





## Contract No. 13/WSD/16

Mainlaying in Tseung Kwan O

# Monthly EM&A Report No. 65 (Period from 1 December to 31 December 2023)

December 2023 (Rev. 2)

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Date:	31 January 2024	31 January 2024

Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report





## **Revision History**

Rev.	DESCRIPTION OF MODIFICATION	DATE
0	1st Submission	15/01/2024
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## Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report





## **CONTENT**

1.	Executive Sur Basic Project	mmary Information	3		
2.	•	ring			
3.	Waste manag	gement	13		
4.	Landfill gas monitoring14				
5.	. Summary of Exceedance, Complaints, Notification of Summons and Prosecutions2				
6.	EM&A Site In	spection	24		
7.	Future Key Is	sues	25		
8.	Conclusion ar	nd Recommendations	26		
Αŗ	pendix A	Construction Programme			
Aŗ	pendix B	Overview of Mainlaying in Tseung Kwan O			
Aŗ	pendix C	Summary of Implementation Status of Environmental Mitigation			
Ap	pendix D	Impact Monitoring Schedule of the Reporting Month			
ΑĮ	pendix E	Noise Monitoring Equipment Calibration Certificate			
Aı	pendix F	Event/Action Plan for Noise Exceedance			
Αŗ	pendix G	Noise Monitoring Data			
Ap	pendix H	Waste Flow Table			
Ap	pendix I	Landfill Gas Monitoring Equipment Calibration Certificate			
Ap	pendix J	Landfill Gas Monitoring Data			
Ap	pendix K	Complaint Log and Regulatory Compliance Proforma			
Ap	pendix L	Site Inspection Proforma			
Αŗ	pendix M	Proactive Environmental Protection Proforma			
Ap	Appendix N Impact Monitoring Schedule of Next Reporting Month				





## **EXECUTIVE SUMMARY**

## **Introduction**

- A1. Penta-Ocean Concentric Joint Venture (POCJV) is contracted to carry out the Mainlaying in Tseung Kwan O under Contract No. 13/WSD/16 (hereinafter known as "the Project").
- A2. In accordance with the Environmental Monitoring and Audit (EM&A) Manual for the Project, EM&A works should be carried out by Environmental Team (ET), Acuity Sustainability Consulting Limited (ASCL), during the construction phase of the Project.
- A3. This is the 65<sup>th</sup> Monthly EM&A Report, prepared by ASCL, for the Project summarizing the monitoring results and audit findings of the EM&A programme at and around Tseung Kwan O (TKO) during the reporting period from 1 December to 31 December 2023.
- A4. The EM&A programme for this contract has covered environmental monitoring on construction noise level at selected NSRs and Contractor's environmental performance auditing in the aspects of construction dust, construction noise, water quality, waste management, landscape and visual and ecology.

## Summary of Main Works Undertaken & Key Mitigation Measures Implemented

A5. Key works carried out in this reporting period for the Project included the followings:

Location	Construction activities carried in the reporting month
Wan Po Road and TKO Area 137	Remains work for Chamber
	Road Reinstatement
TKO Promenade (Stage 1	Remains work for Chamber
Landfill) & Po Yap Road	Road Reinstatement
Roundabout	
HK Velodrome	Remains work for Chamber
TIK Veloui onie	Road Reinstatement
Po Lam Road South / Ling Hong	Remains work for Chamber
Road	Road Reinstatement
Tsui Lam Road / Abandoned	Remains work for Chamber
Road	Road Reinstatement

- A6. The major environmental impacts brought by the above construction works include:
  - Construction dust and noise generation from mainlaying of pipes, and excavation;
  - Waste generation from the construction activities; and
  - Impact on water quality from construction activities
- A7. The key environmental mitigation measures implemented for the Project in this reporting period associated with the above construction works include:
  - Reduction of construction dust generation from mainlaying of pipes, and excavation;
  - Reduction of noise from equipment and machinery on-site;
  - Sorting and storage of general refuse and construction waste; and
  - Treatment of wastewater through water treatment facilities before discharge





## Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was scheduled in the reporting month for NSR4 Creative Secondary School on 1, 8, 14, 20 and 30 December 2023 as construction works were conducted within 300m to the noise sensitive receiver. No Action or Limit Level exceedance was recorded during the reporting period.
- A9. Water quality monitoring was carried out during the disinfection procedure.
- A10. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 144 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

## **Complaint Handling and Prosecution**

A11. One (1) environmental complaint was received in the reporting month. No notifications of summons and prosecution was received in the reporting month.

## **Reporting Change**

A12. There were no changes reported that may affect the on-going EM&A programme.

## **Summary of Upcoming Key Issues and Key Mitigation Measures**

A13. Key works in the next reporting month for the Project will include the followings:

Location	Construction activities to be carried out in next reporting month		
Wan Po Road and TKO Area 137	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>		
TKO Promenade (Stage 1 Landfill) & Po Yap Road Roundabout	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>		
HK Velodrome	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>		
Po Lam Road South / Ling Hong Road	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>		
Tsui Lam Road / Abandoned Road	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>		

- A14. The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation of mainlaying of pipes, and excavation works;
  - Waste generation from construction activities; and
  - Impact on water quality from construction activities.
- A15. The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction works will include:
  - Reduction of construction dust generation of mainlaying of pipes, and excavation works by regular water spraying and covering of dusty materials with screenings;
  - Reduction of noise from equipment and machinery on-site;
  - Sorting and storage of general refuse and construction waste; and
  - Treatment of wastewater through water treatment facilities before discharge.





## 1. BASIC PROJECT INFORMATION

### 1.1 Background

The proposed Desalination Plant at Tseung Kwan O (DPTKO) will produce potable water with an initial capacity of 135 million liters per day (MLD), expandable to an ultimate capacity of 270 MLD in the future to provide a secure and alternative freshwater resource complying with the World Health Organization (WHO) standards. The plant will adopt the Seawater Reverse Osmosis (SWRO) technology, which dominates the market due to its reliability and progressive reduction in cost as the technology advances.

Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of Environmental Protection granted the Variation of Environmental Permit (No. EP-503/2015/A) to Water Supplies Department (WSD) for the Project on 26 January 2018.

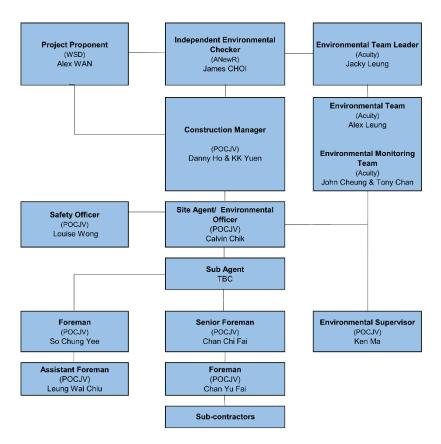
The scope of the Contract may be considered in brief, to consist of the laying of about 10 km long 1200 mm diameter freshwater mains and the associated works along the alignment of the Project as shown with the overall view in **Appendix B**.

## 1.2 The Reporting Scope

This is the 65<sup>th</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 December to 31 December 2023.

## 1.3 Project Organization

The Project Organization structure for Construction Phase is presented in **Figure 1.1**.



**Figure 1.1 Project Organization Chart** 





Contact details of the key personnel are presented in **Table 1.1** below:

Table 1.1 Contact details of the key personnel

Party	Position	Name	Telephone no.	
Penta-Ocean - Concentric Joint Venture	Environmental Officer	Calvin Chik	9863 5630	
Acuity Sustainability Consulting Limited	Environmental Team Leader	Jacky Leung	2698 6833	
ANewR Consulting Limited	Independent Environmental Checker	James Choi	2618 2831	

## 1.4 Summary of Construction Works

Details of the major construction works undertaken in this reporting period are shown in **Table 1.2** and the construction works locations are shown in **Appendix B**. The construction programme is presented in **Appendix A**.

Table 1.2 Summary of the Construction Works Undertaken during the Reporting Month

Location	Construction activities carried out in the reporting month
Wan Po Road and TKO Area 137	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>
TKO Promenade (Stage 1	Remains work for Chamber
Landfill) & Po Yap Road Roundabout	Road Reinstatement
HK Velodrome	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>
Po Lam Road South / Ling Hong	Remains work for Chamber
Road	<ul> <li>Road Reinstatement</li> </ul>
Tsui Lam Road / Abandoned Road	<ul><li>Remains work for Chamber</li><li>Road Reinstatement</li></ul>

A summary of the valid permits, licences, and or notifications on environmental protection for this Project is presented in **Table 1.3**.

Table 1.3 Summary of the Status of Environmental Licence, Notification and Permit

Reference No.	Valid Period		Status	Remark		
	From	То	Status	Kemark		
Variation of Environmental Permit						
EP no.: EP-503/2015/A		Valid		N/A		
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation						
423775			Valid	N/A		
Chemical Waste Producer Registration						
5213-839-P3287-01			Valid	N/A		





Reference No.	Valid Period		Status	Remark		
Reference No.	From	То	Status	Kemark		
Billing Account for Disposal of Construction Waste						
A/C no.: 7029491			Valid	N/A		
Water Discharge Licence						
WT00032336-2018	10 Dec 2018	31 Dec 2023	Valid	Expired in the reporting month.		

The status for all environmental aspects is presented **Table 1.4**.

Table 1.4 Summary of Status for Key Environmental Aspects under the EM&A Manual

Parameters	Status				
	Noise				
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under VEP Condition 3.4.				
Impact Monitoring	On-going				
	Water				
Impact monitoring of disinfection procedure*	On-going On-going				
	Waste Management				
Mitigation Measures in Waste Management Plan	On-going				
	Landfill Gas				
Impact Monitoring	On-going				
Environmental Audit					
Site Inspection	On-going				

<sup>\*</sup>Monitoring detail would be presented in next reporting month.

Other than the EM&A works by ET, regular environmental management meetings were conducted in order to enhance environmental awareness and closely monitor the environmental performance of the contractors.

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





## 2. Noise Monitoring

## 2.1 Monitoring Requirements

To ensure no adverse noise impact, noise monitoring is recommended to be carried out within 300m radius from the nearby noise sensitive receivers (NSRs), during construction phase. The NSRs selected as monitoring station are (i) NSR4 – Creative Secondary School, (ii) NSR24 – PLK Laws Foundation College, and (iii) NSR31 – School of Continuing and Professional Studies – CUHK respectively.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 1, 8, 14, 20 and 30 December 2023 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

## 2.2 Noise Monitoring Parameters, Time, Frequency

Impact noise monitoring was conducted weekly in the reporting period between 0700-1900 on normal weekdays. Construction works will follow the requirements as stipulated in the valid CNPs if works have to be conducted in the restricted hours.

Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level ( $L_{Aeq}$ ).  $L_{eq\,30min}$  was used as the monitoring parameter for the time period between 0700 and 1900 on normal weekdays. **Table 2.1** summarizes the monitoring parameters, frequency, and duration of the impact noise monitoring. The monitoring schedule is provided in **Appendix D**.

**Table 2.1 Noise Monitoring Parameters, Time, Frequency and Duration** 

Time Frequency		Duration	Parameters
Daytime: 0700-1900	Once per week	$\begin{array}{c} \text{Continuously in} \\ L_{\text{eq 5min}}/L_{\text{eq 30min}} \text{(average of 6} \\ \text{consecutive } L_{\text{eq 5min}} \text{)} \end{array}$	L <sub>eq</sub> , L <sub>10</sub> & L <sub>90</sub>

## 2.3 Noise Monitoring Locations

The monitoring locations should normally be made at a point 1m from the exterior of the NSRs building façade and be at a position 1.2m above the ground. A correction of +3dB(A) should be made to the free-field measurements.

According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

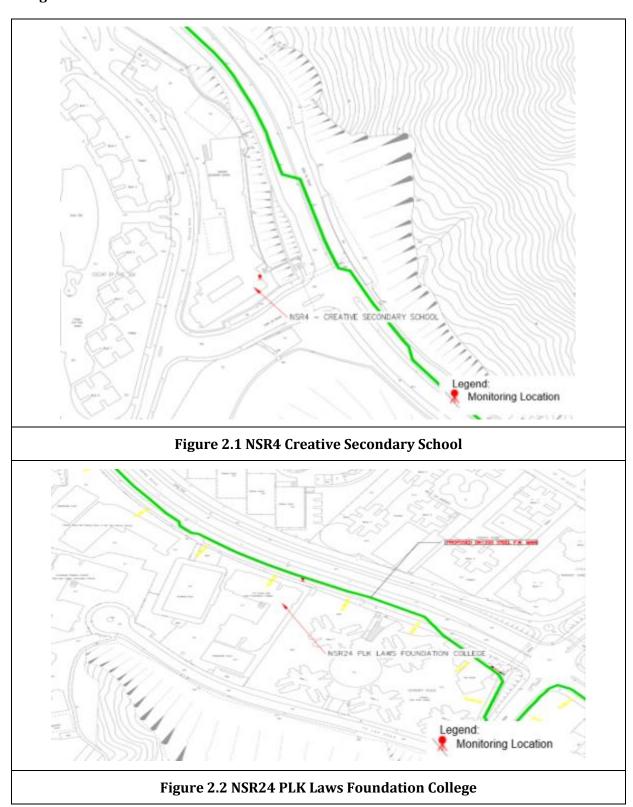
**Table 2.2 Noise Monitoring Location** 

NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade



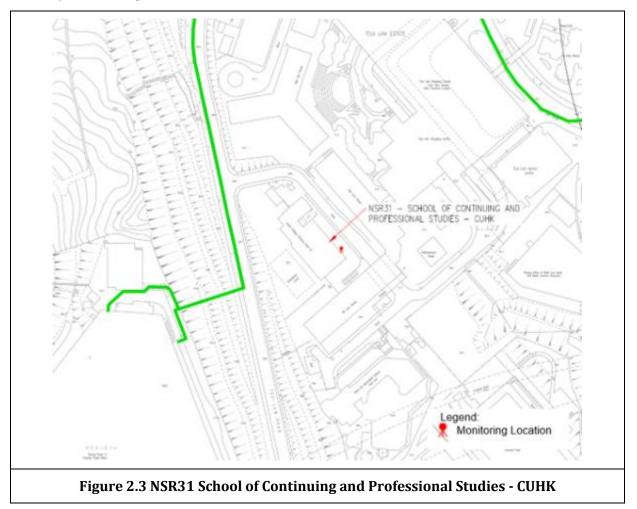


Three noise monitoring locations for impact monitoring at the nearby sensitive receivers are shown in **Figure 2.1-2.3**.









## 2.4 Impact Monitoring Methodology

Integrated sound level meters were used for the noise monitoring. The meters were in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications. Immediately prior to and following each noise measurement the accuracy of the sound level meters was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration level before and after the noise measurements agree to within  $1.0~\mathrm{dB}(A)$ .

Calibration certificates of the instruments used are presented in **Appendix E**. Noise measurements were not made in the presence of fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.

## 3.1. Table 2.3 Impact Noise Monitoring Equipment

Equipment	Brand and Model	Serial Number	Date of Calibration	Expiry Date
Sound Level Meter	SVANTEK 971	77731	21 Mar 2023	20 Mar 2024
Sound Level Meter Calibrator	RION NC-75	35124527	27 Oct 2023	26 Oct 2024
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	Nil	Nil





#### 2.5 Action and Limit Levels

The Action/Limit Levels are in line with the criteria of Practice Note for Professional Persons (ProPECC PN 2/93) "Noise from Construction Activities – Non-statutory Controls" and Technical Memorandum on Environmental Impact Assessment Process issued by HKSAR Environmental Protection Department ["EPD"] under the Environmental Impact Assessment Ordinance, Cap 499, S.16 are presented in **Table 2.4**.

Table 2.4 Action and Limit Levels for Noise

Time Period	Action Level	Limit Level (dB(A))	
0700-1900 on normal weekdays	When one documented complaint is received from any one of the noise sensitive receivers		
Notes:  (a) Limits specified in the GW-TM and IND-TM for construction and operation noise, respectively.			

If exceedances are found during noise monitoring, the actions in accordance with the Event and Action Plan will be carried out according to **Appendix F**.

## 2.6 Monitoring Results and Observations

Referring to EM&A Manual Section 4.1.2, impact monitoring for noise impact was scheduled weekly in the reporting month for NSR4 – Creative Secondary School on 1, 8, 14, 20 and 30 December 2023. Detailed monitoring results are presented in **Appendix G**.

No construction works were conducted within 300m radius of NSR24 and NSR31. Thus, no construction noise monitoring works was carried at these two locations in the reporting month.

No action or limit level exceedance was recorded for construction noise monitoring during the reporting period.





## 3. WATER QUALITY

#### 3.1. Disinfection

Pursuant to Section 5.1.6(b) of the EM&A Manual under Environmental Permit No. EP-503/2014/A and Further Environmental Permit No. FEP-01/503/2015/A of the Desalination Plant at Tseung Kwan O ("the Project"), water quality monitoring is required during disinfection procedure. The following Section provides details of the water quality monitoring to be undertaken by the POCJV.

## 3.2. Water Quality Parameter

The parameters that have been selected for measurement in situ and in the laboratory are those that were either determined in the EIA to be those with the most potential to be affected by the construction works or are a standard check on water quality conditions. Parameters to be measured in the impact monitoring are listed in **Table 3.1**.

Table 3.1 Parameters measured in the Impact Marine Water Quality Monitoring

Parameters	Unit	Abbreviation
In-situ measurements		
Total Residual Chlorine NOTE1	mg/L	TRC

## 3.3. Monitoring Equipment

**Total Residual Chlorine** -Total residual chlorine (TRC) shall be measured in-situ using approved test kit.

## 3.4. Sampling Protocols

All in situ monitoring instruments were checked, calibrated, and certified by a laboratory accredited under HOKLAS or any other international accreditation scheme before use, and subsequently recalibrated at monthly intervals throughout the stages of the water quality monitoring. Responses of sensors and electrodes were checked with certified standard solutions before each use.

On-site calibration of field equipment was following the "Guide to On-Site Test Methods for the Analysis of Waters", BS 1427: 2009. Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was made available so that monitoring can proceed uninterrupted even when equipment is under maintenance, calibration etc.

Parameters for laboratory measurements, standard methods and detection limits are presented in **Table 3.2**.

Table 3.2 Laboratory measurements, standard methods, and corresponding detection limits of marine water quality monitoring

Parameters	Standard Methods	Detection Limit	Reporting Limit	Precision
Total residual chlorine	Lovibond MD200	Lowest limit = 0.01mg/L; Upper limit = 6 mg/L	•	±25%





## 3.5. Monitoring Location

The Impact water quality monitoring locations are in accordance with the EM&A Manual and detailed in **Table 3.3** below. A schedule for water quality monitoring was prepared by the ET and submitted to IEC and EPD prior to the commencement of the monitoring.

Effluent from desalination plant shall be collected at a suitable location after all treatment process before discharge. The sampling location should be agreed with WSD and EPD, and should fulfil the following requirements:

- Effluent collected at the sampling location is representative to the effluent discharged at the outfall diffuser.
- Sampling works at the sampling location would not interfere with the desalination plant operation.
- Sampling works at the sampling location would not induce safety hazard (e.g. staff sampling effluent drops into the culvert)

According to the approved Flushing and Disinfection Procedure and Supplementary of the Disinfection Procedure for Mainlaying works of Desalination Plant at Tseung Kwan O, the sampling point of the dechlorinated effluent was shown in **Table 3.3** and **Figure 3.2** below.

**Table 3.3 Location of Impact Water Quality Monitoring Stations** 

System/Loop	Discharge location	Sampling Location
Mobile Treatment Plant	Communal Storm Water Drain	The outlet of the Service Reservoir
Mobile Treatment Plant	leading to inland waters	will be the Sampling Point (S.P.).

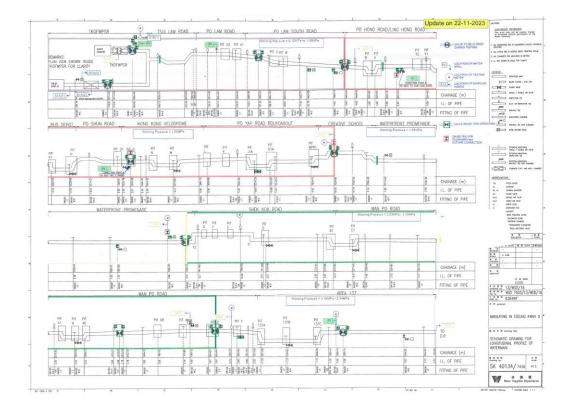


Figure 3.2 Impact water quality monitoring point for dechlorinated effluent (Contact tank/PWT)





### 3.6. Action and Limit Levels

The Action and Limit Levels have been set based on the derivation criteria specified in the EM&A Manual. The Action/Limit Levels have been derived and are presented in **Table 3.4**.

For the TRC, the discharge should be suspended if the TRC level of the dechlorinated effluent exceeds the 0.1 mg/L. Chlorinated water should be fully neutralized before discharge. Discharge of the water will be done once it is ensured that the chlorine has been neutralized and it is below the discharge limit.

Table 3.6 Derived Action and Limit Levels for Water Quality

Parameters	Action	Limit	
Construction Phase Impact Monitoring			
Total residual chlorine in mg/L	0.2 mg/L	0.2 mg/L	

i. Monitoring of Total Residual Chlorine will be conducted when cleaning and sterilization of the new freshwater main is carried out.

## 3.7. Monitoring Result and Observation

Dechlorinated effluent monitoring at the sampling locations (outlet of the Service Reservoir) was carried out by WSD on 8 December 2023.

The detailed result would be present in next reporting period.





## 4. WASTE MANAGEMENT

The waste generated from this Project includes inert construction and demolition (C&D) materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes, and recyclable wastes such as plastics and paper/cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as these materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 3.1**. Details of cumulative waste management data are presented as a waste flow table in **Appendix H**.

Table 3.1 Quantities of waste generated from the Project

	Quantity					
		Non-inert C&D Materials				
Reporting period	Materials Waste		Others, e.g., General Refuse	Recycled materials		
	(in '000m <sup>3</sup> ) (in '000kg)	disposed at Landfill (in '000m³)	Paper/cardboard (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)	
Dec 2023	0.362	0.000	0.002	0.048	0.000	0.000





## 5. LANDFILL GAS MONITORING

## 5.1. Monitoring Requirement

In accordance with Section 11 of the EM&A Manual, monitoring of landfill gas is required for construction works within the 250m Consultation Zone. Part of the desalination plant and the indicative area of natural slope mitigation works fall within the SENT Landfill Extension Consultation Zone; and part of the 1,200 mm diameter fresh water mains along Wan Po Road falls within the SENT Landfill and SENT Landfill Extension Consultation Zones, TKO Stage II/III Restored Landfill and TKO Stage I Restored Landfill Consultation Zones.

## 5.2. Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the Consultation Zone.

During construction of works within the consultation zones, excavations of 1m depth or more was monitored:

- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period when the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

For excavations between 300mm and 1m deep, measurements should be carried out:

- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.9**.







Figure 4.1 Monitoring Location - CH.A 6+70

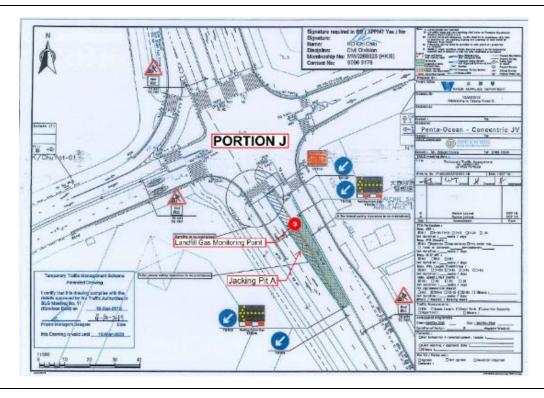
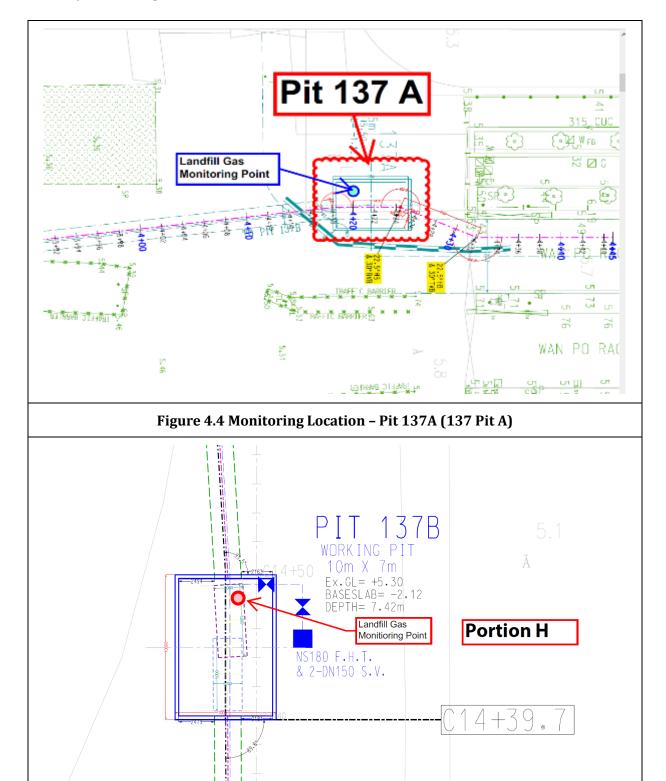


Figure 4.2 Monitoring Location - CH.A 13+50 ~ 14+00 (Pit A)







16

Figure 4.5 Monitoring Location - Pit 137B (137 Pit B)





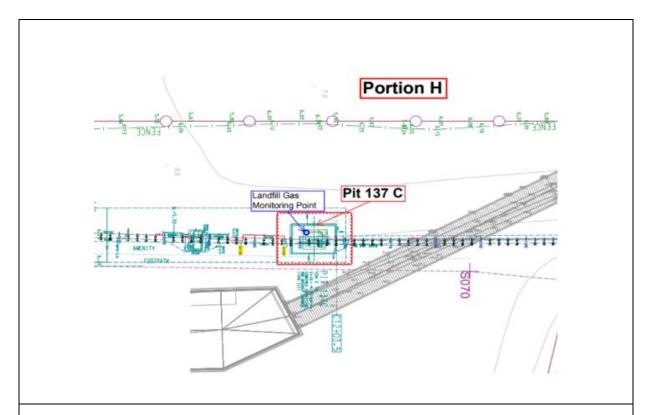


Figure 4.6 Monitoring Location - Pit 137C (137 Pit C)

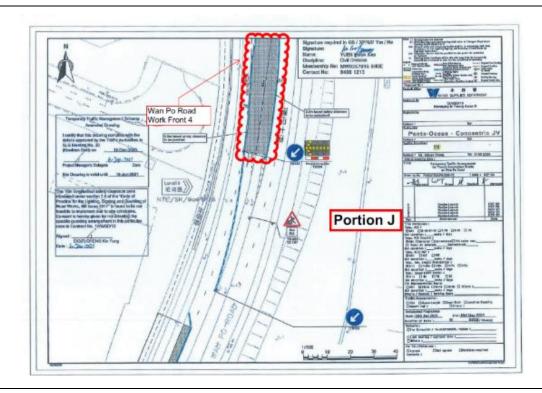


Figure 4.7 Monitoring Location - Wan Po Road 4





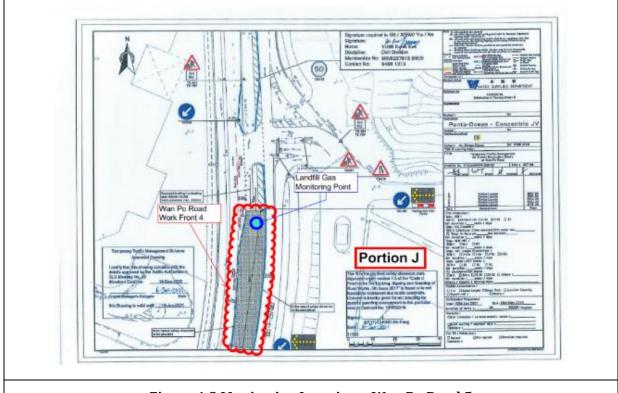


Figure 4.8 Monitoring Location - Wan Po Road 5





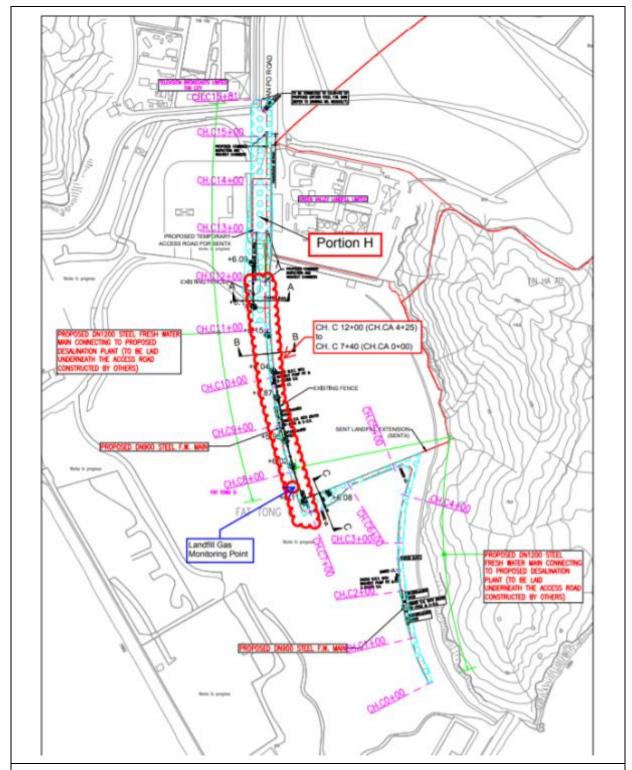


Figure 4.9 Monitoring Location -CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)





## **5.3.** Monitoring Parameters

Landfill Gas monitoring was carried out to identify any migration between the landfill and the Project and to ensure the safety of the construction, operation and maintenance personnel working on-site, visitors and any other person within the Project area.

The following parameters were monitored:

- Methane.
- Oxygen.
- Carbon Dioxide.
- Barometric Pressure.

## 5.4. Action and Limit Level

Action and Limit Level are provided in **Table 4.1**.

Table 4.1 Action and Limit Level for Landfill Gas Monitoring Equipment

Parameters	Action Level	Limit Level
Oxygen (O <sub>2</sub> )	<19% 02	<19% 02
Methane (CH <sub>4</sub> )	>10% LEL	>20% LEL
Carbon Dioxide (CO <sub>2</sub> )	>0.5% CO <sub>2</sub>	>1.5% CO <sub>2</sub>

## 5.5. Monitoring Equipment

Landfill Gas monitoring was carried out using intrinsically safe, portable multi-gas monitoring instruments. The gas monitoring equipment is:

- Complying with the Landfill Gas Hazard Assessment Guidance Note as intrinsically safe;
- Capable of continuous barometric pressure and gas pressure measurements;
- Normally operated in diffusion mode unless required for spot sampling, when it should be capable of operating by means of an aspirator or pump;
- Having low battery, fault and over range indication incorporated;
- Capable of storing monitoring data, and shall be capable of being down-loaded directly;
- Measure in the following ranges:

methane	0-100% Lower Explosion Limit (LEL) and 0-100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-5% v/v; and
barometric pressure	mBar (absolute)

alarm (both audibly and visually) in the event that the concentrations of the following are exceeded:

methane	>10% LEL;
oxygen	<19% by volume; and
carbon dioxide	>0.5% by volume
barometric pressure	mBar (absolute)

Monitoring Equipment used in the reporting period are summarised in **Table 5.2**. The Landfill Gas monitoring equipment calibration certificate is presented in **Appendix I**.





Table 5.2 Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date	
Portable Gas Detector	PGM-2500 QRAE III	27 July 2024	
CO2 Analyzer	TES, 1307H	16 November 2024	

## 5.6. Monitoring Results

In the reporting period, construction works within the consultation zones, excavations of 1m depth or more was monitored. Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations for 144 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

Table 4.3 Action and Limit Levels and Event and Action Plan for LFG Hazard

Parameters	Level	Action
Oxygen (O <sub>2</sub> )	Action Level $< 19\% 0_2$	Ventilate trench/void to restore O <sub>2</sub> to > 19%
70 ( -)		Stop works
	Limit Level $< 19\% O_2$	Evacuate personnel/prohibit entry
		Increase ventilation to restore $O_2$ to > 19%
		Post "No Smoking" signs
	Action Level >10% LEL	Prohibit hot works
Methane (CH <sub>4</sub> )		Increase ventilation to restore CH <sub>4</sub> to <10% LEL
		Stop works
	Limit Level >20% LEL	Evacuate personnel/prohibit entry
		Increase ventilation to restore CH <sub>4</sub> to<10% LEL
Carbon Dioxide	Action Level >0.5% CO <sub>2</sub>	Ventilate to restore $CO_2$ to $< 0.5\%$
001 0011 2 10111010		Stop works
$(CO_2)$	Limit Level >1.5% CO <sub>2</sub>	Evacuate personnel / prohibit entry
		Increase ventilation to restore $CO_2$ to $<0.5\%$





# 6. SUMMARY OF EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in below **Figure 5.1**:

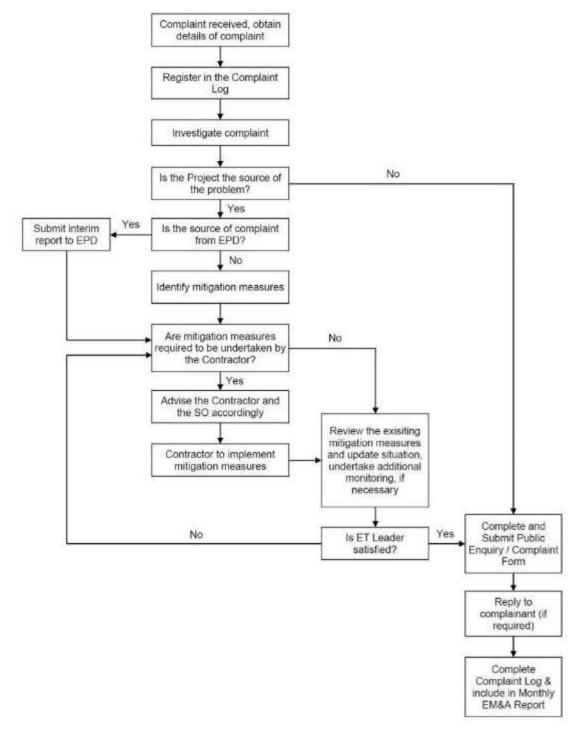


Figure 5.1 Environmental Complaint Handling Procedure





Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 1, 8, 14, 20 and 30 December 2023 was construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 144 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

One (1) environmental complaint was received in the reporting period. No notification of summons and prosecution was received in the reporting period.

Statistics on complaints and regulatory compliance are summarized in **Appendix K**.





## 7. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 7, 15, 20 and 28 December 2023 at the site portions list in **Table 6.1** below. One joint site inspection with IEC was carried out on 20 December 2023.

**Table 6.1 Site Inspection Record** 

Date	Inspected Site Portion	Time
7 December 2023	Portion J	14:30 - 15:30
15 December 2023	Portion J	09:30 - 10:30
20 December 2023	Portion J	14:00 - 15:30
28 December 2023	Portion J	09:30 - 10:30

Minor deficiencies were observed during weekly site inspections. Key observations during the site inspections are summarized in  $Table\ 6.2$ .

**Table 6.2 Site Observations** 

Date	Environmental Observations	Follow-up Status
7 December 2023	Tree protection zone should be maintain properly. (Pit 0)	The fencing is provided.
15 December 2023	Stagnant water was observed at Creative School.	Stagnant water is cleared.
20 December 2023	Rock break head should be placed on tarpaulin sheet. (Shek Kok Road)	Rock break head is removed.
28 December 2023	No major environmental deficiency was observed during site inspection.	N.A.

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

Site inspection proforma of the reporting period is provided in **Appendix L**.





## 8. FUTURE KEY ISSUES

Key works that will be anticipated in the next reporting period for the Project are shown in **Table 7.1**.

Table 7.1. Key works for the next reporting month

Location	Construction activities to be carried out in next reporting month
Wan Po Road and TKO	Remains work for Chamber
Area 137	Road Reinstatement
TKO Promenade (Stage 1	Remains work for Chamber
Landfill) & Po Yap Road	Road Reinstatement
Roundabout	
HK Velodrome	Remains work for Chamber
TIK Velouronie	Road Reinstatement
Po Lam Road South / Ling	Remains work for Chamber
Hong Road	Road Reinstatement
Tsui Lam Road /	Remains work for Chamber
Abandoned Road	Road Reinstatement

The major environmental impacts brought by the above construction works will include:

- Construction dust and noise generation of mainlaying of pipes, TBM break through, and excavation works;
- Waste generation from construction activities; and
- Impact on water quality from construction activities.

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

- Dust suppression by regular wetting and water spraying for excavation works, mainlaying of pipes and TBM break through works;
- Reduction of noise from equipment and machinery on-site;
- Sorting and storage of general refuse and construction waste; and
- Treatment of wastewater with water treatment facilities before discharge.

The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.

Referring to EM&A Manual Section 4.1.2, the impact noise monitoring should be carried out at all the designated monitoring stations when there are project-related construction activities undertaken within a radius of 300m from the monitoring stations.

The tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.





## 9. CONCLUSION AND RECOMMENDATIONS

This is the 65<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 December to 31 December 2023 in accordance with the EM&A Manual and the requirement under EP-503/2015/A.

Impact monitoring for noise impact was scheduled in the reporting month for NSR4 – Creative Secondary School on 1, 8, 14, 20 and 30 December 2023 as construction works were conducted within 300m to the noise sensitive received. No action and limit level exceedance for construction noise monitoring was recorded in the reporting period.

Water quality monitoring was carried out during the disinfection procedure.

Landfill gas monitoring was carried out by the Registered Safety Officer of the Contractor at the excavation locations and within the consultation zones for 144 times. All the measured results were presented in **Appendix J** and were within the Action and Limit Levels.

No exceedance of the action and limit level for landfill gas monitoring was recorded during the reporting period.

Weekly environmental site inspections were conducted during the reporting month. Observations and Recommendation were made during site inspection, Contractor was reminded that sedimentation facilities shall be provided on site to remove silt particles from runoff before discharge and to meet the requirements of the TM standard under the WPCO.

According to the environmental site inspections performed in the reporting month, the contractor is reminded to pay attention on maintaining site tidiness, water treatment facilities, and proper materials storage.

One (1) environmental complaint was received in the reporting month. No notification of summons and prosecution was received in the reporting month.

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.





# Appendix A

**Construction Programme** 

Mathematical Control of the contro							Project: Mainlaying in Tseung																
March   Marc	sk Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019	202	0	2021		2022		2023	20	24 24	2025
Section   Sect	ey Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q4 Q1	Q2   Q3	Q1 Q2	Q3   Q4   Q	Q2   Q3	Q4 Q1	Q2   Q3	Q4 Q1 Q	2   Q3   Q4	Q1   Q2	Q3 Q4 C	1 Q2 Q3	Q4 Q1 Q2
							67 50 60ES±27				♦ 7/11												
Marchen   Marc							days,61,62,58																
Marchen   Marc	Starting Date	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day		days																
Marchen   Marc	Access Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	<b>♦</b> 16/11												
The state of the	Access Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19				<b>♦</b> 16/1	1								
Control   Cont	Completion Date (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21							<b>♦</b> 18/5						
1	EOT for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day	у 6	8	100%	Tue 18/5/21	Tue 18/5/21							♦ 18/5						
Marchenestern	EOT for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								<b>•</b> 19/1					
Section 1960 1970 1970 1970 1970 1970 1970 1970 197	Revised Completion Date	0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								<b>♦</b> 19/1					
Second   S	Planned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA												<b>♦</b> 5	5/9
Part			Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA										♦ 19/1			
Part			VAI. 3.24				1055																
Part							1077					Description						Therese					
Second   S																							
Secondarian (1974) (197	Preliminaries	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day			100%	Tue 7/11/17	Sat 30/4/22													
Second Second Mean Control Me	Submission and Permit Application	322 days	Tue 7/11/17	Mon 24/9/18	Calendar Day			100%	Tue 7/11/17	Mon 24/9/18	3												
Part	Subcontracting	1122 days	Thu 16/11/17	Fri 11/12/20	Calendar Day			100%	Thu 16/11/17	Fri 11/12/20	-					-							
Name of the property of the pr	Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day			100%	Tue 2/1/18	Thu 9/8/18	-	-											
Part   Procession of Northern   100   10	Procurement of Major Material	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100%	Sat 7/4/18	Sat 30/4/22	,		+			_							
Easy Passaction of Parlian is 10 days	Mainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working Da	у		92%	Tue 11/12/18	NA			-			-							
Part   Date of Cal (in. 07 Water Specy) to 16. TXD Descintation for 18. TXD Descintation for 1		0 days						100%	Mon 29/7/19	Mon 29/7/19				<b>29/7</b>									
Procedure Report Repo							104						♦ 22/1										-
Part Cut Exercision   Figur Lujing and Reinstatement at TAO Area 137   1976   1972	(NS250 HDPE Pipe)					400	104																
Treachest Works [Polizzen (bs. 9 High - 1922 to Holf p. Ph.) at 100 Area 137		330 days			· ·																		
Final Connection of NSZSD (10PE Pge to Edicing at Wan Po Road   14 day   10 e 28/17/3   Well 15/17/3   Well 1	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137	597 days	Sat 10/8/19	Sat 14/8/21	HK Working Da	У	761	100%	Sat 10/8/19	Sat 14/8/21													
Mainlying Fem Boundary of Tseune Noom O Area 137 to TSO Treith Water Sarvices Reserved Profited	Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137	1162 days	Tue 22/1/19	Thu 22/12/22	HK Working Da	Y .	784,762	83%	Tue 22/1/19	NA													
Nask-roll (From Fig. 1 am)   Fig. 2 am)   Fig. 1 am)   Fig. 1 am)   Fig. 2 am)   Fig. 1 am)   Fig. 2 am)	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23	Wed 15/3/23	HK Working Day	y 788		0%	NA	NA										I			
Septemble   Sept		1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	y		74%	Tue 7/11/17	NA												~	
Depts Out Scavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO South Waterfront Promenade  Water Mains near Pung Loi Road and Po Yap Road (CH.E01-00- CH.A31-Si)  Water Mains near Pung Loi Road and Po Yap Road (CH.E01-00- CH.A31-Si)  Water Mains near Pung Loi Road and Po Yap Road (CH.E01-00- CH.A31-Si)  Transhless Work from Po Yap Road Roundabout to KMB Depat (Pit K to Pit L) (Pit O to 822 days Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Fil 28/1/20  Mon 5/1/22  HK Working Day Fil 28/1/20  Mon 5/1/23  HK Working Day Fil 28/1/20  Mon 5/1/23  HK Working Day Fil 28/1/20  Mon 5/1/24  Fil 28/1/20  Mon 5/1/24  Fil 28/1/20  Mon 5/1/24  Fil 28/1/24  Fil 28/1/		1506 days	Thu 30/8/18	Thu 28/9/23	HK Working Da	у		81%	Thu 30/8/18	NA		-									~		
South Water Main Near Pung Lol Road (CHLFD0+00 - CHLA3+S1)   1020 days   Wed 17/6/20   Thu 23/51/23   HKWorking Day   765   78%   Thu 20/6/20   NA    Water Mains near Pung Lol Road Roandabout to KMB Depot (Pik Kto Pit I) (Pit O to 8) 22 days   Fil 28/7/20   Man 5/13/22   HKWorking Day   765   55%   Fil 28/7/20   NA    Trenchless Work from Po Yap Road Roandabout to KMB Depot (Pik Kto Pit I) (Pit O to 8) 22 days   Fil 28/7/20   Man 5/13/22   HKWorking Day   765   55%   Fil 28/7/20   NA    Water Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir   1699 days   Tue 7/11/17   Man 5/6/23   HKWorking Day   765   80%   Tue 2/4/19   NA    DN800 - CH ADNI2200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, 1223 days   Wed 24/3/21   Tue 6/8/4   Calendar Day   13%   Wed 24/3/21   NA    Pipeline Cleaning and CCTV Inspection   1123 days   Wed 12/5/21   Sun 7/7/24   Calendar Day   18%   Wed 24/3/21   NA    Sterilization and Water Sampling   Static Pressure Pessure Pipeline Cleaning, CCTV Inspection, 153 days   Wed 12/5/21   Sun 7/7/24   Calendar Day   18%   Wed 24/3/21   NA    Sterilization and Water Sampling   Static Pressure, Pipeline Cleaning, CCTV Inspection, 563 days   Tue 27/11/25   Calendar Day   0%   NA   NA    NASSO HOPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, 563 days   Tue 27/11/25   Tue 6/8/24   Calendar Day   0%   NA   NA    Water Sampling   Man 26/424   Calendar Day   0%   NA   NA   0%   0%   NA   NA   0%   0%   0%   0%   0%   0%   0%   0	Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Da	y		56%	Tue 7/11/17	NA	-											•	
Water Mains Near Pump Lol Road (CH.FD0+60 - CH.A3+51)   192 days   Wed 17/6/20   Ved 28/31/23   HK Working Day   765   786   786   Thu 29/8/20   Na   Thu 20/8/20   Sat 11/3/23   HK Working Day   765   786   786   Thu 20/8/20   Na   Na   Thu 20/8/20   Na   Thu	Open Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO	1221 days	Thu 23/8/18	Fri 7/10/22	HK Working Da	ıy		91%	Thu 23/8/18	NA		-											
Water Mains near Pung Lol Road and Po Yap Road (CHEFO+00 - CH-R3+58) 758 days Thu 20/8/20 Sat 11/3/23 HK Working Day 765 78% Thu 20/8/20 NA  Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit Lot o 822 days Fit 28/1/20 Mon 5/14/22 HK Working Day 765 55% Fit 28/1/20 NA  Pit P)  Water Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir 1699 days Tue 2/4/19 Mon 6/6/23 HK Working Day 765 80% Tue 2/4/19 NA  Water Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir 1699 days Tue 7/11/17 Mon 5/6/23 HK Working Day 80% Tue 2/4/19 NA  DA800 - CH-ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, 1232 days Wed 24/3/21 Tue 6/8/24 Calendar Day 13% Wed 24/3/21 NA  Sterilization and Water Sampling 40 days Wed 12/5/21 Sun 7/7/24 Calendar Day 18% Wed 24/3/21 NA  Pipeline Cleaning and CCTV Inspection 30 days Mon 8/7/24 Tue 6/8/24 Calendar Day 10% Wed 12/5/21 NA  Sterilization and Water Sampling 30 days Mon 8/7/24 Tue 6/8/24 Calendar Day 0 NA NA NA  No. No. Na NA NA  No. Na		1020 days	Wed 17/6/20	Thu 23/11/23	HK Working Da	ıy		60%	Wed 17/6/20	NA					-								
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Pic   Pic   Trenchies Work from Po Yap Road Roundabout (Hong Kong Velodrome)   1251 days   Tue 2/4/19   Mon 26/6/23   HK Working Day   765   80%   Tue 2/4/19   NA																				,			
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Static Pressure Test  Pipeline Cleaning and CCTV Inspection  1153 days Wed 24/3/21 Van Ved 12/5/21 Van Ved 12/		1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA													
Sterilization and Water Sampling  NS25D HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and 60 days Fri 23/12/22 Mon 20/2/33 Calendar Day  Water Sampling Handover Portion I and Portion H to WSD Region  Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days Tue 7/11/17 Sat 11/5/19 HK Working Day  99% Tue 7/11/17 NA		1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA												7	
NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling  NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and 60 days Fri 23/12/22 Mon 20/2/23 Calendar Day  Water Sampling  Handover Portion I and Portion H to WSD Region  S63 days  Tue 21/2/23 Thu 5/9/24 Calendar Day  Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days  Tue 7/11/17 Sat 11/5/19 HK Working Day  99% Tue 7/11/17 NA	Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA												7	A
Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days Tue 7/11/17 Sat 11/5/19 HK Working Day	Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA												**	
Water Sampling Handover Portion I and Portion H to WSD Region 563 days Tue 21/2/23 Thu 5/9/24 Calendar Day 0% NA NA Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days Tue 7/11/17 Vature Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days Tue 7/11/17 Vature Supply to Tseung Kwan O Marea Value Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area Value Supply to Tseung Kwan O Marea Value Supply t	NS250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and	60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day	The Contract of	N PARTITION OF	0%	NA	NA										-			
Water Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days Tue 7/11/17 Sat 11/5/19 HK Working Day 99% Tue 7/11/17 NA	Water Sampling		Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA										-		-	
						av.		99%	Tue 7/11/17	NA													
		443 uays	Tue //11/1/	Jat 11/3/19	The Working Da			3370	inc //xi/i/														
	Task Summary	Inactive	Milestone	Dur	ation-only	Start-only	Ext.	ternal Milesto	ne 💠	Critical	Split												

Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	103   04   2	019 019	2020	02   03   04	2021	2022	2   03   04	2023 O1   O2	202 03   04   01	4 02 03 1	Q4 Q1 Q2
Dates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q1 Q1 Q2	- Q	Qi Qz Q	VI VI	42 42 41	V. 42 4						an Name (and Name )
anned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA											•	5/9
nlaying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA												
ainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service sservoir (Portion I)	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Day			74%	Tue 7/11/17	NA												
Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Day			56%	Tue 7/11/17	NA												
Trenchless Works (Pit A to Pit D)	1354 days	Fri 2/8/19	Mon 26/2/24	HK Working Day		763	51%	Fri 2/8/19	NA												
New Routing From Pit A to Pit D)	553 days	Thu 14/4/22	Mon 26/2/24	HK Working Day	/		0%	Thu 14/4/22	NA												
XP Application for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Day	274	278,279,286	0%	NA	NA												
Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day	275	288,285,284	0%	NA	NA												
Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	HK Working Day	279	288	0%	NA	NA												
Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Day	279,284	290	0%	NA	NA												
Headshield Tunneling fom Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	HK Working Day	288	292	0%	NA	NA												
MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days	Sun 12/11/23	Mon 11/12/23	Calendar Day	290	295,296	0%	NA	NA												
Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day	, 292,283		0%	NA	NA		10.1										
Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day	292		0%	NA	NA										Desire		
ON800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, Sterilization and Water Sampling	1232 days	Wed 24/3/21	Tue 6/8/24	Calendar Day			13%	Wed 24/3/21	NA								N. I				
Static Pressure Test	1112 days	Wed 24/3/21	Mon 8/4/24	Calendar Day			18%	Wed 24/3/21	NA											7	
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)	42 days	Tue 27/2/24	Mon 8/4/24	Calendar Day	224,251,306	774	0%	NA	NA												
Pipeline Cleaning and CCTV Inspection	1153 days	Wed 12/5/21	Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA												
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chambe at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A		Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA												
Sterilization and Water Sampling	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day				NA	NA											-	
DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m)	30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,778	3,7 787	0%	NA	NA												
Handover Portion I and Portion H to WSD Region	563 days	Tue 21/2/23	Thu 5/9/24	Calendar Day			0%	NA	NA												
DN1200 MS Pipe - Portion I & Portion H (Area 137)	30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	782		0%	NA	NA												

Working Programme No. 15
Data Date : 24 May 2022

Milestone

Inactive Task

Manual Task

Manual Summary

Inactive Milestone

Duration-only

Stat-only

Finish-only

Deadline

Frogress

Critical Split

Progress

Critical Split

Progress

Critical Split

Progress

Finish-only

Deadline

Progress

Critical

Manual Progress

Page 1

							Project: Mainlaying in Tseung	It want O		1													
ask Na	ne	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019	2020	 	2021		2022		2023	2024		2025
ev D	ates	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day			0%	Tue 7/11/17	NA	Q4 Q1	Q2   Q3   Q4	Q1 Q2 0	Q3 Q4 Q1	Q2   Q3   Q	24 Q1 Q	2 Q3 Q4	Q1   Q2	Q3   Q4	Q1   Q2	Q3   Q4   Q1	Q2   Q3   Q	Q1   Q2
		0 days	Tue 7/11/17	Tue 7/11/17	Calendar Day		67,59,60FS+27	100%	Tue 7/11/17	Tue 7/11/17	<b>♦ 7/11</b>												
Co							days,61,62,58 4,5FS+730 days,6FS+1279											1					
Sta	ting Date	0 days	Thu 16/11/17		Calendar Day		days																
Ac	ess Date of Portion A, B, C, D, E, F, G and J	0 days	Thu 16/11/17	Thu 16/11/17	Calendar Day	3	90,63,71,73,75,78,79	100%	Thu 16/11/17	Thu 16/11/17	♦ 16/11												
Ac	ess Date of Portion H	0 days	Sat 16/11/19	Sat 16/11/19	Calendar Day	3FS+730 days	110	100%	Sat 16/11/19	Sat 16/11/19				♦ 16/11									
Co	npletion Date (Contract)	0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day	3FS+1279 days	7	100%	Tue 18/5/21	Tue 18/5/21						•	18/5						
EO	for CE No. 23 Inclement Weather - In June 2018	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Da	ау 6	8	100%	Tue 18/5/21	Tue 18/5/21						1	18/5						
FO	for CE No. 01	246 days	Wed 19/5/21	Wed 19/1/22	Calendar Day	7	9FF	0%	NA	NA								<ul><li>19/1</li></ul>					
		0 days	Wed 19/1/22	Wed 19/1/22	Calendar Day	8FF	11FS+365 days	0%	NA	NA								<ul><li>19/1</li></ul>					
Re							1113.303 4473															♦ 5/9	
Pla	nned Completion	0 days	Thu 5/9/24	Thu 5/9/24	Calendar Day	12FF		0%	NA	NA										1.00			
De	ect Date	0 days	Thu 19/1/23	Thu 19/1/23	Calendar Day	9FS+365 days		0%	NA	NA										♦ 19/1			
Mair	aying In Tseung Kwan O	2495 days	Tue 7/11/17	Thu 5/9/24	Calendar Day		10FF	77%	Tue 7/11/17	NA													
Iss	ued Compensation Events (General)	1316 days	Tue 12/6/18	Tue 18/1/22	Calendar Day			100%	Tue 12/6/18	Tue 18/1/22		<b>~</b>					_	~					
	ssue CE No. 03 - Upgrading of bandwidth of Internet Services for Site Accommodation	0 days	Tue 12/6/18	Tue 12/6/18	Calendar Day		68	100%	Tue 12/6/18	Tue 12/6/18		<b>12/6</b>											
			Thu 12/7/18	Thu 12/7/18	Calendar Day		68	100%	Thu 12/7/18	Thu 12/7/18		12/7											
	ssue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 o PN25												4/12										
	ssue CE No. 08 - Change in Number of Fixed IP Address for Broadband Connection for Site Accommodation	0 days	Tue 4/12/18	Tue 4/12/18	Calendar Day				Tue 4/12/18														
	ssue CE No. 10 - Contractor Design of The Realignment	0 days	Thu 28/2/19	Thu 28/2/19	Calendar Day			100%	Thu 28/2/19	Thu 28/2/19			<b>♦</b> 28/2										
	ssue CE No. 13 - Excavation of Inspection Pits for the Realignments	0 days	Wed 15/5/19	Wed 15/5/19	Calendar Day			100%	Wed 15/5/19	Wed 15/5/19			<b>♦</b> 15	/5									
	ssue CE No. 26 - Change in Cathodic Protection System for Mild Steel Pipes	0 days	Fri 16/8/19	Fri 16/8/19	Calendar Day		85	100%	Fri 16/8/19	Fri 16/8/19				♦ 16/8							4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1		
	ssue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in	0 days	Tue 31/12/19	Tue 31/12/19	Calendar Day			100%	Tue 31/12/19	Tue 31/12/19				<b>♦</b> 31	/12								
	the Wan Po Road J/O Lohas Park Road Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.		Fri 22/5/20	Fri 22/5/20	Calendar Day			100%	Fri 22/5/20	Fri 22/5/20					<b>22/5</b>								
	2)							100%	Tue 9/6/20	Tue 9/6/20					<b>♦</b> 9/6								
	lssue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	Tue 9/6/20	Tue 9/6/20	Calendar Day											10							
	Issue CE No. 74 - Reinstatement of existing carriageway along Wan Po Road using PMSMA10	0 days	Thu 13/8/20	Thu 13/8/20	Calendar Day			100%	Thu 13/8/20	Thu 13/8/20					♦ 13/								
	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Alignment (Batch No.	0 days	Fri 21/8/20	Fri 21/8/20	Calendar Day			100%	Fri 21/8/20	Fri 21/8/20					<b>*</b> 21	/8							
	3) Issue CE No. 72 - Temporary Reinstatement of Deteriorated Grasscrete Road by	0 days	Mon 31/8/20	Mon 31/8/20	Calendar Day			100%	Mon 31/8/20	Mon 31/8/20					<b>♦</b> 31	1/8							
	Bituminous Pavement along TKO South Waterfront Promenade Issue CE No. 73 - Reinstatement of existing Geotextile in Area of Stage 1 Landfill	0 days	Wed 9/9/20	Wed 9/9/20	Calendar Day			100%	Wed 9/9/20	Wed 9/9/20					<b>*</b> 9	1/9							
	between Chainage FC12+20 and Chainage FC13+26 Issue CE No. 81 - Additional Noise Monitoring for the Realignment Works	0 days	Tue 22/9/20	Tue 22/9/20	Calendar Day			100%	Tue 22/9/20	Tue 22/9/20					<b>*</b> 2	22/9							
					Calendar Day			100%	Wed 23/9/20	Wed 23/9/20					<b>*</b> :	23/9							
	Issue CE No. 78 - Excavation of Inspection Pits for Additional Connection Point to The Existing Water Supply system	0 days																		1 1			
	Issue CE No. 82 - Suspension of Site Works due to Coronavirus Disease	0 days	Wed 21/10/20	Wed 21/10/20	Calendar Day			100%	Wed 21/10/20	Wed 21/10/2	.0					21/10							
	Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location	0 days	Wed 28/10/20	Wed 28/10/20	Calendar Day			100%	Wed 28/10/20	Wed 28/10/2	.0				•	28/10							
	A) Issue CE No. 90 - Temporary Relocation of Bicycle Parking spaces near HK Velodrome	0 days	Mon 23/11/20	Mon 23/11/20	Calendar Day			100%	Mon 23/11/20	Mon 23/11/2	.0					<ul><li>23/11</li></ul>							
	Issue CE No. 83 - Inspection pits for the Realignment in Wan Po Road and Lohas Park	0 days	Sat 19/12/20	Sat 19/12/20	Calendar Day			100%	Sat 19/12/20	Sat 19/12/20		-				<b>♦</b> 19/12							
	Road Issue CE No. CE - Site Clearance of Affected Trees and Plants for Mainlaying works near		Fri 18/12/20	Fri 18/12/20	Calendar Day			100%	Fri 18/12/20	Fri 18/12/20						<b>♦</b> 18/12							
	Po Hong Road and Ling Hong Road		Wed 20/1/21					100%		Wed 20/1/21						◆ 20/1							
	Issue CE No. 99 - Excavation of Inspection pit near Mau Wu Tsai Village at Po Lam Road South															<b>*</b> 29/							
	Issue CE No. 101 - Uncharted Irrigation Pipe in TKO South Promenade Waterfront's Cycl Track at CH.FC6+64	e U days	Fri 29/1/21	Fri 29/1/21	Calendar Day				Fri 29/1/21														
	Issue CE No. 103 - Renewal of Excavation Permit	0 days	Wed 10/2/21	Wed 10/2/21	Calendar Day			100%	Wed 10/2/21	Wed 10/2/21			4			<b>*</b> 10/							
	Issue CE No. 105 - Suspension of Works in Wan Po Road 1st Works Site due to Shortage	0 days	Tue 23/2/21	Tue 23/2/21	Calendar Day			100%	Tue 23/2/21	Tue 23/2/21						<b>*</b> 23	/2						
	of Backfilling Material Caused by COVID-19  Issue CE No. 104 - Works in Tsui Lam Section (Batch No.2) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						<b>*</b> 26	5/2						
	Disruption to Supply of Construction Material Caused b COVID-19 Issue CE No. 106 - Works in Tsui Lam Section (Batch No.3) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						<b>*</b> 26	5/2						
	Disruption to Supply of Construction Material Caused b COVID-19 Issue CE No. 108 - Works in Tsui Lam Section (Batch No.3) were Suspended due to	0 days	Fri 26/2/21	Fri 26/2/21	Calendar Day			100%	Fri 26/2/21	Fri 26/2/21						<b>*</b> 26	5/2						
	Disruption to Supply of Construction Material Caused b COVID-19		Mon 8/3/21	Mon 8/3/21	Calendar Day			100%		Mon 8/3/21						<b>*</b> 8	/3						
	Issue CE No. 107 - Affected Trees near Mau Wu Tsai Village between CH.HA0+00 and Cl HA0+70 $$		1																				
1	Issue CE No. 110 - Inaccessible to Works Area Ch.HA2+10 due to Deteriorated Concrete Access	0 days	Thu 8/4/21	Thu 8/4/21	Calendar Day			100%	Thu 8/4/21	Thu 8/4/21						•	8/4						

						Project: Mainlaying in Tseung	Kwan O													
ask Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019 2019		2020	2021	2022	2	023	2024 2024	2025	25
Issue CE No. 112 - Works Delayed in Portion H due to COVID-19	0 days	Wed 14/4/21	Wed 14/4/21	Calendar Day			100%	Wed 14/4/21	Wed 14/4/21	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q2 • 14/-		Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4   Q1	Q2   Q
Issue CE No. 113 - Special Cleaning of Workfronts from CH.A0+00 to CH.A13+70 at W	an O days	Fri 30/4/21	Fri 30/4/21	Calendar Day			100%	Fri 30/4/21	Fri 30/4/21					<b>♦</b> 30.	N4					
Po Road Issue CE No. 116 - Special Mosquito and Biting Midges Prevention Measures from	0 days	Mon 24/5/21	Mon 24/5/21	Calendar Day			100%	Mon 24/5/21	Mon 24/5/21					<b>*</b> 2	24/5					
CH.FB0+00 to Ch.FB5+34 and Ch.FC0+0 0to FC13+26 along TKO South Waterfront Issue CE No. 119 - Professional Indemnity Insurance for the Conforming Designs under	e CE O days	Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21					<b>•</b> 3	31/5					
No.55, 62 and 77 Issue CE No. 120 - Left-in Sheet Pile for Manual Excavation in Po Lam Road at CH.HA6		Mon 31/5/21	Mon 31/5/21	Calendar Day			100%	Mon 31/5/21	Mon 31/5/21	1				<b>•</b> 3	31/5					
Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous exte		Tue 12/10/21	Tue 12/10/21	Calendar Day			100%	Tue 12/10/21	Tue 12/10/21						♦ 12/10					
of UU obstruction in Wan Po Road at CH. A0+88 Issue CE No. 129 - Special Cleaning of Workfronts from CH.HA0+00 to CH.A13+70 at V		Tue 26/10/21	Tue 26/10/21	Calendar Day			100%	Tue 26/10/21	Tue 26/10/21						<b>◆</b> 26/10					
po Road in Sep 2021 Issue CE No. 100 - Additional Mainlaying Works at Ling Hong Road and HK Velodrome		Tue 14/12/21	Tue 14/12/21	Calendar Day			100%	Tue 14/12/21	Tue 14/12/21						<b>♦ 14/1</b> 2	2				
Issue CE No. 131 - Additional Traffic Court and Analysis for TTA Application	0 days		Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21							2				
Issue CE No. 138 - Additional Inspection Pits for Realignment of DN800 Water Main i			Fri 24/12/21	Calendar Day			100%	Fri 24/12/21	Fri 24/12/21						<ul><li>24/1</li></ul>	2				
TKOFWPSR  Issue CE No. 141 - Provision of Suitable land Transport for Site Supervision in Tseung			Wed 29/12/21						1 Wed 29/12/21						◆ 29/1	2				
Kwan O Area 137 (Dec 2021 - Sept 2022)  Issue CE No. 136 - Additional Resurfacing Works at Wan Po Road Near TKO Area 137			Fri 31/12/21	Calendar Day					Fri 31/12/21						<b>♦ 31/</b>	12				
Issue CE No. 57 - Realignment of Water Main by Trenchless Method in SENTX Portion		Tue 18/1/22	Tue 18/1/22	Calendar Day		125FF			Tue 18/1/22						<b>♦</b> 18	/1				
TKO Area 137	1636 days	Tue 7/11/17	Sat 30/4/22	Calendar Day					Sat 30/4/22							-				
Preliminaries	322 days		Mon 24/9/18						Mon 24/9/18		-									
Submission and Permit Application	35 days	Tue 7/11/17		Calendar Day	2				Mon 11/12/17											
Submission of Safety Plan	45 days	Tue 7/11/17		Calendar Day					Thu 21/12/17											
Submission of Site Management Plan and Trip Ticket				Calendar Day					Sun 17/12/17											
Submission of Key People	14 days			Calendar Day					Wed 6/12/17											
Submission of Subcontractor Management Plan	30 days	Tue 7/11/17						Tue 7/11/17												
Submission of First Programme	7 days	Tue 7/11/17		Calendar Day		64		Thu 1/2/18	Tue 27/3/18				+							
Submission of Pipe Material (PN16)	54 days	Thu 1/2/18	Tue 27/3/18	Calendar Day  Calendar Day		92SS+7 days			Sat 11/8/18											
Approval of Pipe material submission (PN16)	137 days	Wed 28/3/18		Calendar Day		66														
Appointment of Environmental Team	10 days	Wed 9/5/18 Tue 29/5/18	Fri 18/5/18 Thu 14/6/18	Calendar Day		00			Thu 14/6/18											
Environmental Baseline Monitoring	17 days 45 days			Calendar Day					Thu 21/12/17											
Submission of Environmental Management Plan  Submission & Approval of CE01 Pipe Material PN25	75 days			Calendar Day		96			Mon 24/9/18											
	1122 days		Fri 11/12/20	Calendar Day	- ,,				7 Fri 11/12/20	-				-						
Subcontracting Submission and Approval	122 days		Sat 17/3/18	Calendar Day					7 Sat 17/3/18											
Submission of sub-contractor selection procedure	24 days		Sat 9/12/17	Calendar Day	4	72			7 Sat 9/12/17											
Approval of sub-contractor selection procedure	42 days		Sat 20/1/18	Calendar Day		87,82,83FS+10 days,86	100%	Sun 10/12/17	7 Sat 20/1/18								**************************************			
Submission of Sub-contractor Condition	14 days	Sun 21/1/18		Calendar Day	4	74	100%	Sun 21/1/18	Sat 3/2/18											
Approval of Sub-contractor Condition	42 days	Sun 4/2/18	Sat 17/3/18	Calendar Day		87,82,83FS+10 days,86	100%	Sun 4/2/18	Sat 17/3/18	-										
Submission of Supplier Selection Procedure	75 days			Calendar Day		76			7 Mon 29/1/18									1		
Approval of Supplier Selection Procedure	42 days		Mon 12/3/18			92			Mon 12/3/18											
Subcontractor Selection and Subcontracting	1115 days		Fri 11/12/20						7 Fri 11/12/20					-						
Traffic Consultant for Investigation Works	30 days	Thu 23/11/17		Calendar Day	4				7 Fri 22/12/17											
Consultancy: Landscape for Investigation works	30 days	Fri 5/1/18	Sat 3/2/18	Calendar Day		250		Fri 5/1/18	Sat 3/2/18											
Consultancy: Traffic consultant	55 days	Wed 21/2/18							3 Mon 16/4/18											
Environmental Team	9 days	Mon 16/4/18		Calendar Day		65			3 Tue 24/4/18	1										
Temporary site office, hoarding & project sign board	75 days	Thu 22/3/18		Calendar Day	74,72	89FS+13 days			Mon 4/6/18											
Consultancy: Independent Checking Engineer	12 days		Fri 25/5/18		72FS+10 days,74FS+10				3 Fri 25/5/18	1										
Survey Services	23 days			Calendar Day	days				3 Thu 18/10/18		•									
ting Programme No. 15 Date 34 May 2022 Split Project Summary		ive Milestone		ration-only anual Summary Rollup	Start-only Finish-only		aternal Milesto eadline	one 💠	Critical S Progress	plit										
Date: 24 May 2022  Milestone  Inactive Task		ual Task		anual Summary	External Tasks		ritical	-	Manual	rogress										

						Project: Mainlaying in Tseung K	wan O		2.							
Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019 2018 2019 2020	2021	2022	2023	2024	20	)25
Sacrificial Anode Cathodic Protection (SACP)	82 days	Thu 30/5/19	Mon 19/8/19	Calendar Day	19	99	100%	Thu 30/5/19	Mon 19/8/19	4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1I	Q2   Q3   Q4   Q1   Q	2   Q3   Q4   Q1	Q2 Q3 Q4 Q1	Q2 Q3 Q4 Q1	Q2   Q3   Q4   Q1	1 Q
Submitted the second of the se		Thu 6/9/18	Wed 17/10/18	Calendar Day	72.74		100%	Thu 6/9/18	Wed 17/10/18							
cultivos principals and the control of the control									Fri 11/12/20							_
Miscendificads		Sun 18/3/18	Fri 11/12/20	Calendar Day	74,72											-
Site Establishment	220 days	Tue 2/1/18	Thu 9/8/18	Calendar Day				Tue 2/1/18	Thu 9/8/18							
Setting up PM's and Contractor Accommodation	90 days	Sat 12/5/18	Thu 9/8/18	Calendar Day	82FS+13 days		100%	Sat 12/5/18	Thu 9/8/18							
Initial Survey of the Site	60 days	Tue 2/1/18	Fri 2/3/18	Calendar Day	4		100%	Tue 2/1/18	Fri 2/3/18							-
Procurement of Major Material	1485 days	Sat 7/4/18	Sat 30/4/22	Calendar Day			100%	Sat 7/4/18	Sat 30/4/22							
Preparation of Purchase Order	7 days	Sat 7/4/18	Fri 13/4/18	Calendar Day	64SS+7 days,76	93	100%	Sat 7/4/18	Fri 13/4/18							To the second
1st Batch of Material Delivery	65 days	Sat 14/4/18	Sun 17/6/18	Calendar Day	92	94	100%	Sat 14/4/18	Sun 17/6/18							
1st Batch of Material Delivery on site	0 days	Fri 29/6/18	Fri 29/6/18	Calendar Day	93	95	100%	Fri 29/6/18	Fri 29/6/18	<b>♦</b> 29/6						
Material Delivery by Batches	1401 days	Sat 30/6/18	Sat 30/4/22	Calendar Day	94		100%	Sat 30/6/18	Sat 30/4/22							
		Tue 25/9/18	Mon 1/10/18	Calendar Day	68	97	100%	Tue 25/9/18	Mon 1/10/18	1						
Preparation of CE01 Purchase Order			Sun 30/12/18			98			Sun 30/12/18							
1st Batch of CE01 Material Delivery		Tue 2/10/18				50										
1st Batch of CE01 Material Delivery on site		Tue 22/1/19	Tue 22/1/19	Calendar Day					Tue 22/1/19							
SCAP Material Submission and Approval	261 days	Tue 20/8/19	Wed 6/5/20	Calendar Day	85	100	100%	Tue 20/8/19	Wed 6/5/20							
SCAP Purchase Order & Material Delivery	115 days	Mon 22/6/20	Wed 14/10/20	Calendar Day	99		100%	Mon 22/6/20	Wed 14/10/20							
Mainlaying in Tseung Kwan O Area 137 (Portion H)	1260 days	Tue 11/12/18	Wed 15/3/23	HK Working Da	ау		92%	Tue 11/12/18	NA							
Early Possession of Portion H	0 days	Mon 29/7/19	Mon 29/7/19	Calendar Day			100%	Mon 29/7/19	Mon 29/7/19	<b>♦</b> 29/7						
Issue Date of CE No. 07 -Water Supply to No. TKO Desalination Plant at Portion H	0 days	Tue 22/1/19	Tue 22/1/19	Calendar Day		104	100%	Tue 22/1/19	Tue 22/1/19	<b>♦</b> 22/1						
(NS250 HDPE Pipe) Material Procurement and Delivery in Batches	330 days	Tue 11/12/18	Tue 5/11/19	Calendar Day	103		100%	Tue 11/12/18	Tue 5/11/19							+
Open Cut Excavation, Pipe Laying and Reinstatement at TKO Area 137				HK Working Da	av	761	100%	Sat 10/8/19	Sat 14/8/21	-		-				
		Sat 10/8/19	Wed 30/9/20					Sat 10/8/19	Wed 30/9/20							+
DN1200 MS PIPE + NS250 HDPE PIPE - Open Cut	341 days								Fri 24/7/20							+
CH.CT1+51 - CH.265 DN1200 MS Pipe OC	82 days	Thu 16/4/20	Fri 24/7/20	None												-
CH.CT0+51 - CH.1+51 DN1200 MS Pipe OC	44 days	Mon 10/2/20	Tue 31/3/20	HK Working Da	ıy			Mon 10/2/20								
CH.CTO+00 - CH.0+51 DN1200 MS Pipe OC	74 days	Thu 2/1/20	Tue 31/3/20	HK Working Da	łγ		100%	Thu 2/1/20	Tue 31/3/20							
CH.CA0+00 - CH.4+00 DN1200 MS Pipe OC	192 days	Sat 10/8/19	Tue 31/3/20	HK Working Da	ay 5		100%	Sat 10/8/19	Tue 31/3/20							
CH.KT2+80 - CH.3+60 NS250 HDPE Pipe OC with additional Tees and fire Hydrant	56 days	Tue 28/7/20	Wed 30/9/20	HK Working Da	ау		100%	Tue 28/7/20	Wed 30/9/20							
CH.KT2+23 - CH.2+80 NS250 HDPE Pipe OC	29 days	Sat 20/6/20	Sat 25/7/20	HK Working Da	ay		100%	Sat 20/6/20	Sat 25/7/20		-					
CH.KT1+51 - CH.2+23 NS250 HDPE Pipe OC	31 days	Sat 16/5/20	Sat 20/6/20	HK Working Da	ay		100%	Sat 16/5/20	Sat 20/6/20		-					
CH.KT0+51 - CH.1+51 NS250 HDPE Pipe OC	19 days	Tue 10/3/20	Tue 31/3/20	HK Working Da	ay		100%	Tue 10/3/20	Tue 31/3/20							
	50 days	Sun 2/2/20	Tue 31/3/20	HK Working Da	av		100%	Sun 2/2/20	Tue 31/3/20							
CH.KTO+00 - CH.O+51 NS250 HDPE Pipe OC	Jo days	Thu 10/10/19			•				Tue 31/3/20							
			Tue 31/3/20	HK Working Da	ау		100%	111d 10/10/19	Tue 31/3/20							
CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC	143 days		100									-				
CH.KA0+00 - CH.4+00 NS250 HDPE Pipe OC  Construction of Chambers	143 days 385 days		Sat 14/8/21	HK Working D	ay				Sat 14/8/21			7				
			100					Wed 29/4/20 Tue 5/5/20	Sat 14/8/21 Wed 15/7/20							
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at	385 days	Wed 29/4/20	Sat 14/8/21 Wed 15/7/20		pay		100%									
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47	<b>385 days</b> 60 days	Wed 29/4/20 Tue 5/5/20	Wed 15/7/20 Wed 26/8/20	HK Working Da	pay		100%	Tue 5/5/20 Wed 3/6/20	Wed 15/7/20							
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43	385 days 60 days 71 days 385 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21	HK Working Da	bay Day	784,762	100% 100% 100%	Tue 5/5/20 Wed 3/6/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21							
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43  DN900 Valve Chamber with by-pass pipes at CH.CA4+24	385 days 60 days 71 days 385 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20	Sat 14/8/21  Wed 15/7/20  Wed 26/8/20  Sat 14/8/21  Thu 22/12/22	HK Working Da HK Working Da HK Working Da	olay Olay Olay	784,762	100% 100% 100% 83%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21	<b>*</b> 22/1						
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43  DN900 Valve Chamber with by-pass pipes at CH.CA4+24  Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137  Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'	385 days 60 days 71 days 385 days 1162 days 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19	Sat 14/8/21  Wed 15/7/20  Wed 26/8/20  Sat 14/8/21  Thu 22/12/22  Tue 22/1/19	HK Working Da HK Working Da HK Working Da	oay Oay Oay	784,762	100% 100% 100% 83%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA	* 22/1 * 1/1						
Construction of Chambers  Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43  DN900 Valve Chamber with by-pass pipes at CH.CA4+24  Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137  Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'  Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20	HK Working Da HK Working Da HK Working Da  HK Working Da Calendar Day	oay Day Day	784,762	100% 100% 100% 83% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19			<ul><li>♦ 18/5</li></ul>				
Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43  DN900 Valve Chamber with by-pass pipes at CH.CA4+24  Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137  Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'  Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137  Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 13: between 137 Pit A and 137 Pit B	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days 37 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	Sat 14/8/21 Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	HK Working Da HK Working Da HK Working Da 2 HK Working Da Calendar Day Calendar Day	bay Day Day		100% 100% 100% 83% 100% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19 Wed 1/1/20 Tue 18/5/21			<ul><li>♦ 18/5</li><li>♦ 18/5</li></ul>				
Combined DAV & IT Chamber for DN1200 MS pipe at CH.CT2+47  Combined Washout Pump Pit for DN1200 MS pipe and NS250 HDPE pipe at CH.CT2+43  DN900 Valve Chamber with by-pass pipes at CH.CA4+24  Trenchless Works (DN1200 MS PIPE + NS250 HDPE PIPE) at TKO Area 137  Issue CE No. 07 - Water Supply to Tseung Kwan O Desalination Plant at Portion 'H'  Issue CE No. 17 - Realignment of Water Main by Trenchless Method in TKO Area 137  Issue CE No. 118 - Non-destructive Void detection survey in Tseung Kwan O Area 137	385 days 60 days 71 days 385 days 1162 days 0 days 7 0 days 37 0 days	Wed 29/4/20 Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 Thu 22/12/22 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21 Tue 18/1/22	HK Working Da HK Working Da HK Working D Calendar Day Calendar Day Calendar Day Calendar Day	oay Oay Oay 55FF	784,762 129	100% 100% 100% 83% 100% 100% 100%	Tue 5/5/20 Wed 3/6/20 Wed 29/4/20 Tue 22/1/19 Tue 22/1/19 Wed 1/1/20 Tue 18/5/21 Tue 18/1/22	Wed 15/7/20 Wed 26/8/20 Sat 14/8/21 NA Tue 22/1/19 Wed 1/1/20				1			

							Project: Mainlaying in Tseung	g Kwan O														
Гask Na	me	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019	2020		2021	2022		2023	2	2024 2024	202	25
	WCD instructed to retender	0 days	Fri 3/4/20	Fri 3/4/20	Calendar Day		128	100%	Fri 3/4/20	Fri 3/4/20	Q4   Q1   Q2   Q3   Q4	Q1   Q2   Q	3 Q4 Q1 Q	Q2   Q3   Q4 3/4	Q1   Q2	Q3   Q4   Q1	Q2   Q3   Q	4 Q1 Q2	Q3 Q4	Q1   Q2   Q3	Q4 Q1	Q2
		0 days				127																
	Retendering, Review & Approval	43 days	Mon 18/5/20	Mon 29/6/20	Calendar Day	127	129		Mon 18/5/20													
	Issue LOA	1 day	Thu 3/9/20	Thu 3/9/20	Calendar Day	128,125	135	100%	Thu 3/9/20	Thu 3/9/20												
	Trial Pit Excavation for Trenchless Works at TKO Area 137	156 days	Mon 2/9/19	Wed 11/3/20	HK Working Da	ау		100%	Mon 2/9/19	Wed 11/3/20												
	Pit 137A	35 days	Mon 2/9/19	Tue 15/10/19	HK Working Da	у		100%	Mon 2/9/19	Tue 15/10/19			7									
	Pit 137B	57 days	Mon 28/10/19	Sat 4/1/20	HK Working Da	у		100%	Mon 28/10/19	Sat 4/1/20										7		
	Pit 137C	14 days	Tue 25/2/20	Wed 11/3/20	HK Working Da	У		100%	Tue 25/2/20	Wed 11/3/20												
	Construction of jacking / Receiving Pits	106 days	Mon 9/11/20	Thu 18/3/21	HK Working Da	ıy		100%	Mon 9/11/20	Thu 18/3/21				-	-							
		3 days	Mon 9/11/20	Wed 11/11/20	Calendar Day	129	136,137,138	100%	Mon 9/11/20	Wed 11/11/20				1								
		58 days			HK Working Da		141FF-30 days		Mon 16/11/20									-				+
	Jacking Pit 137B (Renopipe)	59 days	Thu 12/11/20		HK Working Da		140		Thu 12/11/20													_
	Receiving Pit 137C (Renopipe)	49 days	Mon 18/1/21	Thu 18/3/21	HK Working Da	y 135	152	100%	Mon 18/1/21	Thu 18/3/21												
	TBM Pipe Jacking From Pit 137B to Pit 137A	410 days	Fri 22/1/21	Wed 15/6/22	HK Working Da	ау	170	79%	Fri 22/1/21	NA												
	Establishment at Pit 137B	29 days	Fri 22/1/21	Sat 27/2/21	HK Working Da	ny 137	141	100%	Fri 22/1/21	Sat 27/2/21												
		42 days	Mon 1/3/21	Thu 22/4/21	HK Working Da	y 140,136FF-30 days	142	100%	Mon 1/3/21	Thu 22/4/21					-							
	(CH.CCO+10 to CH.CC.1+24) in Soil mixed with rubbish (114m; 3m/day) Grouting and Remove setup at Pit 137A & Pit 137B	31 days	Fri 23/4/21	Mon 31/5/21	HK Working Da	ay 141	143	100%	Fri 23/4/21	Mon 31/5/21							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
	Setup for Pipe Laying inside jacking Pits 137B to Pit 137A	62 days	Wed 12/1/22	Mon 28/3/22	HK Working Da	ny 154,142	145	100%	Wed 12/1/22	Mon 28/3/22												
	DN1200 MS Pipe Laying inside jacking pipe (114m) (8m per 3 day)	14 days	Tue 29/3/22	Thu 14/4/22	HK Working Da	av 145	146	100%	Tue 29/3/22	Thu 14/4/22							•					
				Fri 28/1/22	HK Working Da		144		Fri 28/1/22	Fri 28/1/22						<b>*</b> 2	8/1					+
	NS250 HDPE Pipe Laying inside jacking pipe (114m) (8m per day)	0 days	Fri 28/1/22																			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Tue 19/4/22	Thu 21/4/22	HK Working Da		147	0%	NA	NA												_
	Grouting Works (20 meter/day)	6 days	Fri 22/4/22	Thu 28/4/22	HK Working Da	ay 146	148	0%	NA	NA							1					
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137A	24 days	Fri 29/4/22	Sat 28/5/22	HK Working Da	ay 147	149	0%	NA	NA												
	Remove ELS and Extract Sheetpile at Pit 137A	2 days	Mon 30/5/22	Tue 31/5/22	HK Working Da	ay 148	150	0%	NA	NA							1					
	Pipe Laying (DN1200 MS Pipe & NS250 HDPE Pipe) From Pit 137A to CH.CC1+38 &	12 days	Wed 1/6/22	Wed 15/6/22	HK Working Da	ay 149		0%	NA	NA							u					
	KC1+38 TBM Pipe Jacking From Pit 137B to Pit 137C	578 days	Tue 12/1/21	Thu 22/12/22	HK Working Da	ay		74%	Tue 12/1/21	NA		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			-			7				
	Revised Establishment at Pit 137B	39 days	Fri 19/3/21	Sat 8/5/21	HK Working Da	ay 138	153	100%	Fri 19/3/21	Sat 8/5/21												
	O WPR920 Steel Sleeve Pipe for both DN1200 & NS250 (Pit 137C - Pit 137B)	144 days	Sun 9/5/21	Sat 30/10/21	HK Working Da	av 152	154	100%	Sun 9/5/21	Sat 30/10/21												
	(CH.CBO+00 to CH.CB.2+46) in Soil mixed rubbish (246m; 1.5m/day) include 49 day	s		Fri 17/12/21	HK Working Da		155,143		Mon 1/11/21													-
	Grouting, Remove setup at Pit 137C and Pit 137B	41 days			55333 P.S 19 T 10 T.																	
	Setup for Pipe Laying inside jacking Pit 137B to Pit 137C	95 days	Tue 12/1/21	Tue 19/4/22	HK Working Da		157		Tue 12/1/21													
	DN1200 MS Pipe Laying inside jacking pipe (246m) (3 days per 8m)	93 days	Wed 20/4/22	Wed 10/8/22	HK Working Da	ay 157	158	75%	Wed 20/4/22	NA												
	NS250 HDPE Pipe Laying inside jacking pipe (246m) (8m per day)	4 days	Sat 22/1/22	Thu 27/1/22	HK Working Da	ay 155	156	100%	Sat 22/1/22	Thu 27/1/22						- 1						
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 11/8/22	Sat 13/8/22	HK Working Da	ay 156	159	0%	NA	NA		1					1					
	Grouting Works (20 meter/day)	13 days	Mon 15/8/22	Mon 29/8/22	HK Working Da	ay 158	160	0%	NA	NA												
	Construction of Combined Inspection and Washout Chamber (Type III) at Pit 137C	60 days	Tue 30/8/22	Thu 10/11/22	HK Working Da	ay 159	162,161	0%	NA	NA								1				
	Pipe Connection Inside Pit 137C	6 days	Fri 11/11/22	Thu 17/11/22	HK Working Da	ay 160		0%	NA	NA								I,				
	Pipe Laying (HB, BVB, Short Pipe), Thrust Block & backfilling inside Pit 137C	24 days	Fri 11/11/22	Thu 8/12/22	HK Working Da	av 160	163	0%	NA	NA												
			Fri 9/12/22		HK Working D			0%	NA	NA												
	Remove ELS and Remove ELS and Extract Sheetpile at Pit 137C	12 days																				
	Final Connection of NS250 HDPE Pipe to Existing at Wan Po Road	14 days	Tue 28/2/23		HK Working D			0%	NA	NA												
	nainlaying From Boundary of Tseung Kwan O Area 137 to TKO Fresh Water Service eservoir (Portion I)	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working D	Day		74%	Tue 7/11/17	NA										•		
	Open Cut Excavation, Pipe Laying and Reinstatement at Wan Po Road	1506 days	Thu 30/8/18	Thu 28/9/23	HK Working D	Day		81%	Thu 30/8/18	NA												
	Open Cut CH.A0+00 to CH.A3+62 (Pit 1)	1321 days	Mon 10/9/18	Sat 25/2/23	HK Working D	Day	762	88%	Mon 10/9/18	NA								7				
	Issue CE No. 76 - Unchartered Drain Pipe in Wan Po Road between CH.A1+12 and	0 days	Fri 30/10/20	Fri 30/10/20	Calendar Day			100%	Fri 30/10/20	Fri 30/10/20				*	30/10							
	CH.A1+14																				1	

						Project: Mainlaying in Tse														
Task Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018		2019	2020		2021	2022		2023	2024 2024	2025
	Issue CE No. 96 - Diversion of Uncharged Irrigation pipe at CH.A2+34 at Wan Po	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day		100%	Mon 18/1/21	Mon 18/1/21	Q4 Q1 C	Q2   Q3   Q4	Q1   Q2   Q3			Q1   Q2   Q3 > 18/1	Q4 Q1 0	Q2 Q3 Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3   Q	4 Q1 Q2 Q3
	Road	45 days	Thu 16/6/22	Mon 8/8/22	HK Working Day 139		0%	NA	NA											
	CH.A0+00 - CH.A0+14 OC								Tue 26/11/19											
	CH.A0+14 - CH.A0+50 OC	156 days	Thu 23/5/19	Tue 26/11/19																
	CH.A0+50 - CH.A1+50 OC	42 days	Mon 10/9/18	Wed 31/10/18	HK Working Day				Wed 31/10/18											
	CH.A1+50 - CH.A1+60 OC	53 days	Thu 1/11/18	Fri 4/1/19	HK Working Day		100%	Thu 1/11/18	Fri 4/1/19											
	CH.A1+60 - CH.A2+14 OC	107 days	Sat 5/1/19	Mon 20/5/19	HK Working Day		100%	Sat 5/1/19	Mon 20/5/19											
	CH.A2+14 - CH.A2+30 OC	150 days	Tue 1/9/20	Thu 4/3/21	HK Working Day		100%	Tue 1/9/20	Thu 4/3/21											
	CH.A2+30 - CH.A2+46 OC	105 days	Tue 27/10/20	Thu 4/3/21	HK Working Day		100%	Tue 27/10/20	Thu 4/3/21						-					
	CH.A2+46 - CH.A2+70 OC	93 days	Tue 10/11/20	Thu 4/3/21	HK Working Day	178	100%	Tue 10/11/20	Thu 4/3/21											
	CH.A2+70 - CH.A2+86 OC	74 days	Wed 2/12/20	Thu 4/3/21	HK Working Day 177		100%	Wed 2/12/20	Thu 4/3/21						-					
	CH.A2+86 - CH.A2+94 OC	48 days	Tue 5/1/21	Thu 4/3/21	HK Working Day	180	100%	Tue 5/1/21	Thu 4/3/21											
		218 days	Fri 5/3/21	Fri 26/11/21	HK Working Day 179	195		Fri 5/3/21	Fri 26/11/21											
	CH.A2+94 - CH.A3+34.5 OC (Excluding Road reinstatement					182	0%		NA NA											
	CH.A3+34.5 - CH.A3+60 OC with DN150 DAV	60 days	Wed 4/5/22	Fri 15/7/22	HK Working Day 197			NA												
	CH.A3+60 and connecting to Pit 1	30 days	Tue 3/1/23	Thu 9/2/23	HK Working Day 209,181	211,183	0%	NA	NA											
	Road reinstatement CH.A2+94 - CH.3+60	14 days	Fri 10/2/23	Sat 25/2/23	HK Working Day 182		0%	NA	NA											
Т	Trenchless Works (Pit 1 to Pit 2)	811 days	Mon 4/1/21	Thu 28/9/23	HK Working Day	762	61%	Mon 4/1/21	NA					•						
	Ground Investigation & Drilling Bored Hole at Receiving Pit 1	9 days	Tue 20/4/21	Thu 29/4/21	HK Working Day	192	100%	Tue 20/4/21	Thu 29/4/21						1					
	Setting out the inspection Pit for Jacking Pit 2	1 day	Mon 4/1/21	Mon 4/1/21	HK Working Day	187	100%	Mon 4/1/21	Mon 4/1/21											
	Mobilization and Excavation of Inspection Pit at Pit 2	28 days	Tue 5/1/21	Fri 5/2/21	HK Working Day 186	188	100%	Tue 5/1/21	Fri 5/2/21											
	Review alternative location for Pit 2 by WSD	29 days	Sat 6/2/21	Mon 15/3/21	HK Working Day 187	189	100%	Sat 6/2/21	Mon 15/3/21											
	Mobilization and excavation of Inspection Pit 2 after relocation	15 days	Tue 16/3/21	Thu 1/4/21	HK Working Day 188	190	100%	Tue 16/3/21	Thu 1/4/21									11		
	Mobilization; Ground Investigation & Drilling Bored Hole at Receiving Pit 2	17 days	Wed 7/4/21	Mon 26/4/21		192		Wed 7/4/21	Mon 26/4/21											
									Tue 18/5/21						<b>♦</b> 18/5					
	Issue EWN no. 405	0 days	Tue 18/5/21	Tue 18/5/21	HK Working Day										10/5					
	Subletting and Re-Design for Pit 1 & Pit 2 (Changing from conventional sheet pilir method to pipe pilling method	ng 84 days	Fri 30/4/21	Tue 10/8/21	HK Working Day 185,190	193	100%	Fri 30/4/21	Tue 10/8/21											
	Tendering, Subletting and Award for Constructing Pit 1 & Pit 2 (Pipe Pilling Metho	od) 57 days	Wed 11/8/21	Tue 19/10/21	HK Working Day 192	198,196	100%	Wed 11/8/21	Tue 19/10/21											
	Construction of Jacking / Receiving Pits	157 days	Wed 20/10/2	1 Tue 3/5/22	HK Working Day		94%	Wed 20/10/21	1 NA											
	Renopipe Release the working area for Luen Hing at Pit 1	0 days	Sat 27/11/21	Sat 27/11/21	HK Working Day 180	196	100%	Sat 27/11/21	Sat 27/11/21							<b>*</b> 27/11				
	Set up and Driving Pipe Piles and Grouting for Pit 1	50 days	Sat 27/11/21	Thu 27/1/22	HK Working Day 195,193	197	100%	Sat 27/11/21	Thu 27/1/22											
	Excavation and ELS installation for Pit 1	48 days	Thu 3/3/22	Tue 3/5/22	HK Working Day 196	208,181	70%	Thu 3/3/22	NA											
	Renopipe Release the working area for Luen Hing TTA Implement at Pit 2	9 days	Wed 20/10/22	1 Fri 29/10/21	HK Working Day 193	199	100%	Wed 20/10/21	Fri 29/10/21							1				
	Mobilization, Establishment, Driving Pipe Piles and Grouting for Pit 2	63 days	Sat 30/10/21	Fri 14/1/22	HK Working Day 198	200	100%	Sat 30/10/21	Fri 14/1/22											
	Excavation and ELS installation for Pit 2	82 days	Sat 15/1/22	Thu 28/4/22	HK Working Day 199	203	100%	Sat 15/1/22	Thu 28/4/22											
		420 days	Wed 4/5/22	Thu 28/9/23				Wed 4/5/22										-		
	TMB Pipe Jacking Pit 1- Pit 2					202		Wed 4/5/22	Wed 18/5/22											
	Additional GI Works beside Pit 2	12 days	Wed 4/5/22	Wed 18/5/22		203	100%													
	Mobilization & setup at Pit 2	40 days	Thu 19/5/22	Wed 6/7/22	HK Working Day 200,202	204	0%	NA	NA											
	TBM Jacking Sleeve Pipe (L=138m, 2m/day)	69 days	Thu 7/7/22	Mon 26/9/22	HK Working Day 203	205	0%	NA	NA											
	Grouting and Remove Setup including Thrust Wall	14 days	Tue 27/9/22	Fri 14/10/22	HK Working Day 204	206	0%	NA	NA											
	Setup Guard Rail	6 days	Sat 15/10/22	Fri 21/10/22	HK Working Day 205	207	0%	NA	NA								1			
	Pipe Laying inside Sleeve Pipe (8m pipe, 3 days per Joint)	51 days	Sat 22/10/22	Tue 20/12/22	HK Working Day 206	208	0%	NA	NA											
	Formwork & Setup for Grouting the Gap between Pipe and Sleeve	3 days	Wed 21/12/2	2 Fri 23/12/22	HK Working Day 207,197	209	0%	NA	NA											
	Grouting Works (30m/day)	5 days	Sat 24/12/22	Sat 31/12/22	HK Working Day 208	210,182	0%	NA	NA											
	Construction of Combined Inspection and Washout Chamber Type I at Pit 2	45 days	Tue 3/1/23		HK Working Day 209	217,218,220	0%	NA	NA											
	construction of committee inspection and trashout chamber 1790 Facility				0-1	,,-														
ing Progr	amme No. 15		ive Milestone		uration-only Start-		External Mileston		Critical Sp	plit										
	May 2022 Split Project Summary	1 Inact	ive Summary	N	Ianual Summary Rollup Finish	1-only	Deadline		Progress	1		12.3								

ask Nam	ie e	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019   2024   2024   2028   2019   2020   2021   2022   2023   2024   2025   2024   2026   2026   2026   2027
	Backfill, Remove ELS and Road Reinstatement at Pit 1	30 days	Fri 10/2/23	Thu 16/3/23	HK Working Day 182		0%	NA	NA	Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1 Q1 Q1 Q2 Q3 Q4 Q1
	Backfill. Remove ELS and Road Reinstatement at Pit 2	30 days	Fri 25/8/23	Thu 28/9/23	HK Working Day 217		0%	NA	NA	
	Open Cut CH.A5+29.5 (Pit 2) to CH.A7+12	1476 days	Thu 30/8/18	Thu 24/8/23	HK Working Day	762	80%	Thu 30/8/18	NA	
				Fri 1/2/19	Calendar Day			Fri 1/2/19	Fri 1/2/19	◆ 1/2
	Issue CE No. 06 - Unforeseen Underground Condition during Trench Excavation for Mainlaying at Wan Po Road between CH.A6+90 and CH.A7+10		Fri 1/2/19							
	Issue CE No. 22 - Instruction to change in Mainlayign Method at Wan Po Road between CH.A6+54 and A6+61	0 days	Mon 20/1/20	Mon 20/1/20	Calendar Day			Mon 20/1/20		
	Issue CE No. 25 - Unforeseen Underground Conditions during Trench Excavation at Wan Po Road between CH.A6+68 and CH.A6+88	0 days	Mon 29/6/20	Mon 29/6/20	Calendar Day		100%	Mon 29/6/20	Mon 29/6/20	
	CH.A5+16 and Connecting to Pit 2	30 days	Fri 21/7/23	Thu 24/8/23	HK Working Day 210,218	212	0%	NA	NA	
	CH.A5+16 - CH.A5+27 OC with DN900 Valve Chamber	115 days	Tue 28/2/23	Thu 20/7/23	HK Working Day 219,210	217	0%	NA	NA	
	CH.A6+54 - CH.A5+27 OC with SACP (CH.A6+00 - CH.A6+20)	272 days	Mon 28/12/20	Fri 26/11/21	HK Working Day 221	218,220	100%	Mon 28/12/20	Fri 26/11/21	
	Construction of Tee Branch and Monitoting Chamber at CH.A5+35	90 days	Tue 28/2/23	Mon 19/6/23	HK Working Day 210,219		0%	NA	NA	
	CH.A6+20 - CH.A6+54 OC	205 days	Wed 22/4/20	Sat 26/12/20	HK Working Day 222	219	100%	Wed 22/4/20	Sat 26/12/20	
		378 days	Mon 14/1/19	Sun 26/4/20	HK Working Day	221	100%	Mon 14/1/19	Sun 26/4/20	
	CH.A6+54 - CH.A6+70 OC + Handshield				HK Working Day	233		Thu 30/8/18		
	CH.A6+70 - CH.A7+12 OC	111 days	Thu 30/8/18	Sat 12/1/19						
	Open Cut CH.A7+12 to CH.A13+79.5	1323 days			HK Working Day	762,763		Wed 19/9/18		
	Issue CE No. 18 - Unforeseen Ground Condition at open trench of Mainlaying at Wan Po Road between CH/A12+89 and Ch.A13+04	0 days	Mon 27/5/19	Mon 27/5/19	Calendar Day		100%	Mon 27/5/19	Mon 27/5/19	
	Issue CE No. 20 - Traffic Count and Preliminary Traffic Analysis in Po Lam Road and Tsui Lam Road	0 days	Wed 19/6/19	Wed 19/6/19	Calendar Day		100%	Wed 19/6/19	Wed 19/6/19	9 • 19/6
	Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near	0 days	Thu 22/8/19	Thu 22/8/19	Calendar Day		100%	Thu 22/8/19	Thu 22/8/19	♦ 22/8
	CH.A12+40 Issue CE No. 84 - Realignment of Water main in Wan Po Road Between CH.A7+35	- 0 days	Tue 22/6/21	Tue 22/6/21	Calendar Day	231	100%	Tue 22/6/21	Tue 22/6/21	\$ 22/6
	CH.ACH,A8+30 Issue CE No. 109 - Manual Excavation under Unexpectedly Long and Continuous	0 days	Mon 22/3/21	Mon 22/3/21	Calendar Day		100%	Mon 22/3/21	Mon 22/3/21	◆ 22/3
	Extend of UU obstruction in Wan Po Road at CH.A11+80 Issue CE No. 127 - Manual Excavation under Unexpectedly long and contonuous		Tue 12/10/21	Tue 12/10/21	Calendar Day		100%	Tue 12/10/21	Tue 12/10/21	21
	extent of UU obstruction in Wan Po Road at CH. A0+88	99 days	Tue 22/6/21		HK Working Day 228	232	100%	Tue 22/6/21	Tue 19/10/21	21
	Tendering, Subletting and Award for Trenchless Works (CE No. 84)					252		Wed 20/10/21		
	Submission and approval of Method Statement of Hand shield for CE No. 84	101 days			HK Working Day 231					
	CH.A7+12 - CH.A7+30 OC	111 days	Fri 26/2/21	Wed 14/7/21	HK Working Day 223	234	100%	Fri 26/2/21	Wed 14/7/21	
	CH.A7+30 - CH.A7+34 OC	41 days	Thu 15/7/21	Tue 31/8/21	HK Working Day 233	235	100%	Thu 15/7/21	Tue 31/8/21	
	CH.A7+34 - CH.A7+50 OC	80 days	Mon 18/10/22	Fri 21/1/22	HK Working Day 234	236,239	100%	Mon 18/10/21	Fri 21/1/22	
	CH.A7+50 - CH.A7+58 OC	36 days	Tue 7/12/21	Thu 20/1/22	HK Working Day 235	240,237	100%	Tue 7/12/21	Thu 20/1/22	2
	CH.A7+58 - CH.A7+82 OC	43 days	Fri 21/1/22	Tue 15/3/22	HK Working Day 236	240,238	100%	Fri 21/1/22	Tue 15/3/22	
	CH.A7+82 - CH.A8+23 Trenchless (Mobilization, Setup and Handshield)	85 days	Tue 19/4/22	Sat 30/7/22	HK Working Day 237,239	240	35%	Tue 19/4/22	NA	
	CH.A8+23 - CH.A8+63 OC	74 days	Fri 21/1/22	Mon 25/4/22	HK Working Day 235	238,240	100%	Fri 21/1/22	Mon 25/4/22	22
	CH.A8+63 - CH.A9+37 OC	100 days	Mon 1/8/22	Mon 28/11/2	2 HK Working Day 236,238,237,239		0%	NA	NA	
			Thu 3/3/22		HK Working Day		60%	Thu 3/3/22		
	CH.A9+37 - CH.A10+18 OC	81 days			*					
	CH.A10+18 - CH.A11+51 OC	340 days	Tue 5/1/21		HK Working Day		90%	Tue 5/1/21		
	CH.A11+51 - CH.A12+12 OC with DN600 IT & DN300 Washout Chamber at CH.A12+00	263 days	Tue 1/9/20	Fri 23/7/21	HK Working Day 244				Fri 23/7/21	
	CH.A12+12 - CH.A12+50 OC With DN900 Valve Chamber	451 days	Sat 23/2/19	Mon 31/8/20	HK Working Day 245,246	243	100%	Sat 23/2/19	Mon 31/8/20	0
	CH.A12+50 - CH.A12+95 OC	125 days	Wed 19/9/18	Thu 21/2/19	HK Working Day	244	100%	Wed 19/9/18	Thu 21/2/19	
	CH.A12+95 - CH.A13+13 OC	84 days	Fri 9/11/18	Thu 21/2/19	HK Working Day	244	100%	Fri 9/11/18	Thu 21/2/19	,
	CH.A13+13 - CH.A13+40 OC + DN150 DAV	60 days	Fri 23/12/22	Thu 9/3/23	HK Working Day 248		0%	NA	NA	
	CH.A13+40 -CH.A 13+80 OC from Open Cut Trench to Jacking Pit A	60 days	Fri 14/10/22	Thu 22/12/22	HK Working Day 280	247,293	0%	NA	NA	
	Trenchless Work at Wan Po Road From Pit A to Pit F	1866 days	Tue 7/11/17	Mon 26/2/24	HK Working Day		56%	Tue 7/11/17	NA	
	Trial Pit Excavation for Pit 1 to Pit 20	462 days		Tue 10/9/19				Tue 20/2/18		9
	5.1990; 544. HUU 44. 197. 19					763		Fri 2/8/19	NA NA	
	Trenchless Works (Pit A to Pit D)		Fri 2/8/19		HK Working Day	703				A 2/8
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	0 days	Fri 2/8/19	Fri 2/8/19	Calendar Day		100%	Fri 2/8/19	Fri 2/8/19	◆ 2/8
_	Task	Inact	ive Milestone	D	aration-only Start-only	E E	External Milesto	one 🌼	Critical S	al Split
rc	ogramme No. 15 Split Project Summary		rive Summary	M	anual Summary Rollup Finish-only		Deadline		Progress	as and a second

m 1 11						Project: Mainlaying in Tseung	5 IXWIGI O										
ask Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018 2	019 019   2020		2021	202	22 2023	2024 2024	2025
	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near	0 days	Thu 8/8/19	Thu 8/8/19	Calendar Day		100%	Thu 8/8/19	Thu 8/8/19	Q4 Q1 Q2 Q3 Q4	Q1   Q2   Q3   Q4   Q1	Q2   Q3   Q4	Q1   Q2   Q	23 Q4 Q1	1 Q2 Q3 Q4 Q1 Q2 Q	Q4 Q1 Q2 Q3	Q4 Q1 Q2
	Wan O Road at CH. A16+00 (Pit B)	0 days	Thu 17/10/19	Thu 17/10/19	Calendar Day		100%	Thu 17/10/19	Thu 17/10/19		<b>♦ 17/10</b>						
	Issue CE No. 29 - Tree Transplant Works near CHA13+70								Mon 31/8/20			♦ 31/8	3				
	lssue CE No. 32 - Additional grouting Treatment works at Pit B in Wan Po Road nea Wan O Road		Mon 31/8/20	Mon 31/8/20	Calendar Day							V 5170	♦ 18/	15			
	Issue CE No. 118 - Non-destructive Void Detection Survey in TKO Area 137 betwee 137Pit A and 137Pit B	n 0 days	Tue 18/5/21	Tue 18/5/21	Calendar Day		100%	Tue 18/5/21	Tue 18/5/21								
	Issue CE No. 123 - Void Detection Survey in Wan Po Road between Pit A to Pit C	0 days	Fri 30/7/21	Fri 30/7/21	Calendar Day		100%	Fri 30/7/21	Fri 30/7/21				•	30/7			
	Expected CE No. 52 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day	259	0%	NA	NA						♦ 31/3		
	Road (Pit B to Pit D)  Expected CE No. 58 - Relocation of Working pits for Trenchless Works in Wan Po	0 days	Thu 31/3/22	Thu 31/3/22	Calendar Day 258		0%	NA	NA						♦ 31/3		
	Road (Pit A to Pit B)  Construction of Jacking / Receiving Pit A, B & C	737 days	Mon 12/8/19	Sun 6/2/22	HK Working Day		100%	Mon 12/8/19	Sun 6/2/22								
	Removal of Existing Planter for Jacking Pit A	6 days	Mon 15/6/20	Sat 20/6/20	HK Working Day	262	100%	Mon 15/6/20	Sat 20/6/20			1					
	Jacking Pit A with additional ground grouting works	462 days	Fri 17/7/20	Sun 6/2/22	HK Working Day 261		100%	Fri 17/7/20	Sun 6/2/22								
		664 days	Mon 12/8/19	Fri 5/11/21	HK Working Day	299	100%	Mon 12/8/19	Fri 5/11/21								
	Jacking / Receiving Pit B with additional ground grouting works								Thu 26/11/20								
	Receiving Pit C with additional ground grouting works	295 days	Fri 29/11/19	Thu 26/11/20													
	Construction of Jacking pit D	372 days	Wed 12/8/20	Thu 11/11/21					Thu 11/11/21								
	TTA submission and Approval , Suspension of Parking Meters and TTA Implement for Jacking Pit D	nt 112 days	Wed 12/8/20	Tue 1/12/20	Calendar Day	267		Wed 12/8/20									
	Inspection Pits & GI Works for Jacking Pit D	27 days	Wed 2/12/20	Tue 5/1/21	HK Working Day 266	317,268	100%	Wed 2/12/20	Tue 5/1/21								
	Design Submission with ICE Certificate for Jacking Pit D	26 days	Fri 15/1/21	Wed 17/2/21	HK Working Day 267	269,270	100%	Fri 15/1/21	Wed 17/2/21								
	Approval of Design of Jacking Pit D	8 days	Thu 18/2/21	Fri 26/2/21	HK Working Day 268	271	100%	Thu 18/2/21	Fri 26/2/21				1				
	Approval Existing Sub-contractor to carry out Construction of Jacking Pit D	0 days	Fri 26/3/21	Fri 26/3/21	HK Working Day 268	271	100%	Fri 26/3/21	Fri 26/3/21				<b>*</b> 26/3				
	Mobilization and Pipe Pile Wall Construction for Jacking Pit D	78 days	Thu 1/4/21	Fri 9/7/21	HK Working Day 270,269	272	100%	Thu 1/4/21	Fri 9/7/21								
		104 days	Sat 10/7/21	Thu 11/11/21		303	100%	Sat 10/7/21	Thu 11/11/21								
	Construction of Jacking Pit D at Car Park			4.2			0%	Thu 14/4/22									
	New Routing From Pit A to Pit D)	553 days	Thu 14/4/22		HK Working Day												
	Verbal Instructed to Change Pit A to Pit D by Trenchless Method to Open Cut Method & Handshield	1 day	Thu 14/4/22	Thu 14/4/22	HK Working Day	275	100%	Thu 14/4/22	Thu 14/4/22								
	XP Application for WPR, SKR and Open Trench at Shek Kok Road	60 days	Tue 19/4/22	Thu 30/6/22	HK Working Day 274	278,279,286	0%	NA	NA								
	Trial Pit Excavation at Pit A1	3 days	Sat 14/5/22	Tue 17/5/22	HK Working Day		100%	Sat 14/5/22	Tue 17/5/22								
	Remove Central Divider between Wan O Road amd Shek Kok Road	81 days	Mon 16/5/22	Fri 19/8/22	HK Working Day		0%	Mon 16/5/22	NA			5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8					
	Trial Pit Excavation at Pit WPR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 275	287	0%	NA	NA								
	Trial Pit Excavation at Pit SKR	10 days	Sat 2/7/22	Wed 13/7/22	HK Working Day 275	288,285,284	0%	NA	NA								
	Pipe Laying (OC) from Pit A1 towward KLN (124m)	124 days	Tue 17/5/22	Thu 13/10/22	HK Working Day	281,248	0%	Tue 17/5/22	NA								
		60 days	Fri 14/10/22		HK Working Day 280	282	0%	NA	NA								
	Pipe Laying (OC) from WPR (N/B)(the 1st Lane to the 3rd lane) (30m)				HK Working Day 281		0%	NA	NA								
	Pipe Laying (OC) crossing WPR Junction with Wan O Road to Central Divider (73m)	90 days	Fri 23/12/22	Tue 18/4/23													
	Pipe Laying (OC) along Central Divider to Pit WPR (340m)	340 days	Fri 20/5/22		HK Working Day	295,287	0%	Fri 20/5/22	NA								
	Pipe Laying (OC) from Pit SKR to Pit D (1st 200m)	200 days	Thu 14/7/22	Tue 14/3/23	HK Working Day 279	288	0%	NA	NA								
	Pipe Laying (OC) from Pit SKR to Pit D (Remaining 110m)	110 days	Thu 14/7/22	Tue 22/11/22	HK Working Day 279	297	0%	NA	NA								
	Construction of Pit A1	90 days	Sat 2/7/22	Tue 18/10/22	HK Working Day 275	289	0%	NA	NA								
	Construction of Pit WPR	90 days	Thu 13/7/23	Sat 28/10/23	HK Working Day 278,283		0%	NA	NA								
	Construction of Pit SKR	90 days	Wed 15/3/23	Thu 6/7/23	HK Working Day 279,284	290	0%	NA	NA								
	Headshield Tunneling fom Pit A to Pit A1 (102m)	170 days	Wed 19/10/2	2 Wed 17/5/23	HK Working Day 286	291	0%	NA	NA								
	Headshield Tunneling fom Pit SKR to Pit WPR (64m)	107 days	Fri 7/7/23	Sat 11/11/23	HK Working Day 288	292	0%	NA	NA								
		40 days	Thu 18/5/23		Calendar Day 289	293,294	0%	NA	NA								
	MS Pipe Laying in Segment from Pit A to Pit A1					295,296	0%	NA	NA								
	MS Pipe Laying in Segment from Pit SKR to Pit WPR	30 days			3 Calendar Day 290	293,230									-		
	Pipe Connection works & Construction Special Combined Insepction and Washout Chamber at Pit A	60 days	Tue 27/6/23	Tue 5/9/23	HK Working Day 291,248		0%	NA	NA								
	Pipe Connection works at Pit A1	12 days	Tue 27/6/23	Tue 11/7/23	HK Working Day 291		0%	NA	NA								

							Project: Mainlaying in Tse													
Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019	2019	2020	202		2022	2023	2024		2025
		co 4	Tue 12/12/22	Mon 36/2/24	HK Working D	202 283			NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q	2 Q3 Q4 Q1 Q	Q2   Q3   Q4   Q1	Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2   Q3   Q4	Q1   Q2
	Pipe Connection Works and construction of Inspoection Chamber at Pit WPR	60 days	Tue 12/12/23																	
	Pipe Connection Works and construction of Washout Chamber at Pit SKR	60 days	Tue 12/12/23	Mon 26/2/24	HK Working Day	292			NA	NA										
Т	Pipe Connection Works and construction of Washout Chamber at Pit D  BM Pipe Jacking (Pit B to Pit C)	60 days 157 days	Wed 23/11/22 Mon 8/11/21	Tue 7/2/23 Mon 23/5/22	HK Working Day HK Working Day		New Years		NA Mon 8/11/21	NA Mon 23/5/22					-	-				
	Establishment at Pit B with additional ground treatment for stopping water	112 days	Mon 8/11/21	Thu 24/3/22	HK Working Day	263	300	100%	Mon 8/11/21	Thu 24/3/22									A STATE OF THE STA	
	ingress  Jacking DN1600 Precast Concrete Sleeve Pipe From Pit B to Pit C (L=326m;	30 days	Thu 24/3/22	Wed 4/5/22	HK Working Day	299	301	100%	Thu 24/3/22	Wed 4/5/22						-				
	2.5m/day) Extracting TBM and remove TBM from Pit B	15 days	Thu 5/5/22	Mon 23/5/22	HK Working Day	300		100%	Thu 5/5/22	Mon 23/5/22										
Т	IBM Pipe Jacking (Pit D to Pit C)	98 days	Mon 22/11/21	Wed 23/3/22	HK Working Day			100%	Mon 22/11/21	L Wed 23/3/22					-	-				
	Establishment at Pit D	47 days	Mon 22/11/21	Tue 18/1/22	HK Working Day	272	304	100%	Mon 22/11/21	Tue 18/1/22										
	DN1920 Steel Jacked Pipe (Pit D - Pit C) (CH.A19+26 to CH.A22+80) in Soil (370m		Wed 19/1/22		HK Working Day	, 303		100%	Wed 19/1/22	Tue 22/3/22										
	2.5m/day)			Wed 23/3/22						Wed 23/3/22						⇒ 23/3				
	Pipe Jacking stopped on 23/3/2022 m Pit D Crossing Wan Po Road and Lohas Park Road to TKO Landfill Stage I (Area	0 days 2046 days	Tue 7/11/17	Wed 14/6/23	and the second s		763		Tue 7/11/17								7			
	ssue CE No. 24 - Ground Investigation for Working Pit E, F and Trenchless Works	0 days	Fri 27/9/19	Fri 27/9/19	Calendar Day		309	100%	Fri 27/9/19	Fri 27/9/19			<b>27/9</b>							
	across MTTunnel Issue CE No. 80 - Site Clearance for Crossing Lohas Road Junction (Option 5)	0 days	Tue 3/11/20	Tue 3/11/20	Calendar Day			100%	Tue 3/11/20	Tue 3/11/20				♦ 3/11						
	Tender & Subletting	71 days	Fri 27/9/19	Fri 6/12/19	Calendar Day	307		100%	Fri 27/9/19	Fri 6/12/19										
	Mobilization and Establishment of GI equipment	7 days	Mon 17/2/20	Mon 24/2/20	HK Working Day		311	100%	Mon 17/2/20	Mon 24/2/20			1							
	Ground Investigation GI No. 3	33 days	Tue 25/2/20	Thu 2/4/20	HK Working Day			100%	Tue 25/2/20	Thu 2/4/20										
		0 days			Calendar Day		313,314,315			Wed 21/10/2	0			<b>*</b> 21/10						
1	Issue CE No. 77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road				Calendar Day	312	,			Thu 31/12/20										
	Quotation Submission and Acceptant for CE No. 77	72 days 42 days		Tue 1/12/20	Calendar Day				Wed 21/10/20											
	CE No. 77 - Submission of Geotechnical Assessment Repot						316,317			Thu 31/12/20		-								
	CE No. 77 - Design Submission	72 days		Thu 31/12/20			310,317		Fri 3/9/21	Fri 3/9/21					<b>♦</b> 3/9					
	CE No. 77 - Approval of Design Submission	0 days	Fri 3/9/21	Fri 3/9/21	Calendar Day		240								<b>*</b> 11/8					
	Issue CE No. 67 - Realignment of Water Main near Wan Po Road and Lohas Park Road	0 days		Wed 11/8/21			319			Wed 11/8/21									+	
	Obtain MTR's approval on the alignment and construction method about MTR's tunnels	91 days	Mon 13/12/21	Mon 14/3/22	Calendar Day	320FF	348,347			1 Mon 14/3/22										
	Tender Process and Tender Award for CE No. 67	77 days	Wed 11/8/21	Tue 26/10/21	Calendar Day	317	320,363	100%	Wed 11/8/21	Tue 26/10/21										
	TTA approval and Implement for CE No. 67	125 days	Wed 27/10/21	Mon 28/2/22	Calendar Day	319	348,318FF,347			1 Mon 28/2/22										
	Handshield Crossing Wan Po Road (CH.FA0+15 to CH.FA0+50)	1484 days	Tue 7/11/17	Thu 10/11/22	HK Working Da	У			Tue 7/11/17		Y									
	Issue CE No. 98 - Tree Felling at Lohas Park Road	0 days	Mon 18/1/21	Mon 18/1/21	Calendar Day		323	100%	Mon 18/1/21	Mon 18/1/21				•	18/1					
	TPRP Submission and Approval for Tree at Slope Feature 12SW-A/FR102	121 days	Mon 18/1/21	Tue 18/5/21	Calendar Day	322	324	100%	Mon 18/1/21	Tue 18/5/21										
	Tree Felling and Tree Works at Slope Feature 12SW-A/FR102	7 days	Mon 21/6/21	Mon 28/6/21	HK Working Day	y 323		100%	Mon 21/6/21	Mon 28/6/21										
	Approval TTA for Loading and Unloading at R27	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Da	у	326	0%	NA	NA						<b>▶</b> 1/6				
	Strengthen Works at Feature 12SW-A/R27	80 days	Wed 1/6/22	Sat 3/9/22	HK Working Da	y 325		0%	NA	NA									77	1
	Strengthen Works at Feature 12SW-A/R28	98 days	Tue 14/12/21	Thu 14/4/22	HK Working Da	У	329	100%	Tue 14/12/21	Thu 14/4/22										
	Concrete coring and breaking opening on Retaining Wall (R27)	1 day	Tue 7/11/17	Tue 7/11/17	None		335	0%	NA	NA										
	Concrete coring and breaking opening on Retaining Wall (R28)	30 days	Wed 27/4/22	Thu 2/6/22	HK Working Da	y 327	330	3%	Wed 27/4/22	NA						101				
	Handshield Establishment	14 days	Sat 4/6/22	Mon 20/6/22	HK Working Da	y 329	331	0%	NA	NA		# 1								
	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.6m/day)	58 days	Tue 21/6/22	Sat 27/8/22	HK Working Da	ıy 330	332	0%	NA	NA		1								
	Remove establishment	6 days	Mon 29/8/22	Sat 3/9/22	HK Working Da	y 331	333	0%	NA	NA						1				
	Setup for Pipe Laying inside jacking	6 days	Mon 5/9/22	Sat 10/9/22	HK Working Da		334	0%	NA	NA						1				
	DN900 MS Pipe Laying inside jacking pipe (35m) (say 3 days per 8m)	15 days	Tue 13/9/22	Thu 29/9/22			335	0%	NA	NA										
			Fri 30/9/22	Sat 8/10/22	HK Working Da		336	0%	NA	NA							1			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	6 days			2 HK Working Da		337	0%	NA	NA							1			
	Grouting Works (30 meter/day)	4 days																		
	Pipe laying Works From Pit D to CH.FA0+15	24 days	Fri 14/10/22	Thu 10/11/22	2 HK Working Da	ay 336	339	0%	NA	NA										
	Task Summary	Inacti	ive Milestone	D	Ouration-only	Start-only	С	External Milesto	ne 💠	Critical	Split									
rogran	nme No. 15 Split Project Summary		ive Summary	N	Ianual Summary Rollup 🕳	Finish-only	3	Deadline	4	Progress										

	In .	le.	Ir::-t	Test Calandar D3	Project: Mainlaying in T	I'seung Kwan O	Actual Cens	Actual Finish	
	Duration	Start	Finish	Task Calendar Predecessors	Successors	Complete	Actual Start	Actual Finish	2019   2021   2022   203   Q4   Q1   Q2   Q3   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4   Q1   Q2   Q3   Q4   Q1   Q3   Q4
rtical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA0+50 to	173 days	Fri 11/11/22	Wed 14/6/23	HK Working Day		0%	NA	NA	Q4 Q1 Q2 Q3 Q4 Q1
. <mark>.FA0+85)</mark> Vertical pipes with Concrete Surround	30 days	Fri 11/11/22	Thu 15/12/22	HK Working Day 337	340	0%	NA	NA	
Exposed pipes with concrete surround	30 days	Fri 16/12/22	Thu 26/1/23	HK Working Day 339	341	0%	NA	NA	
Open cut pipe laying with concrete surround	30 days	Wed 10/5/23	Wed 14/6/23	HK Working Day 359,340		0%	NA	NA	
	289 days	Thu 19/5/22	Tue 9/5/23	HK Working Day		0%	Thu 19/5/22	NA	
nd Shield Pipe Jacking crossing Lohas Park Road		Thu 19/5/22	Thu 19/5/22	HK Working Day	347	100%	Thu 19/5/22	Thu 19/5/22	2 19/5
MTR's Consent for Construction of Pit E	0 days				348	99%	Wed 1/6/22		▶ 1/6
MTR's Consent for Construction of Pit F	0 days	Wed 1/6/22	Wed 1/6/22	HK Working Day					<i>→</i> 6/6
MTR's Consent for Construction of Pit G	0 days	Mon 6/6/22	Mon 6/6/22	HK Working Day	349	99%	Mon 6/6/22		◆ 13/6
Loading & Unloading TTA for Pit G	0 days	Mon 13/6/22	Mon 13/6/22	HK Working Day	349	99%	Mon 13/6/22	NA	13/0
Construction of Receiving Pit E	45 days	Mon 23/5/22	Fri 15/7/22	HK Working Day 318,320,343		0%	Mon 23/5/22	NA	
Construction of Jacking Pit F	45 days	Wed 1/6/22	Mon 25/7/22	HK Working Day 320,318,344	350	0%	NA	NA	
Construction of Receiving Pit G	45 days	Mon 13/6/22	Thu 4/8/22	HK Working Day 345,346		0%	NA	NA	
Establishment at Pit F	14 days	Tue 26/7/22	Wed 10/8/22	HK Working Day 348	351	0%	NA	NA	
Mild Steel Sleeve Pipe (Pit F - Pit E) in Soil Mix (40m; 0.4m/day)	100 days	Thu 11/8/22	Thu 8/12/22	HK Working Day 350	352	0%	NA	NA	
Mild Steel Sleeve Pipe (Pit F - Pit G) in Soil Mix (20m; 0.4m/day)	50 days	Fri 9/12/22	Sat 11/2/23	HK Working Day 351	353	0%	NA	NA	
Remove setup Including Thrust Wall at Pit F	6 days	Mon 13/2/23	Sat 18/2/23	HK Working Day 352	354	0%	NA	NA	
Setup for Pipe Laying inside jacking Pit F	6 days	Mon 20/2/23	Sat 25/2/23	HK Working Day 353	355	0%	NA	NA	
DN900 MS Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	Mon 27/2/23	Sat 1/4/23	HK Working Day 354	356	0%	NA	NA	
Modify Setup for Pipe Laying inside jacking Pit F	6 days	Mon 3/4/23	Thu 13/4/23	HK Working Day 355	357	0%	NA	NA	
	15 days	Fri 14/4/23	Tue 2/5/23	HK Working Day 356	358	0%	NA	NA	
DN900 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)		Wed 3/5/23	Fri 5/5/23	HK Working Day 357	359	0%	NA	NA	
Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days					0%	NA	NA	
Grouting Works (30 meter/day)	3 days	Sat 6/5/23	Tue 9/5/23	HK Working Day 358	341,361				
ertical Pipes, Exposed Pipes & Burned Pipes above MTR Tunnels (CH.FA1+50 to I.FA2+17)			Wed 14/6/23			59%	Tue 7/11/17		
Vertical pipes with Concrete Surround	30 days	Wed 10/5/23				0%	NA	NA	
Exposed pipes with concrete surround	60 days	Tue 15/2/22	Fri 29/4/22	HK Working Day 366		0%	NA	NA	
Site Clearance at Storage Yard	3 days	Mon 1/11/21	Wed 3/11/21	HK Working Day 319	366		Mon 1/11/21		
Plate Load Tests for Tower P2	34 days	Tue 9/11/21	Fri 17/12/21	HK Working Day		100%	Tue 9/11/21	Fri 17/12/21	
Construction footing of Tower P2 at CH.FA1+76	72 days	Sat 18/12/21	Fri 18/3/22	HK Working Day		100%	Sat 18/12/21	Fri 18/3/22	
Open cut pipe laying with concrete surround (CH.FA1+76 to CH.FA2+04)	82 days	Thu 4/11/21	Mon 14/2/22	HK Working Day 363	362	100%	Thu 4/11/21	Mon 14/2/2	22
Open cut pipe laying from CH.FA2+04 to CH.FB0+03 & Connect to DN900SV	42 days	Tue 7/11/17	Wed 27/12/1	7 HK Working Day		0%	NA	NA	
Chamber Cut Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO	1221 days	Thu 23/8/18	Fri 7/10/22	HK Working Day		91%	Thu 23/8/18	NA	
Waterfront Promenade e CE No. 05 - Feasibility Studey Realignment of pipline at Tseung Kwan O Stage I	I O days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18	.8
dfill e CE No. 36 - Realignment of Watermain along the Bituminous Road adjacent to	0 days	Fri 22/5/20	Fri 22/5/20	Calendar Day		100%	Fri 22/5/20	Fri 22/5/20	♦ 22/5
as Park Road e CE No. 34 - Realignment of Watermain along TKO Stage I Landfill	0 days	Tue 5/11/19	Tue 5/11/19	Calendar Day		100%	Tue 5/11/19	Tue 5/11/19	.9 \$ 5/11
Landfill Stage I Area A (CH.FB0+00 to CH.FB5+34)	712 days	Fri 15/5/20	Fri 7/10/22	HK Working Day	764	85%	Fri 15/5/20	NA	
H.FB0+00 DN300 Washout Chamber	60 days	Tue 7/12/21	Mon 21/2/22	2 HK Working Day 374		0%	NA	NA	
:H.FB0+00 - CH.FB 1+66 OC with DN900 Valve Chamber with DN150 by-pass	372 days	Sat 5/9/20	Mon 6/12/21		373	100%	Sat 5/9/20	Mon 6/12/2	21
			Sat 21/8/21				Fri 15/5/20	Sat 21/8/21	
H.FB1+66 - CH.FB 5+39 OC	379 days				381		Mon 12/4/21		
:H.FB5+34 - CH.FC 0+00 OC	101 days			1 HK Working Day 394					
H.FB 5+34 DN300 DN600 IT Chamber	30 days	Tue 21/6/22			378	0%	NA	NA	
CH.FB 5+34 DN300 Washout Chamber	60 days		Fri 7/10/22	HK Working Day 377		0%	NA	NA	
O South Waterfront Promenade (CH.FC0+00 - CH.FC 4+87)	443 days	Wed 26/2/20	Tue 24/8/21	. HK Working Day		100%	Wed 26/2/20	Tue 24/8/21	
Task Suramary	Inac	tive Milestone	1	Duration-only St.	art-only	External Mileste	one 💠	Critica	cal Split
ne No. 15 Split Project Summary		tive Summary			nish-only	Deadline	4	Progre	ress und Progress

						Project: Mainlaying in Tse	eung Kwan O												
Task Nam	ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	ctual Start	Actual Finish	2018	2019	2020	2021		2022	2023	2024 2024		2025
	CUTCO OD CUTCO 20 OC	38 days	Mon 12/7/21	Tue 24/8/21	HK Working Day 381		100% N	10n 12/7/21	Tue 24/8/21	Q4 Q1 Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q2 Q3	Q4 Q1	Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3   Q4   Q1	Q2   Q3   Q4	Q1   Q2   Q3
			Sat 19/6/21	Tue 24/8/21	HK Working Day 382,376	380			Tue 24/8/21										
		56 days							Mon 6/4/20										
		34 days	Wed 26/2/20	Mon 6/4/20	HK Working Day	383,381													
	CH.FC 0+95 - CH.FC 1+27 OC	30 days	Mon 6/4/20	Fri 15/5/20	HK Working Day 382	384			Fri 15/5/20										
	CH.FC 1+27 - CH.FC 1+59 OC	31 days	Fri 15/5/20	Fri 19/6/20	HK Working Day 383	385		ri 15/5/20	Fri 19/6/20										
	CH.FC 1+59 - CH.FC 1+91 OC	21 days	Fri 19/6/20	Wed 15/7/20	HK Working Day 384	386	100% F	ri 19/6/20	Wed 15/7/20										
	CH.FC 1+91 - CH.FC 2+23 OC	29 days	Wed 15/7/20	Mon 17/8/20	HK Working Day 385	387	100% V	Ved 15/7/20	Mon 17/8/20										
	CH.FC 2+23 - CH.FC 2+55 OC	25 days	Mon 17/8/20	Mon 14/9/20	HK Working Day 386	388	100% N	Mon 17/8/20	Mon 14/9/20										
	CH.FC 2+55 - CH.FC 2+87 OC	38 days	Mon 14/9/20	Fri 30/10/20	HK Working Day 387	389	100% N	/lon 14/9/20	Fri 30/10/20				-						
	CH.FC 2+87 - CH.FC 3+19 OC	24 days	Fri 30/10/20	Thu 26/11/20	HK Working Day 388	390	100% F	ri 30/10/20	Thu 26/11/20				•						
-	CH.FC 3+19 - CH.FC 3+51 OC	20 days	Thu 26/11/20	Fri 18/12/20	HK Working Day 389	391	100% T	hu 26/11/20	Fri 18/12/20										
	CH.FC 3+51 - CH.FC 3+83 OC	30 days	Fri 18/12/20	Mon 25/1/21	HK Working Day 390	392	100% F	ri 18/12/20	Mon 25/1/21										
	CH.FC 3+83 - CH.FC 4+15 OC	24 days	Mon 25/1/21	Wed 24/2/21	HK Working Day 391	393	100% N	Non 25/1/21	Wed 24/2/21				I.						
		17 days	Wed 24/2/21	Mon 15/3/21	HK Working Day 392	394	100% V	Ved 24/2/21	Mon 15/3/21										
		21 days	Mon 15/3/21	Mon 12/4/21	HK Working Day 393	376	100% N	/lon 15/3/21	Mon 12/4/21										
		458 days	Tue 24/3/20	Sat 9/10/21	HK Working Day		100% T	ue 24/3/20	Sat 9/10/21			-		-					
		72 days	Tue 24/3/20	Mon 22/6/20		397			Mon 22/6/20										
						398			Mon 27/7/20										
		29 days	Mon 22/6/20																
	CH.FC 5+51 - CH.FC 5+83 OC	32 days	Mon 27/7/20		HK Working Day 397	399			Tue 1/9/20										
	CH.FC 5+83 - CH.FC 6+15 OC	28 days	Tue 1/9/20	Mon 5/10/20		400		ue 1/9/20	Mon 5/10/20										
	CH.FC 6+15 - CH.FC 6+47 OC	27 days	Mon 5/10/20	Thu 5/11/20	HK Working Day 399	401			Thu 5/11/20						1				
	CH.FC 6+47 - CH.FC 6+79 OC	25 days	Thu 5/11/20	Thu 3/12/20	HK Working Day 400	402	100% T	hu 5/11/20	Thu 3/12/20										
	CH.FC 6+79 - CH.FC 7+11 OC	29 days	Thu 3/12/20	Fri 8/1/21	HK Working Day 401	403	100% 7	hu 3/12/20	Fri 8/1/21										
	CH.FC 7+11 - CH.FC 7+43 OC	19 days	Fri 8/1/21	Fri 29/1/21	HK Working Day 402	404	100% F	ri 8/1/21	Fri 29/1/21										
	CH.FC 7+43 - CH.FC 7+75 OC	25 days	Sat 30/1/21	Wed 3/3/21	HK Working Day 403	405	100%	Sat 30/1/21	Wed 3/3/21										
	CH.FC 7+75 - CH.FC 8+07 OC	22 days	Wed 3/3/21	Sat 27/3/21	HK Working Day 404	406	100%	Wed 3/3/21	Sat 27/3/21					1	100				
	CH.FC 8+07 - CH.FC 8+39 OC	40 days	Sat 27/3/21	Tue 18/5/21	HK Working Day 405	407	100%	Sat 27/3/21	Tue 18/5/21										
	CH.FC 8+39 - CH.FC 8+43 OC	116 days	Mon 24/5/21	Sat 9/10/21	HK Working Day 406		100%	Mon 24/5/21	Sat 9/10/21										
	CH.FC 8+43 - CH.FC 8+59 OC	39 days	Tue 24/8/21	Sat 9/10/21	HK Working Day	411	100%	Tue 24/8/21	Sat 9/10/21										
	TKO Landfill Stage I Area B (CH.FC 8+59 - CH.FC 13+26)	677 days	Tue 14/4/20	Tue 26/7/22	HK Working Day		89%	Tue 14/4/20	NA						-				
	Construct DN150 DAV Chamber at CH.FC 9+83	30 days	Tue 21/6/22	Tue 26/7/22	HK Working Day 411		0% 1	VA.	NA						-				
	CH.FC 8+59 - CH.FC 9+83 OC	200 days	Fri 15/10/21		HK Working Day 412,408	423,377,410	80% I	ri 15/10/21	NA										
		402 days	Tue 14/4/20	Thu 19/8/21	HK Working Day	411			Thu 19/8/21										
	CH.FC 9+83 - CH.FC 13+26 OC with Monitoring Chamber				B HK Working Day	411		Wed 17/6/20				-					-		
	Water Mains Near Pung Loi Road (CH.FD0+00 - CH.A3+51)	1020 days							Wed 17/6/20			<b>•</b> 17	1/6						
	Issue CE No. 65 - Landscaping Survey near Po Yap and Pung Loi Road	0 days			Calendar Day								♦ 22/1	2					
	Issue CE No. 87 - Affected Trees near Pung Loi Road, Po Yap Road and Wan Po Road	0 days	Tue 22/12/20	Tue 22/12/20	Calendar Day	416			Tue 22/12/20				₹ 22/1						
	TPRP Submission and Approval	304 days	Tue 22/12/20	Thu 21/10/21	L Calendar Day 415,614	417	100%	Tue 22/12/20	Thu 21/10/2										
7	Site Possession and Tree Removal Works	21 days	Fri 22/10/21	Thu 11/11/2	L Calendar Day 416	427	100%	Fri 22/10/21	Thu 11/11/2						1				
8	Issue CE No. 60 - Realignment of Water Main near Pung Loi Road	0 days	Thu 27/5/21	Thu 27/5/21	Calendar Day	419,421	100%	Thu 27/5/21	Thu 27/5/21					<b>♦</b> 27/5					
9	Tender Process and Tender Award for CE No. 60	169 days	Thu 27/5/21	Thu 11/11/2	L Calendar Day 418	420	100%	Thu 27/5/21	Thu 11/11/2										
0	Design & Method Statement Submission and Approval; Preparation Works for CE No	o. 90 days	Sun 7/11/21	Fri 4/2/22	Calendar Day 419	424	100%	Sun 7/11/21	Fri 4/2/22										
21	60 TTA preparation, SLG meetings and obtain RA	188 days	Thu 27/5/21	Tue 30/11/2	L Calendar Day 418	427,429	100%	Thu 27/5/21	Tue 30/11/2										
	ogramme No. 15 Task Summary Split Project Summary		ive Milestone		Duration-only Start-onl Ianual Summary Rollup Finish-o		External Milestone Deadline	- 0 -	Critical Progress	plit									
	Split Project Summary  Allestone Inactive Task		ral Task		Ianual Summary External		Critical		Manual	rogress									

Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	201	19 19 1   Q2   Q3   Q4   Q1   Q2   Q3   Q	2021	2022	2023	024 024 01   02   03   0	2025
Open Trench Crossing Pung Loi Avenue	156 days	Mon 20/6/22	Fri 23/12/22	HK Working Day		0%	NA	NA	Q4 Q1 Q2 0	Q3 Q4 Q1	1   Q2   Q3   Q4   Q1   Q2   Q3   Q	4 Q1 Q2 Q3	Q4 Q1 Q2	Q5 Q4 Q1 Q2 Q5 Q4	71	24 QI Q
Obtain Access from EPD (TKO Landfill Stage   Area B)	14 days	Mon 20/6/22	Thu 7/7/22	HK Working Day 411	424	0%	NA	NA				4				
	100 days	Fri 8/7/22	Fri 4/11/22	HK Working Day 420,423	425	0%	NA	NA								
CH.FD0+00 - CH.FD0+65 OC				HK Working Day 424		0%	NA	NA								
Construction DN900 SV Chamber at CH.FD0+25	42 days	Sat 5/11/22	Fri 23/12/22													
Exposed Pipe From CH.FDD0+65 to FDSKR+00	337 days	Mon 3/1/22	Wed 22/2/23	HK Working Day			Mon 3/1/22									
Excavation In Slope Toe; Construction of Flooding Protecxtion Wall with U-Channel, Length = 135m, @12m @18days	216 days	Wed 12/1/22	Thu 6/10/22	HK Working Day 421,417	428	50%	Wed 12/1/22	NA								
Exposed Pipe, Length = 173m, with concrete saddle Supports	42 days	Fri 7/10/22	Thu 24/11/22	HK Working Day 427	430	0%	NA	NA								
3 nos. Trial Pit Exacavtion under existing Flyover	14 days	Mon 3/1/22	Tue 18/1/22	HK Working Day 421		100%	Mon 3/1/22	Tue 18/1/22					•			
DN1200 Pipe Laying on Concrete Support with Concrete Hunching	65 days	Fri 25/11/22	Wed 15/2/23	HK Working Day 428	431,433	0%	NA	NA								
Apply top coating of aliphatic polyurethane on site	6 days	Thu 16/2/23	Wed 22/2/23	HK Working Day 430	435	0%	NA	NA						1		
Open Trench Connecting Trenchless and Exposed Pipe	230 days	Thu 16/2/23	Thu 23/11/23	HK Working Day		0%	NA	NA						-		
CH.FSKR+00 to CH.FD3+15 OC	90 days	Thu 16/2/23	Wed 7/6/23	HK Working Day 430	435,434	0%	NA	NA								
		Thu 8/6/23	Mon 11/9/23	HK Working Day 433	435,764,765	0%	NA	NA								
CH.FDD3+15 to CH.FDD3+51 OC with DN900 Valve Chamber and By-pass Pipe and Connection to Pit WPR1					433,704,703											
Make Good Slope Toe and Landscape Work	60 days	Tue 12/9/23	Thu 23/11/23	HK Working Day 433,434,431		0%	NA	NA								
Water Mains near Pung Loi Road and Po Yap Road (CH.FE0+00 - CH.A3+58)	758 days	Thu 20/8/20	Sat 11/3/23	HK Working Day	765	78%	Thu 20/8/20	NA						)		
Trial Pit at Working Pit WPR1	36 days	Thu 20/8/20	Wed 30/9/20	HK Working Day		100%	Thu 20/8/20	Wed 30/9/20								
Trial Pit at Working Pit G1A	12 days	Sun 1/11/20	Sat 14/11/20	HK Working Day		100%	Sun 1/11/20	Sat 14/11/20								
Issue CE No. 59 - Realignment of Water Main near Pung Loi Road and Po Yap Round	0 days	Fri 13/11/20	Fri 13/11/20	Calendar Day	440,444	100%	Fri 13/11/20	Fri 13/11/20				▶ 13/11				
Roundabout Tender Process and Tender Award for CE No. 59	99 days	Fri 13/11/20	Fri 19/2/21	Calendar Day 439	441	100%	Fri 13/11/20	Fri 19/2/21								
Design & Method Statement Submission and Approval; Preparation Works for Pit J1.	A 93 days	Sat 20/2/21	Wed 16/6/21	HK Working Day 440	465,442,443	100%	Sat 20/2/21	Wed 16/6/21								
		Thu 17/6/21	Sat 13/11/21	HK Working Day 441	452	100%	Thu 17/6/21	Sat 13/11/21								
Design & Method Statement Submission and Approval; Preparation Works for Pit G1A					450	100%		Sat 13/11/21								
Design & Method Statement Submission and Approval; Preparation Works for Pit WPR1	125 days	Thu 17/6/21	Sat 13/11/21	HK Working Day 441												
TTA preparation, SLG meetings and obtain RA	293 days	Fri 13/11/20	Wed 1/9/21	Calendar Day 439	448	100%	Fri 13/11/20	Wed 1/9/21								
Trenchless Crossing MTR Tunnels (Pit WPR1 to Pit G1A)	717 days	Fri 9/10/20	Sat 11/3/23	HK Working Day		50%	Fri 9/10/20	NA			<u> </u>					
Inspection Pit at Location of Pit G1A	19 days	Fri 9/10/20	Sun 1/11/20	HK Working Day		100%	Fri 9/10/20	Sun 1/11/20								
Construction of Jacking Pit / Receiving Pit (TBM)	151 days	Wed 1/9/21	Sat 5/3/22	HK Working Day		100%	Wed 1/9/21	Sat 5/3/22					7			
Obtain consent for vehicular access construction for WPR1	0 days	Wed 1/9/21	Wed 1/9/21	HK Working Day 444		100%	Wed 1/9/21	Wed 1/9/21				•	1/9			
Tree Truning at WPR1	2 days	Wed 3/11/21	Thu 4/11/21	HK Working Day	450	100%	Wed 3/11/21	Thu 4/11/21					1			
Jacking Pit WPR1 (Near Pung Loi Road)	91.2 days	Fri 5/11/21	Sat 5/3/22	HK Working Day 449,443	454	100%	Fri 5/11/21	Sat 5/3/22								
Planter Removal and Access Formation to pit G1A	13 days	Wed 1/9/21	Wed 15/9/21	HK Working Day	452	100%	Wed 1/9/21	Wed 15/9/21				-				
	91 days	Mon 27/9/21		HK Working Day 451,442	470,454		Mon 27/9/21									
Receiving Pit G1A (Near Po Yap Road)				HK Working Day	17 0,151	14%	Mon 7/3/22									
TBM Pipe Jacking (WPR1 to J1A)	301 days	Mon 7/3/22	Sat 11/3/23													
TBM Establishment at Pit WPR1	38 days	Mon 7/3/22	Sat 23/4/22	HK Working Day 450,452	455	100%										
Jacking DN1600 Precast Concrete Sleeve Pipe (224m; 2.0m/day)	112 days	Sun 24/4/22	Tue 6/9/22	HK Working Day 454	456	5%	Sun 24/4/22	NA								
Remove setup including Thrust Wall at Pit WPR1	14 days	Wed 7/9/22	Fri 23/9/22	HK Working Day 455	457	0%	NA	NA								
Setup for Pipe Laying inside Jacking Pit WPR1	6 days	Sat 24/9/22	Fri 30/9/22	HK Working Day 456	458	0%	NA	NA								
DN1200 MS Pipe Laying inside Jacking Pipe (224m) (3 days per 8m)	84 days	Mon 3/10/22	Thu 12/1/23	HK Working Day 457	459	0%	NA	NA								
Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Fri 13/1/23	Mon 16/1/23	HK Working Day 458	460	0%	NA	NA						1		
Grouting Works (30m per day)	8 days	Tue 17/1/23	Sat 28/1/23	HK Working Day 459	461	0%	NA	NA								
	18 days		Sat 18/2/23	HK Working Day 460	462	0%	NA	NA								
Pipe Connection inside Working Pit WPR1						0%	NA NA	NA								
Remove ELS including extracting sheet piles at Pit WPR1; Reinstatement	18 days		Sat 11/3/23	HK Working Day 461		35055										
Trenchless Works (Pit G1A or Pit J1A)	320 days	Mon 3/5/21	Tue 31/5/22	HK Working Day		97%	Mon 3/5/21	NA								
Task Summary	Inaction	re Milestone	D	uration-only Start-c	only E	External Milesto	ne 💠	Critical	Split		**				-	
Programme No. 15 Task Summary		ve Summary		Ianual Summary Rollup Finish		Deadline		Progress								

	-	la:	Pro 1 1	m-1 0-11	D-3	P	le.	Actual Start	Actual Finish										Process.	
k Name	Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	racuat fillish	2018	02   02   04	019	2020	03   04   6	021	04 01 0	202	3   Q2   Q3   Q4	2024 2024 Q1   Q2   Q3	Q4 Q1 Q
Construction of Jacking Pit J1A (Hand Shield)	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	/	HESTERN.	100%	Mon 3/5/21	Wed 9/6/21	Q4 QI	Q2   Q3   Q4	QI QZ Q3	Q4   Q1   Q2	Q3   Q4   C	ZI QZ Q.5	Q+ QI Q	. 03 04 01	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4. 45 45	3. 3. 3
Construction of Jacking Pit J1A	32 days	Mon 3/5/21	Wed 9/6/21	HK Working Day	441	467	100%	Mon 3/5/21	Wed 9/6/21						•					
	288 days	Thu 10/6/21	Tue 31/5/22	HK Working Da			96%	Thu 10/6/21	NA								,		5 5 6 7 7	
	16 days	Thu 10/6/21	Tue 29/6/21	HK Working Day	465	468	100%	Thu 10/6/21	Tue 29/6/21											
	101 days	Wed 30/6/21		HK Working Day		469	100%	Wed 30/6/21	Fri 29/10/21											
		Sat 30/10/21	Fri 5/11/21	HK Working Day		470		Sat 30/10/21								1				
	6 days		Wed 23/3/22	HK Working Day		471		Tue 8/3/22	Wed 23/3/22											
56.dp 15.1 1.ps ==/g	14 days	Tue 8/3/22							Wed 18/5/22											
DN1200 MS Pipe Laying inside jacking pipe (~70m) (3 days per 4m)	42 days	Thu 24/3/22	Wed 18/5/22	HK Working Day		472														
Formwork & Setup for Grouting the gap between pipe and Sleeve	8 days	Thu 19/5/22	Fri 27/5/22	HK Working Day		473	50%	Thu 19/5/22												
Grouting Works (30 meter/day)	3 days	Sat 28/5/22	Tue 31/5/22	HK Working Day	472	475	0%	NA	NA											
Open Trench between Pit K and J1A	138 days	Tue 26/4/22	Tue 11/10/22	HK Working Da	У		7%	Tue 26/4/22	NA											
Pipe Laying From Pit K to Pit J1A (OC) (48m)	62 days	Tue 26/4/22	Sat 13/8/22	HK Working Da	473	476	13%	Tue 26/4/22	NA											
Construction of Thrust Block from Pit K to Pit J1A	15 days	Mon 15/8/22	Wed 31/8/22	HK Working Da	475	477	0%	NA	NA											
Backfill Trench and Remove ELS	18 days	Thu 1/9/22	Thu 22/9/22	HK Working Da	y 476	478	0%	NA	NA											
Reinstatement of Plant and Shrubs in Roundabout	14 days	Fri 23/9/22	Tue 11/10/22	HK Working Da	y 477		0%	NA	NA											
Trenchless Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit L) (Pit O to	822 days	Fri 28/2/20	Mon 5/12/22	HK Working Da	у	765	55%	Fri 28/2/20	NA											
Pit P)  Issue CE No. 50 - Realignment of Watermain at the Junction of Wan Po Road and Po		Thu 11/6/20	Thu 11/6/20	Calendar Day			100%	Thu 11/6/20	Thu 11/6/20				•	11/6						
Yap Road and the Junction of Po Hong Road and Po Shun Road.  Construction of Jacking Pit K & Pit P	263 days	Fri 28/2/20	Fri 15/1/21	HK Working Da	у		100%	Fri 28/2/20	Fri 15/1/21				-	-						
Inspection Pit Excavation at Pit K	16 days	Fri 28/2/20	Tue 17/3/20	HK Working Da	v		100%	Fri 28/2/20	Tue 17/3/20				-							
	3 days	Mon 29/6/20		HK Working Da			100%	Mon 29/6/20	Thu 2/7/20					1						
Inspection Pit Excavation at Pit P		Thu 16/7/20	Mon 27/7/20	HK Working Da		486				)				1						
Forming temporary Vehicle Access for Pit P	10 days					489			Tue 1/12/20											
Jacking Pit K	15 days	Sat 14/11/20	Tue 1/12/20	HK Working Da		409		Mon 3/8/20												
Jacking Pit P + additional Grouting	137 days	Mon 3/8/20	Fri 15/1/21	HK Working Da			100%													
Hand Shield Jacking (Pit K to Pit L)	125 days	Fri 11/12/20	Tue 18/5/21	HK Working Da	ly .				Tue 18/5/21					Ĭ,	11/10					
MTR'S Consent Obtained	0 days	Fri 11/12/20	Fri 11/12/20	HK Working Da	У		100%	Fri 11/12/20	Fri 11/12/20						11/12					
Establishment at Pit K	59 days	Mon 14/12/20	Fri 26/2/21	HK Working Da	y 485,531	490	100%	Mon 14/12/2	0 Fri 26/2/21											
Segment @400mm Sleeve Pipe (Pit L to Pit K)(~ 56m) in Soil (0.8m/day)	59 days	Mon 1/3/21	Thu 13/5/21	HK Working Da	y 489	491	100%	Mon 1/3/21	Thu 13/5/21											
Remove setup at Pit K	4 days	Thu 13/5/21	Tue 18/5/21	HK Working Da	y 490	499	100%	Thu 13/5/21	Tue 18/5/21						1				1	
TBM Pipe Jacking (Pit O to Pit P)	169 days	Wed 19/1/22	Tue 16/8/22	HK Working Da	ау		50%	Wed 19/1/22	. NA								7			
WSD accepted to change Sub-Contractor from Wellcon to VTEC	0 days	Wed 16/2/22	Wed 16/2/22	HK Working Da	y 555		100%	Wed 16/2/22	Wed 16/2/2	2	A					<b>♦</b> 16	2			
TBM Establishment at Pit O	79 days	Wed 19/1/22	Thu 28/4/22	HK Working Da	ч	495	100%	Wed 19/1/22	Thu 28/4/22											
Jacking DN1600 Precast Concrete Sleeve Pipe (200m; 3.0m/day)	67 days	Fri 29/4/22	Wed 20/7/22	HK Working Da	ay 494	496	8%	Fri 29/4/22	NA											
Grouting around sleeve pipes	9 days	Thu 21/7/22	Sat 30/7/22	HK Working Da	ay 495	508,497	0%	NA	NA								1			
Remove Pit setup at Pit P	14 days	Mon 1/8/22	Tue 16/8/22	HK Working Da	ay 496	508	0%	NA	NA											
	116 days	Tue 14/12/21					22%	Tue 14/12/2	1 NA							-				
DN1200 Pipelaying (Pit K to Pit L)	6 days		Fri 7/1/22	HK Working Da		500		Tue 14/12/2:												
Setup for Pipe Laying inside jacking Pit K						501			Tue 25/1/22											
DN1200 MS Pipe Laying inside jacking pipe (53m) (3 days per 4m) (Only Internal Coating)	15 days	Sat 8/1/22	Tue 25/1/22																	
Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Wed 26/1/22		HK Working D		502			Sat 29/1/22											
Grouting Works (30 meter/day)	4 days	Wed 9/2/22		HK Working D		503,505			Sat 12/2/22											
Pipe Connection at Pit L	9 days	Thu 10/2/22	Sat 19/2/22	HK Working D	ay 502	504	10%	Thu 10/2/22								1				
Remove ELS at Pit L	24 days	Mon 21/2/22	Sat 19/3/22	HK Working D	ay 503		0%	NA	NA							•				
Remove ELS at Pit K	24 days	Mon 14/2/22	Sat 12/3/22	HK Working D	ay 502	506	0%	NA	NA											
						F	Date and Mark		Critica	1 Split										
ng Programme No. 15		ive Milestone ive Summary		Ouration-only  Janual Summary Rollup	Start-only Finish-only	E	External Milesto Deadline	oue -	Progre											

					Project: Mainlaying in Tse	oung It and O											
ne	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2019	2019 2019	1202	0	2021	2022	2023	2024	2025
200	45.1	M 14/2/22	W-4 11/5/22	UK Working Day EOE	515	0%	NA	NA	Q4 Q1 Q2 Q3	Q4 Q1 Q2	Q3 Q4 Q1	Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3   Q4	Q1   Q2   Q3   Q	Q1 Q1 C
Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	Mon 14/3/22		HK Working Day 505	515									-			
DN1200 Pipelaying (Pit P to Pit O)	92 days	Wed 17/8/22	Mon 5/12/22	HK Working Day		0%	NA	NA									
Setup for Pipe Laying inside jacking Pit O	6 days	Wed 17/8/22	Tue 23/8/22	HK Working Day 496,497	509	0%	NA	NA						1		de la constante de la constant	
	70 days	Wed 24/8/22	Wed 16/11/22	HK Working Day 508	510	0%	NA	NA									
Coating) Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	Thu 17/11/22	Sat 19/11/22	HK Working Day 509	511	0%	NA	NA						1			
Grouting Works (30 meter/day)	6 days	Mon 21/11/22	Sat 26/11/22	HK Working Day 510	577,512,610	0%	NA	NA						1			
Pipe Connection at Pit O	6 days	Mon 28/11/22	Sat 3/12/22	HK Working Day 511	513	0%	NA	NA						1			
	1 day	Mon 5/12/22		HK Working Day 512		0%	NA	NA									
Remove ELS at Pit O							NA	NA									
Reinstatement of Po Yap Road Roundabout	66 days		Fri 29/7/22	HK Working Day													
Reinstatement Works	60 days	Thu 12/5/22	Fri 22/7/22	HK Working Day 506	516	0%	NA	NA									
Handover Inspection with LCSD	6 days	Sat 23/7/22	Fri 29/7/22	HK Working Day 515		0%	NA	NA									
renchless Work from Po Yap Road Roundabout (Hong Kong Velodrome)	1251 days	Tue 2/4/19	Mon 26/6/23	HK Working Day	765	80%	Tue 2/4/19	NA									
	0 days	Tue 2/4/19	Tue 2/4/19	Calendar Day	521,522	100%	Tue 2/4/19	Tue 2/4/19		<b>*</b> 2/	4						
Velodrome and TKO stage 1 Landfill and CCTV survey of existing Drain at Cycle Track Issue CE No. 28 - Realignment of Water Mains along Po Yap Road and Po Hong Road	0 days	Mon 13/1/20	Mon 13/1/20	Calendar Day	521,522	100%	Mon 13/1/20	Mon 13/1/20			<b>*</b> 1	3/1					
Issue CE No. 28A - Affected Trees along Cycle Track next to Hong Kong Velodrome and		Tue 30/6/20	Tue 30/6/20	Calendar Day		100%	Tue 30/6/20	Tue 30/6/20				<b>♦</b> 30/6					
Tseung Kwan O Sport Ground	99 days	Mon 18/11/19		Calendar Day 519,518				9 Mon 24/2/20									
Tender and Subletting for CE No. 28					523			Tue 19/5/20									
TTA preparation, SLG meetings, obtain RA and TPRP Approval for Temporary Vehicular Access at HK Velodrome	128 days	Mon 13/1/20	Tue 19/5/20	Calendar Day 519,518													
Coordination with LCSD and Notification to District Councilors	14 days	Wed 20/5/20	Tue 2/6/20	Calendar Day 522	524	100%	Wed 20/5/20										
Form Temporary Vehicle Access at TKO Sport Ground	5 days	Mon 1/6/20	Mon 8/6/20	HK Working Day 523	525	100%	Mon 1/6/20	Mon 8/6/20				1					
Tree Transplanting Working & Tree Removal Works at TKO Sport Ground (CE No. 28)	10 days	Tue 9/6/20	Fri 19/6/20	HK Working Day 524	526	100%	Tue 9/6/20	Fri 19/6/20				1					
Tree Pruning Working for driving Sheetpile at Pit M, Pit N & Pit O	3 days	Sat 20/6/20	Tue 23/6/20	HK Working Day 525	527	100%	Sat 20/6/20	Tue 23/6/20				1					
Mobilization of Sheet-piles and Driving Machines	7 days	Wed 24/6/20	Fri 3/7/20	HK Working Day 526	534,532	100%	Wed 24/6/20	Fri 3/7/20									
Works suspended by closure of vehicular access at Velodrome	8 days	Mon 10/5/21	Mon 17/5/21	Calendar Day		100%	Mon 10/5/21	Mon 17/5/21					I				
Trenchless Works (Pit L to Pit O)	882 days	Sat 4/7/20	Mon 26/6/23	HK Working Day		77%	Sat 4/7/20	NA				<b>Y</b>					
Construction of Jacking Pit & Receiving Pit	175 days	Sat 4/7/20	Sat 30/1/21	HK Working Day		100%	Sat 4/7/20	Sat 30/1/21				-	7				
	81 days	Sat 24/10/20	Sat 30/1/21	HK Working Day 532	489			Sat 30/1/21									- I
Receiving Pit L							Sat 11/7/20										
Jacking Pit M	89 days	Sat 11/7/20	Sat 24/10/20	HK Working Day 527	531,547												
Receiving Pit N	66 days	Thu 30/7/20	Fri 16/10/20	HK Working Day		100%	Thu 30/7/20										
Jacking / Receiving Pit O + additional Grouting	124 days	Sat 4/7/20	Sat 28/11/20	HK Working Day 527	551	100%	Sat 4/7/20	Sat 28/11/20									
TBM Pipe Jacking (Pit M to Pit L)	273 days	Thu 13/5/21	Mon 11/4/22	HK Working Day		100%	Thu 13/5/21	Mon 11/4/22									
Re-establishment at Pit M for changing jacking direction	64 days	Thu 13/5/21	Thu 29/7/21	HK Working Day 549	537	100%	Thu 13/5/21	Thu 29/7/21									
DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit L) approx. 10m	12 days	Fri 30/7/21	Thu 12/8/21	HK Working Day 536	538,539	100%	Fri 30/7/21	Thu 12/8/21								4	
TBM suspended, review for Rescue pit construction	5 days	Fri 13/8/21	Wed 18/8/21	HK Working Day 537	540	100%	Fri 13/8/21	Wed 18/8/21					1				
Review and study the alternative construction method (Open Cut in normal	26 days	Fri 13/8/21	Sun 12/9/21	HK Working Day 537	544	100%	Fri 13/8/21	Sun 12/9/21									
condition) Rescue Pit Construction & Retrieval of TBM	39 days	Thu 19/8/21	Tue 5/10/21	HK Working Day 538	541	100%	Thu 19/8/21	Tue 5/10/21									
Set up working platform and lifting grantry at Rescue Pit for Handshield; Formin		Mon 11/10/21		HK Working Day 540	542			21 Sat 6/11/21									
Entrance								Thu 2/12/21									
Hand dig tunnel between Pit M and Rescue Pit	22 days	Mon 8/11/21		HK Working Day 541	543					The second secon							
Remove setup & removal of Thrust wall	14 days	Fri 3/12/21	Sat 18/12/21	HK Working Day 542	560		Fri 3/12/21	Sat 18/12/21		G							
WSD accepted Alternative Scheme from Pit O to Pit L	0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 539	545	100%	Mon 6/9/21	Mon 6/9/21					<b>♦</b> 6/9				
Water mains by Open Cut Method (West Portion - 143m)	171 days	Mon 13/9/21	Mon 11/4/22	HK Working Day 544	560,499	100%	Mon 13/9/21	Mon 11/4/22									
TBM Pipe Jacking (Pit M to Pit N)	159 days	Mon 26/10/20	Wed 12/5/21	HK Working Day		100%	Mon 26/10/	20 Wed 12/5/21				-	-				
Establishment at Pit M	29 days	Mon 26/10/20	Sat 28/11/20	HK Working Day 532	548	100%	Mon 26/10/2	20 Sat 28/11/20				-					
ogramme No. 15 Task Summary		ve Milestone			Start-only E Finish-only	External Milesto Deadline	ne 🐡	Critical S Progress	plit								
Split Project Summary  24 May 2022  Milestone Inactive Task		ve Summary al Task			External Tasks	Critical	*	Manual P									

			1-	les v.		Project: Mainlaying in Tseung		L. 10	A									
ask Name		Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	20	19 19   2020	) 20	)21	2022	2023	2024 2024	2025
	DN1600 Precast Concrete Sleeve Pipe (Pit M - Pit N) (CH.GA1+86 to CH.GA3+20)	119 days	Mon 30/11/20	Wed 28/4/21	HK Working Day 547	549	100%	Mon 30/11/20	Wed 28/4/21	Q4 Q1 Q2	Q3 Q4 Q	1   Q2   Q3   Q4   Q1	Q2 Q3 Q4 Q	Q1   Q2   Q3   Q4	Q1   Q2   Q3	Q4 Q1 Q2 Q3	Q4 Q1 Q2 Q3	6 Q4 Q1 Q2
	in Soil (134m; 3.5m/day)					536		Thu 29/4/21										
		11 days	100000000000000000000000000000000000000		HK Working Day 548	550												
	TBM Pipe Jacking (Pit O to Pit N)	226 days	Mon 30/11/20	Mon 6/9/21	HK Working Day		100%	Mon 30/11/20	Mon 6/9/21					×				
	Establishment at Pit O	51 days	Mon 30/11/20	Sat 30/1/21	HK Working Day 534	552	100%	Mon 30/11/20	Sat 30/1/21									
		31 days	Mon 1/2/21	Thu 11/3/21	HK Working Day 551	553	100%	Mon 1/2/21	Thu 11/3/21									
	ingress and obstruction at 8m away from Pit O Retraction of Sleeve pipe	28 days	Fri 12/3/21	Sat 17/4/21	HK Working Day 552	554	100%	Fri 12/3/21	Sat 17/4/21									
	Rescue Pit for TBM	74 days	Mon 19/4/21	Sat 17/7/21	HK Working Day 553	555	100%	Mon 19/4/21	Sat 17/7/21									
		30 days		Sat 21/8/21	HK Working Day 554	556,557,493	100%	Mon 19/7/21	Sat 21/8/21									
						550,551,155												
	Dismantle and remove set up at Pit O	12 days	Mon 23/8/21		HK Working Day 555			Mon 23/8/21										
	Review and study the alternative construction method (Open Cut in wet condition)	12 days	Mon 23/8/21	Sat 4/9/21	HK Working Day 555	558	100%	Mon 23/8/21	Sat 4/9/21									
		0 days	Mon 6/9/21	Mon 6/9/21	HK Working Day 557	574	100%	Mon 6/9/21	Mon 6/9/21					<b>♦</b> 6/9				
	DN1200 Pipelaying in side Hang Dig Tunnel (Pit M to Pit L)	33 days	Mon 20/12/21	Sat 29/1/22	HK Working Day		100%	Mon 20/12/21	Sat 29/1/22					•	7			
	setup for pipe laying inside hand dig tunnel	5 days	Mon 20/12/21	Fri 24/12/21	HK Working Day 543,545	561	100%	Mon 20/12/21	Fri 24/12/21					1				
	DN1200 MS Pipe Laying inside Hand dig tunnel	10 days	Tue 28/12/21	Sat 8/1/22	HK Working Day 560	562	100%	Tue 28/12/21	Sat 8/1/22									
						563		Wed 12/1/22							1			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	5 days		Mon 17/1/22											1			
	Grouting Works (30 meter/day)	8 days	Wed 19/1/22	Thu 27/1/22	HK Working Day 562	564	100%	Wed 19/1/22	Thu 27/1/22									
	Remove Pit setup	2 days	Fri 28/1/22	Sat 29/1/22	HK Working Day 563	570,566,580	100%	Fri 28/1/22	Sat 29/1/22									
	DN1200 Pipelaying in Sleeve pipe (Pit M to Pit N)	147 days	Tue 8/3/22	Sat 3/9/22	HK Working Day		42%	Tue 8/3/22	NA									
	Setup for Pipe Laying inside jacking Pit N	28 days	Tue 8/3/22	Sat 9/4/22	HK Working Day 564	567	100%	Tue 8/3/22	Sat 9/4/22									
	DN1200 MS Pipe Laying inside jacking pipe (134m) (3 days per 8m)(Only Internal	45 days	Mon 11/4/22	Wed 8/6/22	HK Working Day 566	568	75%	Mon 11/4/22	NA									
	Coating)		Thu 9/6/22	Sat 11/6/22	HK Working Day 567	569	0%	NA	NA						1			
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days																
	Grouting Works (30 meter/day)	5 days	Mon 13/6/22	Fri 17/6/22	HK Working Day 568	570,575	0%	NA	NA									
	Pipe Connection Inside Pit M	12 days	Sat 18/6/22	Sat 2/7/22	HK Working Day 569,564	571	0%	NA	NA									
	Construction of IT Chamber at Pit M	30 days	Mon 4/7/22	Sat 6/8/22	HK Working Day 570	572	0%	NA	NA									
	Remove ELS including extracting sheet piles at Pit M & Pit N	24 days	Mon 8/8/22	Sat 3/9/22	HK Working Day 571	580	0%	NA	NA									
	DN1200 Pipelaying (Pit O to Pit N)	296 days	Wed 12/1/22	Wed 11/1/23	HK Working Day		24%	Wed 12/1/22	NA						-	-		
	Water mains by Open Cut Method (West Portion - 177m)	150 days	Wed 12/1/22	Mon 18/7/22	HK Working Day 558	575	36%	Wed 12/1/22	NA									
			Tue 19/7/22	Mon 1/8/22	HK Working Day 569,574	576	0%	NA	NA									
	Pipe Connection Inside Pit N	12 days																
	Remove ELS including extracting sheet piles at Pit N	24 days	Tue 2/8/22	Mon 29/8/22	HK Working Day 575	580	0%	NA	NA									
	Pipe Connection in side Pit O	12 days	Mon 28/11/22	Sat 10/12/22	HK Working Day 511	578	0%	NA	NA									
	Remove ELS including extracting sheet piles at Pit O	24 days	Mon 12/12/22	Wed 11/1/23	HK Working Day 577	580	0%	NA	NA									
10874	Reinstallation of Cycle track Pavement and Planter	132 days	Thu 12/1/23	Mon 26/6/23	HK Working Day		0%	NA	NA							-		
	Reinstalment Works	96 days	Thu 12/1/23	Fri 12/5/23	HK Working Day 576,578,572,564	581	0%	NA	NA									
	Compensation Tree Planting	30 days	Sat 13/5/23	Sat 17/6/23	HK Working Day 580	582	0%	NA	NA									
						-	0%	NA	NA									
	Handover Inspection with LCSD and HyD	6 days	Mon 19/6/23															
Wa	ter Mains from KMB Depot to TKO Fresh Water Preliminary Service Reservoir	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day		80%	Tue 7/11/17	NA					-				
	ssue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road	0 days	Thu 23/8/18	Thu 23/8/18	Calendar Day		100%	Thu 23/8/18	Thu 23/8/18		♦ 23/8							
	nd TKO Freshwater PSR ssue CE No. 51 - Realignment of Water Main in Tsui Lam Section	0 days	Mon 3/8/20	Mon 3/8/20	Calendar Day	590,587,736,588,589	100%	Mon 3/8/20	Mon 3/8/20				<b>♦ 3/8</b>					
1	ssue WSD Letter Ref.: (4) in WSD/M/7503/13/WSD/16/M15/300/51 for additional	0 days	Thu 3/9/20	Thu 3/9/20	Calendar Day		100%	Thu 3/9/20	Thu 3/9/20				<b>♦ 3/9</b>					
١	vorks to CE No. 51 Tendering Process, Tender Award for CE No. 51 (Batch No, 1)	82 days	Mon 3/8/20	Fri 23/10/20	Calendar Day 585		100%	Mon 3/8/20	Fri 23/10/20									
							100%		Thu 12/11/2									
	endering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	Mon 3/8/20	Thu 12/11/20										_				
1	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	200 days	Mon 3/8/20	Thu 18/2/21	Calendar Day 585	735,737	100%	Mon 3/8/20	Thu 18/2/21									
			ve Milestone		Puration-only Start-only	Г	External Milesto	ne 🍮	Critical	Split								
	mme No. 15 Task Summary Nay 2022 Split Project Summary	Inacti	ive Summary	, N	Ianual Summary Rollup Finish-only	ı c	Deadline		Progres									
	Milestone ♦ Inactive Task	Manu	ad Task	N	Ianual Summary External Tas	ks	Critical	The same of the sa	Manual	1 togtess								

					Project: Mainlaying in Tseu	ang Kwan O															
ask Name	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Sta	rt Actual Finish	100	10	2019		2020	100		2022	l or	023	2024 2024	T	2025
								100 = 40/44	Q4 Q	18 1   Q2   C	03   Q4   Q1	Q2   Q3   Q4	Q1   Q2   0	Q3 Q4 Q1	Q2   Q3   C	2022 24 Q1 Q	22   Q3   Q4   Q	1 Q2 Q3	Q4 Q1 Q2	Q3 Q4	Q1   Q2
TTA preparation, SLG meetings, obtain RA and implement Advanced Works	100 days	Mon 3/8/20	Tue 10/11/20	Calendar Day 585		100%	Mon 3/8	3/20 Tue 10/11,	/20												
Ground Investigation at Pit R	1 day	Mon 21/12/20	Mon 21/12/20	HK Working Day		100%	Mon 21,	/12/20 Mon 21/12	2/20					I							
Issue EWN No 269 - Unexpected High Rockhead Level Encountered at Working Pit R	0 days	Fri 8/1/21	Fri 8/1/21	HK Working Day		100%	Fri 8/1/2	21 Fri 8/1/21						◆ 8.	1						
				UK Washing Day		100%	Fri 30/7	/21 Fri 30/7/2:							<b>♦</b> 30/7						
Receiving of Drawing No. SK40134-517 for Changing Construction Method and Alignment from Pit P to Pit T	0 days	Fri 30/7/21	Fri 30/7/21	HK Working Day		100%	FII 30/7/	/21 FII 30/7/2.													
Trenchless Works from Pit P to Mau Wu Tsai Abandon Road	688 days	Tue 24/11/20	Wed 22/3/23	HK Working Day	765	54%	Tue 24/	11/20 NA													
Issue EWN No. 241 for Tree Issue for Changing Trenchless (Pit S to Pit T) to Open	0 days	Tue 24/11/20	Tue 24/11/20	HK Working Day	626	100%	Tue 24/	11/20 Tue 24/11,	/20					24/1	1			and the same of th			
Cut at Control Site (CS-108)	554 days	Wed 12/5/21	Wed 22/3/23	HK Working Day		39%	Wed 12	/5/21 NA							-			->			
TBM Pipe Jacking (Pit P to Pit Y)				de contra la material de					(21						♦ 12/5	-					
WSD agreed to carry out Horizontal grout from Pit P to Pit Y (45m)	0 days	Wed 12/5/21	Wed 12/5/21	HK Working Day	598	100%	Wed 12	/5/21 Wed 12/5/	21												
Mobilization and Carry out Horizontal grouting	43 days	Wed 12/5/21	Sat 3/7/21	HK Working Day 597	600	100%	Wed 12,	/5/21 Sat 3/7/21													
Receiving Pit Y	74 days	Fri 25/6/21	Mon 20/9/21	HK Working Day		100%	Fri 25/6	/21 Mon 20/9/	/21												
			Sat 22/10/21	HV Working Day 509	601	100%	Mon 5/	7/21 Sat 23/10/	721							-					
Establishment and Set up for pipe jacking at Pit P	93 days	Mon 5/7/21	Sat 23/10/21	HK Working Day 598	601																
Jacking DN1600 Precast Concrete Sleeve Pipe	79 days	Mon 25/10/21	Thu 27/1/22	HK Working Day 600		100%	Mon 25	/10/21 Thu 27/1/	22												
Stop Works due to incident at KMB deport	106 days	Thu 27/1/22	Thu 12/5/22	Calendar Day	603FF	100%	Thu 27/	1/22 Thu 12/5/	22												
WSD obtained approval from TD, KMD and HyD	0 days	Thu 12/5/22	Thu 12/5/22	Calendar Day 602FF	604	100%	Thu 12/	5/22 Thu 12/5/	22							-	12/5				
Constuction of Rescure Pit at KMB Depot and Remove TBM	90 days	Fri 13/5/22	Sat 27/8/22	HK Working Day 603	606,608,609,605	1%	Fri 13/5	/22 NA													
Pipe Laying from Pit P to Rescure Pit at KMB Depot	54 days	Mon 29/8/22	Wed 2/11/22	HK Working Day 604	610	0%	NA	NA													
Open Cut at KMB Depot Stage 1	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604	607	0%	NA	NA													
		Thu: 24/11/22	Wod 22/2/22	HK Working Day 606		0%	NA	NA													
Open Cut at KMB Depot Stage 2	72 days	Thu 24/11/22	wed 22/2/23	HK Working Day 606																	
Open Cut outside at KMB Depot along Po Hong Road Green Area	72 days	Mon 29/8/22	Wed 23/11/22	HK Working Day 604		0%	NA	NA													
Open Cut Across Po Hong Road (Lane by Lane, 42 W.D. per lanes; 4 Stage)	168 days	Mon 29/8/22	Wed 22/3/23	HK Working Day 604		0%	NA	NA								- E					
Pipe Connection inside Working Pit P	18 days	Mon 28/11/22	Sat 17/12/22	HK Working Day 605,511	611	0%	NA	NA													
						00/	NA	NA								-					
Construction of Combined chamber at Pit P	48 days	Mon 19/12/22	Sat 18/2/23	HK Working Day 610	612	0%	NA	NA													
Remove ELS including extracting sheet piles at Pit P; Reinstatement	18 days	Mon 20/2/23	Sat 11/3/23	HK Working Day 611		0%	NA	NA													
Hand Shield Pipe Jacking from Pit R to Pit Y	300 days	Fri 18/12/20	Wed 22/12/23	1 HK Working Day		100%	Fri 18/1									-					
Issue CE No. 94 - Site Clearance of Affected Trees and Plants for Mainlaying	0 days	Fri 18/12/20	Fri 18/12/20	Calendar Day	416	100%	Fri 18/1	22/12/21 .2/20 Fri 18/12/	20					<b>•</b> 18	/12						
works near Po Hong Road and Ling Hong Road	ouays																				
Jacking / Receiving Pit R	25 days	Fri 16/7/21	Fri 13/8/21	HK Working Day	616	100%	Fri 16/7	7/21 Fri 13/8/2	1												
Establishment at Pit R	10 days	Sat 14/8/21	Wed 25/8/21	HK Working Day 615	617	100%	Sat 14/8	8/21 Wed 25/8	/21						1						
Mild Steel Sleeve Pipe in Mix of Soil (26m)(0.8m/day)	35 days	Thu 26/8/21	Thu 7/10/21	HK Working Day 616	618	100%	Thu 26/	/8/21 Thu 7/10/	21												
		Fri 8/10/21	Sat 23/10/21	HK Working Day 617	619	100%	Fri 8/10	0/21 Sat 23/10,	/21												
Remove Setup at Pit R	13 days																				
Setup for Pipe Laying inside Jacking Pit R	12 days	Mon 25/10/21	Sat 6/11/21	HK Working Day 618	620	100%	Mon 25	5/10/21 Sat 6/11/2	21												
DN1200 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal	13 days	Fri 5/11/21	Fri 19/11/21	HK Working Day 619	621	100%	Fri 5/11	/21 Fri 19/11/	21												
Coating)  Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 20/11/21	Mon 22/11/2:	1 HK Working Day 620	622	100%	Sat 20/	11/21 Mon 22/1	1/21							1					
					624	100%	Mon 13	3/12/21 Wed 22/1	2/21							1					
Grouting Works	9 days	WION 13/12/21	vved 22/12/2.	1 HK Working Day 621	024																
Open Cut Excavation from Pit R to Mau Wu Tsai Abandon Road	239 days	Mon 10/5/21	Fri 25/2/22	HK Working Day	767	100%	Mon 10	0/5/21 Fri 25/2/2	22												
Open Cut, CH.HA0+28 - CH.HA0+48 with DAV Chamber (Connecting to Pit R)	49 days	Fri 24/12/21	Fri 25/2/22	HK Working Day 622,627	625	100%	Fri 24/1	12/21 Fri 25/2/2	2											- 1	
Construction of DN900 Valve Chamber with by-pass at CH.HA0+44	36 days	Fri 24/12/21	Thu 10/2/22	HK Working Day 624		100%	Fri 24/1	12/21 Thu 10/2/	22												
					627																
Open Cut, CH.HA0+48 - CH.HA 1+20 OC with DN600 IT Chamber (Connecting Original CH.HA0+80)	75 days	Mon 10/5/21	Sun 8/8/21	HK Working Day 635,595	627			0/5/21 Sun 8/8/2			1										
Construction of Wash Out Chamber & Reserved Tee at CH.HA0+49	36 days	Mon 23/8/21	Tue 5/10/21	HK Working Day 626	624	100%	Mon 23	3/8/21 Tue 5/10/	21												
Open Trench Pipe laying at Abandoned Road	451 days	Tue 22/9/20	Thu 31/3/22	HK Working Day	767	91%	Tue 22,	/9/20 NA						-		-					
	0 days	Fri 25/6/21	Fri 25/6/21	HK Working Day		100%	Fri 25/6	5/21 Fri 25/6/2	1						<b>♦</b> 25/6						
Village														A 000							
Issue CE No. 70 - Landscaping Survey near Mau Wu Tsai Village	0 days	Tue 22/9/20	Tue 22/9/20	HK Working Day		100%	Tue 22,	/9/20 Tue 22/9/	20					<b>♦</b> 22/9							
Issue CE No. 86 - Tree Affected in Mainlaying Works near Mau Wu Tsai Village	0 days	Mon 12/10/2	0 Mon 12/10/2	0 HK Working Day	632	100%	Mon 12	2/10/20 Mon 12/1	.0/20					12/10							
																	1				
rking Programme No. 15 Task Summary		tive Milestone			rt-only	External Milest			tical Split												
Date : 24 May 2022  Split Project Summary  Milestone Inactive Task		tive Summary nual Task			tish-only 3	Deadline Critical			gress mual Progress												
					Page 15																

				<u> </u>	Project: Mainlaying in Ts												
	Duration	Start	Finish	Task Calendar Predecessors	Successors	% Complete	Actual Start	Actual Finish	2018	2019	2020	2021	20	022 2	023 20	24 J24	207
	205 4	Tue 22/0/20	Mon 20/0/21	HK Working Day 631	661,633	100%	Tue 22/9/20	Mon 20/9/21	Q4 Q1 Q2 Q3	Q1 Q2 Q3	Q4   Q1   Q2   Q	3 Q4 Q1	Q2   Q3   Q4   0	Q1   Q2   Q3   Q4	023 Q1   Q2   Q3   Q4   Q	1 Q2 Q3 Q	M Q1
Tree survey, TPRP Submission and Receiving TPRP approval	295 days	Tue 22/9/20															+
Mobilization and Tree Removal	23 days	Tue 21/9/21	Wed 20/10/21	HK Working Day 632	663,636	100%	Tue 21/9/21	Wed 20/10/21						4.0			
Issue CE No. XXX - Change Trenchless (Pit U - Pit V) to Open Cut and Revised the	0 days	Thu 31/3/22	Thu 31/3/22	HK Working Day		0%	NA	NA						\$ 31/3			
Alignment Open Cut, CH.HA0+80 - CH.HA3+17	141 days	Thu 19/11/20	Fri 14/5/21	HK Working Day	626	100%	Thu 19/11/20	Fri 14/5/21									
Open Cut, CH.HA3+17 - CH.HA3+79	66 days	Tue 26/10/21	Thu 13/1/22	HK Working Day 633		30%	Tue 26/10/21	NA									
pen Trench Pipe Laying at Po Lam Road South (Mau Wu Tsai Village)	382 days	Wed 12/5/21	Tue 23/8/22	HK Working Day		74%	Wed 12/5/21	NA					₽	-			
Open Cut, CH.HA3+79 - CH.HA4+68 with SACP	127 days	Wed 12/5/21	Tue 12/10/21	HK Working Day	639	100%	Wed 12/5/21	Tue 12/10/21									
	60 days	Tue 14/6/22	Tue 23/8/22	HK Working Day 638,640		0%	NA	NA									
Open Cut, CH.HA4+68 - CH.HA5+21				HK Working Day	639		Mon 28/3/22	NΔ									+
Open Cut, CH.HA5+21 - CH.HA5+55 (Pit W)	60 days		Mon 13/6/22		033								,	7			+
enchless Work at Po Lam Road South	259 days	Wed 14/4/21		HK Working Day				Thu 24/2/22									-
Inspection Pit Excavation	108 days	Wed 14/4/21	Sat 21/8/21	HK Working Day		100%	Wed 14/4/21	Sat 21/8/21									
Inspection Pit Excavation at Pit W	4 days	Wed 18/8/21	Sat 21/8/21	HK Working Day	646	100%	Wed 18/8/21	Sat 21/8/21					1				- 1
Inspection Pit Excavation at Pit X	3 days	Wed 14/4/21	Fri 16/4/21	HK Working Day	647	100%	Wed 14/4/21	Fri 16/4/21									
Construction of Jacking / Receiving Pits	107 days	Sat 24/4/21	Tue 31/8/21	HK Working Day		100%	Sat 24/4/21	Tue 31/8/21					•				
Receiving Pit W	8 days	Mon 23/8/21	Tue 31/8/21	HK Working Day 643		100%	Mon 23/8/21	Tue 31/8/21					1				
Jacking Pit X	31 days	Sat 24/4/21	Tue 1/6/21	HK Working Day 644	649	100%	Sat 24/4/21	Tue 1/6/21					-				
Hand Shield Pipe Jacking from Pit W to Pit X (~85m)	219 days	Wed 2/6/21	Thu 24/2/22	HK Working Day		100%	Wed 2/6/21	Thu 24/2/22						-			
		Wed 2/6/21	Sat 19/6/21	HK Working Day 647	650			Sat 19/6/21									+
Establishment at Pit X	15 days							Tue 13/7/21					1				+
Form Entrance Opening at pit X	5 days	Thu 8/7/21	Tue 13/7/21	HK Working Day 649	651												4
Mild Steel Sleeve Pipe in Mix of Soil (46m) (0.6m / day)	73 days	Wed 14/7/21	Fri 8/10/21	HK Working Day 650	652,653	100%	Wed 14/7/21	Fri 8/10/21									
Rearrangement Wailing and Form Exit Opening at Pit W	14 days	Mon 11/10/2	Wed 27/10/21	L HK Working Day 651	654	100%	Mon 11/10/21	Wed 27/10/21									
Remove Setup it Pi X	5 days	Sat 9/10/21	Fri 15/10/21	HK Working Day 651	654	100%	Sat 9/10/21	Fri 15/10/21					1				
Setup for Pipe Laying inside Jacking Pit X	6 days	Thu 28/10/21	Wed 3/11/21	HK Working Day 653,652	655	100%	Thu 28/10/21	Wed 3/11/21					1				
DN900 MS Pipe Laying inside Jacking Pipe (3 days per 4m)(Only Internal)	19 days	Thu 4/11/21	Thu 25/11/21	HK Working Day 654	656	100%	Thu 4/11/21	Thu 25/11/21									
Formwork & Setup for Grouting the gap between pipe and Sleeve	2 days	Sat 12/2/22	Mon 14/2/22	HK Working Day 655	657	100%	Sat 12/2/22	Mon 14/2/22						1			
Grouting Works (30m per day)	9 days	Tue 15/2/22	Thu 24/2/22	HK Working Day 656		100%	Tue 15/2/22	Thu 24/2/22						1			
	465 days	Mon 20/7/20	Fri 11/2/22	HK Working Day	767,768	100%	Mon 20/7/20	Fri 11/2/22						7			-
Open Trench Pipe Laying at Po Lam Road (West Bound)					660			Mon 20/7/20			•	20/7					+
Issue CE No. 68 - TIA for TTA at Po Lam Road	0 days		Mon 20/7/20														-
Traffic Survey and Revise TIA, revised TTA Drawings, Obtain RA	177 days	Mon 20/7/20	Sat 20/2/21	HK Working Day 659	665		Mon 20/7/20										
Mobilization and Tree Removal	29 days	Tue 21/9/21	Wed 27/10/2	1 HK Working Day 632	663,664,662	100%	Tue 21/9/21	Wed 27/10/21									
Construction of DAV Chamber at Pit X	41 days	Tue 7/12/21	Wed 26/1/22	HK Working Day 661		100%	Tue 7/12/21	Wed 26/1/22									
Open Cut, fromt Pit X, CH.HA6+00 - CH.HA6+54	86 days	Thu 28/10/21	Fri 11/2/22	HK Working Day 661,665,633		100%	Thu 28/10/21	Fri 11/2/22									
Construction of DN900 Valve Chamber and By Pass Pipes	17 days	Tue 11/1/22	Sat 29/1/22	HK Working Day 661		100%	Tue 11/1/22	Sat 29/1/22									
Open Cut, CH.HA6+54 to CH.HA7+24 (Portion SKR) with SACP	85 days	Mon 22/2/21	Mon 7/6/21	HK Working Day 660	666,663	100%	Mon 22/2/21	Mon 7/6/21				-					
Open Cut, CH.HA7+24 - CH.HA7+61/CH.HB0+00 Excavation in Rock	189 days	Wed 16/6/21	Sat 29/1/22	HK Working Day 665		100%	Wed 16/6/21	Sat 29/1/22						•			
Water Main Structure and Associated Pipe Support across the Natural Stream	730 days	Tue 5/5/20	Tue 18/10/22	2 HK Working Day	768	93%	Tue 5/5/20	NA			-						-
Course (Location A) (CH.HB0+00 ~ CH.HB0+ CE )			Tue 16/6/20		669		Tue 5/5/20	Tue 16/6/20				-					+
Design Submission (CE No. 55) for Water Main Structure and Associated Pipe Support across the Natural Stream Course	37 days	Tue 5/5/20															_
WSD & GEO Review and Approve	121 days	Wed 17/6/20	Thu 15/10/20	O Calendar Day 668	672			Thu 15/10/20									_
Tendering Process, Tender Award for CE No. 51 (Location A Mini-pile Works)	113 days	Wed 26/8/20	Wed 16/12/2	O Calendar Day		100%	Wed 26/8/20	Wed 16/12/20									
Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Supp across the Natural Stream Course for Alternative Alignment in Tsui Lam	oort 0 days	Tue 5/5/20	Tue 5/5/20	Calendar Day		100%	Tue 5/5/20	Tue 5/5/20			<b>♦</b> 5/5						
across the Natural Stream Course for Alternative Alignment in Tsui Lam  Tender and Subletting (Mini-Pile)	62 days	Fri 16/10/20	Wed 16/12/2	20 Calendar Day 669		100%	Fri 16/10/20	Wed 16/12/20									
Issue CE No. 85 - Affected Trees across the Natural Stream Course at Tsui Lam (Location A)	0 days	Wed 28/10/2	0 Wed 28/10/2	20 Calendar Day		100%	Wed 28/10/2	0 Wed 28/10/20				<b>*</b> 28/10					
Tack Summary	Inact	tive Milestone	Г	duration-only Star	t-only E	External Mileston	ne 🌼	Critical Sp	t	111111111							
amme No. 15 May 2022 Split Project Summary		tive Summary	1 N		ish-only	Deadline Critical		Progress  Manual Pro	17.05								

				In the	m . a :	D 1	Project: Mainlaying in Tse		A short Co	Actual Product										
Name		Duration	Start	Finish	Task Calendar	Predecessors	Successors	% Complete	Actual Start	Actual Finish	Q4   Q1   Q2   Q3   0	2019	20	20 :	2021	2022	20	023	2024	2025
Tree survey TPRP Su	ibmission and Receiving TPRP approval (HyD)	227 days	Mon 31/8/20	Tue 8/6/21	HK Working D	ay	676	100%	Mon 31/8/20		Q4 Q1 Q2 Q3 (	Q1 Q2	Q3 Q4 (	1 Q2 Q3 Q4	Q1   Q2   Q3   Q	4   Q1   Q2	Q3 Q4 C	01   Q2   Q3   Q	4 Q1 Q2 Q3	Q4 Q1 Q2
	ation Works (PC-C1, PC-T1 & PC-P1)	283 days	Wed 9/6/21	Tue 24/5/22	HK Working I	Day		99%	Wed 9/6/21	NA					-	-				
		1-1-2-			HK Working D		677			Thu 8/7/21										
Mobilization and 1		24 days	Wed 9/6/21	Thu 8/7/21																
	Timber Platform for Piling Works	7 days	Fri 9/7/21	Fri 16/7/21	HK Working D	ay 6/6	678			Fri 16/7/21										
Pre-drilling works mini-pile	(PD6, PD7 & PD8) & confirmation of rock head and depth of	25 days	Sat 17/7/21	Sat 14/8/21	HK Working D	ay 677	679,686	100%	Sat 17/7/21	Sat 14/8/21										
	Driving Dia. 323mm steel Casting (14 nos)	39 days	Mon 16/8/21	Thu 30/9/21	HK Working D	ay 678	680	100%	Mon 16/8/21	Thu 30/9/21										
Cleaning, Insert T	50 reinforcement and Grouting	18 days	Mon 11/10/21	Mon 1/11/21	HK Working D	Pay 679	681,684	100%	Mon 11/10/21	Mon 1/11/21					-					
Setup and Loading	g Test of Mini-Pile (T-1)	15 days	Tue 1/3/22	Thu 17/3/22	HK Working D	ay 680	683,682	100%	Tue 1/3/22	Thu 17/3/22						•				
Setup and Loading	g Test of Mini-Pile (C1-2)	8 days	Fri 18/3/22	Sat 26/3/22	HK Working D	Pay 681		100%	Fri 18/3/22	Sat 26/3/22						1				
Construction Pile	Caps (P1) with Pier 1	50 days	Fri 18/3/22	Sat 21/5/22	HK Working [	Day 681	684	100%	Fri 18/3/22	Sat 21/5/22										
Remove Timber p	elatform for Piling Works	2 days	Mon 23/5/22	Tue 24/5/22	HK Working [	Day 683,680	694	0%	Mon 23/5/22	NA										
West Portion - Foun	idation Works (PC-P2, PC-P3 & PC-C2)	241 days	Tue 5/10/21	Fri 29/7/22	HK Working I	Day		98%	Tue 5/10/21	NA					-		7			
Mobilization and		3 days	Tue 5/10/21	Thu 7/10/21	HK Working [	Day 678	687	100%	Tue 5/10/21	Thu 7/10/21					1					
		5 days	Thu 28/10/21	Tue 2/11/21	HK Working [		688		Thu 28/10/21	Tue 2/11/21					1					
	Timber Platform for Piling Works					Day 687,703,707	689		Fri 26/11/21											
and depth of min			Fri 26/11/21	Tue 14/12/21																
Driving Dia. 323m	nm steel Casting (26 nos)	58 days	Wed 15/12/21		HK Working [		690		Wed 15/12/21											
Cleaning, Insert T	50 reinforcement and Grouting	50 days	Sat 26/2/22	Fri 29/4/22	HK Working [	Day 689	692,691	100%	Sat 26/2/22	Fri 29/4/22										
Construction Pile	Caps with Pier 2	36 days	Mon 21/3/22	Wed 27/7/22	HK Working I	Day 690	692	95%	Mon 21/3/22	NA					*					
Remove Timber p	olatform for Piling Works	2 days	Thu 28/7/22	Fri 29/7/22	HK Working (	Day 690,691	694	0%	NA	NA							1			
Pipelaying on Mini-	pile Foundation	66 days	Sat 30/7/22	Tue 18/10/22	HK Working	Day		0%	NA	NA							-			
Temporary Work	ing Platform for Pipe Installation	6 days	Sat 30/7/22	Fri 5/8/22	HK Working I	Day 684,692	695	0%	NA	NA							1			
Cut Temporary ca	asting and Bend the T50 to designated position	12 days	Sat 6/8/22	Fri 19/8/22	HK Working I	Day 694	696	0%	NA	NA							1			
Pipe Installation	/ Welding / Testing / Painting	24 days	Sat 20/8/22	Sat 17/9/22	HK Working I	Day 695	697,701	0%	NA	NA										
Concrete Hunchi	ng	12 days	Mon 19/9/22	Mon 3/10/22	HK Working	Day 696	698	0%	NA	NA										
	g of aliphatic polyurethane on site	6 days	Wed 5/10/22	Tue 11/10/22	HK Working	Day 697	699	0%	NA	NA							ı			
		6 days		Tue 18/10/22			702	0%	NA	NA							1			
	ary Working Platform		Thu 8/4/21	Tue 14/2/23	- 742		768		Thu 8/4/21	NΔ					-			<b>-</b>		
	ring at Po Lam Road (East Bound)	551 days					702		NA	NA										
Open Cut, CH.HC0+	·00 - CH.HC0+08; Connecting to CH.HB	60 days		Tue 29/11/22			702	0%												
Open Cut, CH.HCO+	-08 - CH.HC0+12	60 days	Wed 30/11/22	Tue 14/2/23	HK Working	Day 699,701		0%	NA	NA										
Open Cut, CH.HCO+	+12 - CH.HCO+97 with SACP	104 days	Wed 16/6/21	Tue 19/10/21	HK Working	Day	704,688	100%	Wed 16/6/21	Tue 19/10/21										
Open Cut, CH.HCO+	+97 - CH.HC1+56(Portion B4) with SACP	62 days	Wed 24/11/21	Thu 10/2/22	HK Working	Day 703,707	705	99%	Wed 24/11/21	. NA										
Open Cut, CH.HC1+	+56 - CH.HC2+04	60 days	Fri 11/2/22	Tue 26/4/22	HK Working	Day 704	706	0%	NA	NA										
Open Cut, CH.HC2+	+04 - CH.HC2+70 with SACP	60 days	Wed 27/4/22	Sat 9/7/22	HK Working	Day 705	701	0%	NA	NA										
Open Cut, CH.HC2-	+70 - CH.HC3+22 with SACP	58 days	Tue 14/9/21	Tue 23/11/21	. HK Working	Day 708	704,688	100%	Tue 14/9/21	Tue 23/11/21										
Open Cut, CH.HC3-	+22 - CH.HC3+70 /CH.HD0+00	131 days	Thu 8/4/21	Sat 11/9/21	HK Working	Day	707	100%	Thu 8/4/21	Sat 11/9/21										
Water Main Structur	re and Associated Pipe Support from Po Lam Road to Tsui Lan	n 771 days	Tue 16/6/20	Thu 19/1/23	HK Working	Day	768	82%	Tue 16/6/20	NA				-				,		
Road (Location B)(CH	A.HD0+00 ~ CH.H WPR+01) lesign of Pipe Support in Tsui Lam (Location B)	0 days	Tue 16/6/20	Tue 16/6/20	Calendar Da	y	711	100%	Tue 16/6/20	Tue 16/6/20				<b>♦</b> 16/6						
	(CE No. 62) for Water Main Structure and Associated at Tsui L		Wed 17/6/20		HK Working		712	100%	Wed 17/6/20	Fri 27/8/21										
		0 days	Tue 21/9/21	Tue 21/9/21			716		Tue 21/9/21						<b>*</b> 2	21/9				
WSD & GEO Appro							719			Thu 30/9/21						30/9				
TTA Drawing appro	oval for Tsui Lam Road	0 days	Thu 30/9/21	Thu 30/9/21	HK Working											5/10				
LCSD's Consent		0 days	Tue 5/10/21	Tue 5/10/21			715FS+18 days		Tue 5/10/21											
Approval of Excava	ation Permit for Tsui Lam Road	0 days	Mon 1/11/21	Mon 1/11/21	HK Working	Day 714FS+18 days		100%	Mon 1/11/21	Mon 1/11/21					· ·	<b>→ 1/11</b>				
	Summary	Inact	ive Milestone	n	ouration-only	Start-on	aly E	External Milesto	ne 🌵	Critical S	plit									
Programme No. 15	ask Summary  plit Project Summary	- mace	ive Summary		Ianual Summary Rollup			Deadline		Progress										

					Project: Mainlaying in Tseu												
	Duration	Start	Finish	Task Calendar Pre	decessors Successors	% Complete	Actual Start	Actual Finish	2018	2019	020	2021	2022	2023		2024 2024	2025
Tender and sublett Mini-pile works at Location B to current Sub-contractor	73 days	Fri 27/8/21	Mon 22/11/21	HK Working Day 71	2 721	100%	Fri 27/8/21	Mon 22/11/21	4 Q1 Q2 Q3 Q4	Q1   Q2   Q3   Q4   2	Q1   Q2   Q3   Q	4 Q1 Q2 Q	3   Q4   Q1   Q	2 Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3 C	<u>м</u> Q1 Q2
Tree survey, TPRP Submission and Receiving TPRP approval (HyD)	322 days	Fri 21/8/20		HK Working Day	718	100%	Fri 21/8/20	Mon 20/9/21									
	69 days	Mon 20/9/21	Sat 11/12/21	HK Working Day 71			Mon 20/9/21										
Mobilization, Tree Removal Works & Site Clearance				Calendar Day 71				Tue 14/12/21									
Obtain RA for TTA implement	38 days	Sun 7/11/21	Tue 14/12/21		3,/16 /21												
Mini-pile Foundation Works	258 days			HK Working Day			Wed 15/12/21										
Erect Temporary Timber Platform for Piling Works	25 days	Wed 15/12/21		HK Working Day 71			Wed 15/12/21										
Pre-drilling works & confirmation of rock head and depth of mini-pile	36 days	Wed 26/1/22	Fri 11/3/22	HK Working Day 72	723	100%	Wed 26/1/22	Fri 11/3/22									
Mobilization and Driving Dia. 273mm steel Casting (18 nos)	51 days	Sat 26/3/22	Tue 31/5/22	HK Working Day 72	724	61%	Sat 26/3/22	NA									
Cleaning, Insert T50 reinforcement and Grouting	18 days	Wed 1/6/22	Wed 22/6/22	HK Working Day 72	725	0%	NA	NA									
Setup and Loading Test of Mini-Pile	36 days	Thu 23/6/22	Thu 4/8/22	HK Working Day 72	726	0%	NA	NA									
Construction Pile Caps (PC-C, PC-P1, PC-P2, PC-P3 & PC-T) and Piers (P1, P2 & F	<sup>2</sup> 3) 72 days	Fri 5/8/22	Mon 31/10/22	HK Working Day 72	728	0%	NA	NA .									
Pipelaying on Mini-pile Foundation	66 days	Tue 1/11/22	Thu 19/1/23	HK Working Day		0%	NA	NA						~~			
Temporary Working Platform for Pipe Installation	6 days	Tue 1/11/22	Mon 7/11/22	HK Working Day 72	729	0%	NA	NA						1			
Cut Temporary casting and Bend the T50 to designated position	12 days	Tue 8/11/22	Mon 21/11/22	HK Working Day 72	730	0%	NA	NA									
Pipe Installation / Welding / Testing / Painting (~115m)	24 days	Tue 22/11/22	Mon 19/12/22	HK Working Day 73	731	0%	NA	NA									
Concrete Hunching	12 days	Tue 20/12/22	Thu 5/1/23	HK Working Day 73	732	0%	NA	NA									
Apply top coating of aliphatic polyurethane on site	6 days	Fri 6/1/23	Thu 12/1/23	HK Working Day 73	733	0%	NA	NA						ı			
	6 days	Fri 13/1/23	Thu 19/1/23	HK Working Day 73		0%	NA	NA						1			
Remove Temporary Working Platform	1649 days	Tue 7/11/17	Mon 5/6/23	HK Working Day	768	81%	Tue 7/11/17		,						-		
From Tsui Lam Road to TKO Freshwater PSR (CH.HE.0+00 ~ CH.HE2+11) & (CH.HF0+00 CH.HF3+11)							Fri 19/2/21	Thu 25/3/21									
Batch No 3 - Temporary Works Design and Preliminary Works	30 days	Fri 19/2/21	Thu 25/3/21	HK Working Day 58													
TTA preparation, SLG meetings, obtain RA	150 days	Mon 3/8/20		Calendar Day 58		100%	Mon 3/8/20	Wed 30/12/20									
Material procurement (DN800 MS PIPE) (360m)	255 days	Fri 19/2/21	Sun 31/10/21	Calendar Day 58	39 730,751,755,753	100%	Fri 19/2/21	Sun 31/10/21									
Material procurement (Butterfly Valves)	244 days	Mon 30/8/21	Sat 30/4/22	Calendar Day		100%	Mon 30/8/21	Sat 30/4/22									
Water Mains CH.HE0+00 - CH.HE0+27)	108 days	Fri 20/1/23	Mon 5/6/23	HK Working Day		0%	NA	NA							_		
Open Cut across Tsui Lam Road (CH.HEO+00 to 0+06)	48 days	Fri 20/1/23	Mon 20/3/23	HK Working Day 73	741	0%	NA	NA									
Open Cut across Tsui Lam Road (CH.HE0+06 to 0+20)	60 days	Tue 21/3/23	Mon 5/6/23	HK Working Day 74	40	0%	NA	NA									
Water Mains CH.HE0+27 - CH.HE2+11	414 days	Mon 1/3/21	Mon 25/7/22	HK Working Day	769	75%	Mon 1/3/21	NA									
Issue CE No. 114 - Non-explosive agent near TKO Freshwater Preliminary Serv	ice 0 days	Fri 14/5/21	Fri 14/5/21	HK Working Day		100%	Fri 14/5/21	Fri 14/5/21				<b>♦</b> 14/	5				
Reservoir Receiving of Drawing No. SK40134/525 for Proposed Alternative Alignment at	0 days	Fri 20/8/21	Fri 20/8/21	HK Working Day		100%	Fri 20/8/21	Fri 20/8/21					<b>20/8</b>				
TKOFWSR Open Cut, CH.HE0+20 -CH.HE0+27 (Excavation in Rock)	59 days	Mon 25/10/21	Tue 4/1/22	HK Working Day		100%	Mon 25/10/21	1 Tue 4/1/22									
Open Cut, CH.HE0+27 -CH.HE1+98(Excavation in Rock)	254 days	Mon 1/3/21	Thu 6/1/22	HK Working Day		100%	Mon 1/3/21	Thu 6/1/22									
Construction of Combined EMF and MBV Chamber at CH.HE1+90	128 days	Mon 16/8/21	Tue 18/1/22	HK Working Day	748	100%	Mon 16/8/21	Tue 18/1/22									
Open Cut CH.1+98 & connecting to the existing DN800 F.W. Main at CH.HE2+	11 60 days	Wed 19/1/22	Fri 1/4/22	HK Working Day 7	47 749	0%	NA	NA			-						
Construction of flowmeter kiosks and GI cable ducts for Combined EMF and N		Sat 2/4/22	Mon 25/7/22			0%	NA	NA									
Chamber at CH.HE1+90	1343 days		Tue 24/5/22	HK Working Day	770		Tue 7/11/17		,					•			
Water Mains CH.HF0+00 - CH.HF3+10 (Inlet A)																	
Open Cut CH.HF0+00 - CH.HF0+19	67 days	Sat 20/11/21		HK Working Day 7	3/												
Open Cut CH.HF0+19 - CH.HF1+30	114 days	Fri 31/12/21	Tue 24/5/22	HK Working Day			Fri 31/12/21										
Construction of Combined EMF and MBV Chamber at CH.HF1+30	90 days	Sat 22/1/22	Tue 17/5/22	HK Working Day 7	37		Sat 22/1/22										
Open Cut CH.HF1+30 - CH.HF1+36	31 days	Sat 22/1/22	Wed 2/3/22	HK Working Day			Sat 22/1/22										
Exposed Pipe CH.HF1+36 - CH.HF2+85	53 days	Thu 25/11/21	Fri 28/1/22	HK Working Day 7	37 757	100%	Thu 25/11/21	Fri 28/1/22									
Exposed Pipe to the side wall of TKOFWSR	41 days	Thu 24/2/22	Wed 13/4/22	HK Working Day 7	57	100%	Thu 24/2/22	Wed 13/4/22									
Form Opening and Cast-in short pipe at TKOFWSR	9 days	Mon 14/2/22	Wed 23/2/22	HK Working Day 7	756	100%	Mon 14/2/22	Wed 23/2/22									
	Inacti	ive Milestone	Du	ration-only	Start-only E	External Milesto	ne 🗣	Critical Spli		200							
gramme No. 15																	

Construction of flowmeter kiosks and GI cable ducts for Combined EMF and MBV Chamber at CH.HF1+30  1800 - CH.ADN1200 MS Pipe Static Pressure Test, Pipeline Cleaning, CCTV Inspection, 223 days critication and Water Sampling  Static Pressure Test  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to A9 days CH.CT.2+65 (Approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA0+44) (approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (Approx. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (bprox. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) (br.H.HF3+30) (br.H.HF3+3	wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22	Tue 6/8/24  Mon 8/4/24  Tue 11/5/21  Sat 18/11/23  Mon 8/4/24  Mon 13/11/23  Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	105 121,167,184,213,224 224,251,306	772 773 774	13%	NA Wed 24/3/21 Wed 24/3/21 Wed 24/3/21	NA NA	Q4 Q1 Q2	Q3   Q4   Q1	Q2   Q3   Q4	2020 Q1   Q2   Q3	3   Q4   2021	Q2   Q3   Q4	2022 Q1 Q2 Q3 (	Q4   2023 Q4   Q1   Q2	20,   20;   Q3   Q4   Q:	4 4   Q2   Q3   0	2025 24 Q1 Q
MBV Chamber at CH.HF1+30  1232 days critikation and Water Sampling  Static Pressure Test  1112 days  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 (Approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HE1+30) (Approx. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HE3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to CH.CT.2+65  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN120	wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Tue 6/8/24  Mon 8/4/24  Tue 11/5/21  Sat 18/11/23  Mon 8/4/24  Mon 13/11/23  Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	105 121,167,184,213,224 224,251,306	773	13% 18% 100%	Wed 24/3/21 Wed 24/3/21	NA NA	Q4 Q1 Q2	Q3 Q4 Q1	Q2 Q3 Q4	Q1 Q2 Q3	3 Q4 Q1	Q2 Q3 Q4	Q1   Q2   Q3	Q4 Q1 Q2	Q3 Q4 Q	Q2   Q3	Q4 Q1 Q
MBV Chamber at CH.HF1+30  1232 days critikation and Water Sampling  Static Pressure Test  1112 days  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 (Approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HE1+30) (Approx. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HE3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to CH.CT.2+65  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN120	wed 24/3/21 Wed 24/3/21 Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Tue 6/8/24  Mon 8/4/24  Tue 11/5/21  Sat 18/11/23  Mon 8/4/24  Mon 13/11/23  Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	105 121,167,184,213,224 224,251,306	773	13% 18% 100%	Wed 24/3/21 Wed 24/3/21	NA					-						
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 M	Wed 24/3/21 Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 8/4/24  Tue 11/5/21  Sat 18/11/23  Mon 8/4/24  Mon 13/11/23  Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day Calendar Day	121,167,184,213,224 224,251,306	773	18%	Wed 24/3/21												
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 (Approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HE1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HE2+11 (approx. 20m) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Clea	Wed 24/3/21 Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Tue 11/5/21 Sat 18/11/23 Mon 8/4/24 Mon 13/11/23 Mon 23/10/23	Calendar Day Calendar Day Calendar Day Calendar Day	121,167,184,213,224 224,251,306	773	100%		NA					-	-		100000000000000000000000000000000000000			
CH.CT.2+65 (Approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approx. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.HB1+66) to DN900 Valve Chamber at CH.FD 3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.HB1+66) to DN900 Valve Chamber at CH.FD 3+43 DN1200 MS Pipe - Pipel	Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Sat 18/11/23 Mon 8/4/24 Mon 13/11/23 Mon 23/10/23	Calendar Day Calendar Day Calendar Day	121,167,184,213,224 224,251,306	773		Wed 24/3/21											7	
CH.CT.2+65 (Approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.CA4+24 to 51 days 50 DN900 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to 50 DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approx. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD 3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve A Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & Odays  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection Fro	Fri 29/9/23 Tue 27/2/24 Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Sat 18/11/23 Mon 8/4/24 Mon 13/11/23 Mon 23/10/23	Calendar Day Calendar Day Calendar Day	121,167,184,213,224 224,251,306	773			Tue 11/5/21											1.
DN300 Valve Chamber at Wan Po Road (CH.A12+50) (Approx. 1.7km) DN3200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HF2+10 (Approx. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  at CH.CA4+24 to CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve  Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to	Tue 27/2/24  Tue 12/9/23  Tue 12/9/23  Tue 19/4/22  Fri 1/4/22  Tue 6/6/23	Mon 8/4/24  Mon 13/11/23  Mon 23/10/23	Calendar Day  Calendar Day	224,251,306		0%													
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) (Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 da	Tue 12/9/23 Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 13/11/23 Mon 23/10/23	Calendar Day		774	070	NA	NA											
(Approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 40	Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 23/10/23		372.434		0%	NA	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 (approx. 2.1km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days  F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m)  DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days  F.W.S.R.(CH.HF1+30) to CH.HE3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 91 da	Tue 12/9/23 Tue 19/4/22 Fri 1/4/22 Tue 6/6/23	Mon 23/10/23		372.434															
DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HE3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber 4 Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber 4 TKO F.W.S.R.(CH.HE1+90) & Odays DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve A Mau Wu Tsai	Tue 19/4/22 Fri 1/4/22 Tue 6/6/23		C-1- 1 5		775	0%	NA	NA											
DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) (approx. 1.4km) DN1200 MS Pipe - Static Pressure Test From Pit Y (CH>GSKR.20 to CH.HA3+70)  DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HE3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4 CH.FD3+43 to DN900 Valve Chamber 4 Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber 4 TKO F.W.S.R.(CH.HE1+90) & Odays DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve A Mau Wu Tsai	Tue 19/4/22 Fri 1/4/22 Tue 6/6/23		Laiendar Day	436,479,517,594,434	776	0%	NA	NA											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BY Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days	Fri 1/4/22 Tue 6/6/23	Fri 29/4/22	calcilaar Day	430,473,317,334,434	770														
(CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) (approx. 0.7km) DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE3+10 (Approx. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve	Tue 6/6/23		Calendar Day			100%	Tue 19/4/22	Fri 29/4/22											
DN1200 MS Pipe - Static Pressure Test From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3t CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4t Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 4t TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV		Sat 30/4/22	Calendar Day	628,623,658	777	0%	NA	NA											
(CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & (CH.HF1+30) (Approx. 1.1km) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO 6 days F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV		Sat 8/7/23	Calendar Day	658,667,700,709,734	778	0%	NA	NA								1			
DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+30) to CH.HF3+10 (Approc. 80m) Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 343 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Tue 26/7/22	341 0/1/23	calcinaar Day	050,007,700,705,70															
F.W.S.R.(CH.HE1+90) to CH.HE2+11 (approx. 20m) DN800 MS Pipe - Static Pressure Test From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 3t CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days		Sun 31/7/22	Calendar Day	742	779	0%	NA	NA											
F.W.S.R.(CH.HF1+30) to CH.HF3+10 (Approc. 80m)  Pipeline Cleaning and CCTV Inspection  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV																			
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 60 days at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TMD Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Wed 25/5/22	2 Mon 30/5/22	Calendar Day	750	780	0%	NA	NA											
at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	ys Wed 12/5/21	1 Sun 7/7/24	Calendar Day			10%	Wed 12/5/21	NA										7	
at CH.CA4+24 to CH.CT.2+65 DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	Wed 12/5/21	L Sat 10/7/21	Calendar Day	761	782	100%	Wed 12/5/21	Sat 10/7/21											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12+50) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 90 days 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days																			
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber 90 days at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV	Sun 19/11/23	3 Fri 16/2/24	Calendar Day	762	782	0%	NA	NA											
at Wan Po Road (CH.A12+50) to DN900 Valve Chamber at TKO Landfill Stage I Area A DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43 DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Tue 9/4/24	Sun 7/7/24	Calendar Day	763	782	0%	NA	NA											
at TKO Landfill Stage I Area A (CH.FB1+66) to DN900 Valve Chamber at CH.FD3+43  DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45)  DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days		3 5 11/2/24	Calandar Day	764	782	0%	NA	NA											
DN1200 MS Pipe - Pipeline Cleaning and CCTV From DN900 Valve Chamber at CH.FD 3+43 to DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Tue 14/11/23	3 Sun 11/2/24	Calendar Day	764	782	U76	IVA	IVA											
DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Tue 24/10/23	3 Sun 21/1/24	Calendar Day	765	782	0%	NA	NA											
Chamber at Mau Wu Tsai (CH.HA0+44) to DN900 Valve at Mau Wu Tsai (CH.HA6+45) DN1200 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN900 Valve at Mau Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days	Sun 1/5/22	Wed 29/6/22	Calendar Day	767	782	0%	NA	NA											
Wu Tsai (CH.HA6+45) to DN800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+90) & DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV  18 days																			
DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Sun 9/7/23	Wed 6/9/23	Calendar Day	768	782	0%	NA	NA											
Chamber at TKO F.W.S.R.(CH.HE1+90) to CH.HE2+11	Mon 1/8/22	Thu 18/8/22	Calendar Day	769	782	0%	NA	NA											
DN800 MS Pipe - Pipeline Cleaning and CCTV Inspection From DN800 EMF & BV 18 days	Tue 31/5/22	Fri 17/6/22	Calendar Day	770	782	0%	NA	NA							a a				
Chamber at TKO F.W.S.R.(CH.HF1+30) to CH.HF3+10																		-	
Sterilization and Water Sampling 30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day			0%	NA	NA										, i	
DN1200 MS Pipe - Portion I & Portion H (Total Water = 9700 cu.m) 30 days	Mon 8/7/24	Tue 6/8/24	Calendar Day	772,773,774,775,777,77	/8,7 787	0%	NA	NA										=	
S250 HDPE Pipe Static Pressure, Pipeline Cleaning, CCTV Inspection, Sterilization and 60 days	Fri 23/12/22	Mon 20/2/23	Calendar Day			0%	NA	NA								-			
/ater Sampling																			
NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 137) 30 days	Fri 23/12/22	Sat 21/1/23	Calendar Day	121	785	0%	NA	NA											
NS250 HDPE Pipe - Pipeline Cleaning and CCTV Inspection, Sterilization and Water 30 days	Sun 22/1/23	Mon 20/2/23	Calendar Day	784	788	0%	NA	NA								-			
Sampling - Portion H (Area 137) andover Portion I and Portion H to WSD Region 563 days	ys Tue 21/2/23	Thu 5/9/24	Calendar Day	of a light bullion	Service Services	0%	NA	NA								-			
DN1200 MS Pipe - Portion I & Portion H (Area 137) 30 days	Wed 7/8/24	Thu 5/9/24	Calendar Day	/82		0%	NA	NA											
NS250 HDPE Pipe - Portion H (Area 137) 7 days	Tue 21/2/23	Mon 27/2/23	Calendar Day	785	164	0%	NA	NA								I			
Vater Supply to Tseung Kwan O Desalination Plant at Fill Bank of Tseung Kwan O Area 445 days	ys Tue 7/11/17	Sat 11/5/19	HK Working Da	ay		99%	Tue 7/11/17	NA	V		7								
37 (Portion J)					THE SALES											1			
Issue of CE No. 02 0 days	Fri 16/11/18	Fri 16/11/18	HK Working Da	i <b>y</b>	791	100%	Fri 16/11/18	Fri 16/11/18		<ul><li>♦ 16/1</li></ul>									
Procurement of Major Material 48 days	Sat 17/11/18	8 Thu 3/1/19	Calendar Day	790	792	100%	Sat 17/11/18	Thu 3/1/19											
	Fri 4/1/19	Thu 25/4/19	HK Working Da	av 791	793	100%	Fri 4/1/19	Thu 25/4/19											
Installation of NS250 HDPE Pipe from A to B in accordance with the Drawing No. 89 days 13/WSD/16/SK13 to SK15 and W20203/4A	FII 4/1/19	1110 Z3/4/19	THE WOLKING DE	7 /31	755														
Sterilization and Flushing NS250 HDPE Pipe (From T0+00 to T23+64)  4 days	Wed 24/4/19	9 Sun 28/4/19	HK Working Da	ıy 792	794	100%	Wed 24/4/19	Sun 28/4/19			1								
Take Water Sampling 1 day	Mon 29/4/19	.9 Mon 29/4/19	HK Working Da	ay 793	795	100%	Mon 29/4/19	Mon 29/4/19			1								
			-	ay 794	79655	100%	Sat 11 /5 /10	Sat 11/5/10											
Backfill at T23+64 after completion of Water Sampling Test 1 day	Sat 11/5/19	Sat 11/5/19	HK Working Da	1y 794	796FF	100%	Sat 11/5/19	Sat 11/5/19											
Handover Portion J to WSD Region 0 days	Sat 11/5/19	Sat 11/5/19	HK Working Da	ay 795FF		100%	Sat 11/5/19	Sat 11/5/19			♦ 11/5								
1 day	Tue 7/11/17	7 Tue 7/11/17	None			0%	NA	NA											
1 007		,,,								-									
Task Summary Inc		D.																	
rogramme No. 15 Split Project Summary Inv 124 May 2022 Milestone Inactive Task M.  Milestone	Inactive Milestone		uration-only	Start-only Finish-only		External Milesto Deadline	one 🌼	Critical Sp Progress	it										





## Appendix B

Overview of Mainlaying in Tseung Kwan O





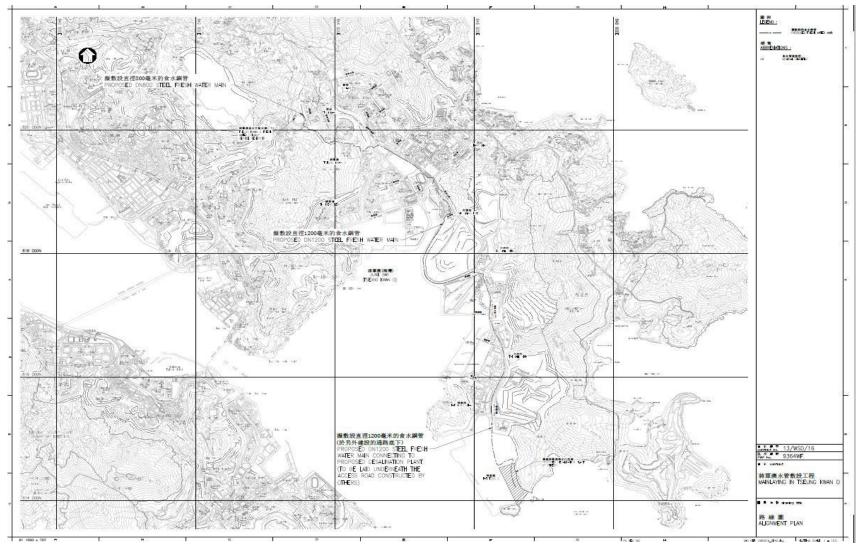


Figure B1. Overview of Mainlaying in TKO





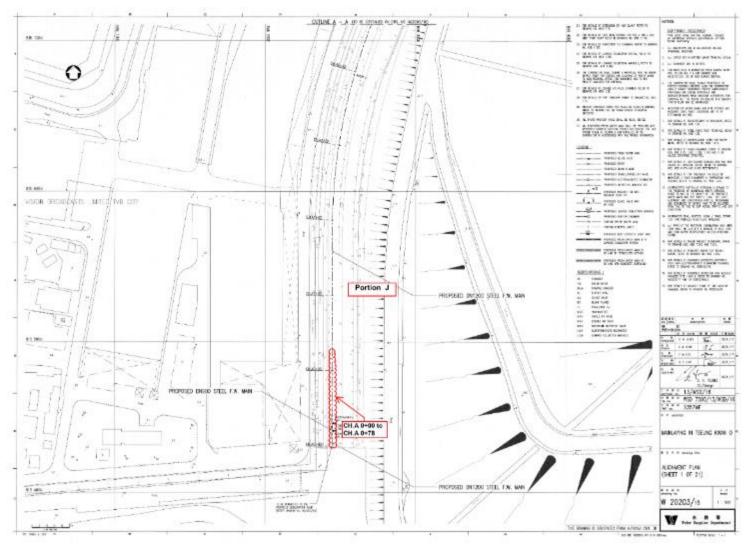


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78





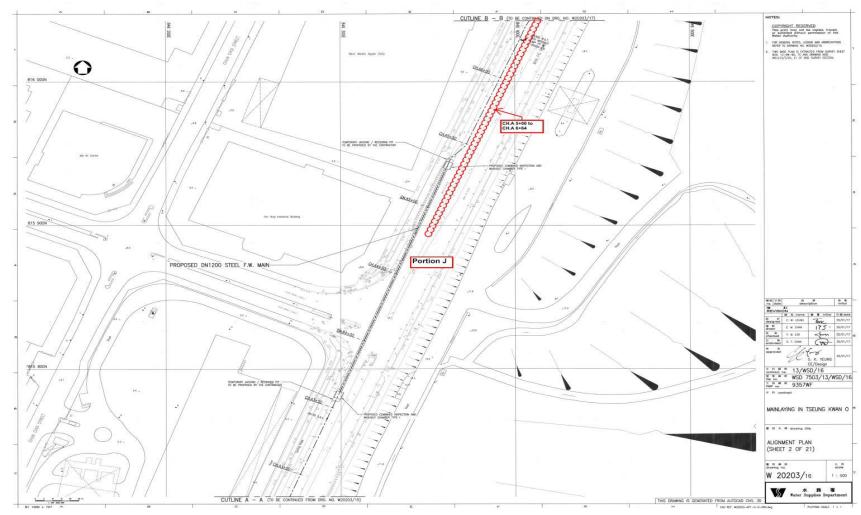


Figure B3. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64





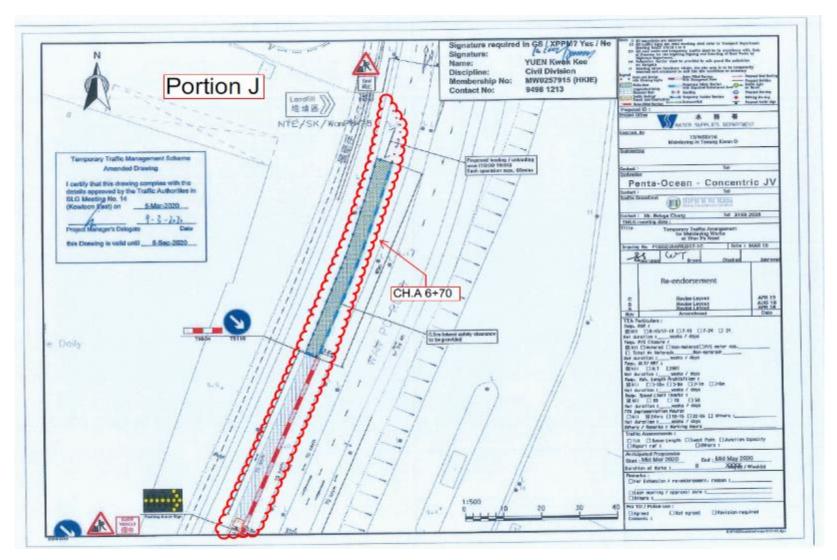


Figure B4. Location Plan for Portion J - CH.A 6+70





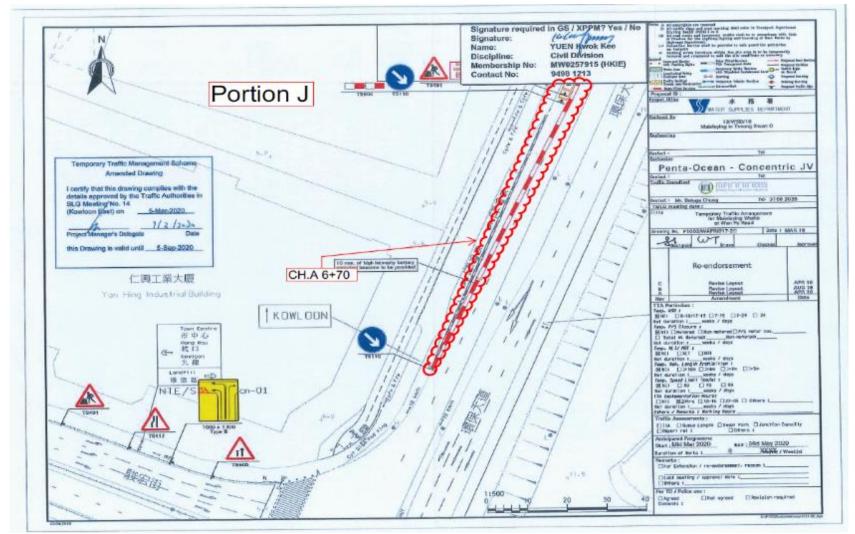


Figure B5. Location Plan for Portion J - CH.A 6+70





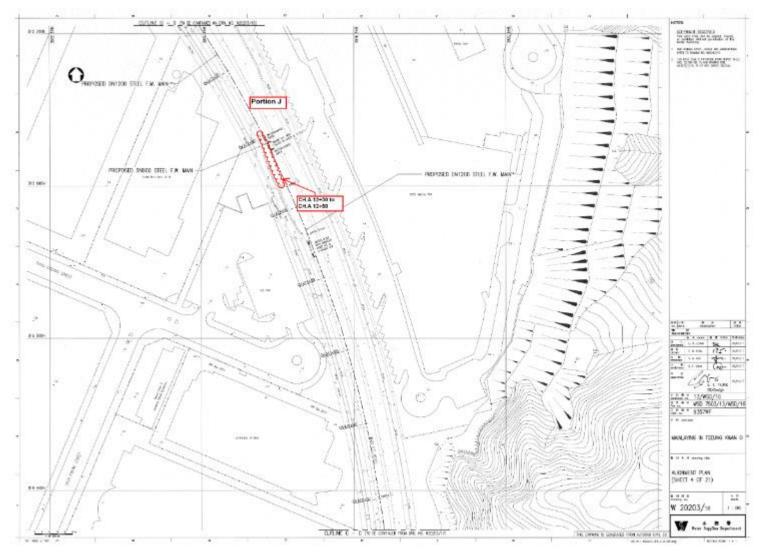


Figure B6. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50

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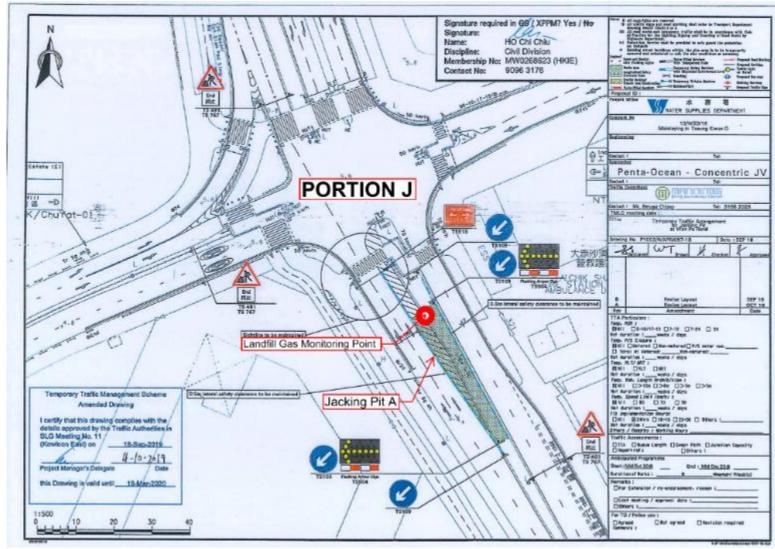


Figure B7. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)





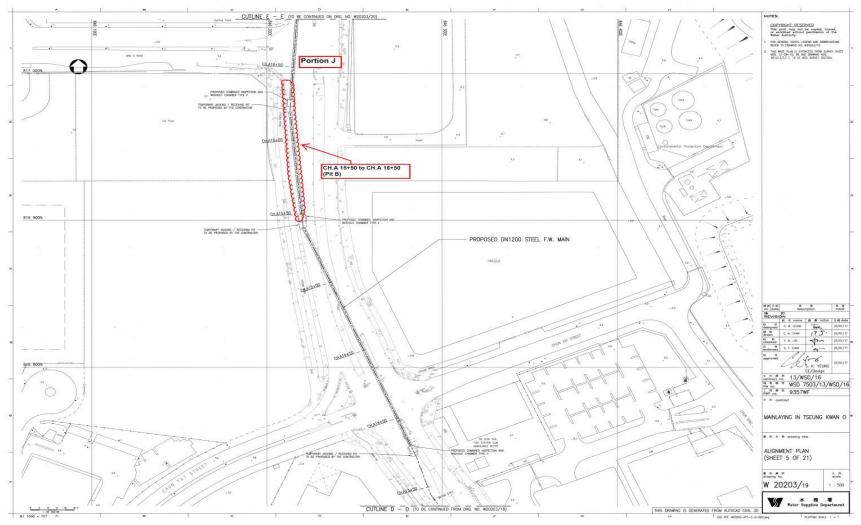


Figure B8. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)





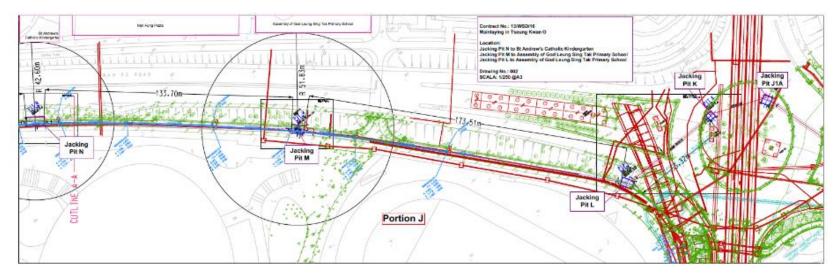


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



Figure B8b. Location Plan for Portion  $J-Pit\ N-O-P$ 





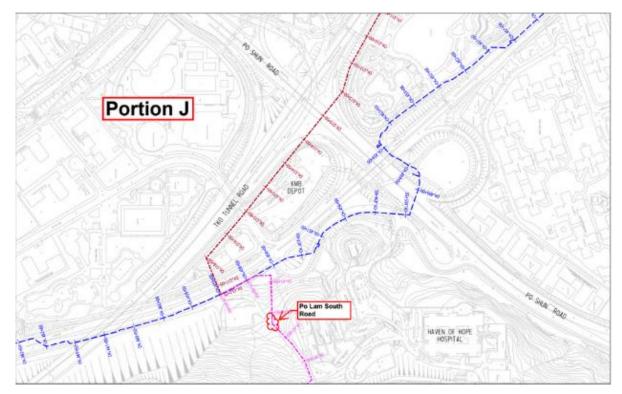


Figure B9a. Location Plan for Mau Wu Tsai 1

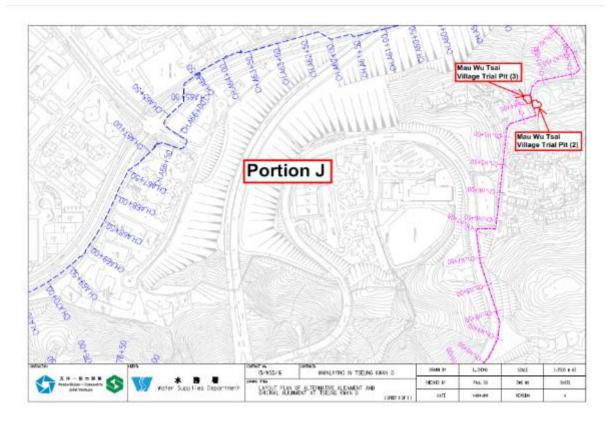


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3





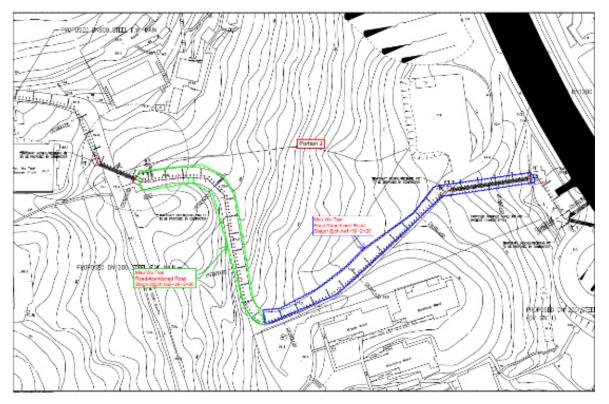


Figure B9c. Abandoned Mau Wu Tsai Road

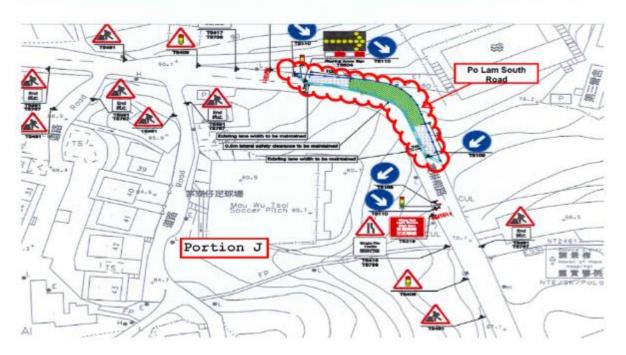


Figure B10. Monitoring Location – Po Lam South Road





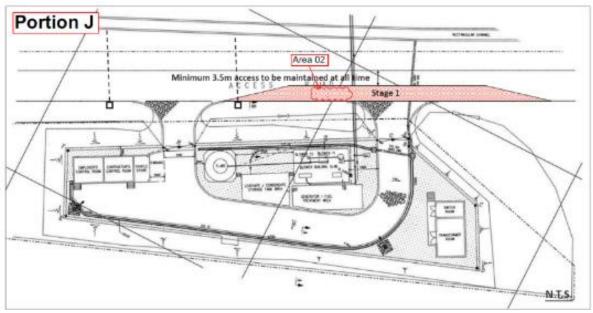


Figure B11. Monitoring Location – Area A02

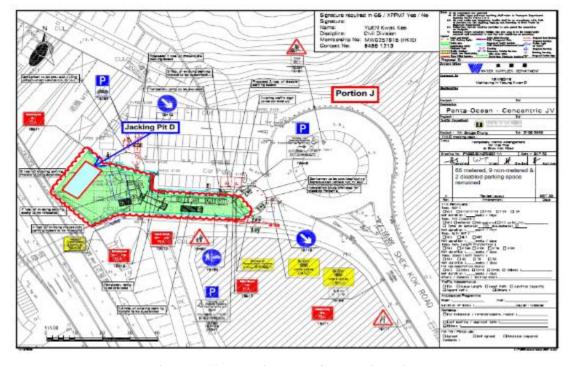


Figure B12. Location Plan for Jacking Pit D





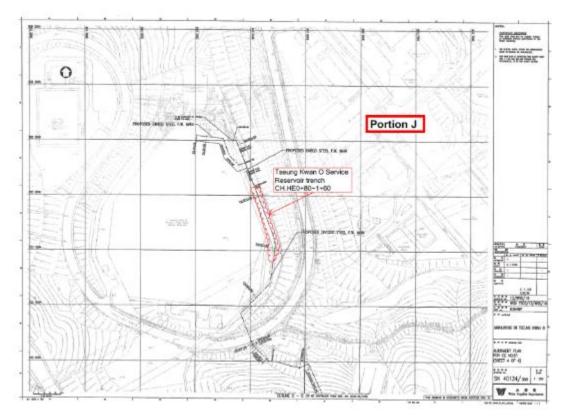


Figure B13. Location Plan for CH.HE0+80-1+60

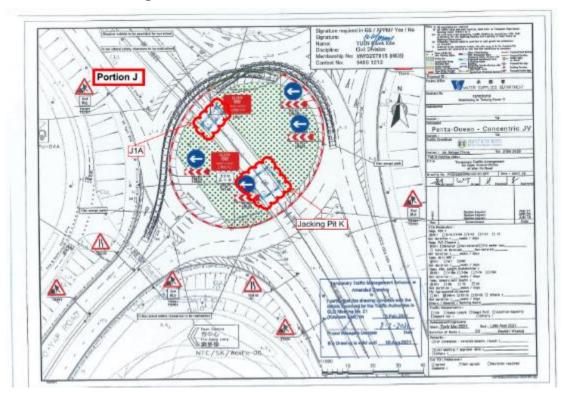


Figure B14. Location Plan for Pit K





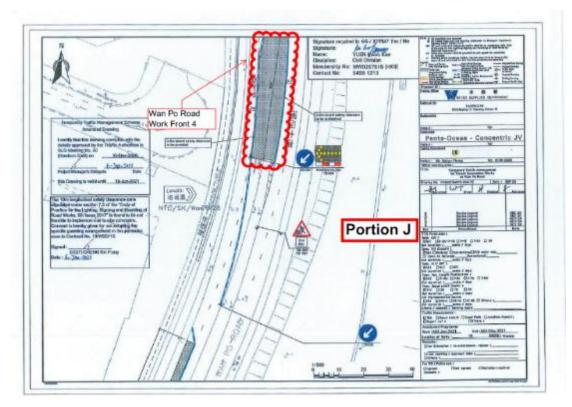


Figure B15. Location Plan for Wan Po Road 4

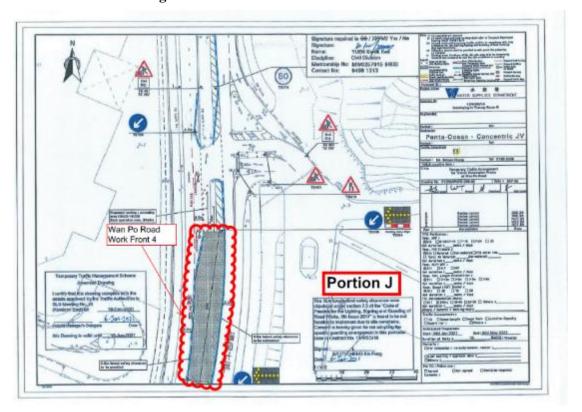


Figure B16. Location Plan for Wan Po Road 4





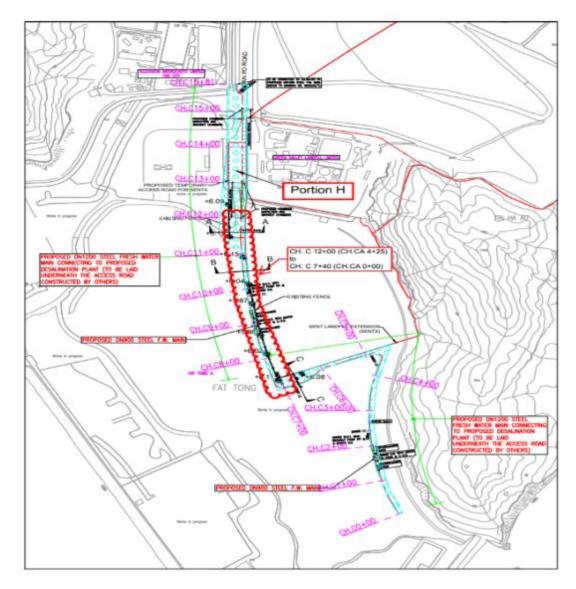


Figure B17. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)





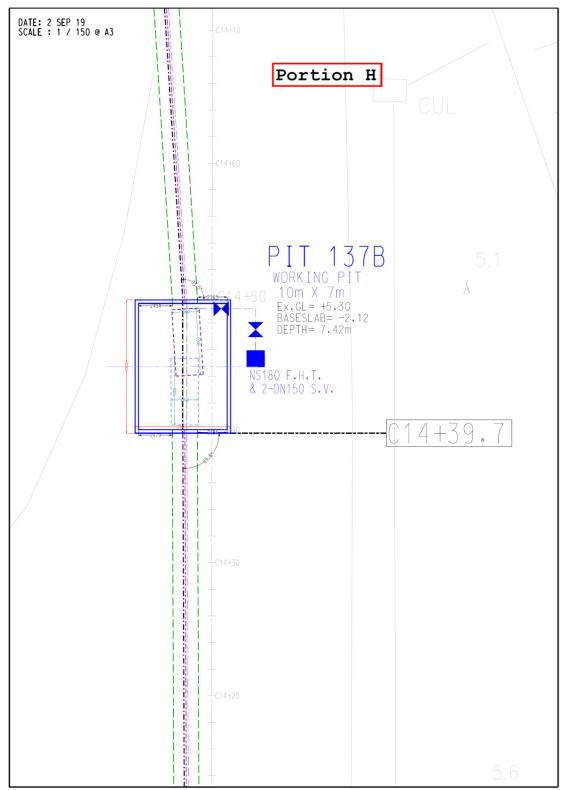


Figure B18. Location Plan for Portion H- Pit 137B





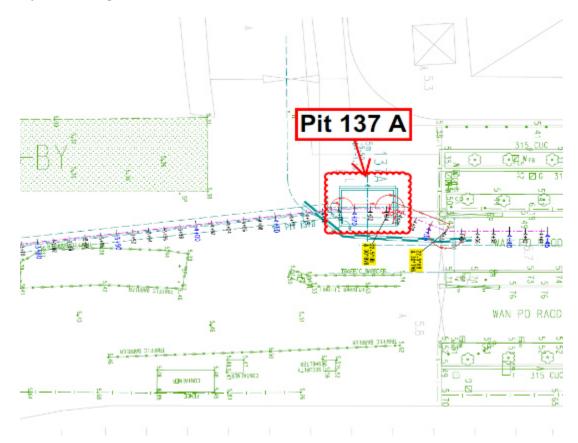


Figure B19. Location Plan for Portion H- Pit 137A

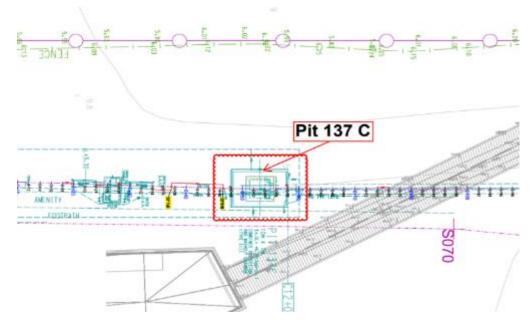


Figure B20. Location Plan for Portion H- Pit 137C





## Appendix C

Summary of Implementation Status of Environmental Mitigation





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	С	О	status	Guidelines
Air Quality								
S4.8.1	Impervious dust screen or sheeting will be provided to enclose scaffolding from the ground floor level of building for construction of superstructure of the new buildings.	Land site/ During Construction	Contractor(s)		<b>✓</b>		N/A	Air Pollution Control (Construction Dust)
S4.8.1	Impervious sheet will be provided for skip hoist for material transport.	Land site/ During Construction, particularly dry season	Contractor(s)		<b>✓</b>		N/A	
S4.8.1	The area where dusty work takes place should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after dusty activities as far as practicable.	Land site/ During Construction	Contractor(s)		<b>✓</b>		Implemented	
S4.8.1	All dusty materials should be sprayed with water or a dust suppression chemical immediately prior to any loading, unloading or transfer operation.	Land site/ During Construction	Contractor(s)		<b>*</b>		Implemented	
S4.8.1	Dropping heights for excavated materials should be controlled to a practical height to minimize the fugitive dust arising from unloading.	Land site/ During Construction	Contractor(s)		<b>√</b>		Implemented	
S4.8.1	During transportation by truck, materials should not be loaded to a level higher than the side and tail boards and should be dampened or covered before transport.	Land site/ During Construction	Contractor(s)		<b>√</b>		Implemented	
S4.8.1	Wheel washing device should be provided at the exits of the work sites. Immediately before leaving a construction site, every vehicle shall be washed to remove any dusty material from its body and wheels as far as practicable.	Land site/ During Construction	Contractor(s)		<b>✓</b>		Implemented	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		<b>√</b>		N/A	
S4.8.1	Hoarding of not less than 2.4m high from ground level will be provided along the length of the Project Site boundary.	Land site/ During construction	Contractor(s)	✓	<b>✓</b>		Implemented	





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
S4.8.1	Haul roads will be kept clear of dusty materials and will be sprayed with water so as to maintain the entire road surface wet at all times.	Land site/ During construction	Contractor(s)		<b>√</b>		Implemented	
S4.8.1	Temporary stockpiles of dusty materials will be either covered entirely by impervious sheets or sprayed with water to maintain the entire surface wet all the time.	Land site/ During construction	Contractor(s)		<b>√</b>		Implemented	Air Pollution Control (Construction Dust)
S4.8.1	Stockpiles of more than 20 bags of cement, dry pulverised fuel ash and dusty construction materials will be covered entirely by impervious sheeting sheltered on top and 3-sides.	Land site/ During construction	Contractor(s)		1		Implemented	
S4.8.1	All exposed areas will be kept wet always to minimize dust emission.	Land site/ During construction	Contractor(s)		1		Implemented	
S4.8.1	Ultra-low-Sulphur diesel (ULSD) will be used for all construction plant on-site, as defined as diesel fuel containing not more than 0.005% Sulphur by weight) as stipulated in Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites.	Land site/ During construction/ During Operation	Contractor(s)		<b>√</b>	<b>√</b>	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB-TC(W)) No 19/2005 on Environmental Management on Construction Sites
S4.8.1	The engine of the construction equipment during idling will be switched off.	Land site/ During construction	Contractor(s)		1		Implemented	-
S4.8.1	Concrete batching plant will be required on site. control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented. The control measures recommended in the Guidance Note on a Best Practicable Means for Cement Works (Concrete Batching Plant) (BPM 3/2 (93)) will be implemented.	Land site/ During construction	Contractor(s)		<b>✓</b>		N/A	Guidance Note on a Best
S4.8.1	Regular maintenance of construction equipment deployed on-site will be conducted to prevent black smoke emission.	Land site/ During construction	Contractor(s)		<b>V</b>		Implemented	-





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	•	lementa Stage	ation	Implementation status  Implemented	Relevant Legislation &
	Mitigation Measures	main concerns to address	Agent	D	С	О	status	Guidelines
S4.10	To ensure proper implementation of the recommended dust mitigation measures and good construction site practices during the construction phase, environmental site audits on weekly basis is recommended throughout the construction period.	construction	Contractor(s)/ (ET & IEC)		<b>✓</b>		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
Noise								
S5.7	Only well-maintained plant will be operated on-site and plant will be serviced regularly during the construction phase.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Silencers or mufflers on construction equipment will be utilised and will be properly maintained during the construction phase.	Noise control/ During construction	Contractor(s)		<b>*</b>		N/A	
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		<b>√</b>		Implemented	
S5.7	Machines and plant (such as trucks) that may be in intermittent use will be shut down between work periods or will be throttled down to a minimum.	Noise control/ During construction	Contractor(s)		<b>*</b>		Implemented	
S5.7	Plants known to emit noise strongly in one direction will, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.	Noise control/ During construction	Contractor(s)		1		Implemented	
S5.7	Material stockpiles and other structures will be effectively utilised, wherever practicable, in screening noise from on-site construction activities.	Noise control/ During construction	Contractor(s)		1		N/A	
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		✓		Implemented	
S5.7	Movable noise barriers of 3m in height with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers. The length of the barrier should be at least five times greater than its height. The noise barrier material should have a superficial surface density of at least 7 kg m-2 and have no openings or gaps.	Noise control/ During construction	Contractor(s)		•		N/A	
S5.7	The noise insulating sheet should be deployed such that there would be no opening or gaps on the joints.	Noise control/ During construction	Contractor(s)		1		N/A	
S5.7	Construction activities (e.g. excavation/shoring, reinstatement (asphalt), and pipe jacking) will be planned and carried out in sequence, such that items of PME proposed for these activities will not be operated simultaneously.	Noise control/ During construction	Contractor(s)		<b>✓</b>		Implemented	





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Impl	lementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	status	Guidelines
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (i.e. the "influence area" within a radius of 40m) during school hours in order to reduce impact to the educational institutions.	Noise control / During construction	Contractor(s)		<b>✓</b>		Implemented	-
S5.7	Noise enclosures or acoustic sheds would be used to cover stationary PME such as generators.  Portable/Movable noise enclosure made of material with superficial surface density of at least 7 kg m <sup>-2</sup> may be used for screening the noise from operation of the saw/groover, concrete.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	•		N/A	-
S5.9	Saw cutting pavement, breaking up of pavement, excavation /shoring, pipe laying, backfilling, reinstatement (concrete) and pipe jacking shall be scheduled outside the examination period.	Noise control/ Pre- construction/ During construction	Contractor(s)	<b>✓</b>	•		Implemented	-
S5.9	In view the duration of noise exceedance at Creative Secondary School, PLK Laws Foundation College, TKO Kei Tak Primary School and School of Continuing and Professional Studies-CUHK is limited to 8 weeks, the construction work in the influence areas near the four schools shall be scheduled during long school holidays (e.g. summer holiday, Easter holiday or Christmas holiday, etc.) as far as practicable. Scheduling the construction work for the four schools.	Noise control/ Pre- construction/ During construction	Contractor(s)	•	•		Implemented	-
S5.10	A noise monitoring programme shall be implemented for the construction phase.	During construction phase	ET		✓		Implemented	-
S5.10	The effectiveness of on-site control measures could also be evaluated through the regular site audits.	All facilities/ During construction	Contractor(s)/ ET & IEC		1		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	tion	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	- status	Guidelines
Water Qual	•							
S6.9	Silt removal facilities such as silt traps or sedimentation facilities will be provided to remove silt particles from runoff to meet the requirements of the TM standard under the WPCO. The design of silt removal facilities will be based on the guidelines provided in ProPECC PN 1/94. All drainage facilities and erosion and sediment control structures will be inspected on a regular basis and maintained to confirm proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit will be removed regularly.	Land site & drainage/ During construction	Contractor(s)		•		Implemented after observation	ProPECC PN 1/94 TM Standard under the WPCO
S6.9	Earthworks to form the final surfaces will be followed up with surface protection and drainage works to prevent erosion caused by rainstorms.	Land site & drainage/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		✓		Implemented	-
S6.9	The precautions to be taken at any time of year when rainstorms are likely together with the actions to be taken when a rainstorm is imminent or forecasted and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94.	Land site & drainage/ During construction	Contractor(s)		<b>*</b>		Implemented	ProPECC PN 1/94
S6.9	Oil interceptors will be provided in the drainage system where necessary and regularly emptied to prevent the release of oil and grease into the storm water drainage system after accidental spillages.	Land site & drainage/ During construction	Contractor(s)		<b>√</b>		N/A	-
S6.9	Temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge, if any, will be adequately designed for the controlled release of storm flows.	Land site & drainage/ During construction	Contractor(s)		<b>√</b>		N/A	-
S6.9	The temporary diverted drainage, if any, will be reinstated to the original condition when the construction work has finished or when the temporary diversion is no longer required.	Land site & drainage/ During construction	Contractor(s)		<b>✓</b>		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	_	ementa Stage	tion	Implementation status	Relevant Legislation & Guidelines
	<u> </u>	main concerns to address		D	C	O		Guidennes
S6.9	Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the construction workers over the construction site to prevent direct disposal of sewage into the water environment.	Land site & drainage/ During construction	Contractor(s)		•		Implemented	-
S6.9 and S6.12	The sterilization water should be dechlorinated with total residual chlorine (TRC) level below 1 mg/L before discharge to public sewer. In situ testing of TRC should also be conducted for the discharge of chlorinated water for pipeline disinfection to ensure sufficient dechlorination before discharge to public sewer.	Sterilization of water mains prior to commissioning	Contractor(s)		<b>√</b>	<b>√</b>	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
S6.9	The cleaning and flushing water should also be treated and desilted to the relevant discharge requirement stipulated in TM-DSS before discharging.	Sterilization of water mains prior to commissioning	Contractor(s)		✓	<b>√</b>	N/A	
S6.9	Site drainage should be well maintained, and good construction practices should be observed to ensure that oil, fuels, solvents and other chemicals are managed, stored and handled properly and do not enter the nearby water streams.	Land site & drainage/ During construction/ During operation	Contractor(s)		✓	<b>✓</b>	Implemented after observation	-
S6.12	Regular site inspections will be carried out in order to confirm that regulatory requirements are being met and that contractors are implementing the standard site practice and mitigation measures as proposed to reduce potential impacts to water quality.	During construction	Contractor(s)/ ET & IEC		<b>✓</b>		Implemented	-





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
Waste Man								
S8.5	Nomination of approved personnel to be responsible for standard site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site.	Contract mobilization/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S8.5	Training of site personnel in proper waste management and chemical handling procedures. Training will be provided to workers on the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling at the beginning of the construction works.	Contract mobilization/ During construction	Contractor(s)		<b>*</b>		Implemented	-
S8.5	Provision of sufficient waste disposal points and regular collection for disposal.	All area/ During construction/ During operation	Contractor(s)		<b>✓</b>	✓	Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	Appropriate measures to reduce windblown litter and dust transportation of waste by either covering trucks or by transporting wastes in enclosed containers.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	DEVB TC(W) No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness.
S8.5	A waste management plan (WMP) as stated in the "ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites" for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established and implemented during the construction phase as part of the Environmental Management Plan (EMP). The Contractor will be required to prepare the EMP and submits it to the Architect/ Engineer under the Contract for approval prior to implementation.	All area/ During construction	Contractor(s)		•		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites
S8.5	Separation of chemical wastes for special handling and appropriate treatment at the Chemical Waste Treatment Centre at Tsing Yi.	All area/ During construction	Contractor(s)		✓		N/A.	Chapters 2 & 3 Code of Practice on the Packaging, Labelling & Storage of Chemical Wastes published under the Waste Disposal Ordinance (Cap 354), Section 35





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	0	Status	Guidelines
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		1		Implemented	Waste Disposal Ordinance (Cap 354)
S8.5	A recording system for the amount of wastes generated/ recycled and disposal sites. The trip- ticket system will be included as one of the contractual requirements and implemented by the contractor(s).	Land site/ During construction	Contractor(s)		<b>√</b>		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of material and their proper disposal.	Land site/ During construction/ During operation	Contractor(s)		<b>*</b>		Implemented	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Encourage collection of aluminium cans and wastepaper by individual collectors during construction with separate labelled bins provided to segregate these wastes from other general refuse by the workforce.	Land site/ During construction	Contractor(s)		<b>✓</b>		Implemented	ETWB TCW No. 33/2002, Management of Construction and Demolition Material Including Rock
S8.5	Any unused chemicals and those with remaining functional capacity will be recycled as far as possible.	Land site/ During construction	Contractor(s)		✓		N/A	-
S8.5	Use of reusable non-timber formwork to reduce the amount of C&D materials.	All areas/ During construction	Contractor(s)		<b>√</b>		N/A	WBTC 32/92, The Use of Tropical Hard Wood on Construction Site
S8.5	Prior to disposal of construction waste, wood, steel and other metals will be separated to the extent practical, for re-use and/or recycling to reduce the quantity of waste to be disposed of to landfill.	All areas/ During construction	Contractor(s)		<b>✓</b>		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
S8.5	Proper storage and site practices to reduce the potential for damage or contamination of construction materials.	All areas/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	Plan and stock construction materials carefully to reduce amount of waste generated and avoid unnecessary generation of waste.	All areas/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	The management of dredged/ excavated sediment management requirement from ETWB TC(W) No. 34/2002 will be incorporated in the Specification of the Contract Documents.	Marine works/ During construction	WSD/ Contractor(s)		✓		Implemented	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olement Stage		Implementation	Relevant Legislation & Guidelines  Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation  DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials  ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites  Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	Status	
S8.5	The contractor will open a billing account with EPD in accordance with the Waste Disposal (Charges for Disposal of Construction Waste) Regulation for the payment of disposal charges.	Contract mobilisation/ During construction	Contractor(s)		<b>√</b>		Implemented	(Charges for Disposal of Construction Waste)
S8.5	A trip-ticket system will be established in accordance with DEVB TC(W) No. 6/2010 to monitor the reuse of surplus excavated materials off-site and disposal of construction waste and general refuse at transfer facilities/landfills, and to control fly-tipping.	Contract mobilisation/ During construction	Contractor(s)		<b>√</b>		Implemented	Trip Ticket System for Disposal of Construction &
S8.5	The project proponent will also conduct regular inspection of the waste management measures implemented on site as described in the Waste Management Plan.	All area/ During construction	Contractor(s)/ ET & IEC		<b>√</b>		Implemented	Environmental Management on
S8.5	A recording system (similar to summary table as shown in Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005) for the amount of waste generated, recycled and disposed of (including the disposal sites) will be established during the construction phase.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	Appendix G of ETWB
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		✓		Implemented	-
S8.5	Public fill and construction waste shall be segregated and stored in different containers or skips to facilitate reuse or recycling of materials and their proper disposal.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	-
S8.5	Specific areas of the work site will be designated for such segregation and storage if immediate use is not practicable.	All area/ During construction	Contractor(s)		1		Implemented	-
S8.5	To reduce the potential dust and water quality impacts of site formation works, C&D materials will be wetted as quickly as possible to the extent practice after filling.	All area/ During construction	Contractor(s)		<b>√</b>		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R); WPCO (Cap 358)
S8.5	Open stockpiles of excavated/ fill materials or construction wastes on-site should be covered with tarpaulin or similar fabric.	Land site/ During Construction, particularly dry season	Contractor(s)		<b>√</b>		Implemented	Air Pollution Control (Construction Dust) Regulation (Cap 311R)





EIA	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	olementa Stage	ation	Implementation	Relevant Legislation &
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	Status	Guidelines
S8.5	Chemical waste container shall be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>√</b>	Implemented after observation	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging,
S8.5	Chemical waste container shall have a capacity of less than 450 L unless the specifications have been approved by the EPD.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	Handling and Storage of Chemical Wastes
S8.5	A label in English and Chinese shall be displayed on the chemical container in accordance with instructions prescribed in Schedule 2 of the Regulations.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall have an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in that area, whichever is the greatest.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	<b>✓</b>	Implemented	
S8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		✓	✓	Implemented	
S8.5	Storage areas for chemical waste shall be covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary).	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>√</b>	Implemented	
S8.5	Storage areas for chemical waste shall be arranged so that incompatible materials are appropriately separated.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	1	Implemented	
S8.5	General refuse will be stored in enclosed bins or compaction units separately from construction and chemical wastes.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>V</b>	Implemented	
S8.5	Adequate number of waste containers will be provided to avoid over-spillage of waste.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>√</b>	<b>√</b>	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.





EIA Reference	Recommended Environmental Protection Measures/	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation	Relevant Legislation & Guidelines
Reference	Mitigation Measures	main concerns to address	Agent	D	C	О	Status	Guidennes
S8.5	A reputable waste collector will be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimise odour, pest and litter impacts.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>→</b>	✓	Implemented	-
S8.5	Recycling bins will be provided at strategic locations within the Site to facilitate recovery of recyclable materials (including aluminium can, waste paper, glass bottles and plastic bottles) from the Site. Materials recovered will be sold for recycling.	All area/ During construction/ During operation	Contractor(s)/ WSD		<b>✓</b>	~	Implemented	-
S8.5	To avoid any odour and litter impact, accurate number of portable toilets will be provided for workers on-site.	All area/ During construction	Contractor(s)		✓		Implemented	-
S8.5	The burning of refuse on construction sites is prohibited by law.	All area/ During construction	Contractor(s)		✓		Implemented	Air Pollution Control Ordinance (Cap 311)
S8.7	To facilitate monitoring and control over the contractors' performance on waste management, a waste inspection and audit programme will be implemented throughout the construction phase.	All facilities/ During construction	ET/ IEC		✓		Implemented	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Imp	lementa Stage	ation	Implementation Status	Relevant Legislation & Guidelines
Reference	Wildgation Measures	main concerns to address	Agent	D	C	О	Status	Guidennes
Ecology								
S9.7	Erect fences along the boundary of the works area before the commencement of works to prevent vehicle movements and encroachment of personnel onto adjacent areas.	All area/ During construction	Contractor(s)		<b>✓</b>		Implemented	-
S9.7	Regularly check the work site boundaries to ensure that they are not breached, and that damage does not occur to surrounding areas.	All area/ During construction	Contractor(s)/ Environmental Team (ET)		<b>√</b>		Implemented	-
S9.7	Avoid any damage and disturbance, particularly those caused by filling and illegal dumping, to the surrounding habitats through proper management of waste disposal.	All area/ During construction	Contractor(s)		<b>*</b>		Implemented	-
S9.7	Reinstate temporarily affected areas, particularly the habitats of plantation and shrubland-grassland immediately after completion of construction works, through on-site tree/shrub planting. The tree/shrub species will be chosen with reference to those in the surrounding area.	All area/ During construction	Contractor(s)		<b>✓</b>		N/A	-





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imp	plement Stage		Implementation Status	Relevant Legislation & Guidelines
Reference	Magazon Measures	main concerns to address	rigent	D	C	0	Sucus	Guidennes
Landscap								
S11.10	The construction area and area allowed for temporary structures, such as the contractor's office, will be minimized to a practical minimum. (MM1)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	At the detailed design stage, the design team will seek to minimize the landscape footprint of the Project and above ground facilities, while satisfying all other requirements. (MM2)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	Design principles will be adopted to take into account the surrounding area, particularly Clear Water Bay Country Park behind and the nearby waterfront, with due consideration given to:  - roadside planting;  - aesthetic treatment of all structures;  - vertical greening;  - screen planting along application site; and  - landscape enhancement with amenity planting where practical including planting along the edge (site boundary) fence with native shrubs where feasible to reduce their visual impact and blend them into the surrounding landscape.(MM3)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	-
S11.10	All trees within the Project Site or the potential slope mitigation works area will be carefully protected during construction according to DEVB TCW No. 10/2013 – Tree Preservation (MM4)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	✓	✓	✓	Implemented after observation	ETWB TCW No. 3/2006 - Tree Preservation.
S11.10	Trees within the Site unavoidably affected by the works will be transplanted where necessary and practical. For trees that need to be felled, compensatory planting will be provided to the satisfaction of relevant Government departments.  A compensatory tree planting proposal including locations of tree compensation will be submitted to seek relevant government department's approval, in accordance with DEVB TC(W) No. 10/2013. (MM5)	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	N/A	N/A	N/A	Not applicable for this project	DEVB TC(W) No. 10/2013





EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imj	plement Stage		Implementation Status	Relevant Legislation & Guidelines
		main concerns to address	8	D	С	0	~	<u> </u>
Landfill Ga			T				1	
S12.7	During all works, safety procedures should be implemented to minimise the risks of fires and explosions, asphyxiation of workers and toxicity effects resulting from contact with contaminated soil and groundwater.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	•	•	•	Implemented	-
S12.7	During trenching and excavation as well as creation of confined spaces at near to or below ground level, precautions should be clearly laid down and rigidly Gas detection equipment and appropriate breathing apparatus should be available and used when entering confined spaces or trenches deeper than 1 metre.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>✓</b>	<b>✓</b>	Implemented	
S12.7	The Contractor should make the workers are aware of potential hazards of working in confined spaces (any chamber, manhole or culvert which is large enough to permit access to personnel). Such work in confined spaces is controlled by the Factories and Industrial Undertakings (Confined Spaces) Regulations of the Factories and Industrial Undertakings Ordinance. Following the Safety Guide to Working in Confined Spaces ensures compliance with the above regulations.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	~	<b>√</b>	<b>√</b>	Implemented	
S12.7	Safety officers, specifically trained with regard to landfill gas and leachate related hazards and the appropriate actions to take in adverse circumstances, should be present on the site throughout the works, in particular, when works are undertaken below grade.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>✓</b>	<b>✓</b>	Implemented	
S12.7	All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>*</b>	<b>✓</b>	<b>✓</b>	Implemented	
S12.7	Monitoring for landfill gas should be undertaken in all excavations, manholes, chambers (particularly during pipe jacking) and any confined spaces through the use of an intrinsically safe portable instrument, appropriately calibrated and capable of measuring the concentrations	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>✓</b>	<b>✓</b>	Implemented	





	of methane. carbon dioxide and oxygen.						
S12.7	Monitoring frequency and areas to be monitored should be specified prior to commencement of groundwork, either by the Safety Officer, or by an appropriately qualified person. All measurements should be recorded and documented.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>✓</b>	<b>*</b>	Implemented
S12.7	Proceed drilling with adequate care and precautions against the potential hazards which may be encountered.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>*</b>	<b>*</b>	<b>\</b>	Implemented
S12.7	Prior to the commencement of the site works, the drilling contractor should devise a 'method-of- working' statement covering all normal and emergency procedures (including but not limited to number of operatives, experience and special skills of operatives, normal method of operations, emergency procedures, supervisors' responsibilities, storage and use of safety equipment, safety procedures and signs, barriers and guarding). The site supervisor and all operatives must be familiar with this statement.	All area/ During construction/ During operation	Contractor(s)	•	~	*	Implemented
S12.7	Where below ground service entries are necessary to the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II), the entry point should be sealed to prevent gas entry. In addition, any below grade cable trenches entering the Incoming Switchgear Room and 132 kV Substation can become the pathway for landfill gas and hence grilled metal covers should be used.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>✓</b>	<b>✓</b>	N/A
12.7	It is recommended regular landfill gas monitoring should be carried out at the Incoming Switchgear Room, 132 kV Substation and Chlorine Store (I) and (II). The monitoring frequency will be monthly for the first year of operation. If the monitoring results show no sign of landfill gas migration, reduce the monitoring frequency to once every six months.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	1	<b>✓</b>	N/A
12.7	The manholes and utility pits within the Project Site and along the fresh water mains. Each manhole/ utility pit should be monitored with two measurements (at mid depth and base). Each measurement should be monitored for a minimum of 10 minutes. A steady reading and peak reading should be recorded at each manhole/ utility pit	All area/ Detailed design/ During construction/ During operation	Contractor(s)	<b>✓</b>	<b>√</b>	<b>√</b>	Implemented

### Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report





	and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.						
S12.7	All construction, operation and maintenance personnel working on-site as well as visitors should be made aware of the hazards of landfill gas and its possible presence on-site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on landfill gas hazards and the designs and procedural means by which these hazards are being minimized on-site.	-	Contractor(s)	<b>√</b>	<b>✓</b>	<b>√</b>	Implemented





## Appendix D

Impact Monitoring Schedule of the Reporting Month

## Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O

## Tentative Environmental Monitoring Schedule (December 2023)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	Impact Noise Monitoring	9
10	11	12	13	Impact Noise Monitoring	15	16
17	18	19	Impact Noise Monitoring	21	22	23
24	25	26	27	28	29	Impact Noise Monitoring
31						

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





## Appendix E

Noise Monitoring Equipment Calibration Certificate

# Certificate of Calibration

Description:

Sound Level Calibrator

Manufacturer:

**RION** 

Type No.:

NC-75

Serial No.:

35124527

### Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon,

Hong Kong

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

**✓** Within

☐ Outside

the allowable tolerance.

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

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

Date of receipt: 19 October 2023

Date of calibration: 27 October 2023

Date of NEXT calibration: 26 October 2024

Calibrated by:

Certified by:

Mr. Ng Yan Wa Xaboratory Manager

Date of issue: 27 October 2023

Certificate No.: APJ23-090-CC002

Page 1 of 2



#### 1. Calibration Precautions:

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

#### 2. Calibration Specifications:

Calibration check

#### 3. Calibration Conditions:

Air Temperature:	24.4 °C
Air Pressure:	1013 hPa
Relative Humidity:	65.4 %

#### 4. Calibration Equipment:

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

#### 5. Calibration Results

#### 5.1 Sound Pressure Level

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

#### Note:

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



Certificate No.: APJ23-090-CC002

Page 2 of 2

# Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

**SVANTEK** 

Type No.:

Svan 971 (Serial No.: 77731)

Microphone:

BA3871 (Serial No.: 13905)

Preamplifier:

SV18 (Serial No.: 121481)

### Submitted by:

Customer:

Acuity Sustainability Consulting Limited

Address:

Unit E, 12/F, Ford Glory Plaza,

Nos. 37-39 Wing Hong Street,

Cheung Sha Wan, Kowloon, Hong Kong

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

☑ Within (31.5Hz – 8kHz)

Outside

the allowable tolerance.

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

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

Date of receipt: 16 March 2023

Date of calibration: 21 March 2023

Date of NEXT calibration: 20 March 2024

Calibrated by:

Calibration Technician

Certified by:

Mr. Ng Yan Wa

aboratory Manager

Date of issue: 21 March 2023

Certificate No.: APJ22-157-CC001

Page 1 of 4

Homepage: http://www.aa-lab.com

# Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

#### 1. Calibration Precaution:

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

#### 2. Calibration Conditions:

Air Temperature:

22.1 °C

Air Pressure:

1003 hPa

Relative Humidity:

62.2 %

### 3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

**Multifunction Calibrator** 

B&K 4226 2288467

AV220061

**HOKLAS** 

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setting of Unit-under-test (UUT)			Appl	lied value	UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. V	Veighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBA	SPL	Fast	94	1000	94.1	±0.4

### Linearity

Setti	ing of Uni	t-under-t	est (UUT)	App	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
20-120	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

#### Time Weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
20-120	dBA	SPL	Fast	94	1000	94.1	Ref
20-120	UDA	SPL	Slow	94	1000	94.1	±0.3

Certificate No.: APJ22-157-CC001



Page 2 of 4

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com



#### Frequency Response

#### Linear Response

Sett	ing of Uni	t-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.2	±2.0
					63	94.2	±1.5
					125	94.2	±1.5
					250	94.1	±1.4
20-120	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.1	Ref
					2000	93.8	±1.6
					4000	92.9	±1.6
					8000	91.4	+2.1; -3.1

#### A-weighting

Sett	ing of Ui	nit-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. V	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.9	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.1	-16.1 ±1.5
					250	85.5	-8.6 ±1.4
20-120	dBA	dBA SPL Fa	Fast	94	500	90.9	-3.2 ±1.4
					1000	94.1	Ref
					2000	95.0	+1.2 ±1.6
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
					8000	90.5	-1.1+2.1; -3.1

#### C-weighting

Sett	ing of Uni	it-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
			0		63	93.4	$-0.8 \pm 1.5$
				125	94.0	-0.2 ±1.5	
				250	94.1	-0.0 ±1.4	
20-120	dBC	SPL	Fast	94	500	94.2	-0.0 ±1.4
					1000	94.1	Ref
					2000	93.6	-0.2 ±1.6
					4000	92.1	-0.8 ±1.6
					8000	88.6	-3.0 +2.1: -3.1

Certificate No.: APJ22-157-CC001



Page 3 of 4



### 5. Calibration Results Applied

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

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.10
	500 Hz	± 0.10
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

#### Note:

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

AL TESTING LABORATION AND THE STING LABORATION

Page 4 of 4





## Appendix F

Event / Action Plan for Noise Exceedance





#### **Event and Action Plan for Construction Noise Monitoring**

Event	Act	tion							
	ET		IEC		ER		Co	ntractor	
Action Level		the source and cause of the complaint/ exceedance(s)	<ol> <li>2.</li> <li>3.</li> </ol>	Review the analyzed results submitted by the ET Review the proposed remedial measures by the Contractor and advise the ER accordingly Supervise the implementation of remedial measures	1. 2. 3.	Confirm receipt of Notification of Exceedance in writing Require Contractor to propose remedial measures for the analysed noise problem Ensure remedial measures are properly implemented	1.	Submit noise mitigation proposals if required, to the IEC and ER Implement noise mitigation proposals.	
nit Level		1. Notify IEC, ER, EPD and Contractor 2. Identify the source(s) of impact by reviewing all the relevant monitoring data and the corresponding construction activities. Exceedances should also be confirmed by immediate verification in the field at far as practical.  3. Repeat measurement to confirm findings 4. Increase monitoring frequency 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implement. 6. inform IEC, ER and EPD the cause & actions taken for the exceedances 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results 8. If exceedance stops, cease additional monitoring.	g ed. t	Discuss amongst ER, ET, and Contractor on the potential remedial actions     Review Contractor's remedial actions to assure their effectiveness and advise the ER &ET accordingly     Supervise the implementation of the remedial measures	2. 3. 4. 5.	Confirm receipt of notification of exceedance in writing Notify Contractor Require Contractor to propose remedial measures for the analyzed noise problem Ensure remedial measures are properly implemented If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted	2. I 3. I 4. I 5. S	Take immediate action to avoid furth exceedance identify practicable measures to minimize the noise impact. Submit proposals for remedial actions to ER within three working days of notification implement the agreed proposals Resubmit proposal if problem still nounder control. Stop the relevant portion of works as determined by the ER until the exceedance is abated	





## Appendix G

Noise Monitoring Data





Table G 1 Summary of Noise Monitoring Result

			L <sub>eq-5min</sub> , dB(A)					1	T	T	Limit		
Date	Time	Weather	Reading (1)	Reading (2)	Reading (3)	Reading (4)	Reading (5)	Reading (6)	L <sub>eq-30min</sub> , dB(A)	L <sub>10-30mins</sub> , dB(A)	L <sub>90-30mins</sub> dB(A)	Level, dB(A)*	Noise Meter
1/12/2023	10:57 - 11:27	Sunny	67.4	64.5	66.8	65.2	66.9	65.2	66.1	69.9	62.9	70.0	SVANTEK 971
8/12/2023	11:03 - 11:33	Fine	65.3	66.8	65.5	67.3	68.3	68.9	67.2	71.0	64.2	70.0	SVANTEK 971
14/12/2023	10:53 - 11:23	Fine	66.8	63.6	65.3	65.7	64.4	65.8	65.4	68.6	62.3	70.0	SVANTEK 971
20/12/2023	10:50 - 11:20	Sunny	64.5	64.8	63.5	65.8	66.7	64.6	65.1	68.3	62.1	70.0	SVANTEK 971
30/12/2023	10:55 - 11:25	Fine	70	70.5	69.5	68.4	69.9	70.9	69.9	72.7	65.3	70.0	SVANTEK 971





## Appendix H

Waste Flow Table





#### **Appendix H - Waste Flow Table**

	Ac	ctual Quantitie	es of Inert C&D	Materials Ge	nerated Month	ıly	Actual	Quantities of N	lon-C&D Wast	es Generated I	Monthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Project	Disposed as Public Fill	Imported Fill	Metals	Paper / Cardboard packaging	Plastics	Chemical Waste	Other, 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 2023	0.542	0.015	0.122		0.420	0.389		0.052			0.002
Feb 2023	1.213	0.076	0.206		1.007	1.044		0.055			0.000
Mar 2023	1.093	0.045	0.188		0.905	1.382		0.059			0.005
Apr 2023	1.484	0.000	0.363		1.121	1.796		0.056			0.001
May 2023	1.819	0.022	0.386		1.433	0.934		0.051			0.006
Jun 2023	1.400	0.011	0.574		0.826	0.613		0.052			0.007
Sub-total	7.551	0.169	1.839	0.000	5.712	6.196	0.000	0.325	0.000	0.000	0.021
Jul 2023	0.709	0.015	0.466	-	0.243	0.520	-	0.057			0.005
Aug 2023	0.787	0.012	0.422		0.365	0.559		0.051			0.008
Sep 2023	0.816	0.000	0.586		0.230	0.000		0.050			0.011
Oct 2023	0.399	0.000	0.376		0.023	0.441		0.050			0.002
Nov 2023	0.531	0.011	0.493		0.038	0.592		0.056			0.005
Dec 2023	0.362	0.000	0.341		0.021	0.042		0.048			0.002
Total	11.155	0.207	4.523	0.000	6.632	8.308	0.000	0.637	0.000	0.000	0.054

#### Notes:

<sup>1)</sup> Total quantity Generated only refers to the actual Quantitates of inert C&D materials generated monthly excluding those that will be recycled (Hard rock & large broken concrete, reused in contract and reused in another contract). Imported fill will not be included in total quantity generated as those C&D materials are not generated from this project.

<sup>2)</sup> The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

<sup>3)</sup> Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging materials.





## Appendix I

Landfill Gas Monitoring Equipment Calibration Certificate



## 香港新界葵涌葵昌路58-70號永祥工業大廈10樓B室

Unit B, 10/F., Wing Cheung Industrial Building, 58-70 Kwai Cheong Road, Kwai Chung, New Territories, HK Tel: (852) 2751 7770 Fax: (852) 2756 2051 E-mail: rotter@rotter.com.hk

## Calibration Report - Gas Detector

PGM-2500 (	QRAE III) LEL/	O2/CO/H2S	
		02/00/1120	
Fi	Serial # : M02A00 irmware : V2.1 Cal date : 28-Jul-	14 Sensor:	QRAE III LEL/O2/CO/H2S Teddy
SENSOR DATA:			
LEL sensor (ME)	O2 sensor	CO sensor (Tox1)	H2S sensor (Tox2)
Calibration dates: 28-Jul-2023	28-Jul-2023	28-Jul-2023	28-Jul-2023
After Calibration levels 51%	18.10%	50 ppm	10.0 ppm
Alarm levels (Low): 10.00%	19.50%	35 ppm	10 ppm
Alarm levels (High): 20.00%	23.50%	200 ppm	20 ppm
TWA Level:		35 ppm	10 ppm
STEL Level :		100 ppm	15 ppm
	Back Light Measure  EL measurement Gas EL Custom Factor	Manual Average Methane 1.0	]
Gas types used : 4-Gas Mix: (18% O2, 50ppm CO			Gas lot :302-402538759-74
*** Fresh Air Calibration is highly recommended to Replaced Parts:	o proceed prior for mea	surement each time.	
Notes: The unit was calibrated and checked under good wo	orking condition		

Serviced by Teddy World Rotter International Ltd

### PROMAT (HK) LTD

寶時(香港)有限公司

901 New Trend Centre, 704 Prince Edward Road East, San Po Kong, Kowloon, Hong Kong Tel: (852)2661 2392 Fax: (852)2661 2086 <u>Email:sales@promat.hk</u> http://www.promat.hk



#### VERIFICATION CERTIFICATE OF CO2 METER

Report No. : 23030

Date : 27/11/2023

Client : Penta-Ocean-Concentric Joint Venture

#### **EQUIPMENT TO BE VERIFIED**

Equipment Name : CO2 Meter

Supplier : TES

 Model No.
 : TES-1370H

 Serial No.
 : 200901259

 Date of Verification
 : 17/11/2023

 Due Verification
 : 16/11/2024

#### **VERIFICATION DEVICES USED**

Reference Equipment : CO2 in N2
Supplier : NorLab
Model No. : H1013.5VN
Lot # : 1-006-21
Expiry date : 1/1/2024
Accuracy : Within +/-2%

#### **ENVIRONMENTAL CONDITION**

Ambient Temp : 24.9°C Relative Humidity : 50%

#### **Verification Result**

Test Number	Concentration (Mole%)	Results
Test 1	0.50%	4908ppm

#### Remarks

- 1 The Gas reference used in this verification has traceable accuracy to Manufacturer Standard
- 2 The above equipment was operated by the competent person
- 3 Promat is Registered ISO9001:2015 Quality Management System in Sales, Repair and Calibration Services

Certification

Verification by

Checked by

Ms. Ning Lee / Service Coordinator

Mr. Hei Kong / Technical Engineer

SGS Registered ISO9001:2015 Quality Management System of Sales, Maintenance & Calibration of Testing Equipment





## Appendix J

## Landfill Gas Monitoring Data

Contract no. 13/WSD/16

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
130711	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
137 PitA	4/12/2023	08:30	Fine /fainy	Ü	v	٥	20.9	20.5/999	9		
		13:30	Fine / Rainy	0	٥	0	20.9	24.4/ 999	9		
		16:30	Fine / Painy	O .	٥	0	20.9	21.9/999	9		
137 pit B		08:30	Fine / Rainy	ð	0	ن ن	20.9	205/ 999	4		
		13:30	Fine/Painy	0	0	0	20.9	244/ 999	9		
		16:30	Fine / Fairy	0	0	0	20,9	21.9 / 999	9		
137 pit 6		08130	Fine / Painy	0	.0	٥	20,9	20.5/ 999	9		
		13:30	Fine / Painy	Ü	0	0	20.9	24.4/ 999	9		
		16:30	Fine / Paring	0	8	0	20.9	71.9/ 999	, i		
Printerson (1971) (1971											
								1 /			

Name & Designation

Signature

Field Operator:

Wong Was Sing

Peter 4/12/2023

Laboratory Staff:

Checked by:

Contract no. 13/WSD/16

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIN)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
137 PitA	5/12/2023	08:30	Fine / Rainy	V	J	0	20.9	19.7/999	9		
		13:30	Fine / Rainy	Ç	٥	0	20.9	24.1/999	9		
		16:30	Fine / Painy	J	٥	٥	20.9	21.7/999	9		
137 pit B		08:30	Fine / Rainy	O	0	ی	20.9	19.7/ 999	9		
		13:30	Fine/Rainy	0	0	0	20.9	24.1/ 999	9		
		16:30	Fine / Bairy	0	0	0	20,9	21.7/ 999	9		
137 pit 6		08230	Fine / Rainy	3	J.	Ð	20.9	19.7/ 999	9		
		13:30	Fine / Bainy	0	0	0	20.9	24.1/ 999	9		
		16:30	Fine / Painy	0	0	0	20.9	21.7/ 999	9		
			The same of the sa				The second secon	//			

Name & Designation

Signature

Date

Field Operator:

Wong Wai Sing

Peter 5/12/2023

Laboratory Staff:

Checked by:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
137 pitA	0/12/2023	08:30	Fine /fainy	J	J	0	20.9	19.9/999	9	
		13:30	Fine / Rainy	0	0	0	20.9	22.5/ 999	9	
		16:30	Fine / Rainy	ა	٥	٥	20.9	21.5/999	9	
137 Pit B		08:30	Fine / Rainy	O	0	ى ئ	70.9	19.9/ 999	q	
		13:30	Fine/ Painy	3	0	0	20.9	225/ 999	9	
		16:30	Fine / Fairy	OO	3	0	20,9	21.5/ 999	9	
137 pit L		08230	Fine / Rainy	3	a	٥	20.9	199/ 999	৭	
		13:30	Fine / Painy	0	0	0	20.9	22.5/ 999	d	
		16:30	Fine / Paint	. 0	0	0	20.9	21.5/ 999	9	
								1		

Name & Designation

Signature

Date

Field Operator:

Wong Wai Sing

Geter

6/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIN)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
137 PitA	8/12/2023	08:30 Fine /Ra	Fine / Rainy	v	J J	0	20.9	19.2/999	9	
		13:30	Fine / Bainy	0	0	0	20.9	24/999	9	
		16:30	Fine / Painy	)	0	٥	20.9	21.4/ 999	9	
137 pit B		08:30	Fine / Rainy	0	٥	J	20.9	19.2/ 999	9	
		13:30	Fine/Rainy	0.	0	0	20.9	24 / 999	9	
		16:30	Fire / Painy	0	0	0	20,9	21.4/ 999	q	
137 pit 6		08230	Fine / Painy	0	O O	٥	20.9	19.2/ 999	9	
		13:30	Fire / Painy	0	0	0	20.9	24 / 999	9	
		16:30	Fine / Rainy	0	2	0	20,9	21.4/ 999	9	
								//	the second secon	

Name & Designation

Signature

Date

Field Operator:

Wong Wat Sing

Peter 8/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
137 pitA	12/12/2023	08:30	Fine / Fainy	J	J J	٥	70.9	22.3/ 999	9		
		13:30	Fine / Rainy	0	0	0	20.9	28:7/ 999	9		
		16:30	Fine / Ratny	S	٥	0	20.9	24.7/ 999	9		
137 Pit B		08:30	Fine / Painy	0	0	J J	70.9	223/ 999	9		
		13:30	Fine/Rainy	0	0	ũ	20.9	28.7/ 999	9		
		16:30	Fire / Rainy	O .	9	0	20,9	24.7/ 999	9		
137 pit L		08230	Fine / Painy	0	٥	٥	20.9	228/ 999	9		
		13:30	Fine / Baisy	0	O	0	20.9	28.7/ 999	9		
		16:30	Tine / Rainy	0	۵	0	20,9	24.7/ 999	9		
								<del>                                     </del>			
								/			
								/			
								/			

Name & Designation

Signature

Date

Field Operator:

Wong Was Sing

Pelur 12/12/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIN)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
137 pitA	13/12/2023	2/2023 08:30	Fine / fainy	v	J J	0	70.9	21.6/999	9		
		13:30	Fine / Rainy	9	0	0	20.9	23.2/ 999	9		
		16:30	Fine / Painy	9	٥	0	20.9	22.3/ 999	9		
137 pit B		08:30	Fine / Rainy	0	0	ð	20.9	21.6/ 999	q		
		13:30	Fine/Rainy	3	٥	0	20.9	23.2/ 999	q		
/		16:30	Fine / Fairy	0	3	0	20,9	22.3/ 999	4		
137 pit 6		08230	Fine / Painy	3	٥	٥	20.9	21.6/ 999	q		
		13:30	Fine / Rainy	0	Э	0	20.9	23.2/ 999	cy		
		16:30	Fine / Rainy	0	2	0	20.9	22.3/ 999	Ü		
			Name of Applications of the Control					/			
								/			
								/			
								//			

Name & Designation

Signature

Field Operator:

Wony Was Sing

Peter 13/12/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
13c7 H	17-11-2023

Sample location	Date of measurement	Sampling time	ling Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
137 ptA	15/12/2023	08:30	Fine / fain	V	0	0	70.9	232/999	q		
		13:30	Fine / Painy	0	٥	0	20,9	26.9/ 999	9		
		16:30	Fine / Painy	0	٥	0	20.9	24.4/ 999	9		
137 Pit B		08:30	Fine / Rainy	٥	0	ð	20.9	23,2/ 999	q		
		13:30	Fine/Painy	0	0	0	20.9	26.9/ 999	q		
		16:30	Fire / Fairy	O .	9	0	20,9	244/ 999	9		
137 pit 6		08230	Fine / Painy	0	i)	٥	20.9	23.2/ 999	9		
		13:30	Fine / Bainy	0	Э	0	20.9	26.9/ 999	9		
		16:30	Fine / Rainy	0	S .	0	20,9	24.4/ 999	9		
***************************************								1			

Name & Designation

Signature

Field Operator:

Wony Wat Sing

Peter 15/12/2023

Laboratory Staff:

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)		o (°C) / re (mbar)	Remark Depth (m)	
137 pitA	16/12/2023	08:30	Fine / Rainy	v	0	0	20.9	135/	999	q	
		13:30	Fine / Rainy	O	٥	0	20.9	239/	999	9	
		16:30	Fine / Painy	5	٥	٥	20.9	18.9/	999	9	
137 pit B		08:30	Fine / Rainy	0	0	ð	70.9	13.5/	999	q	
		13:30	Fine/ Rainy	J	0	0	20.9	23.9/	999	9	
		16:30	Fine / Fairy	0	0	0	20,9	18.9/	999	9	
137 pit L		08230	Fine / Painy	3	J)	٥	20.9	13.5/	999	9	
		13:30	Fine / fainy	0	Э	0	20.9	23.91	999	9	
		16:30	Fine / Rainy	0	ಎ	0	20,9	18.9/	999	9	
								-			
					The state of the s			1			
								1			

Name & Designation

Signature

Field Operator:

Wony Wat Sing

Peter 16/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIN)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
137 pitA	21/12/2023	08:30	Fine / Rainy	v	J	0	70.9	9.8/999	9	
		13:30	Fine / Rainy	0	0	0	20.9	12.3/ 999	9	
		16:30	Fine / fainy	٥	٥	٥	20.9	10.9/999	9	
137 Pit B		08:30	Fine / Rainy	0	0	j j	20.9	9.8 / 999	9	
		13:30	Fine/ Painy	3	0	0	20.9	12.3/ 999	9	
		16:30	Fine / Bairy	D C	3	0	20,9	10.9/ 999	9	
137 pit L		08230	Fine / Rainy	0	۵	٥	20.9	9.8/ 999	9	
		13:30	Fine / Raing	0	0	0	20.9	12.3/ 999	9	
		16:30	Fine / Painy	0	0	0	20.9	10.9/ 999	9	
								/		
								/		

Name & Designation

Signature

Date

Field Operator:

Wony Wai Sing

Geter 21/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
137 pitA	22/12/2023	08:30	Fine /fainy	J	J	0	20.9	8.6/999	9	
		13:30	Fine / Rainy	<b>O</b>	٥	0	20.9	12.3/ 999	9	
		16:30	Fine / Painy	o o	0	3	20.9	10.5/ 999	9	
137 pit B		08:30	Fine / Rainy	0	0	J J	20.9	8.6/ 999	9	
		13:30	Fine/ Rainy	3	0	0	20.9	12.3/ 999	q	
		16:30	Fine / Fring	O O	3	0	20,9	10.5/ 999	9	
137 pit L		08130	Fine / Painy	3	٥	٥	20.9	8.6/ 999	9	
		13:30	Fine / Rainy	0	0	0	20.9	12.3/ 999	c)	
		16:30	Fine / Rainy	0	0	0	20,9	10.3/ 999	9	
								/		
								/		
								/		
								/		

Name & Designation

Signature

Date

Field Operator:

Wong Wat Sing

Peter 22/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIN)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
137 pitA 27	27/12/2023	08:30	Fine /fainy	J	v	Ö	20.9	16.6/999	9	
		13:30	Fine / Rainy	Ç	0	0	20.9	21.8/ 999	9	
		16:30	Fine / Painy	٥	٥	٥	20.9	18.7/ 999	9	
137 pit B		08:30	Fine / Rainy	O	٥	ی	70.9	16.6/ 999	9	
		13:30	Fine/Rainy	O	٥	õ	20.9	21.8/ 999	9	
		16:30	Fine / Painy	0	3	0	20,9	18.7/ 999	9	
137 pit 6		08230	Fine / Fainy	<b>o</b>	O.	٥	20.9	16.6/ 999	9	
		13:30	Fine / Painy	0	)	0	20.9	21.8/ 999	4	
		16:30	Fine / Rainy	0	0	0	25,9	18,7/ 999	9	
								/		
								/		
								1		

Name & Designation

Signature

Field Operator:

Wong Wai Sing

Peter 27/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEII)	28-7-2023
1307 H	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
137 PitA	28/12/2023	08:30	Fine /fainy	J	J J	0	20.9	18.4 999	9
FOR STATE OF THE S		13:30	Fine / Rainy	Ο,	0	0	20.9	23.6/ 999	9
		16:30	Fine / Rainy	5	٥	٥	20.9	20.1/ 999	9
137 pit B		08:30	Fine / Rajany	٥	٥	ئ ئ	20.9	18.2/ 999	9
		13:30	Fine/Rainy	O .	0	0	20.9	23.6/ 999	9
		16:30	Fine / Bairy	0	0	0	20,9	20.1/ 999	9
137 pit L		08230	Fine / Painy	0	i)	٥	20.9	18.2/ 999	9
		13:30	Fine / Rainy	0	0	0	20.9	236/ 999	9
		16:30	Fine / Rainy	0	0	0	20,9	20.1/ 999	9
				***************************************				/	
								<del>                                     </del>	

Name & Designation

Signature

Field Operator:

Wony Was Sing

Signature Date
Peter 28/12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM - 2500 (QAEIII)	28-7-2023
13071	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Pit A	4/12/2023	08:30	Fine / fainy	0	0	0	20.9	20.5/949	9
		13:30	Fine / Rainy	0	0	Q	20.9	24.4/ 999	9
		16:30	Fine/ Painy	N N	0	Ü	20.9	21.9/999	٩
		And the state of t							
			34,1700						
								1	

Name & De	Name & Designation		Signature	Date		
Wong	Wai	Sing	Peter	4/12	12023	

Laboratory Staff:

Field Operator:

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
1307H	17-11-2023

Sample location	Date of measurement	Sampling time			Monitoring w	ells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Pit A	5/12/2023	08:30	Fine / Fairy	0	0	3	20.9	19.7/999	Ÿ
TILA	1 100	13:30	Fine / Rolling	0	0	D	20.9	24.1/ 999	9
		16:30	Fine/ Painy	O O	0	0	20.9	21.7/999	9
			,					/	
								//	

	Name & De	esignation	<u>1</u>	Signature	Date	
Field Operator:	Wong	Waj	Sing	Peter	5/12	12023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
13071	17-11-2023

Sample location	Date of measurement	Sampling time			Monitoring w	ells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PitA	6/12/2023	08:30	Fine/Painy	0	0	3	20.9	199/999	Ÿ
TILA	011100	13:30	Fine / Rainy	0	0	0	20.9	22.5/ 999	9
		16:30	Fine/Rainy	O	0	0	20.9	21.5 / 999	9

Name & De	signation	<u>n</u>	Signature	Date	
Wong	Was	Sing	Peter	6	11212023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
130711	17-11-2023

Sample location	Date of measurement	Sampling time			Monitoring w	ells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PitA	8/12/2023	08:30	Fine / Painy	0	0	3	20,9	19.2/999	9
liun	01.100)	13:30	Fine / Rainy	0	0	D D	20.9	24/999	9
		16:30	Fine/ Painy	<b>₽</b>	0	0	20,9	21.4/ 999	9
								/	erene Accided deliciona
								1/	

Name & Designation	Signature	<u>Date</u>
Wong Wai Sing	Peter	8/12/2023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

tes calibrated
8-7-2023
7-11-2023
-

Sample location	Date of measurement	Sampling time			Monitoring w	ells / Surface	Gas Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)		Remark Depth (m)
PitA	12/12/2023	08:30	Fine / Fainy	0	0	0	20.9	22.3/949	9
liva	11100	13:30	Fine / Rainy	0	0	O	20.9	28.7/ 999	9
		16:30	Fine/ Painy	٥	0	0	P.05	24.7/ 999	9
								1	

	Name & Designation	Signature	<u>Date</u>
Field Operator:	Wong Wai S	ing Peter	12/12/2023
Laboratory Staff:			

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

librated	Dates calib	ent used:	Sampling equipme
-2023	28-7-2		PGM-2500
-2023	17-11-7		13071-1
1	1/-1		1307H

Sample Date of Sampling Iocation measurement time									
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
PitA	13/12/2023	08:30	Fine / fairy	0	0	0	20.9	21.6/999	9
Ti L A	1711100	13:30	Fine / Roiny	0	0	0	20,9	23,2/ 999	4
		16:30	Fine/ Painy	v	0	0	20.9	22.3/ 999	9

	Name & De	esignation	1	Signature	<u>Date</u>	
Field Operator:	Wong	Was	Sing	Peter	13/	12/2023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
13071-1	17-11-2023

Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
15/142073	04130	Fine / Fains	0	0	0	20.9	23.2/999	9		
17. 10-2)			0	0	O	20.9	26.9/ 999	9		
		Fine/ Painy	₽ Q	0	0	20.9	244/999	9		
							//			
							1			
	measurement		measurement time  Weather condition  15/142023 08:30 Fine/Rainy 13:30 Fine/Rainy	measurement time  Weather condition  15/142023 08:30 Fine/Fainy 0  13:30 Fine/Rainy 0	measurement time  Weather condition  Weather condition  Weather condition  (%)  15/142023  Output  Fine / Rainy  Output  Outpu	measurement time  Weather condition  Weather condition  Weather condition  (%)  Flammable gas (methane %)  (methane %)  15/142023  13:30  Fine / Fainy  O  O  O  O	measurement         time           Weather condition         Balance gas (%)         Flammable gas (methane %)         Carbon dioxide(%)         Oxygen (%)           15/142023         08:30         Fine / Fairy         0         0         0         20.9           13:30         Fine / Rainy         0         0         0         20.9	Weather condition         Balance gas (%)         Flammable gas (methane %)         Carbon dioxide(%)         Oxygen (%)         Temp (°C) / Pressure (mbar)           15/142023         08:30         Fine / Rainy         0         0         0         20.9         23.2/949           13:30         Fine / Rainy         0         0         0         20.9         26.9/949		

Name & De	esignation	Signature	Date	
Wong	Wai Sing	Peter	15/	12/2023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM - 2500 (QAEIII)	28-7-2023
13071-1	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
FitA	16/142023	08:30	Fine/Painy	0	0	0	20.9	135/999	9	
liun	10111000)	13:30	Fine / Bring	0	0	0	20.9	239/999	9	
		16:30	Fine/ Painy	0	0	0	20.9	18.9/999	9	
								1		
		N. A. C.						1		

	Name & De	esignation	<u>n</u>	Signature	Date		
Field Operator:	Wong	Was	Sing			1	12023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

# Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
130711	17-11-2023

Sample location	Date of measurement	Sampling time			Monitoring w	itoring wells / Surface Gas Emission					
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
FitA	4/12/2023	08:30	Fine / Painy	0	0	3	20,9	9.8 / 999	Ÿ		
liun	111-10-2)	13:30	Fine / Roiny	0	0	O	20.9	12.3/999	9		
		16:30	Fine/ Painy	٥	0	0	20,9	10,9/999	9		
								/			
								//			
				The state of the s							

	Name & De	signation	1	<u>Signature</u>	Date	
Field Operator:	Wong	Waj	Sing	Seten	2(/	12 12023

Laboratory Staff:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QAEIII)	28-7-2023
130711	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
PitA	22/12/2023	08:30	Fine / Pains	0	0	3	20.9	8.6/999	ૡૻ
liun	1,100)	13:30	Fine / Rainy	0	0	O	20.9	12.3/999	9
		16:30	Fine/ Painy	٥	0	0	20.9	10.5/999	9
								/	
								1	

Name & Des	signation		Signature	Date		
Wong	Wai S	ring	Peter	22/	12	12023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O

Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM - 2500 (QAEIII)	28-7-2023
13071	17-11-2023

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Pit A	27/12/2023	08:30	Fine / Bainy	0	0	3	20.9	16.6/999	4
17071		13:30	Tine / Rainy	0	0	۵	20.9	21.8/ 999	9
		16:30	Fine/ Painy	٥	0	0	20.9	18.7/ 999	9
								1	
***									
								1	
								/	

Name & De	esignation	Signature	<u>Date</u>	
Wong	Wai Sing	Peter	27/1	12023

Laboratory Staff:

Field Operator:

Mainlaying in Tseung Kwan O Penta-Ocean - Concentric Joint Venture

#### Landfill Gas Monitoring -Field Measurement Recording Sheet

Name of site:

13/WSD/16 - Mainlaying in Tseung Kwan O

Date of measurement:

Sampling equipment used:	Dates calibrated
PGM - 2500 (QAEIII)	28-7-2023
13071-1	17-11-2023

Sample location	Date of measurement	Sampling time		Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon dioxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
PitA	28/12/2023	08130	Fine / Painy	0	0	0	20.9	18.2/999	9	
11011	11000	13:30	Fine / Roting	0	0	O	20,9	23.6/ 999	9	
		16:30	Fine/ Rainy	٥	0	0	20.9	20.1/999	9	
								1		
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								//		
								/		
								1 /		

	Name & Designation			Signature	<u>Date</u>	
Field Operator:	Wong	Wai	Sing	Peter	28/	12/2023

Laboratory Staff:





# Appendix K

Complaint Log and Regulatory Compliance Proforma





#### <u>Table K-1 Statistical Summary of Environmental Complaints</u>

Reporting Period	Environmental Complaint Statistics					
noporting reriou	Frequency	Cumulative	Complaint Nature			
1 – 31 December 2023	1	5	N/A			

#### <u>Table K-2</u> Statistical Summary of Environmental Summons

Danasting Paying	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 – 31 December 2023	0	0	N/A		

#### **Table K-3 Statistical Summary of Environmental Prosecution**

Domonting Dovied	Environmental Prosecution Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 – 31 December 2023	0	0	N/A			



# Contract No. 13/WSD/16

# Mainlaying in Tseung Kwan O

# Interim report for Complaint on 28 December 2023

(Complaint Code: 13/WSD/16\_C005)

Submitted to: EPD

Submitted by: ASCL

Date: 8 January 2024

#### **Interim Report on Environmental Complaint**

Project Title	Proposed Desalination Plant in TKO Area 137 for Contract 13/WSD/16 Mainlaying in Tseung Kwan O
Source of Complaint	Email from EPD to WSD dated on 29 December 2023
Location of Incident	Construction site at entrance of TKO Desalination Plant (TKODP)
Complaint Code	13/WSD/16_C005
Complaint description	EPD has received a complaint on 28 December 2023 concerning suspected illegal discharge of wastewater from the construction site Pit C under the project Mainlaying in Tseung Kwan O (contract no. 13/WSD/16) at entrance of TKO Desalination Plant (TKODP).
Investigation finding	Environmental Team under WSD Contract No. 13/WSD/16 received the complaint case on 29 December 2023 and carried out the complaint investigation on 2 January 2024. The location of the construction site is shown in Appendix A.
	According to the information from contractor, underground water was emerging during the formboard erecting works at 137 Pit C, and the subcontractor arranged a dewatering work without notifying contractor. After the complaint received, the dewatering work was immediately stopped.
	Site investigation at the concerned area (Pit C) was carried out by ET on 2 January 2024. All discharge and water pumping works were stopped. Contractor removed the water pipe (Appendix C). Contractor provided a photo record showing a sedimentation tank had been provided on-site before the compliant was received.
Actions taken / to be taken	The responsible contractor has been recommended to improve the dewatering works measures due to no communal storm water drain as a discharge point at 137 Pit C (e.g., soak away)
	The contractor reminded to follow the discharge license (license no. WT0032336-2018) issued by Environmental Protection Department under Water Control Ordinance. The muddy water should be treated before discharge and the water quality should fulfill the requirements of the discharge license.
	Moreover, ET will perform spot checking on the concerned area the implementation status of mitigation measures. Contractor is reminded to comply with all regulations and requirement stipulated in the EM&A Manual.

 ${\bf STATUS\ OF\ COMPLAINANT:\ *Follow-up}/Closed$ 

Prepared by: Alex Leung Certified by: Jacky Leung

Designation: Environmental Team Member Designation: Environmental Team Leader

Signature: Signature:

Date: 8 January 2024 Date: 8 January 2024

Appendix A – Site Layout of Concerned Area



 $Appendix \ B-Photo \ Records \ from \ sedimentation \ tank.$ 

Sedimentation tank was provided.



Appendix C – Photo Records for Investigation

Contractor has removed the water pipeline of the sedimentation tank.









# Appendix L

Site Inspection Proforma





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: 7/12/2013 Inspected by: ET: Alex length		W.S.	Chan				
Inspect	ion Time:	IEC:						
Weath	er							
Condi	Condition Sunny Fine Overcast Drizzle Rain Storm Hazy							
Tempe	rature 26 C Humidity High Moderate	Low						
Wind	Calm Light Breeze Strong							
		T						
0.00	General	N/A	Yes	No	Remarks			
0.00								
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?	🗀 -		Ш				
1.00	Construction Dust					_		
1.01	Are dusty materials, such as excavated materials, building debris and construction							
	materials, and exposed earth surface properly covered to prevent dust emission?							
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty							
	construction works for dust suppression?							
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?							
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?		$\overline{\Box}$	一				
1.05	Is wheel-washing provided to all vehicles leaving the site?		一	一				
1.06	Are road section near the site exit free from dusty material?	10		Ħ				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust							
	emission during vehicle movement?							
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty					$\neg$		
	materials?		Ш		Marie and the second			
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?							
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	7	<u> </u>	<u> </u>		=		
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?							
1.11	Is exposed earth properly treated within six months after the last construction activity on					$\dashv$		
	site?					$\Box$		
1.12	Does the operation of plants on site free form dark smoke emission?			П				
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?					╕		
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3					目		
	sides?		/					
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered					$\dashv$		
	areas?							
.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas			water and		$\dashv$		
	accessible by the public?	/						
1.17	Is open burning prohibited?			同		目		
						_		





		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	noise?		4		
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?				
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		/		
2.08	Are purposely-built site hoarding construction with appropriate materials provided along				
	the site boundary?			Ш	
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers?	/			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	/			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	/			
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?		/		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		/		
3.00	Water Quality				
3.01	Is effluent discharge license obtained for wastewater discharge from site?			ш	
3.02	Is effluent discharged according to the effluent discharge license?		/		
3.03	Is wastewater discharge from site properly treated prior to discharge?		/		8
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				
	remove sand/silt particles from runoff?				
3.06	Is surface runoff diverted to sedimentation facilities?		/		
3.07	Is the drainage system properly maintained?		/		
3.08	Are construction works carefully programmed to minimize soil excavation works during				
	rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of				
	soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				



# aurecon

Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks 3.12 Are exposed slope surface properly protected? 3.13 Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction? Is runoff from wheel-washing facilities avoided? 3.15 Is oil leakage or spillage prevented? Are there any measures to prevent the release of oil and grease into the storm drainage Are the oil interceptors/ grease traps properly maintained? Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams? Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank? Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains? Are sufficient chemical toilets provided on site to handle sewage from construction work Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors? Is concrete washing water properly collected and treated prior to discharge? 4.00 Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills? Is a recording system implemented to record the amount of wastes generated, recycled and Is chemical waste separated from other waste and collected by a licensed chemical waste 4.04 Are trip tickets for chemical waste disposal available for inspection? 4.05 Is chemical waste reused and recycled on site as far as practicable? 4.06 Are all containers for chemical waste properly labelled? 4.07 Is drip tray provided for chemical storage? 4.08 Is chemical waste storage area used solely for storage of chemical waste and properly 4.09 Are incompatible chemical wastes stored in different areas? 4.10 Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated? Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of 4.11 the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide? 4.12 Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?



# aurecon

Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O

		N/A	Yes	No	Remarks
4.13	Are sufficient general refuse disposal/collection points provided on site?				
4.14	Is general refuse disposed of properly and regularly?				
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?				
4.16	Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation?		/		
4.17	Are C&D wastes sorted on site?		/		
4.18	Are C&D waste disposed of properly?		/		
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?				
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?				
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?				-
4.22	Is a dumping license obtained to deliver public fill to public filling areas?		/		
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil erosion?				
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
5.05	Are damages to trees outside site boundary due construction works avoided?				
5.06	Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?				
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?				Observation (1)
5.08	Are surgery works carried out for damaged trees?				
6.00	Ecology				
6.01	Is site runoff properly treated to prevent any silly runoff?				-
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?		/		
6.04	Are construction works restricted to works area which are clearly defined?				
<b>7.00</b> 7.01	Overall  Is the EM&A properly implemented in general?				





Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:								
Observation =								
(1) THE	protection	ZOT Zone	Should	be	maintianed	properly. (Pit	·)	
								ine i
								M-5- 3
Signatur	es:		H	-				-
ET Represen	tative	Contractor's Representative	e	WSD's Representa	ntive	IEC's Representative		7
My		M		91	γ			
(Name:)	les leng)	(Name: Keh	Ma)	(Name: √	5 Chan)	(Name:	)	





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

6	on Date: 512 223 Inspected by: ET: Colo Jo Contractor: Ven Md	WSD: IEC: _	T.C.	Lau	
Weathe	Sunny Fine Overcast Drizzle Rain	Sto	orm	Hazy	
Wind	Calm Light Breeze Strong				
		N/A	Yes	No	Remarks
<b>0.00</b> 0.01	General  Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
1.00 1.01	Construction Dust  Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		$\checkmark$		
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?			$\sqrt{}$	obseration (1)
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	V			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	~			
1.05	Is wheel-washing provided to all vehicles leaving the site?	V			
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		V		
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	V			
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	Is exposed earth properly treated within six months after the last construction activity on site?		$\checkmark$		
1.12	Does the operation of plants on site free form dark smoke emission?		V		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	V			
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?	V			8.
1.17	Is open burning prohibited?				10 20





Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O Remarks Construction Noise (Airborne) 2.00 Are quiet plants adopted on site? 2.01 2.02 Are the PMEs operating on site well-maintained to minimize the generation of excessive Are plants throttled down or turned off when not in use? 2.04 Are the plants known to emit noise strongly in one direction oriented to face away from 2.05 Are moveable barriers provided to screen NSRs from plant or noisy operations? 2.06 Are silencers, mufflers and enclosures provided to plants? 2.07 Are the hoods, cover panels and inspection hatches of PMEs closed during operation? Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? Are valid noise emission label(s) affixed to all hand-held breakers operating on site? Are valid noise emission label(s) affixed to all air compressors operating on site? Are all construction noise permit(s) applied for percussive piling work? Are construction noise permit(s) applied for general construction works during restricted Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? 3.03 Is wastewater discharge from site properly treated prior to discharge? 3.04 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 Is surface runoff diverted to sedimentation facilities? Is the drainage system properly maintained? Are construction works carefully programmed to minimize soil excavation works during Are exposed soil surface protected by paving as soon as possible to reduce the potential of Are temporary access roads protected by crushed gravel? 3.11 Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?





		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?	V			
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?			П	
3.14	Is runoff from wheel-washing facilities avoided?		一	一	
3.15	Is oil leakage or spillage prevented?				
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?		V		
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		V		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?				
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		V		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		V		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		V		
3.23	Is concrete washing water properly collected and treated prior to discharge?	V			
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at public filling facilities and landfills?		$\checkmark$		
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and disposed of?			П	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?				
4.04	Are trip tickets for chemical waste disposal available for inspection?				
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?		V		
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		V		
4.09	Are incompatible chemical wastes stored in different areas?	V			
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		V		
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		V		
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		<b>/</b>		



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Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O Remarks 4.13 Are sufficient general refuse disposal/collection points provided on site? 4.14 Is general refuse disposed of properly and regularly? Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 Are C&D wastes sorted on site? 4.18 Are C&D waste disposed of properly? Are unused C&D materials or chemicals recycled or reused to reduce the quantity of Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? 4.20 Are the construction materials stored properly to minimize the potential for damage or 4.22 Is a dumping license obtained to deliver public fill to public filling areas? 5.00 Landscape and Visual 5.01 Are Is site hoarding provided? 5.02 Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? 5.03 Is construction light oriented away from the sensitive receivers? 5.04 Is grass hydroseeding provided to slopes as soon as the completion of works? 5.05 Are damages to trees outside site boundary due construction works avoided? 5.06 Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? 5.07 Are the retained and transplanted tree(s) properly protected and in good conditions? Are surgery works carried out for damaged trees? 6.00 Ecology 6.01 Is site runoff properly treated to prevent any silly runoff? 6.02 Are silt trap installed and well-maintained? 6.03 Are stockpiles properly covered to avoid generating silty runoff? Are construction works restricted to works area which are clearly defined? 7.00 Overall 7.01 Is the EM&A properly implemented in general?





Contract No.: 15/ WSD/10 Wanniaying in 1setting Kwan O
Remark / Observation(s) / Recommendation and Non-compliance(s) of Weekly Site Inspection:
Observation 1: Stagnant water was observed at Creative School
Remindar: The Contractor was reminded to properly dispose the general refuse on-site.  at Creative School
Signatures:
ET Contractor's WSD's IEC's Representative Representative Representative
AL MILLERY
(Name: Co (o Ip) (Name: Ken Ma) (Name: T. C Lan) (Name: )





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

	ion Date: 20/12/2024 Inspected by: ET: Alex length Contractor: 14-00 pm	WSD: IEC:	Hr.Chan (	hung Hang han	
Weath					
Condit		Sto	orm _	Hazy	
Tempe	rature // C Humidity High Moderate	Lo	w		
Wind	Calm Light Breeze Strong				
		N/A	Yes	No	Remarks
0.00	General				
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction materials, and exposed earth surface properly covered to prevent dust emission?		/		
1.02					
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty construction works for dust suppression?	/			
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	/			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	/			
1.05	Is wheel-washing provided to all vehicles leaving the site?	/			
1.06	Are road section near the site exit free from dusty material?				
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehicle movement?		П		
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	/			
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?			Ш	
1.11	Is exposed earth properly treated within six months after the last construction activity on site?		/		
1.12	Does the operation of plants on site free form dark smoke emission?		/		
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?				
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?				
1.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?		П		
1.17	Is open burning prohibited?			一	



backfilled in short sections after excavation?



Member of the Aurecon Group Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O No Remarks Construction Noise (Airborne) 2.00 2.01 Are quiet plants adopted on site? 2.02 Are the PMEs operating on site well-maintained to minimize the generation of excessive 2.03 Are plants throttled down or turned off when not in use? 2.04 Are the plants known to emit noise strongly in one direction oriented to face away from 2.05 Are moveable barriers provided to screen NSRs from plant or noisy operations? 2.06 Are silencers, mufflers and enclosures provided to plants? 2.07 Are the hoods, cover panels and inspection hatches of PMEs closed during operation? 2.08 Are purposely-built site hoarding construction with appropriate materials provided along the site boundary? 2.09 Are noisy operation properly scheduled to minimize exposure and cumulative impacts to nearby sensitive receivers? Are valid noise emission label(s) affixed to all hand-held breakers operating on site? 2.11 Are valid noise emission label(s) affixed to all air compressors operating on site? Are all construction noise permit(s) applied for percussive piling work? 2.13 Are construction noise permit(s) applied for general construction works during restricted 2.14 Are valid construction noise permit(s) displayed at all vehicular exits? 3.00 Water Quality 3.01 Is effluent discharge license obtained for wastewater discharge from site? 3.02 Is effluent discharged according to the effluent discharge license? 3.03 Is wastewater discharge from site properly treated prior to discharge? 3.04 Are perimeter channels provided to intercept storm runoff from outside the site? 3.05 Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff? 3.06 Is surface runoff diverted to sedimentation facilities? 3.07 Is the drainage system properly maintained? 3.08 Are construction works carefully programmed to minimize soil excavation works during rainy seasons? 3.09 Are exposed soil surface protected by paving as soon as possible to reduce the potential of 3.10 Are temporary access roads protected by crushed gravel? 3.11 Is trench excavation avoided in the wet season as far as practicable, or if necessary,





	Contract No.: 15/WSD/16 Walniaying in 18	cung Kv	van O		
		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				
3.14	Is runoff from wheel-washing facilities avoided?			一	
3.15	Is oil leakage or spillage prevented?			H	
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage				
2.17	system?				
3.17	Are the oil interceptors/ grease traps properly maintained?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within bunds of capacity equal to 110% of the storage capacity of the largest tank?		/		
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from the sensitive watercourse and stormwater drains?		/		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work force?		/		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by				
	the licensed contractors?		/		
3.23	Is concrete washing water properly collected and treated prior to discharge?	1			
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at				
	public filling facilities and landfills?		/		
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and				
	disposed of?			Ш	
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste collector?	<u></u>			
4.04	Are trip tickets for chemical waste disposal available for inspection?	/			
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?	1			<u> </u>
4.07	Is drip tray provided for chemical storage?		1		
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		/		
1.55	Control of the Contro				
4.09	Are incompatible chemical wastes stored in different areas?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?		/		
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of			1 1 1 X	1 10 10 17 2
	the largest container or of 20% by volume of the chemical waste stored in that area,				
	whichever is the greatest, provide?	Ш		Ш	
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?				



6.04

**7.00** 7.01

Are construction works restricted to works area which are clearly defined?

Is the EM&A properly implemented in general?

### aurecon

Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O Remarks 4.13 Are sufficient general refuse disposal/collection points provided on site? 4.14 Is general refuse disposed of properly and regularly? 4.15 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 Are C&D wastes sorted on site? 4.18 Are C&D waste disposed of properly? 4.19 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of 4.20 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? 4.21 Are the construction materials stored properly to minimize the potential for damage or 4.22 Is a dumping license obtained to deliver public fill to public filling areas? 5.00 Landscape and Visual 5.01 Are Is site hoarding provided? 5.02 Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? 5.03 Is construction light oriented away from the sensitive receivers? 5.04 Is grass hydroseeding provided to slopes as soon as the completion of works? 5.05 Are damages to trees outside site boundary due construction works avoided? 5.06 Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? 5.07 Are the retained and transplanted tree(s) properly protected and in good conditions? 5.08 Are surgery works carried out for damaged trees? Ecology 6.00 6.01 Is site runoff properly treated to prevent any silly runoff? 6.02 Are silt trap installed and well-maintained? 6.03 Are stockpiles properly covered to avoid generating silty runoff?





Re	mark / Observation	on(s) / Recommendation a	and Non-compliance	e(s) of Weekly Site I	nspection:		
_	O O	head breaker, should	1 - 1 - 1	<b>.</b>	shek	Kok Read	
(	1) Kock	Dieaber, should	be placed o	on Tarpualin	sheet, ( HER		
							- 1
_	Signatures:						
	ET	Contractor's	s W	'SD's	IEC's		
	Representativ	ve Representa		epresentative	Representati	ve	
	AB	Quu		47	M		17 110
	(Name: Alex	leung) (Name: C.	elvin Chit (N	lame:	All (Name: Alex	. cha	





#### WEEKLY ENVIRONMENTAL INSPECTION CHECKLIST

Inspect	ion Date: 28/12/2023 Inspected by: ET: Alex Count	WSD:	5.W-C	han	
Inspect	ion Time: P: 30 Am Contractor: Ken MA	IEC:			
Weath	ner .		700		
Condi	Sunny Fine Overcast Drizzle Rain	Sto	orm	Hazy	
Tempe	erature 2 Humidity High Moderate	Lo	w		
Wind	Calm Light Breeze Strong				
		N/A	Yes	No	Remarks
0.00					
0.01	Is the current Environmental Permit displayed conspicuously at all vehicle site entrances/exits for public's information at any time?				
1.00	Construction Dust				
1.01	Are dusty materials, such as excavated materials, building debris and construction				
	materials, and exposed earth surface properly covered to prevent dust emission?				
1.02	Are screenings, enclosures, water spraying, or vacuum cleaning devices provided to dusty				
	construction works for dust suppression?				
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?	/			
1.04	Are wheel-washing facilities with high-pressure water jets provided at all sites exits?	/			
1.05	Is wheel-washing provided to all vehicles leaving the site?	/			
1.06	Are road section near the site exit free from dusty material?		/		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust				
	emission during vehicle movement?			$\square$	- <u>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty				
	materials?				
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?				
1.10	Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of				
	boulders, poles, pillars sprayed with water to maintain the entire surface wet?				
1.11	Is exposed earth properly treated within six months after the last construction activity on site?				
1.12	Does the operation of plants on site free form dark smoke emission?				
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?			一	
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3	<u> </u>			
1.15	sides?				
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in sheltered areas?	/			
.16	Are hoardings of at least 2.4m high provided along the site boundary adjoining areas				
	accessible by the public?	/			- 12 2
.17	Is open burning prohibited?				
_					





	Contract No.: 13/ WSD/10 Walmaying in 180	cuilg ixv	van O		
		N/A	Yes	No	Remarks
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				-
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive noise?		/		
2.03	Are plants throttled down or turned off when not in use?				
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from				
	NSRs?		Ш	Ш	
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				
2.06	Are silencers, mufflers and enclosures provided to plants?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?				
2.08	Are purposely-built site hoarding construction with appropriate materials provided along the site boundary?				
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts to				
	nearby sensitive receivers?	/			
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?				
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?				
2.12	Are all construction noise permit(s) applied for percussive piling work?				
2.13	Are construction noise permit(s) applied for general construction works during restricted hours?		/		
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?		/		
3.00	Water Quality		一	一	
3.01	Is effluent discharge license obtained for wastewater discharge from site?			Ш	
3.02	Is effluent discharged according to the effluent discharge license?		/		
3.03	Is wastewater discharge from site properly treated prior to discharge?				
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to	I M	<b>M</b>		
	remove sand/silt particles from runoff?			Ш	
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works during			П	
	rainy seasons?				
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?				
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Is trench excavation avoided in the wet season as far as practicable, or if necessary,				
	backfilled in short sections after excavation?				





	Contract No.: 15/WSD/16 Waimaying in 18		van O		
		N/A	Yes	No	Remarks
3.12	Are exposed slope surface properly protected?				
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric				
	during construction?			Ш	
3.14	Is runoff from wheel-washing facilities avoided?	/			
3.15	Is oil leakage or spillage prevented?		/		
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?				
3.17	Are the oil interceptors/ grease traps properly maintained?			百	
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to				
	avoid them entering the streams?	/			
3.19	Are all fuel tanks and storage areas provided with locks and be sited on sealed areas, within				
	bunds of capacity equal to 110% of the storage capacity of the largest tank?		/	Ш	
3.20	Are tanks, containers, storage area bunded and the locations locked as far as possible from			$\overline{}$	
	the sensitive watercourse and stormwater drains?	Ш		Ш	
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction work				
1	force?				
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by		$\overline{}$		
- 1	the licensed contractors?		/		4. <u>- 2. 1. may 2. 44</u>
3.23	Is concrete washing water properly collected and treated prior to discharge?				
4.00	Waste Management				
4.01	Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at			11.5	
	public filling facilities and landfills?				
4.02	Is a recording system implemented to record the amount of wastes generated, recycled and				
	disposed of?		/		
4.03	Is chemical waste separated from other waste and collected by a licensed chemical waste				
	collector?		Ш	Ш	
4.04	Are trip tickets for chemical waste disposal available for inspection?	/			
4.05	Is chemical waste reused and recycled on site as far as practicable?				
4.06	Are all containers for chemical waste properly labelled?				
4.07	Is drip tray provided for chemical storage?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly		[7		
	labelled?			Ш	
4.09	Are incompatible chemical wastes stored in different areas?				
4.10	Is the chemical waste storage area enclosed on at least 3 sides and adequately ventilated?				
4.11	Is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of				
	the largest container or of 20% by volume of the chemical waste stored in that area,				
	whichever is the greatest, provide?		/		
4.12	Is a routine cleaning and maintenance programme implemented for drainage systems,				
	sump pits, and oil interceptors?				6



6.02

6.03

6.04

**7.00** 7.01

Are silt trap installed and well-maintained?

Is the EM&A properly implemented in general?

Are stockpiles properly covered to avoid generating silty runoff?

Are construction works restricted to works area which are clearly defined?

### aurecon

Contract No.: 13/WSD/16 Mainlaying in Tseung Kwan O Remarks 4.13 Are sufficient general refuse disposal/collection points provided on site? 4.14 Is general refuse disposed of properly and regularly? 4.15 Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste? 4.16 Are individual collectors for aluminum cans, plastic bottles and packaging material and office paper provided to encourage waste segregation? 4.17 Are C&D wastes sorted on site? 4.18 Are C&D waste disposed of properly? 4.19 Are unused C&D materials or chemicals recycled or reused to reduce the quantity of 4.20 Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site? 4.21 Are the construction materials stored properly to minimize the potential for damage or 4.22 Is a dumping license obtained to deliver public fill to public filling areas? 5.00 Landscape and Visual 5.01 Are Is site hoarding provided? 5.02 Are vegetation disturbance minimized or soil protected to reduce potential soil erosion? 5.03 Is construction light oriented away from the sensitive receivers? 5.04 Is grass hydroseeding provided to slopes as soon as the completion of works? 5.05 Are damages to trees outside site boundary due construction works avoided? 5.06 Are excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees? 5.07 Are the retained and transplanted tree(s) properly protected and in good conditions? 5.08 Are surgery works carried out for damaged trees? 6.01 Is site runoff properly treated to prevent any silly runoff?





Remark / Observation(s) / Red	commendation and Non-comp	liance(s) of Weekly Site Inspe	ection:	
Observation =				
MIC				
Reminder: (1) Contractor was	reminded to	store the chem	rical containor propi	erly,
Signatures:				
ET Representative	Contractor's Representative	WSD's Representative	IEC's Representative	
ACY	16	54	/	
(Name: De leng)	(Name: Keh Ma)	(Name: W.S. Chan)	(Name: )	





### Appendix M

# Proactive Environmental Protection Proforma





#### **Proactive Environmental Protection for the Next Reporting Month**

Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1- 31 December 2023	- Backfilling of the trench - Work fronts for pipe jacking	- Construction dust - Noise generation; - Construction waste - Impact of water quality - Ecology	<ul> <li>Dust suppression by regular wetting and water spraying</li> <li>Reduction of noise from equipment and machinery on-site</li> <li>Sorting and storage of general refuse and construction waste</li> <li>Chemical shall be stored properly with drip tray.</li> <li>Treatment of water with water treatment facilities before discharge.</li> <li>Rainwater pumped from trench should be discharged via waster water treatment facilities.</li> <li>Retained tree shall be carefully protected and tree protect zone should be established.</li> </ul>





### Appendix N

Impact Monitoring Schedule of Next Reporting Month

## Contract No. 13/WSD/16 Mainlaying in Tseung Kwon O Tentative Environmental Monitoring Schedule (January 2024)

Sun	Mon		Wed	Thu	Fri	Sat
	1	2	3	4	Impact Noise Monitoring	6
				Impact Noise Monitoring		13
			Impact Noise Monitoring			20
		Impact Noise Monitoring		25	26	27
	Impact Noise Monitoring	30	31			

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