolerance	Result
7.88	7.70	-0.18	Satisfactory
4.52	5.00	0.48	Satisfactory
1.43	1.00	-0.43	Satisfactory
0.00	0.03	0.03	Satisfactory

Tolerance of Dissolved oxygen should be less than  $\pm \ 0.5$  ( mg/L )

#### (5) Turbidity

Expected Reading (NTU)	Display Reading ( NTU )	Tolerance ( % )	Result
0	0.00		Satisfactory
10	9.80	-2.0	Satisfactory
20	19.5	-2.5	Satisfactory
100	104	4.0	Satisfactory
800	811	1.4	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 ---



## Appendix F

Water Quality Monitoring Results and Graphical Presentation



Water Quality Monitoring Location : TKW1

	Watan danth	Tempera	ture (°C)	р	H	DO (	mg/L)	DO	0(%)	Turbidit	ty (NTU)	Suspended S	olids (mg/L)
Date	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	8	16.7 16.7	16.7	7.2 7.2	7.2	2.2 2.1	2.2	22.2 21.7	22.0	11.3 12.3	11.8	1.0 3.1	2.1
8/12/2022	7	18.7 18.7	18.7	7.6 7.6	7.6	2.9 2.9	2.9	30.8 31.0	30.9	14.4 14.8	14.6	1.5 1.9	1.7
10/12/2022	8	16.7 16.7	16.7	7.6 7.6	7.6	2.4 2.4	2.4	25.1 24.5	24.8	17.9 16.5	17.2	4.4	4.4
13/12/2022	6	13.6 13.6	13.6	7.3 7.3	7.3	2.1 2.0	2.1	20.7 19.3	20.0	7.0 7.0	7.0	3.4 3.0	3.2
15/12/2022	7	16.4 16.4	16.4	8.2 8.1	8.2	2.4 2.3	2.3	23.7 23.2	23.5	14.5 14.0	14.3	7.9 7.2	7.6
17/12/2022	10	16.5 16.6	16.6	7.6 7.6	7.6	2.6 2.5	2.5	26.6 25.5	26.1	10.5 9.9	10.2	2.2 1.9	2.1
20/12/2022	11	16.4 16.4	16.4	7.6 7.6	7.6	2.7 2.7	2.7	27.6 27.6	27.6	4.3 4.2	4.2	1.7 1.8	1.8
22/12/2022	13	17.6 17.6	17.6	7.7 7.7	7.7	2.7 2.7	2.7	28.6 28.7	28.7	7.0 7.0	7.0	3.3 3.5	3.4
24/12/2022	8	16.4 16.4	16.4	7.3 7.3	7.3	2.2 2.2	2.2	22.4 22.3	22.4	4.4 4.4	4.4	4.8	4.6
26/12/2022	9	20.0 20.0	20.0	7.2 7.2	7.2	3.5 3.5	3.5	38.5 38.5	38.5	2.5 2.5	2.5	<1 1.0	1.0
28/12/2022	12	12.0 12.0	12.0	7.3 7.3	7.3	3.8 3.9	3.9	35.3 36.3	35.8	4.5 4.7	4.6	2.2 2.4	2.3
30/12/2022	15	16.7 16.7	16.7	7.0 7.0	7.0	4.3 4.3	4.3	43.9 43.9	43.9	16.1 15.7	15.9	11.0 12.0	11.5

	Water depth	Tempera	ature (°C)	р	Н	DO (	mg/L)	DC	0 (%)	Turbidit	ty (NTU)	Suspended S	Solids (mg/L)
Date	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	19	16.2	16.2	7.2	7.2	4.1	4.0	42.2	41.2	26.2	26.5	7.1	6.4
8/12/2022	18	18.8	18.8	7.5	7.5	2.5	2.5	27.1	27.1	14.6	14.8	2.6	2.6
10/12/2022	19	17.2	17.2	7.6	7.6	2.4	2.4	24.7	25.2	19.8	19.1	4.3	4.3
13/12/2022	19	13.4	13.4	7.1	7.2	2.2	2.2	21.2	21.1	6.2	6.3	3.9	3.6
15/12/2022	21	15.4	15.4	8.1	8.1	2.8	2.8	28.3	28.3	25.1	25.1	5.3	5.2
17/12/2022	20	17.5	17.5	7.6	7.6	2.3	2.3	23.7	23.7	7.4	7.5	4.1	4.1
20/12/2022	18	16.5	16.5	7.6	7.6	2.5	2.5	25.5	25.5	5.0	4.9	2.8	2.9
22/12/2022	19	17.9	17.8	7.6	7.6	2.4	2.4	25.5 25.4	25.5	6.6	6.7	2.9	3.0
24/12/2022	17	16.5	16.4	7.3	7.2	2.5	2.5	25.4	25.9	9.1	9.0	3.1	3.0
26/12/2022	18	19.9	19.9	7.3	7.3	3.8	3.9	42.1	42.7	3.3	3.3	1.9 2.0	2.0
28/12/2022	18	11.2	11.2	7.2	7.2	3.5	3.5	31.7	31.8	4.6	4.6	3.1	3.2
30/12/2022	18	16.8	16.8	7.2	7.2	4.2	4.2	43.7	43.7	15.7	15.9	7.1	7.4

Water Quality	Monitoring I	Location : U	U1										
Date	Water depth	Tempera	ature (°C)	р	Н	DO (	mg/L)	DO	(%)	Turbidit	ty (NTU)	Suspended S	olids (mg/L)
Date	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	3	15.9 15.9	15.9	7.9 7.9	7.9	7.2 7.3	7.2	72.9 73.6	73.3	17.0 17.9	17.5	1.2 1.7	1.5
8/12/2022	4	17.2 12.2	14.7	8.0 8.0	8.0	7.2 7.3	7.3	75.0 75.9	75.5	21.0 20.4	20.7	8.9 7.4	8.2
10/12/2022	3	13.1 13.1	13.1	7.5 7.5	7.5	7.6 7.5	7.5	71.9 71.4	71.7	14.5 15.2	14.9	3.4	3.8
13/12/2022	3	12.9 13.0	13.0	7.2 7.2	7.2	4.4 4.3	4.3	41.4 40.5	41.0	10.0 10.2	10.1	98.0 77.0	87.5
15/12/2022	3	14.7 14.7	14.7	8.0 8.0	8.0	4.4 4.8	4.6	43.3 46.9	45.1	9.0 8.8	8.9	7.1	7.1
17/12/2022	5	12.3 12.3	12.3	8.1 8.7	8.4	3.0 3.1	3.1	28.2 29.2	28.7	12.6	12.9	5.2 3.7	4.5
20/12/2022	3	15.9 15.9	15.9	7.3 7.3	7.3	7.2	7.1	72.2 71.5	71.9	7.9 7.8	7.8	4.8	4.8
22/12/2022	4	17.2 17.2	17.2	8.0 8.0	8.0	7.5 7.5	7.5	78.3 78.3	78.3	5.1 5.1	5.1	5.1 4.9	5.0
24/12/2022	4	16.8 16.8	16.8	7.7 7.6	7.6	6.7 6.8	6.8	69.4 70.5	70.0	4.4	4.4	4.7	5.0
26/12/2022	3	17.9 18.0	17.9	7.4 7.4	7.4	5.6 5.7	11.0	58.9 60.3	59.6	4.5 4.4	4.4	3.3 3.4	3.4
28/12/2022	3	12.7 12.7	12.7	6.8 6.8	6.8	3.5 3.4	3.4	32.8 32.1	32.5	5.0 5.0	5.0	3.4 3.7	3.6
30/12/2022	3	16.3 16.3	16.3	7.8 7.8	7.8	5.2 5.1	5.2	53.4 52.2	52.8	16.1 4.2	10.1	2.2 2.3	2.3

#### Water Quality Monitoring Location : SW

Date	Water depth	Tempera	ature (°C)	р	Н	DO (	mg/L)	DC	(%)	Turbidi	ty (NTU)	Suspended S	Solids (mg/L)
Dute	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	8	16.5 3.2	9.9	7.2	7.2	3.7 3.7	3.7	37.6 37.5	37.6	13.9 12.3	13.1	16.0 11.0	13.5
8/12/2022	10	18.8	18.8	7.5	7.5	4.3	4.3	46.4	46.6	22.1	22.3	8.2	7.4
10/12/2022	9	17.2	17.2	7.8	7.8	2.2	2.3	23.3	23.9	20.5	20.9	4.0	4.4
13/12/2022	9	13.3	13.3	7.2	7.2	2.0	2.0	19.2	18.9	7.5	7.5	3.6	3.8
15/12/2022	12	15.8	15.8	8.2 8.2	8.2	3.6	3.6	36.4 36.4	36.4	15.6 15.9	15.8	8.6 8.8	8.7
17/12/2022	15	15.1	15.1	7.8	7.8	3.6	3.6	35.8 35.8	35.8	20.8	20.8	1.4	1.4
20/12/2022	10	16.2 16.2	16.2	7.6 7.6	7.6	3.2 3.4	3.3	32.7 34.1	33.4	2.8 3.0	2.9	2.9 2.5	2.7
22/12/2022	9	17.3 17.3	17.3	7.6 7.6	7.6	3.6 3.6	3.6	37.9 37.9	37.9	4.0 4.1	4.1	2.8 2.7	2.8
24/12/2022	9	16.7 16.7	16.7	7.2 7.2	7.2	3.6 3.6	3.6	37.0 37.1	37.1	4.3 4.2	4.3	3.0 2.8	2.9
26/12/2022	10	20.1 20.0	20.0	7.1 7.1	7.1	4.3 4.4	4.4	47.8 48.8	48.3	3.0 3.0	3.0	5.3 4.9	5.1
28/12/2022	11	9.5 9.4	9.5	7.4 7.3	7.3	4.9 4.8	4.9	43.1 42.2	42.7	5.8 6.0	5.9	5.9 5.8	5.9
30/12/2022	9	16.6 16.6	16.6	7.1	7.1	4.3 4.3	4.3	44.5 44.5	44.5	4.3 4.3	4.3	<1 <1	1.0

#### Water Quality Monitoring Location : U2

	Water depth	Tempera	ture (°C)	р	Н	DO (	mg/L)	DO	(%)	Turbidi	ty (NTU)	Suspended S	olids (mg/L)
Date	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	28	15.6 15.5	15.6	7.2 7.3	7.3	7.7 7.8	7.8	77.7 78.4	78.1	13.8 13.7	13.8	1.5 1.4	1.5
8/12/2022	33	16.8 16.8	16.8	7.6 7.5	7.5	5.8 5.8	5.8	59.8 59.2	59.5	18.7 18.0	18.4	3.2 2.8	3.0
10/12/2022	26	14.7 14.7	14.7	7.7 7.7	7.7	7.6 7.7	7.6	75.0 75.4	75.2	14.0 13.1	13.6	1.3 2.9	2.1
13/12/2022	28	13.6 13.4	13.5	6.9 7.0	6.9	2.5 2.4	2.5	24.3 23.5	23.9	5.7 5.7	5.7	3.4 3.6	3.5
15/12/2022	23	14.8 14.8	14.8	7.7 7.7	7.7	8.1 8.1	8.1	80.1 80.1	80.1	4.8 4.6	4.7	1.0 1.6	1.3
17/12/2022	32	14.3 14.3	14.3	7.5 7.5	7.5	5.7 5.8	5.7	55.9 56.2	56.1	3.9 3.9	3.9	1.0 1.2	1.1
20/12/2022	29	16.0 16.0	16.0	7.3 7.3	7.3	7.2 7.2	7.2	73.2 73.1	73.2	4.7 4.6	4.6	1.7 2.0	1.9
22/12/2022	30	16.3 16.3	16.3	7.3 7.3	7.3	7.3 7.3	7.3	74.6 74.6	74.6	3.8 3.7	3.8	1.9 1.9	1.9
24/12/2022	32	16.5 16.9	16.7	7.3 7.3	7.3	7.1 7.0	7.0	72.8 71.0	71.9	4.9 5.1	5.0	2.1 2.0	2.1
26/12/2022	30	17.8 17.9	17.8	6.9 6.9	6.9	6.1 6.1	6.1	64.6 64.6	64.6	6.8 6.7	6.7	4.2 4.2	4.2
28/12/2022	31	11.5 11.5	11.5	7.0	7.0	6.7 6.8	6.8	61.7 62.5	62.1	4.8 4.7	4.8	1.6 1.7	1.7
30/12/2022	28	16.5 16.5	16.5	7.2 7.2	7.2	6.7 6.8	6.7	68.2 69.2	68.7	4.0 3.8	3.9	1.9 1.7	1.8

D .	Water depth	Tempera	ature (°C)	р	Н	DO (	mg/L)	DC	(%)	Turbidit	ty (NTU)	Suspended S	Solids (mg/L)
Date	(cm)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
6/12/2022	5	16.4	16.4	7.3	7.3	2.2	2.2	22.1	22.8	13.0	12.5	3.5	3.4
	-	16.4		7.3		2.3		23.5		12.0		3.3	
8/12/2022	8	17.9	17.8	7.6	7.6	2.5	2.5	26.7	26.1	11.0	11.2	1.6	1.6
		17.8		7.6		2.4		25.5		11.4		1.6	
10/12/2022	6	17.2	17.2	7.8	7.8	2.2	2.3	23.3	23.8	20.5	19.5	1.5	1.3
		17.2		7.7		2.3		24.3		73		8.3	
13/12/2022	9	13.1	13.1	7.4	7.4	2.1	2.1	19.9	20.3	7.4	7.3	7.3	7.8
15/12/2022	0	16.0	16.0	8.0	0.0	2.4	2.4	23.9	22.0	31.6	21.4	8.3	0.0
15/12/2022	8	16.0	16.0	8.0	8.0	2.4	2.4	23.9	23.9	31.2	51.4	7.6	8.0
17/12/2022	5	14.8	14.8	7.7	77	2.3	23	22.6	22.7	7.9	7.8	3.4	3.4
11112/2022	5	14.8	14.0	7.7	,.,	2.3	2.5	22.7	22.7	7.7	7.0	3.3	5.4
20/12/2022	4	16.4	16.4	7.7	7.7	2.3	2.3	23.7	23.7	2.5	2.5	2.1	2.3
		16.4		7.6		2.3		23.6		2.5		2.5	
22/12/2022	6	17.5	17.4	7.6	7.6	2.4	2.4	24.9	24.9	3.1	3.0	2.2	2.3
		17.4		7.0		2.4		24.9		3.0		2.3	
24/12/2022	6	17.0	17.0	7.5	7.5	2.4	2.4	24.5	24.5	10.1	10.2	2.2	2.5
	_	18.8		7.4		5.8		61.7		1.2		1.7	
26/12/2022	7	18.8	18.8	7.4	7.4	5.8	5.8	61.9	61.8	1.3	1.3	1.9	1.8
28/12/2022	5	11.9	11.0	7.2	7.2	3.9	2.0	35.9	25.0	4.3	4.2	4.1	4.0
20/12/2022	3	11.8	11.9	7.2	1.2	3.9	5.9	35.8	55.9	4.3	4.3	3.9	4.0
30/12/2022	5	16.9	16.9	7.2	7.2	3.2	3.2	33.2	33.2	5.0	5.0	4.8	49
200100000	5	16.9		7.2		3.2		33.2	2.512	5.1	2.0	5.0	



#### Monitoring Location: TKW1











Monitoring Location: TKW











Monitoring Location: U1











Monitoring Location: SW











Monitoring Location: U2











Monitoring Location: HT











## Appendix G

## Quality Control Report for Suspended Solids

# acumen

## Acumen Laboratory and Testing Limited

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## Appendix - Quality Control Summary Table

Project Name: Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works

		Method Bla	nk Report	Du	uplicate Report		Sample Spil	ke Report	
		MDL	Result	Original Result	Duplicate Result	RPD	Spike concentration	Spike Recovery	Pass / Fail
Sampling Date	Job No.	mg/L	mg/L	mg/L	mg/L	%	mg/L	%	/
06/12/2022	R221930	0.22	0.15	4.64	4.83	-4.0	10	94.2	Pass
08/12/2022	R221940	0.22	0.07	5.13	5.41	-5.3	10	94.9	Pass
10/12/2022	R221946	0.22	0.08	4.94	5.20	-5.1	10	94.9	Pass
13/12/2022	R221970	0.22	0.11	5.38	5.58	-3.6	10	96.6	Pass
15/12/2022	R221980	0.22	0.05	4.47	4.32	3.4	10	97.6	Pass
17/12/2022	R221981	0.22	0.09	5.34	5.69	-6.4	10	94.7	Pass
20/12/2022	R221999	0.22	0.10	4.98	4.72	5.4	10	94.6	Pass
22/12/2022	R222000	0.22	0.08	4.38	4.55	-3.8	10	95.8	Pass
24/12/2022	R222025	0.22	0.07	4.90	4.81	1.8	10	92.1	Pass
26/12/2022	R222076	0.22	0.05	4.67	4.53	3.0	10	97.0	Pass
28/12/2022	R222077	0.22	0.09	4.76	4.94	-3.7	10	96.0	Pass
30/12/2022	R222089	0.22	0.08	4.90	4.83	1.4	10	98.9	Pass



# Appendix H Event and Action Plan



#### Table H1Event and Action Plan for Water Quality

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



Essent		A	Action						
Event	ET Leader	IEC	ER	Contractor					
Limit Level									
Limit level being exceeded by one sampling day	<ul> <li>Repeat in-situ measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC and Contractor;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit Level.</li> </ul>	<ul> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ul>	<ul> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ul>	<ul> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</li> <li>Implement the agreed mitigation measures.</li> </ul>					
Limit level being exceeded by more than one consecutive sampling days	<ul> <li>Repeat in-situ measurement to confirm findings;</li> <li>Identify source(s) of impact;</li> <li>Inform IEC, Contractor and EPD;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss mitigation measures with IEC, ER and Contractor;</li> <li>Ensure mitigation measures are implemented;</li> <li>Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days</li> </ul>	<ul> <li>Discuss with ET and Contractor on the mitigation measures;</li> <li>Review proposals on mitigation measures submitted by Contractor and advise the ER accordingly;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> </ul>	<ul> <li>Discuss with IEC, ET and Contractor on the proposed mitigation measures;</li> <li>Request Contractor to critically review the working methods;</li> <li>Make agreement on the mitigation measures to be implemented;</li> <li>Assess the effectiveness of the implemented mitigation measures.</li> <li>Consider and instruct, if necessary the Contractor to slow down or to stop all or part of the marine work</li> </ul>	<ul> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and propose mitigation measures to IEC and ER within 3 working days;</li> <li>Implement the agreed mitigation measures.</li> </ul>					



Event		ction		
Event	ET Leader	IEC	ER	Contractor
			until no exceedance if Limit Level.	• As directed by the ER, to slow down or to stop all or part of the marine work or construction activities.


	Table H2	<b>Event/Action</b>	Plan for	Landscar	e and Visual
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Event		Ad	ction	
Event	ET	IEC	ER	Contractor
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	<ol> <li>Check report.</li> <li>Recommend remedial design if necessary.</li> </ol>	1. Undertake remedial design if necessary.	-
Nonconformity on one occasion	<ol> <li>Inform the IEC, ER and the Contractor</li> <li>Discuss remedial actions with IEC, ER and Contractor</li> <li>Monitor remedial actions until rectification has been completed</li> </ol>	<ol> <li>Check inspection report.</li> <li>Check Contractor's working method</li> <li>Discuss with ET, ER and Contractor on possible remedial measures.</li> <li>Advise ER on effective of proposed remedial measures.</li> <li>Check implementation of remedial measures</li> </ol>	<ol> <li>Confirm receipt of notification of nonconformity in writing</li> <li>Review and agree on the remedial measures proposed by the Contractor</li> <li>Ensure remedial measures are properly implemented</li> </ol>	<ol> <li>Identify source and investigate the nonconformity</li> <li>Amend working methods agreed with ER as appropriate</li> <li>Rectify damage and undertake any necessary replacement</li> </ol>
Repeated nonconformity	<ol> <li>Identify sources</li> <li>Inform the Contractor, IEC and ER</li> <li>Discuss inspection frequency</li> <li>Discuss remedial actions with IEC, ER and Contractor</li> <li>Monitor remedial actions until rectification has been completed</li> <li>If nonconformity stops, cease additional monitoring</li> </ol>	<ol> <li>Check inspection report</li> <li>Check Contractor's working method</li> <li>Discuss with ET, ER and Contractor on possible remedial measures</li> <li>Advise ER on effectiveness of proposed remedial measures</li> </ol>	<ol> <li>Notify the Contractor</li> <li>In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented</li> <li>Supervise implementation of remedial measures</li> </ol>	<ol> <li>Identify source and investigate the nonconformity</li> <li>Amend working methods agreed with ER as appropriate</li> <li>Rectify damage and undertake any necessary replacement.</li> <li>Stop relevant portion of works as determined by ER until the nonconformity is abated.</li> </ol>



### Appendix I

### Waste Generation in the Reporting Month



	Actual Quantities of Inert C&D Materials Generated Monthly					hly	Actual Quantities of C&D Wastes Generated Monthly				/lonthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete ^1	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 '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.000	0.000	0.000	0.000	0.000	0.000	9.400	0.000	0.000	0.000	0.047
Feb	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.026
Mar	0.076	0.000	0.000	0.000	0.076	0.000	0.000	0.000	0.000	0.000	0.002
Apr	0.081	0.000	0.000	0.000	0.081	0.000	0.000	0.000	0.000	0.000	0.012
May	0.028	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.028
Jun	0.000	0.000	0.000	0.000	0.000	0.277	1.240	0.000	0.000	0.000	0.015
SUB-TOTAL	0.185	0.000	0.000	0.000	0.157	0.277	10.640	0.000	0.000	0.000	0.130
Jul	0.000	0.000	0.000	0.000	0.000	0.448	0.000	0.000	0.000	0.000	0.006
Aug	0.000	0.000	0.000	0.000	0.000	0.246	0.000	0.000	0.000	0.000	0.006
Sep	0.027	0.000	0.000	0.000	0.027	2.328	0.000	0.000	0.000	0.000	0.010
Oct	0.000	0.000	0.000	0.000	0.000	11.630	0.000	0.000	0.000	0.000	0.013
Nov	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.045
Dec	0.000	0.000	0.000	0.000	0.000	0.070	0.000	0.080	0.000	0.000	0.027
TOTAL	0.212	0.000	0.000	0.000	0.184	15.010	10.640	0.080	0.000	0.000	0.237

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



### Appendix J

Summary of Complaint, Notification of summons and Prosecution



Statistical Summary of Environmental Complaints

Departing Devia d	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
6 – 31 December 2022	0	0	N/A		

#### Statistical Summary of Environmental Summons

Description Devied	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
6 – 31 December 2022	0	0	N/A		

#### Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
6 – 31 December 2022	0	0	N/A		



### Appendix K

## Summary of Submission Status under Environmental Permit



### Submission Status Under Environmental Permit EP-528/2017

EP Condition	Title of Submission	Submission Status
2.3	Management Organization of Main Construction Companies	Informed the Direct of EPD on 17 October 2022
2.4	Updated Environmental Monitoring and Audit Manual	23 April 2022 (1 <sup>st</sup> Submission)
2.5	Location Plans	Submitted to the Supervisor for review.
2.6	Supplementary Contamination Assessment Plan (CAP)	25 Feb 2022 (1 <sup>st</sup> Submission)
2.7	Landscape and Visual Mitigation Plan	To be submitted one month before the commencement of the corresponding parts of landscape and visual mitigation measures.



### Appendix L

### Laboratory Report for Suspended Solids

### Acumen Laboratory and Testing Limited

Tel: (852) 2333 6823 Fax: (852) 2333 1316

		<u>Test Report</u>	
Report Number	:	Q220003aR221930	Page 1 of 3
Job Number	:	R221930	
Issue Date	:	08/12/2022	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong S	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stag	e 1 Works
Test Required	:	Total Suspended Solids (TSS)	
Sampling Date	:	06/12/2022	
Date Samples Received	:	06/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	•	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R221930/1 – 12	
Test Period	:	06/12/2022 – 07/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3. :

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Hunting

Laboratory Manager Chemical and Microbiological Division

### Acumen Laboratory and Testing Limited

Tel: (852) 2333 6823 Fax: (852) 2333 1316 TEST



Page 2 of 3

**Test Report** 

Report Number	:	Q220003aR221930
Job Number	:	R221930

**Issue Date** 08/12/2022

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221930/1	06/12/2022	U2	1.5
R221930/2	06/12/2022	U2#	1.4
R221930/3	06/12/2022	U1	1.2
R221930/4	06/12/2022	U1#	1.7
R221930/5	06/12/2022	SW	16
R221930/6	06/12/2022	SW#	11
R221930/7	06/12/2022	НТ	3.5
R221930/8	06/12/2022	HT#	3.3
R221930/9	06/12/2022	TKW1	<1
R221930/10	06/12/2022	TKW1#	3.1
R221930/11	06/12/2022	ТКѠ	7.1
R221930/12	06/12/2022	TKW#	5.7

### Acumen Laboratory and Testing Limited

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Page 3 of 3

#### **Test Report**

Report Number	:	Q220003aR2219	30
Report Rumber		QZZUUUSAR	2219

Job Number R221930 :

Issue Date • 08/12/2022

Note:

- mg/L indicates milligram per liter 1.
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. 5. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. 7. The result(s) relate only to the item(s) tested.
- The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

### Acumen Laboratory and Testing Limited

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Test Report

Report Number	:	Q220003aR221940	Page 1 of 3
Job Number	:	R221940	
Issue Date	:	13/12/2022	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stag	je 1 Works
Test Required	:	Total Suspended Solids (TSS)	
Sampling Date	:	08/12/2022	
Date Samples Received	:	08/12/2022	
Sample Nature	•	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R221940/1 – 12	
Test Period	:	08/12/2022 – 09/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

**Test Result** 

: Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

Chemical and Microbiological Division

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Report Number	:	Q220003aR221940
Job Number	:	R221940

**Issue Date** 13/12/2022 •

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221940/1	08/12/2022	U2	3.2
R221940/2	08/12/2022	U2#	2.8
R221940/3	08/12/2022	U1	8.9
R221940/4	08/12/2022	U1#	7.4
R221940/5	08/12/2022	SW	8.2
R221940/6	08/12/2022	SW#	6.5
R221940/7	08/12/2022	HT	1.6
R221940/8	08/12/2022	HT#	1.6
R221940/9	08/12/2022	TKW1	1.5
R221940/10	08/12/2022	TKW1#	1.9
R221940/11	08/12/2022	ТКМ	2.6
R221940/12	08/12/2022	TKW#	2.5

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#### **Test Report**

Report Number	:	Q220003aR221940
Job Number	:	R221940
Issue Date	:	13/12/2022

Note:

#### mg/L indicates milligram per liter 1.

- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- 5. Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested.
- The result(s) are applied only to the sample(s) received. 7

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**Test Report** 

Report Number	:	Q220003aR221946	Page 1 of 3
Job Number	:	R221946	
Issue Date	ŧ	16/12/2022	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong S	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stage	e 1 Works
Test Required	:	Total Suspended Solids (TSS)	
Sampling Date	:	10/12/2022	
Date Samples Received	:	10/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received		12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R221946/1 – 12	
Test Period	:	10/12/2022 – 11/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

**Test Result** 

: Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington Laboratory Manager

•

Chemical and Microbiological Division

### Acumen Laboratory and Testing Limited

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Page 2 of 3

Test Report

Report Number		Q220003aR221946
Job Number	:	R221946
Issue Date	:	16/12/2022

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221946/1	10/12/2022	U2	1.3
R221946/2	10/12/2022	U2#	2.9
R221946/3	10/12/2022	U1	3.4
R221946/4	10/12/2022	U1#	4.1
R221946/5	10/12/2022	SW	4.0
R221946/6	10/12/2022	SW#	4.7
R221946/7	10/12/2022	HT	1.5
R221946/8	10/12/2022	HT#	1.0
R221946/9	10/12/2022	TKW1	4.4
R221946/10	10/12/2022	TKW1#	4.4
R221946/11	10/12/2022	TKW	4.3
R221946/12	10/12/2022	TKW#	4.2

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#### Test Report

Q220003aR221946
QZZU

Job Number : R221946

Issue Date : 16/12/2022

Note:

- 1. mg/L indicates milligram per liter
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- Reporting limit is 1 mg/L for 2.5L sample
- 5. Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested.
- The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

### Acumen Laboratory and Testing Limited

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TEST



Test Result

Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

Chemical and Microbiological Division

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Report Number	:	Q220003aR221970
Job Number	•	R221970

16/12/2022 Issue Date •

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221970/1	13/12/2022	U2	3.4
R221970/2	13/12/2022	U2#	3.6
R221970/3	13/12/2022	U1	98
R221970/4	13/12/2022	U1#	77
R221970/5	13/12/2022	SW	3.6
R221970/6	13/12/2022	SW#	3.9
R221970/7	13/12/2022	НТ	8.3
R221970/8	13/12/2022	HT#	7.3
R221970/9	13/12/2022	TKW1	3.4
R221970/10	13/12/2022	TKW1#	3.0
R221970/11	13/12/2022	ТКѠ	3.9
R221970/12	13/12/2022	TKW#	3.2

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#### **Test Report**

Report Number	:	Q220003aR221970
Job Number	:	R221970
Issue Date	:	16/12/2022

Note:

- mg/L indicates milligram per liter 1.
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested. 7.
- The result(s) are applied only to the sample(s) received.

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Test Report

Report Number	:	Q220003aR221980	Page 1 of 3
Job Number	:	R221980	
Issue Date	:	20/12/2022	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Sta	ge 1 Works
Test Required	:	Total Suspended Solids (TSS)	- Allow - San Chronig Bullio Ballor
Sampling Date	:	15/12/2022	
Date Samples Received	:	15/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R221980/1 – 12	
Test Period	:	15/12/2022 – 16/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3.

For and on behalf of

Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington Laboratory Manager

Chemical and Microbiological Division

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Page 2 of 3

Test Report

Report Number : Q220003aR221980

Job Number : R221980

Issue Date : 20/12/2022

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221980/1	15/12/2022	U2	<1
R221980/2	15/12/2022	U2#	1.6
R221980/3	15/12/2022	U1	7.1
R221980/4	15/12/2022	U1#	7.1
R221980/5	15/12/2022	SW	8.6
R221980/6	15/12/2022	SW#	8.8
R221980/7	15/12/2022	НТ	8.3
R221980/8	15/12/2022	HT#	7.6
R221980/9	15/12/2022	TKW1	7.9
R221980/10	15/12/2022	TKW1#	7.2
R221980/11	15/12/2022	ткw	5.3
R221980/12	15/12/2022	TKW#	5.1

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Page 3 of 3

#### **Test Report**

Report Number	:	Q220003aR221980	

Job Number R221980 :

Issue Date 20/12/2022

Note:

- mg/L indicates milligram per liter 1.
- < indicates less than. 2.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant. 5.
- 6. 7. The result(s) relate only to the item(s) tested.
- The result(s) are applied only to the sample(s) received.

#### \*\*\*End of Report\*\*\*

### Acumen Laboratory and Testing Limited

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AS 241

**Test Report** Page 1 of 3 **Report Number** Q220003aR221981 • Job Number R221981 • **Issue Date** 20/12/2022 **Applicant Name** Acuity Sustainability Consulting Limited Applicant Address Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong **Project Name** Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works **Test Required** Total Suspended Solids (TSS) Sampling Date 17/12/2022 Date Samples Received 17/12/2022 Sample Nature Wastewater Number of Samples Received 12 **Condition Received** Sample(s) arrived laboratory in chilled condition Type of Container **HDPE Plastic Bottles** Laboratory ID R221981/1 - 12 Test Period 17/12/2022 - 18/12/2022 Method Used APHA 23ed 2540D for Total Suspended Solids

Test Result

Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

Chemical and Microbiological Division

Acumen Laboratory and Testing Limited Flat/Rm D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong Tel: (852) 2333 6823 Fax: (852) 2333 1316

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1000		P • • •

Report Number	:	Q220003aR221981

Job Number R221981 :

20/12/2022 **Issue Date** :

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221981/1	17/12/2022	U2	1.0
R221981/2	17/12/2022	U2#	1.2
R221981/3	17/12/2022	U1	5.2
R221981/4	17/12/2022	U1#	3.7
R221981/5	17/12/2022	SW	1.4
R221981/6	17/12/2022	SW#	1.3
R221981/7	17/12/2022	HT	3.4
R221981/8	17/12/2022	HT#	3.3
R221981/9	17/12/2022	TKW1	2.2
R221981/10	17/12/2022	TKW1#	1.9
R221981/11	17/12/2022	ткw	4.1
R221981/12	17/12/2022	TKW#	4.1

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### Acumen Laboratory and Testing Limited

Flat/Rm D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong HIKLAS 241 Tel: (852) 2333 6823 Fax: (852) 2333 1316

#### Test Report

Report Number	:	Q220003aR221981
Job Number	:	R221981
Issue Date	:	20/12/2022

Note:

- 1. mg/L indicates milligram per liter
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested.
- 7. The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

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Page 3 of 3

### Acumen Laboratory and Testing Limited

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Tel: (852) 2333 6823 Fax: (852) 2333 1316

		<u>Test Report</u>	
Report Number	:	Q220003aR221999	Page 1
Job Number	:	R221999	
Issue Date	:	28/12/2022	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Sta	ge 1 Works
Test Required	:	Total Suspended Solids (TSS)	
Sampling Date	•	20/12/2022	
Date Samples Received	:	20/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R221999/1 – 12	
Test Period	:	20/12/2022 – 21/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager Chemical and Microbiological Division

Hong Kong Accreditation Service (HKAS) has accredited Acumen Laboratory and Testing Limited (Reg. No. HOKLAS 241 - TEST) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report is issued subject to Acumen Laboratory and Testing Limited standard TERMS AND CONDITIONS, and shall not be reproduced except in full or with written approval by Acumen Laboratory and Testing Limited.



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Fax: (852) 2333 1316 Tel: (852) 2333 6823

#### **Test Report**

Q220003aR221999 **Report Number** •

R221999 Job Number •

Issue Date 28/12/2022 :

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R221999/1	20/12/2022	U2	1.7
R221999/2	20/12/2022	U2#	2.0
R221999/3	20/12/2022	U1	4.8
R221999/4	20/12/2022	U1#	4.7
R221999/5	20/12/2022	SW	2.9
R221999/6	20/12/2022	SW#	2.5
R221999/7	20/12/2022	НТ	2.1
R221999/8	20/12/2022	HT#	2.5
R221999/9	20/12/2022	TKW1	1.7
R221999/10	20/12/2022	TKW1#	1.8
R221999/11	20/12/2022	TKW	2.8
R221999/12	20/12/2022	TKW#	2.9

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#### **Test Report**

Report Number	:	Q220003aR221999
Job Number	:	R221999
Issue Date	•	28/12/2022

Note:

- 1. mg/L indicates milligram per liter
- 2. < indicates less than.
- Reporting limit is 2.5mg/L for 1L sample
- 3. 4. Reporting limit is 1 mg/L for 2.5L sample
- 5. Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested.
- 7. The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

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Acumen Laboratory and Testing Limited

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Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report			
Report Number	:	Q220003aR222000 Page 1 of	
Job Number	:	R222000	
Issue Date	:	28/12/2022	
Applicant Name		Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street,	
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works	
Test Required	÷	Total Suspended Solids (TSS)	
Sampling Date	:	22/12/2022	
Date Samples Received	:	22/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R222000/1 – 12	
Test Period	:	22/12/2022 – 23/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

Chemical and Microbiological Division

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ng	HOKLAS 241 TEST

Page 2 of 3

#### Test Report

Report Number	:	Q220003aR222000	

Job Number : R222000

Issue Date : 28/12/2022

#### Test Result:

Lab ID	Sampling Date	Sampling Date Client Sample ID (TSS)	
R222000/1	22/12/2022	U2	1.9
R222000/2	22/12/2022	U2#	1.9
R222000/3	22/12/2022	U1	5.1
R222000/4	22/12/2022	U1#	4.9
R222000/5	22/12/2022	SW	2.8
R222000/6	22/12/2022	SW#	2.7
R222000/7	22/12/2022	НТ	2.2
R222000/8	22/12/2022	HT#	2.3
R222000/9	22/12/2022	TKW1	3.3
R222000/10	22/12/2022	TKW1#	3.5
R222000/11	22/12/2022	ТКМ	2.9
R222000/12	22/12/2022	TKW#	3.0

Acumen Laboratory and Testing Limited Tel: (852) 2333 6823 Fax: (852) 2333 1316 TEST

#### **Test Report**

Page 3 of 3

:	Q220003aR222000
:	R222000
:	28/12/2022
	: : :

Note:

- mg/L indicates milligram per liter 1.
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant. 5.
- 6. The result(s) relate only to the item(s) tested.
- 7. The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

### Acumen Laboratory and Testing Limited

Flat/Rm D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong HIKL Tel: (852) 2333 6823 Fax: (852) 2333 1316

Test Report

		Dogo 1 of 2
Report Number	• :	Q220003aR222025
Job Number	:	R222025
Issue Date	:	29/12/2022
Applicant Name	:	Acuity Sustainability Consulting Limited
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street,
		Cheung Sha Wan, Kowloon, Hong Kong
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works
Test Required	:	Total Suspended Solids (TSS)
Sampling Date	:	24/12/2022
Date Samples Received	:	24/12/2022
Sample Nature	:	Wastewater
Number of Samples Received	:	12
Condition Received	:	Sample(s) arrived laboratory in chilled condition
Type of Container	:	HDPE Plastic Bottles
Laboratory ID	:	R222025/1 – 12
Test Period	:	24/12/2022 – 26/12/2022
Method Used	:	APHA 23ed 2540D for Total Suspended Solids

**Test Result** 

: Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington Laboratory Manager Chemical and Microbiological Division

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Page 2 of 3

#### **Test Report**

Report Number	:	Q220003aR222025
Job Number	:	R222025
Issue Date	:	29/12/2022

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R222025/1	24/12/2022	U2	2.1
R222025/2	24/12/2022	U2#	2.0
R222025/3	24/12/2022	U1	4.7
R222025/4	24/12/2022	U1#	5.2
R222025/5	24/12/2022	SW	3.0
R222025/6	24/12/2022	SW#	2.8
R222025/7	24/12/2022	НТ	2.2
R222025/8	24/12/2022	HT#	2.8
R222025/9	24/12/2022	TKW1	4.8
R222025/10	24/12/2022	TKW1#	4.4
R222025/11	24/12/2022	ТКѠ	3.1
R222025/12	24/12/2022	TKW#	2.8

### Acumen Laboratory and Testing Limited

Tel: (852) 2333 6823 Fax: (852) 2333 1316

		Test Report	
Report Number	: Q220003aR222025		Page 3 of 3
Job Number	:	R222025	
Issue Date	:	29/12/2022	

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#### Note:

- mg/L indicates milligram per liter 1.
- 2. < indicates less than.
- Reporting limit is 2.5mg/L for 1L sample Reporting limit is 1 mg/L for 2.5L sample 3.
- 4.
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant. 5.
- 6. The result(s) relate only to the item(s) tested.
- 7 The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

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### Acumen Laboratory and Testing Limited

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Flat/Rm D, 12/F, Ford Glory Plaza, Nos. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong HIKLAG Tel: (852) 2333 6823 Fax: (852) 2333 1316

**Test Report** Page 1 of 3 **Report Number** : Q220003aR222076 Job Number R222076 • Issue Date 30/12/2022 • **Applicant Name** Acuity Sustainability Consulting Limited **Applicant Address** Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong Street, Cheung Sha Wan, Kowloon, Hong Kong **Project Name** Hung Shui Kiu/Ha Tsuen New Development Area Stage 1 Works • **Test Required** Total Suspended Solids (TSS) Sampling Date 26/12/2022 **Date Samples Received** 26/12/2022 Sample Nature Wastewater Number of Samples Received 12 : Condition Received Sample(s) arrived laboratory in chilled condition Type of Container **HDPE Plastic Bottles** Laboratory ID R222076/1 - 12 Test Period 26/12/2022 - 27/12/2022 Method Used • APHA 23ed 2540D for Total Suspended Solids

Test Result

Refer to the results on page 2 - 3.

For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington Laboratory Manager

Chemical and Microbiological Division
## Acumen Laboratory and Testing Limited

Tel: (852) 2333 6823 Fax: (852) 2333 1316 TEST

Test Report

Report Number	:	Q220003aR222076
Job Number	:	R222076
Issue Date		30/12/2022

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R222076/1	26/12/2022	U2	4.2
R222076/2	26/12/2022	U2#	4.2
R222076/3	26/12/2022	U1	3.3
R222076/4	26/12/2022	U1#	3.4
R222076/5	26/12/2022	SW	5.3
R222076/6	26/12/2022	SW#	4.9
R222076/7	26/12/2022	HT	1.7
R222076/8	26/12/2022	HT#	1.9
R222076/9	26/12/2022	TKW1	1.0
R222076/10	26/12/2022	TKW1#	<1
R222076/11	26/12/2022	TKW	1.9
R222076/12	26/12/2022	TKW#	2.0

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	n	)0	er	ĸ	est		

Report Number	:	Q220003aR222076
Job Number	:	R222076
Issue Date	:	30/12/2022

Note:

- 1. mg/L indicates milligram per liter
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- 5. Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant.
- 6. The result(s) relate only to the item(s) tested.
- 7. The result(s) are applied only to the sample(s) received.

#### \*\*\*End of Report\*\*\*

Hong Kong Accreditation Service (HKAS) has accredited Acumen Laboratory and Testing Limited (Reg. No. HOKLAS 241 - TEST) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. This report is issued subject to Acumen Laboratory and Testing Limited standard TERMS AND CONDITIONS, and shall not be reproduced except in full or with written approval by Acumen Laboratory and Testing Limited.

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#### **Test Report**

Report Number	•	Q220003aR222077	Page 1 of 3
Job Number		R222077	
Issue Date	:	04/01/2023	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	Đ
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Stag	ge 1 Works
Test Required	:	Total Suspended Solids (TSS)	-
Sampling Date	:	28/12/2022	
Date Samples Received	:	28/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R222077/1 – 12	
Test Period	:	28/12/2022 – 29/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3.

For and on behalf of

:

:

Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

Chemical and Microbiological Division

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Report Number	: Q220003aR222		
Job Number	:	R222077	

Issue Date : 04/01/2023

### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R222077/1	28/12/2022	U2	1.6
R222077/2	28/12/2022	U2#	1.7
R222077/3	28/12/2022	U1	3.4
R222077/4	28/12/2022	U1#	3.7
R222077/5	28/12/2022	SW	5.9
R222077/6	28/12/2022	SW#	5.8
R222077/7	28/12/2022	НТ	4.1
R222077/8	28/12/2022	HT#	3.9
R222077/9	28/12/2022	TKW1	2.2
R222077/10	28/12/2022	TKW1#	2.4
R222077/11	28/12/2022	ТКМ	3.1
R222077/12	28/12/2022	TKW#	3.3

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## Acumen Laboratory and Testing Limited

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## **Test Report**

Report Number	:	Q220003aR222077
Job Number	:	R222077
Issue Date	:	04/01/2023

Note:

- mg/L indicates milligram per liter 1.
- 2. < indicates less than.
- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant. 5.
- The result(s) relate only to the item(s) tested. 6.
- 7. The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

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## Acumen Laboratory and Testing Limited

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Test Report

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Report Number	:	Q220003aR222089	Page 1 of
Job Number	:	R222089	
Issue Date	:	09/01/2023	
Applicant Name	:	Acuity Sustainability Consulting Limited	
Applicant Address	:	Unit E, 12/F, Ford Glory Plaza, No. 37-39 Wing Hong	Street,
		Cheung Sha Wan, Kowloon, Hong Kong	
Project Name	:	Hung Shui Kiu/Ha Tsuen New Development Area Sta	ge 1 Works
Test Required	:	Total Suspended Solids (TSS)	
Sampling Date	:	30/12/2022	
Date Samples Received	:	30/12/2022	
Sample Nature	:	Wastewater	
Number of Samples Received	:	12	
Condition Received	:	Sample(s) arrived laboratory in chilled condition	
Type of Container	:	HDPE Plastic Bottles	
Laboratory ID	:	R222089/1 – 12	
Test Period	:	30/12/2022 - 31/12/2022	
Method Used	:	APHA 23ed 2540D for Total Suspended Solids	

Test Result

Refer to the results on page 2 - 3. :

> For and on behalf of Acumen Laboratory and Testing Limited

Authorized Signature

Hui Wai Fung, Huntington

Laboratory Manager

:

Chemical and Microbiological Division

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Page 2 of 3

#### Test Report

Report Number	:	Q220003aR222089

Job Number : R222089

Issue Date		00/01/2023
Issue Dale	•	09/01/2023

#### **Test Result:**

Lab ID	Sampling Date	Client Sample ID	Total Suspended Solids (TSS), mg/L
R222089/1	30/12/2022	U2	1.9
R222089/2	30/12/2022	U2#	1.7
R222089/3	30/12/2022	U1	2.2
R222089/4	30/12/2022	U1#	2.3
R222089/5	30/12/2022	SW	<1
R222089/6	30/12/2022	SW#	<1
R222089/7	30/12/2022	HT	4.8
R222089/8	30/12/2022	HT#	5.0
R222089/9	30/12/2022	TKW1	11
R222089/10	30/12/2022	TKW1#	12
R222089/11	30/12/2022	TKW	7.1
R222089/12	30/12/2022	TKW#	7.6

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## Acumen Laboratory and Testing Limited

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		Test Report	-		
Report Number	:	Q220003aR222089		of 3	
Job Number	:	R222089			
Issue Date	:	09/01/2023			

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#### Note:

- mg/L indicates milligram per liter 1.
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- 3. Reporting limit is 2.5mg/L for 1L sample
- 4. Reporting limit is 1 mg/L for 2.5L sample
- Applicant name, applicant address, project name, sampling date, sample ID and sample nature are provided by applicant. 5.
- The result(s) relate only to the item(s) tested. 6.
- 7. The result(s) are applied only to the sample(s) received.

\*\*\*End of Report\*\*\*

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## Appendix M

Incident Report(s) for Water Quality Monitoring Exceedance

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### **Investigation Report for Exceedances of Action Level and Limit Level of Water Quality Monitoring in December 2022**

Investigation was carried out in response to exceedances of action/limit levels during the water quality monitoring in December 2022. The following table summarized details of the exceedances and the results after investigation.

Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure									
Date	Station	Parameter (Unit)	Depth- averaged	Action	Limit	Exceedance		Investigation Desults	
			Measured Value	Level L	Level	AL	LL	mvestigation Results	
6/12 -	TKW1	DO(ma/L)	2.2	2.8	2.8		✓	When exceedances of action level (AL) and/ or	
	HT	DO (IIIg/L)	2.2	2.4	2.2	✓		results were observed, the water sampling team	
	TKW	Turbidity (NTU)	26.5	24.2	24.6		✓	had conducted repeat in situ measurements to	
	SW	SS (mg/L)	13.5	9.7	9.9		$\checkmark$	confirm findings in accordance with the corresponding Event and Action Plan. After	
8/12	SW	Turbidity (NTU)	22.3	21.4	22.9	✓		confirmation of exceedances, sampling team had	
10/12 -	TKW1	DO (mg/L)	2.4	2.8	2.8		~	taken photos of the sampling point and the surrounding environmental to identify sources of	
	TKW		2.4	2.5	2.4	~		impact. No upstream sediment plume was	
	SW		2.3	3.7	3.5		~	observed. There was no evidence to demonstrate that the water quality monitoring exceedances	
	HT		2.3	2.4	2.2	✓		were caused by the construction works from Road	
13/12 TKW 13/12 SW HT	TKW	DO (mg/L)	2.2	2.5	2.4		✓	D1 construction site.	
	SW		2.0	3.7	3.5		✓	Site investigations were carried out by the ET on	
	HT		2.1	2.4	2.2		✓	9, 16, 23 and 28 December 2022. During the meantime, the Contractor was applying effluent	
15/12 -	TKW1	DO (mg/L)	2.3	2.8	2.8		✓	discharge license for the site. No direct effluent	
	SW		3.6	3.7	3.5	✓		discharge from the site was allowed before the license was acquired. The ET did not identify any	
	HT		2.4	2.4	2.2	$\checkmark$		direct effluent discharge from the site during the	
	TKW	Turbidity (NTU)	25.1	24.2	24.6		✓	site investigations.	



Date	Station	Parameter (Unit)	Depth- averaged	Action I Level I	Limit Level	Exceedance		Investigation Results
			Measured Value			AL	LL	investigation result.
17/12	TKW1	DO (mg/L)	2.5	2.8	2.8		✓	
	TKW		2.3	2.5	2.4		✓	As there is no evidence to indicate quality monitoring results betwee
	SW		3.6	3.7	3.5	✓		December 2022 were affected
	HT		2.3	2.4	2.2	✓		activities, it is considered that the level exceedances recorded on 6, 8, 20, 22 and 24 December 2022 wer composite factors including surfa- effluent discharges from the wor storages, warehouses, private residential dwellings along th downstream of the site, as we variation of upstream water conclusion, all water quality exceedances recorded were cor project related.
	TKW1	DO (mg/L)	2.7	2.8	2.8		✓	
20/12	TKW		2.5	2.5	2.4	✓		
	SW		3.3	3.7	3.5		✓	
	HT		2.3	2.4	2.2	$\checkmark$		
22/12	TKW1	- DO (mg/L)	2.7	2.8	2.8		✓	
	TKW		2.4	2.5	2.4	✓		
	SW		3.6	3.7	3.5	✓		
	HT		2.4	2.4	2.2	✓		
24/12	TKW1	DO (mg/L)	2.2	2.8	2.8		✓	-
	SW		3.6	3.7	3.5	$\checkmark$		
	HT		2.4	2.4	2.2	$\checkmark$		

## Environmental Team for Hung Shui Kui/ Ha Tsuen New Development Area Stage 1 Works – Site Formation and Engineering Infrastructure

evidence to indicate that the water toring results between 6 and 24 022 were affected by the site considered that the Action/ Limit nces recorded on 6, 8, 10, 13, 15, 17, December 2022 were due to other tors including surface runoff and arges from the workshops, open rehouses, private toilet(s) and wellings along the catchment of the site, as well as natural upstream water quality. In all water quality monitoring recorded were considered non-

Construction activities carried out at Road D1 during the investigation period:

- Site clearance;
- Backfilling & rolling passes; ٠
- Construction of box culvert; and
- Construction of u channel. ٠



#### **Photo Records of Site Investigation:**

#### 9 December 2022





Muddy surface runoff was diverted to sump pit. No discharge of<br/>wastewater offsite was observed during site investigation.Wastewater was diverted to sump pit. No discharge of wastewater<br/>offsite was observed during site investigation.



# 23 December 2022 Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Im



## **28 December 2022** 28/12/2022 15:00 All wastewater / surface runoff was collected and diverted to sump Stockpile of dusty materials was covered properly to avoid pit. Direct effluent discharge was not allowed to be discharged from generation of muddy runoff. the site. No discharge of wastewater was observed during site inspection.

Prepared by:

Howard Chan

Certified by:

Designation

Designation:

F. C. Tsang

Environmental Team Consultant

Environmental Team Leader

Signature:

Signature:

Toang Fandbearg

Date

18 January 2023

Date:

18 January 2023





Figure 1 Location Plan of Impact Water Quality Monitoring Stations (Site activities held in December 2022 were reported in text boxes)