

Water Supplies Department New Works Branch **Construction Division** 11 Tai Yip Lane Kowloon Bay Kowloon Hong Kong

Your reference:

Our reference: HKWSD201/50/107322 Date: 18 May 2021

Attention: Mr Y M Chan

BY POST

Dear Sirs

Ouotation No.: WO/17/A071 Independent Environmental Checker for Water Supplies Department - Proposed Desalination Plant in TKO Area 137 for Contract No. 13/WSD/16 Verification of Monthly EM&A Report No.33

We refer to email of 17 May 2021 attaching Monthly EM&A Report No.33 for the captioned project prepared by the ET.

We have no comment and hereby verify the Monthly EM&A Report No.33 in accordance with Clause 3.5 of the Environmental Permit no. EP-503/2015/A.

Should you have any queries regarding the above, please do not hesitate to contact the undersigned or our Mr Louis Kwan 2618 2831.

Yours faithfully ANEWR CONSULTING LIMITED

James Choi Independent Environmental Checker

CPSJ/KSYL/CYYR/lsmt







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### Contract No. 13/WSD/16

### Mainlaying in Tseung Kwan O

# Monthly EM&A Report No. 33 (Period from 1 to 30 April 2021)

May 2021 (Rev. 0)

	Prepared by:	Certified by:
Name	Karen Cheung	Jacky Leung
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Date:	14/05/2021	14/05/2021



### **Revision History**

0	1 <sup>st</sup> Submission	14 May 2021
Rev.	DESCRIPTION OF MODIFICATION	DATE



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### **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 33<sup>rd</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 April 2021 to 30 April 2021.
- 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	Location	Works Conducted in the reporting month
Portion H of the	TKO 137 Fill Bank Desalination Plant & SENTX area	Hydrostatic pressure testing for completed MS1200 pipeline section.
Project Site	TKO 137 Pit A	Pipe Jacking was completed.
	TKO 137 Pit B	• Pipe Jacking by TBM was conducted.
	Wan Po Rd – Workfront 1	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>GI works were completed for Pit 1.</li> </ul>
	Wan Po Rd – Workfront 2	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>GI works were completed for Pit 2.</li> </ul>
Portion J of the Project Site	Wan Po Rd – Workfront 3	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Workfront 4	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Pit A	<ul> <li>Grouting works for trenchless pit was in-progress,</li> <li>Pit excavation and ELS works were in-progress.</li> </ul>



Location	Location	Works Conducted in the reporting month
	Wan Po Rd – Pit B	• Drilling and re-grouting works were conducted.
	Landfill Stage 1 – Area A	Construction works for 900HSV chamber were conducted.
	Landfill Stage 1 – Area B	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Cycle Track – Workfront 1	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Cycle Track – Workfront 2	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Velodrome – Pit K	<ul> <li>Trenchless hand-shield works were conducted.</li> </ul>
	Velodrome – Pit J1A	<ul> <li>Sheetpile driving works for pit construction were conducted.</li> </ul>
	Velodrome – Pit M	Pipe jacking works were conducted.
	Velodrome – Pit O	Remedial works for TBM sleeve pipe were conducted.
	Mau Wu Tsai – Workfront 1	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	Mau Wu Tsai – Workfront 2	• Trench excavation and pipe laying works were conducted.
	Po Lam Road (D2)	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	Po Lam Road (A0)	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	TKO Primary Service Reservoir	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>

A6. The major environmental impacts brought by the above construction works include:

- Construction dust and noise generation from saw cutting of concrete surface, mainlaying of pipes, sheet pilling, TBM break through, excavation and drilling works and ELS works
- Waste generation from the construction activities
- 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 saw cutting of concrete surface, mainlaying of pipes, sheet pilling, TBM break through, excavation and drilling works and ELS works
  - Reduction of noise from equipment and machinery on-site
  - Sorting and storage of general refuse and construction waste
  - Treatment of wastewater through water treatment facilities before discharge



### Summary of Exceedance & Investigation & Follow-up

- A8. Noise monitoring was conducted in the reporting month for NSR4 Creative Secondary School on 8, 15, 21 and 28 April 2021 as construction works were conducted within 300m to the noise sensitive receiver. No projectrelated exceedance of the Action and Limit Level was recorded during the reporting period.
- A9. NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28<sup>th</sup> April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in Appendix O.

### **Complaint Handling and Prosecution**

- A10. No project-related environmental complaint was received during the reporting period.
- A11. Neither notifications of summons nor prosecution was received for the Project 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 May 2021 (the next reporting month) for the Project will include the followings:

Location	Location	Forecast Works in Next Reporting Month
Portion H of the Project Site	TKO 137 Pit B	<ul> <li>Pipe jacking works by TBM will be continued.</li> </ul>
	Wan Po Rd – Workfront 1	Trench excavation and pipe laying will be conducted.
	Wan Po Rd – Workfront 2	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
Portion J of the Project Site	Wan Po Rd – Workfront 3	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Wan Po Rd – Workfront 4	<ul> <li>Trench excavation and mainlaying works will be conducted.</li> </ul>
	Wan Po Rd – Pit A	<ul> <li>Excavation and ELS works will be conducted.</li> <li>Grouting of trenchless pit will be conducted.</li> </ul>
	Wan Po Rd – Pit B	Pit excavation works will be commenced.



Location	Location	Forecast Works in Next Reporting Month
	Landfill Stage 1 – Area A	900HSV Chamber construction works will be conducted.
	Landfill Stage 1 – Area B	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Cycle Track – Workfront 1	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Cycle Track – Workfront 2	<ul> <li>Trench excavation and pipe laying works will be conducted.</li> </ul>
	Velodrome – Pit K	<ul> <li>Trenchless hand-shield works will be conducted.</li> </ul>
	Velodrome – Pit J1A	<ul> <li>Construction of jacking pit will be continued.</li> </ul>
	Velodrome – Pit M	Pipe jacking works will be continued.
	Velodrome – Pit O	Construction of rescue pit for TBM will be conducted.
	Mau Wu Tsai – Workfront 1	<ul> <li>Trench excavation and pipe mainlaying works will be conducted.</li> </ul>
	Mau Wu Tsai – Workfront 2	<ul> <li>Trench excavation and pipe mainlaying works will be conducted.</li> </ul>
	Po Lam Road (D2)	<ul> <li>Trench excavation and pipe mainlaying works will be conducted.</li> </ul>
	Po Lam Road (A0)	<ul> <li>Trench excavation and pipe mainlaying works will be conducted.</li> </ul>
	TKO Primary Service Reservoir	• Trench excavation and pipe laying works will be conducted.

- A14. The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, sheet pipe pilling, TBM break through, excavation works and ELS works.
  - Waste generation from construction activities
  - 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 saw cutting of concrete surface, mainlaying of pipes, sheet piling work 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
  - 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 fresh water 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 10km long 1200mm diameter fresh water 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 33<sup>rd</sup> Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 April 2021 to 30 April 2021.

### 1.3 Project Organization

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



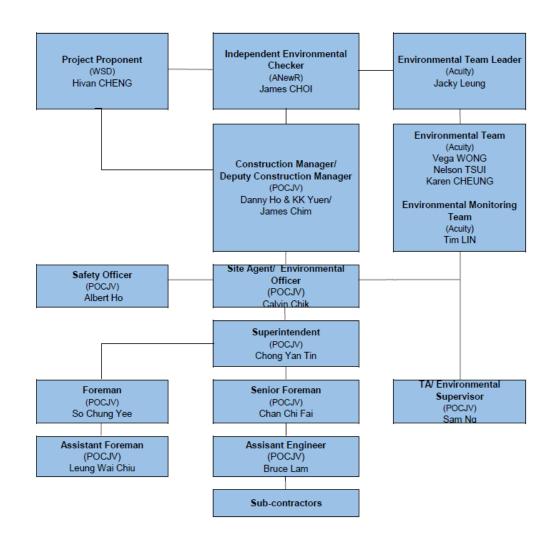


Figure 1.1 Project Organization Chart

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

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	Location	Works Conducted in the reporting month
Portion H of the	TKO 137 Fill Bank Desalination Plant & SENTX area	Hydrostatic pressure testing for completed MS1200 pipeline section.
Project Site	TKO 137 Pit A	Pipe Jacking was completed.
	TKO 137 Pit B	• Pipe Jacking by TBM was conducted.
	Wan Po Rd – Workfront 1	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>GI works were completed for Pit 1.</li> </ul>
	Wan Po Rd – Workfront 2	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> <li>GI works were completed for Pit 2.</li> </ul>
	Wan Po Rd – Workfront 3	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Workfront 4	<ul> <li>Pipe trench excavation and pipe laying were in-progress.</li> </ul>
	Wan Po Rd – Pit A	<ul> <li>Grouting works for trenchless pit was in-progress,</li> <li>Pit excavation and ELS works were in-progress.</li> </ul>
	Wan Po Rd – Pit B	<ul> <li>Drilling and re-grouting works were conducted.</li> </ul>
Portion J of the Project Site	Landfill Stage 1 – Area A	Construction works for 900HSV chamber were conducted.
	Landfill Stage 1 – Area B	Trench excavation and pipe laying were in-progress.
	Cycle Track – Workfront 1	Trench excavation and pipe laying were in-progress.
	Cycle Track – Workfront 2	<ul> <li>Trench excavation and pipe laying were in-progress.</li> </ul>
	Velodrome – Pit K	Trenchless hand-shield works were conducted.
	Velodrome – Pit J1A	Sheetpile driving works for pit construction were conducted.
	Velodrome – Pit M	Pipe jacking works were conducted.
	Velodrome – Pit O	Remedial works for TBM sleeve pipe were conducted.
	Mau Wu Tsai – Workfront 1	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>



Location	Location	Works Conducted in the reporting month
	Mau Wu Tsai – Workfront 2	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	Po Lam Road (D2)	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	Po Lam Road (A0)	<ul> <li>Trench excavation and pipe laying works were conducted.</li> </ul>
	TKO Primary Service Reservoir	• Trench excavation and pipe laying works were conducted.

### 1.5 Summary of Environmental Status

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 Valid Environmental Licence, Notification,Permit and Documentations

Permit/ Licences/ Notification	Reference	Validity Period	Remarks
Variation of Environmental Permit	EP no.: EP-503/2015/A	Throughout the Contract	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation (Form NA)	Ref no.: 423775	Throughout the Contract	-
Chemical Waste Producer Registration	WPN: 5213-839-P3287-01	Throughout the Contract	-
Billing Account for Disposal of Construction Waste	A/C no.: 7029491	Throughout the Contract	-
Water Discharge Licence	WT00032336-2018	Until 31 Dec 2023	-
Construction Noise Permit (Wan Po Road, Wan O Road and Chun Yat Street)	GW-RE0277-21	Until 30 Sep 2021	-
Construction Noise Permit (Hong Kong Velodrome)	GW-RE0961-20	Until 17 May 2021	-

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	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			
Waste Management				
Mitigation Measures in Waste Monitoring Plan	On-going			
Landfill Gas				
Impact Monitoring	On-going			
Environmental Audit				
Site Inspection	On-going			

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.

In accordance with the EM&A Manual, baseline noise level at the noise monitoring stations were established as presented in the Baseline Monitoring Report. Impact noise monitoring will be conducted once per week in the form of 30-minute measurements Leq, L10 and L90 levels recorded at each monitoring station between 0700 and 1900 on normal weekdays.

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 projectrelated 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 8, 15, 21 and 28 April 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.

NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28<sup>th</sup> April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in **Appendix O**.

### 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 would follow the requirements as stipulated in the valid CNPs if works have to be conducted during 1900-0700 in all days or any time on Sundays or general holidays.

Construction noise level was measured in terms of the A-weighted equivalent continuous sound pressure level (LAeq). Leq <sub>30min</sub> 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 Tim	e Frequency	and Duration
Table 2. I Noise Monitoring	Farameters, min	e, riequency	y and Duration

Time	Frequency	Duration	Parameters
Daytime: 0700-1900	Once per week	Continuously in L <sub>eq 5min</sub> /L <sub>eq 30min</sub> (average of 6 consecutive L <sub>eq</sub> <sub>5min</sub> )	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.

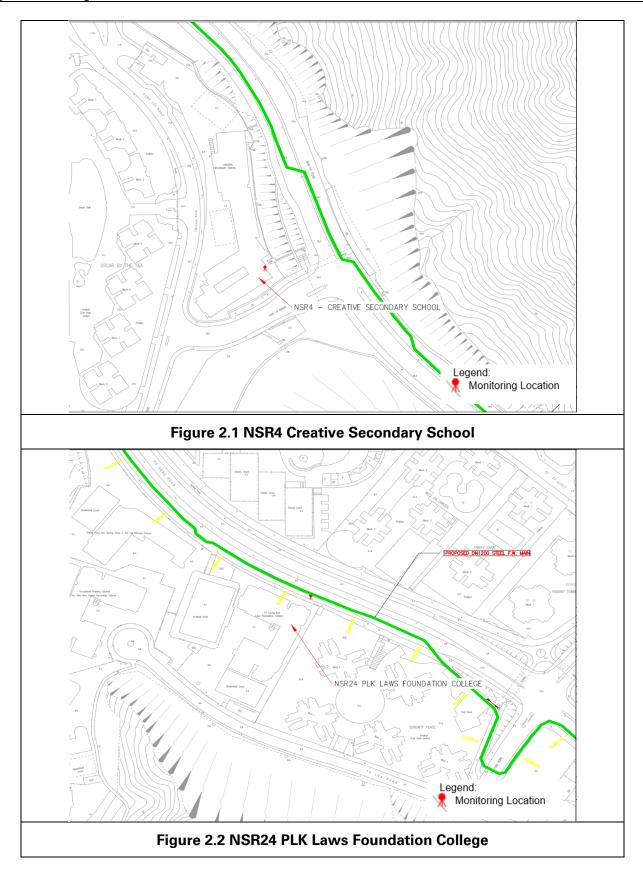
According to the environmental findings detailed in the EIA report and Baseline Monitoring Report, the designated locations for the construction noise monitoring are listed in **Table 2.2** below.

### Table 2.2 Noise Monitoring Location

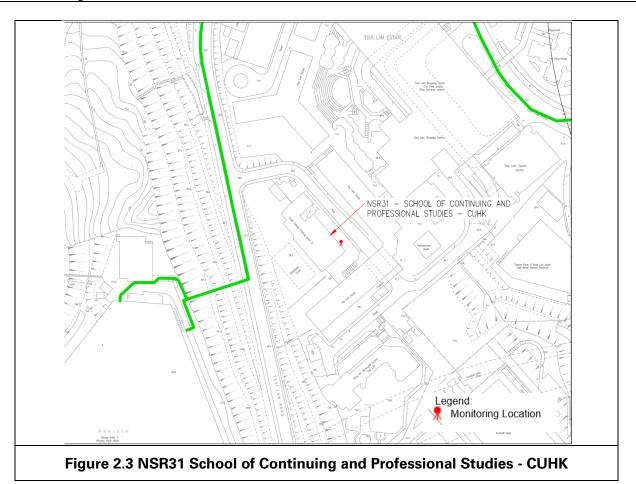
NSR ID	Noise Sensitive Receivers	Monitoring Location	Position
NSR 4	Creative Secondary School	Roof Floor	1 m from facade
NSR 24	PLK Laws Foundation College	Pedestrian Road on Ground Floor	Free-field
NSR 31	School of Continuing and Professional Studies - CUHK	Roof Floor	1 m from facade

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 were 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 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 would be checked with a portable wind speed meter capable of measuring the wind speed in m/s.



Table 2.3 Impact Noise Monitoring Equipment
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Equipment	Brand and Model	Serial Number	Date of Calibration	Calibration Certificate Expiry Date	Detection Limit
Sound Level Meter	NTi XL2	A2A- 13663-E0	09/09/2020	08/09/2021	30-130 dB(A)
Sound Level Meter Calibrator	Pulsar 105	63705	06/08/2020	05/08/2021	Nil
Pocket Wind Meter Anemometer	Kestrel 1000 Wind Meter	Nil	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 weekdaysuk	When one documented complaint is received from any one of the noise sensitive receivers	<ul> <li>70 dB(A) for school and</li> <li>65 dB(A) during examination period</li> </ul>		
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 conducted in the reporting month for NSR4 – Creative Secondary School on 8, 15, 21 and 28 April 2021. Detailed monitoring results are presented in **Appendix G**.

NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28<sup>th</sup> April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in **Appendix O**.

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



### **3.** WASTE MANAGEMENT

3.1 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 the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 3.1. Details of cumulative waste management data are presented as a waste flow table in Appendix H.

	Quantity					
			Non-inert C&D Materials			
Reporting period	Inert C&D Materials (in	Chemical Waste (in '000kg)	Others, e.g. General Refuse disposed at	Recycled materials		3
	'000m3)	(iii ocokg)	Landfill (in '000m3)	Paper/card board (in '000kg)	Plastics (in '000kg)	Metals (in '000kg)
April-21	2.338	0.000	0.008	0.045	0.000	0.000

#### Table 3.1 Quantities of waste generated from the Project



### 4. LANDFILL GAS MONITORING

### 4.1 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.

### 4.2 Monitoring Location

Monitoring of oxygen, methane, carbon dioxide and barometric pressure was performed for excavations at 1m depth or more within the consultation Zone. In this reporting period, 660 times of monitoring was recorded.

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

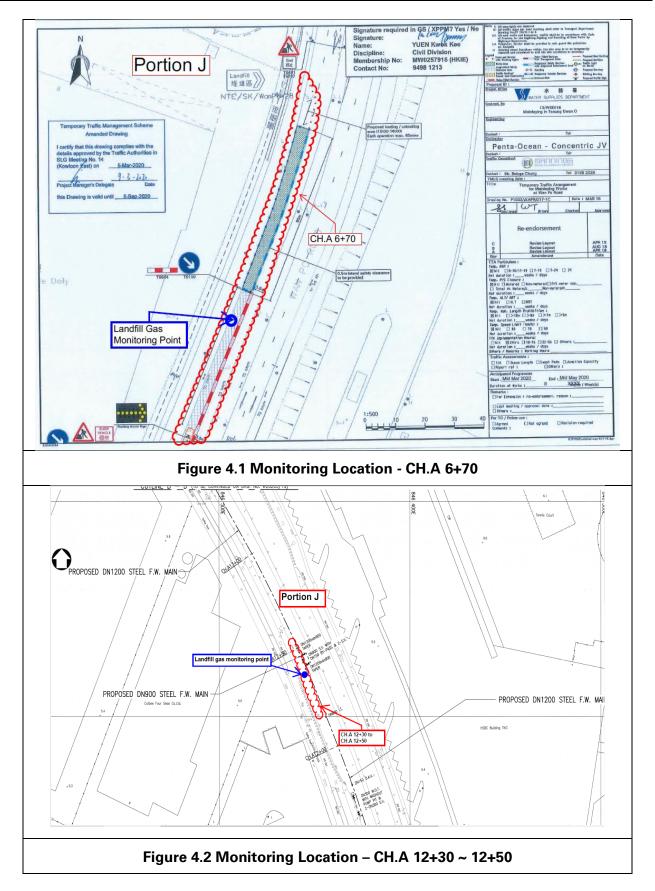
- At the ground surface before excavation commences;
- Immediately before any worker enters the excavation;
- At the beginning of each working day for the entire period when the excavation remains open; and
- Periodically through the working day whilst workers are in the excavation.

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

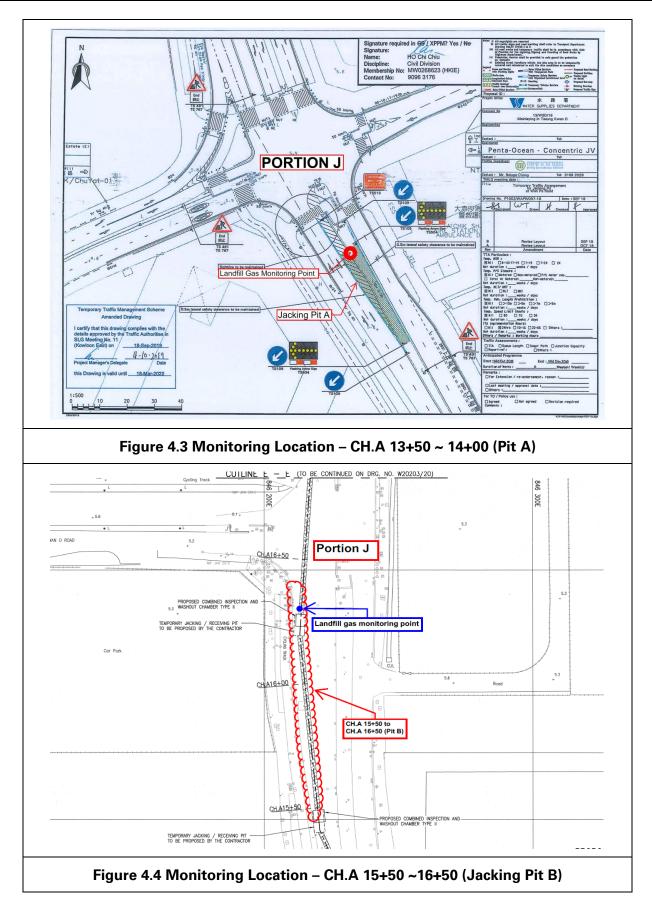
- Directly after the excavation has been completed; and
- Periodically whilst the excavation remains open.

The area required to be monitored for landfill gas in the reporting period are shown in **Figure 4.1** to **Figure 4.20**.

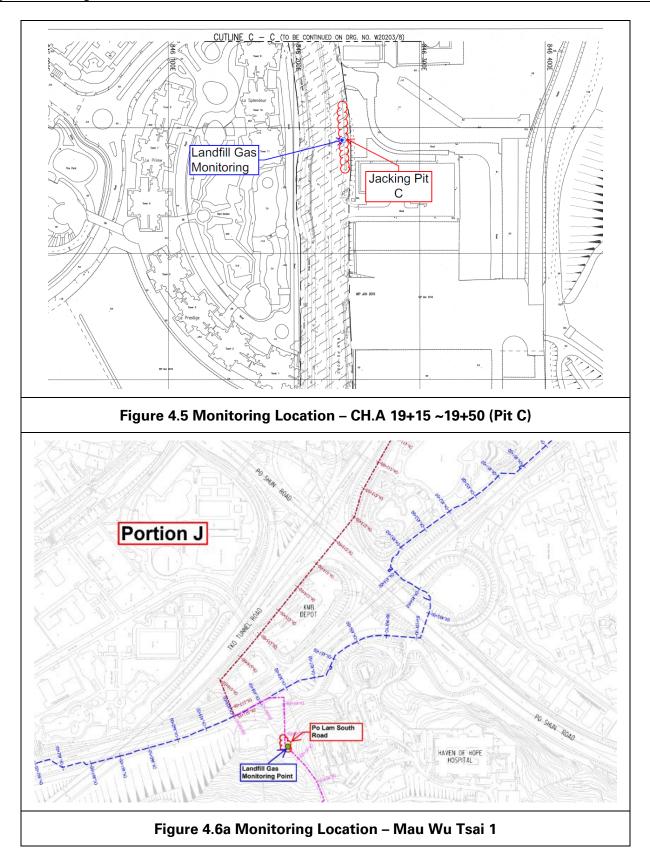




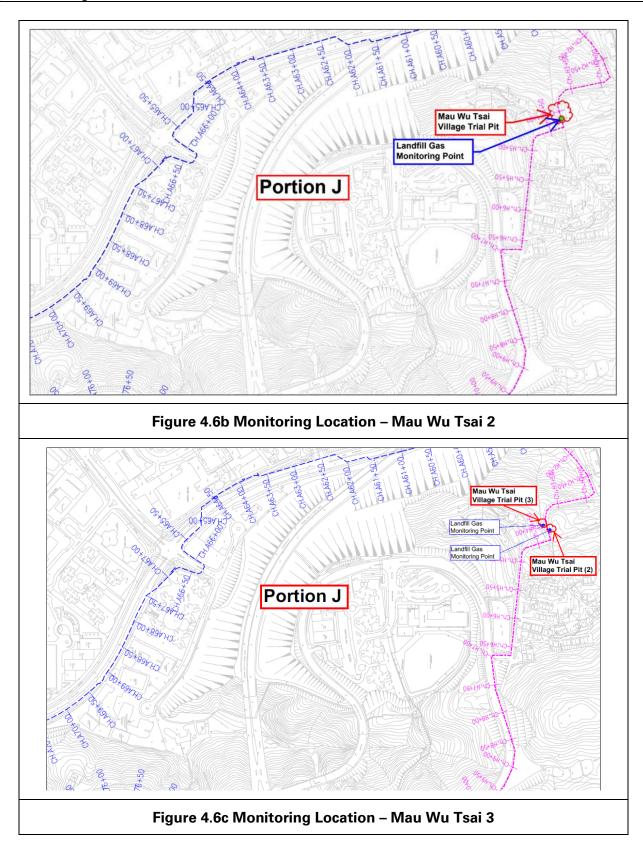














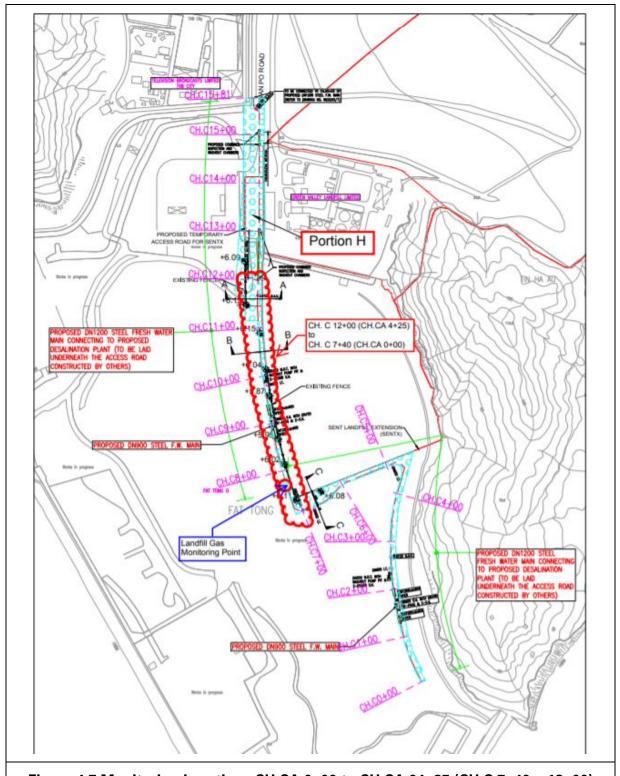
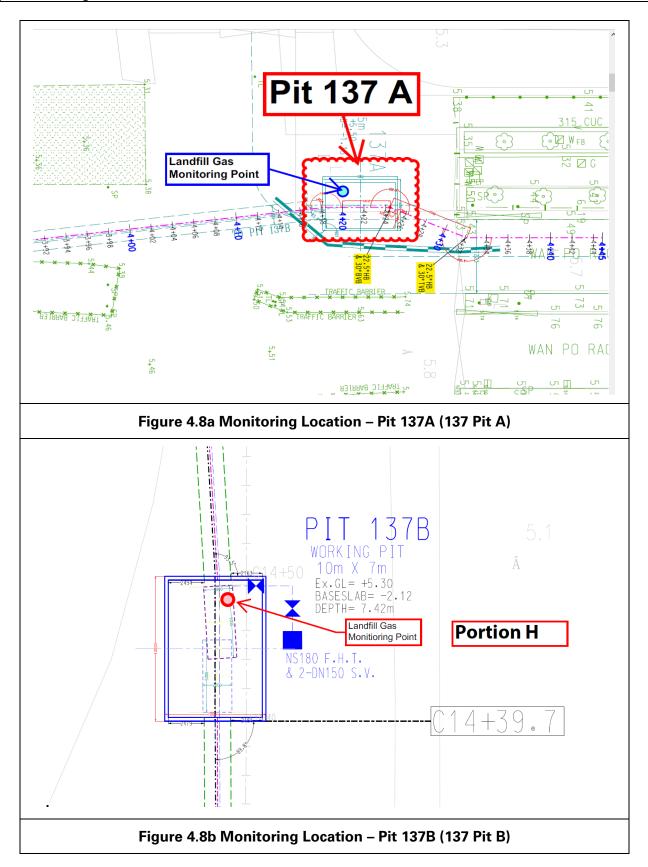
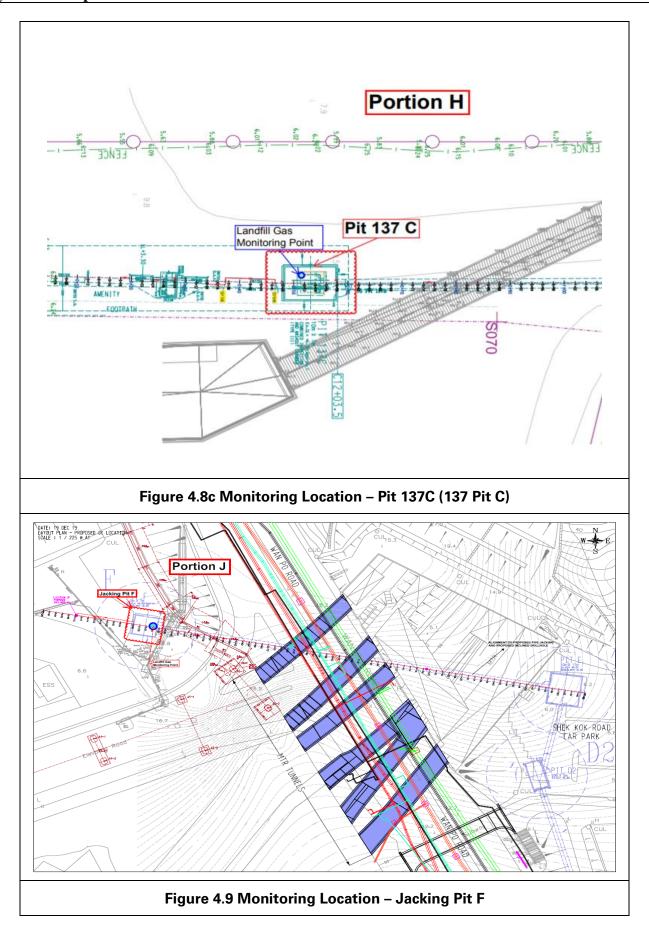


Figure 4.7 Monitoring Location -CH.CA 0+00 to CH.CA 04+25 (CH.C 7+40 ~ 12+00)

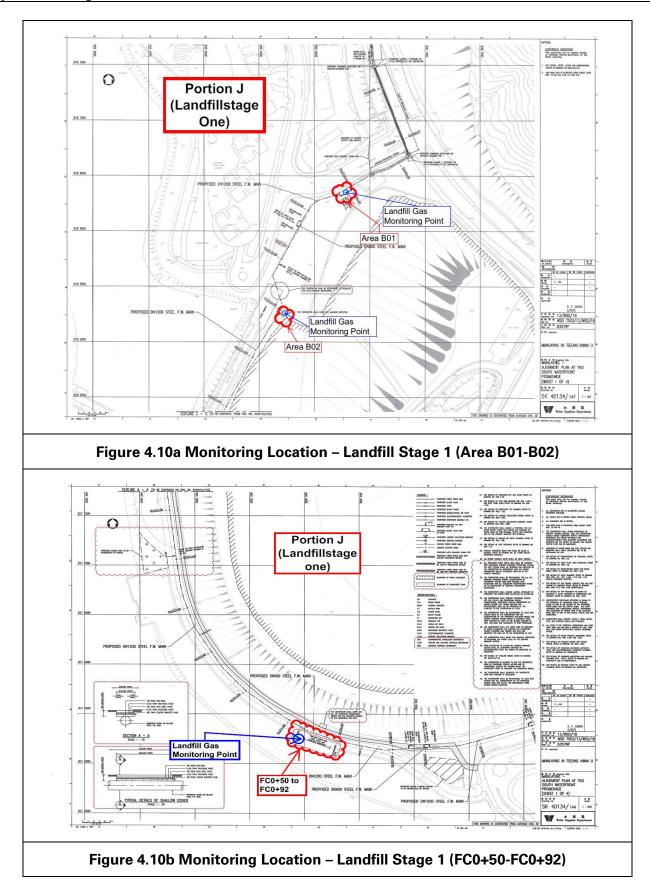




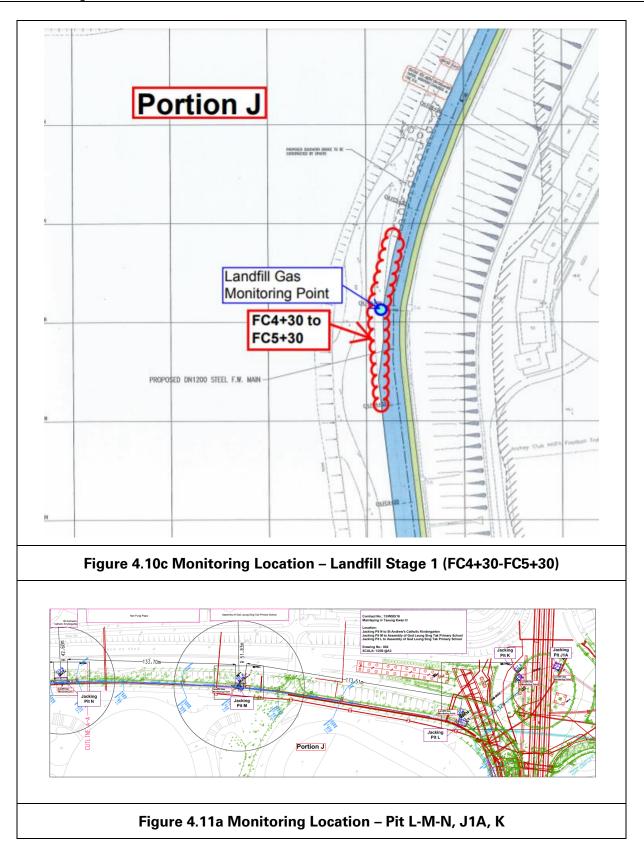




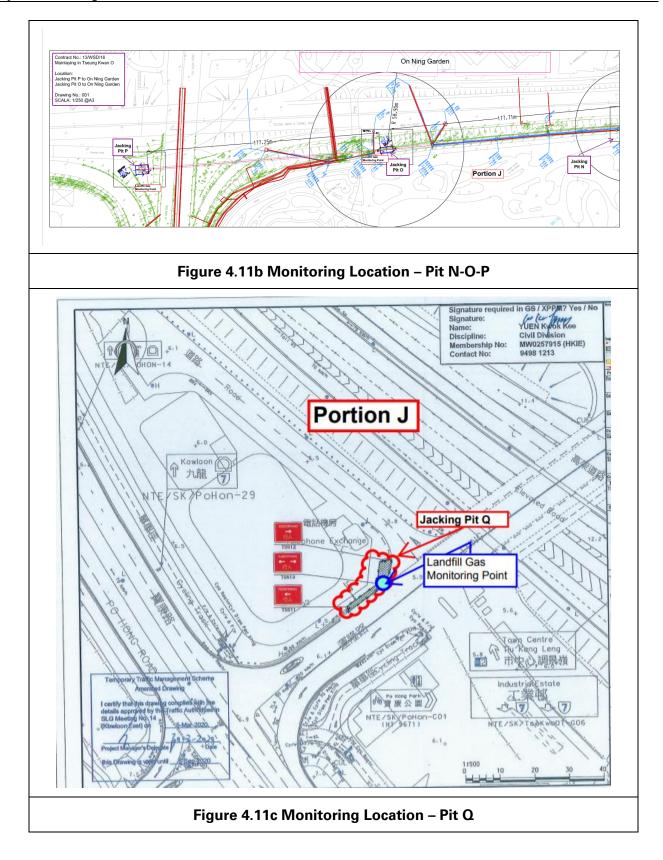




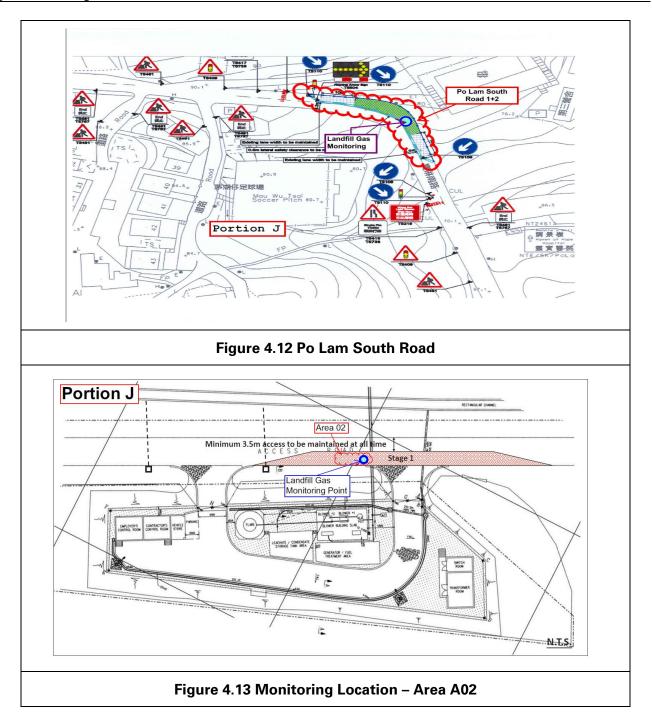




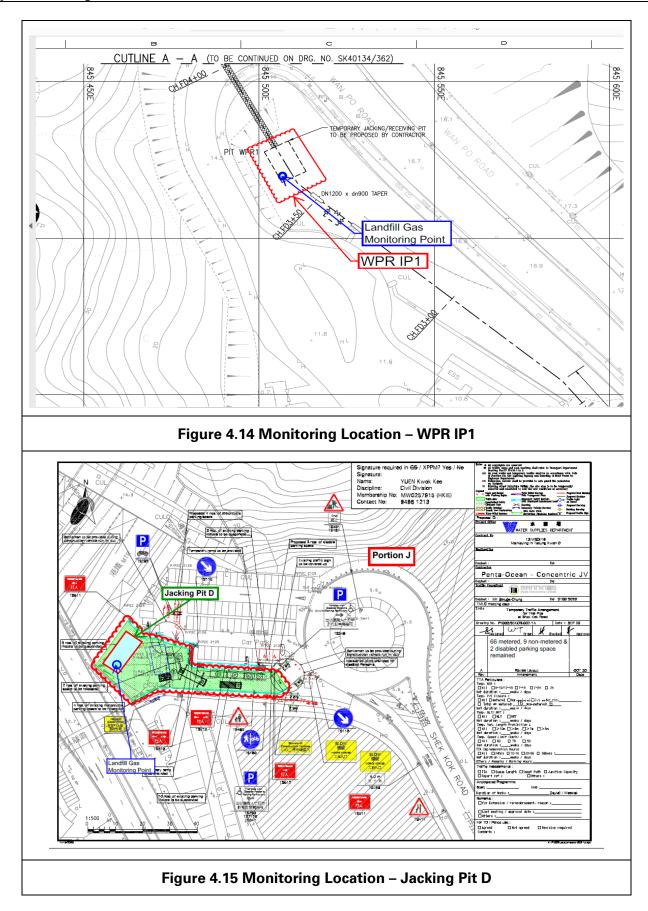




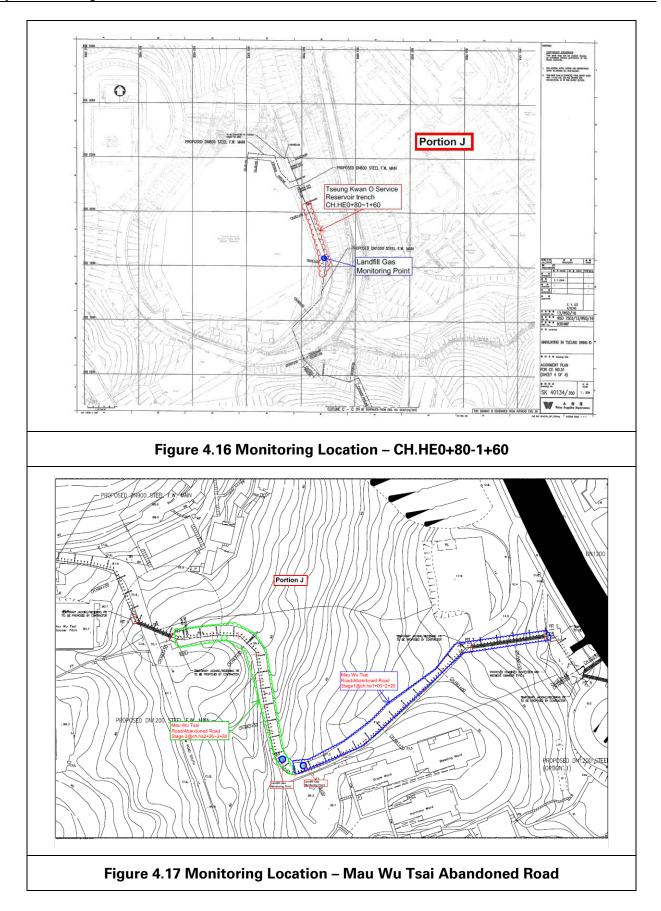




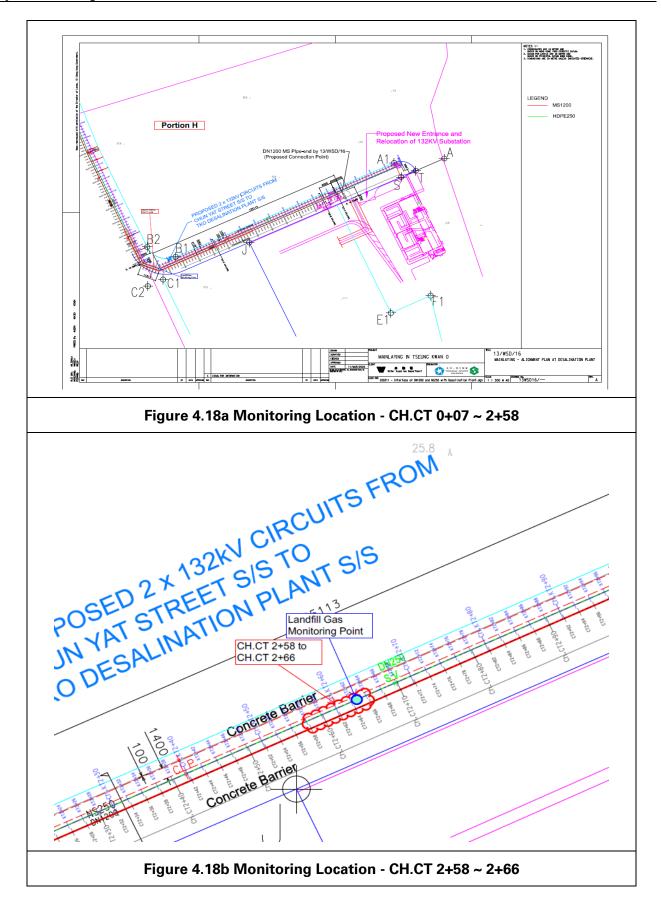




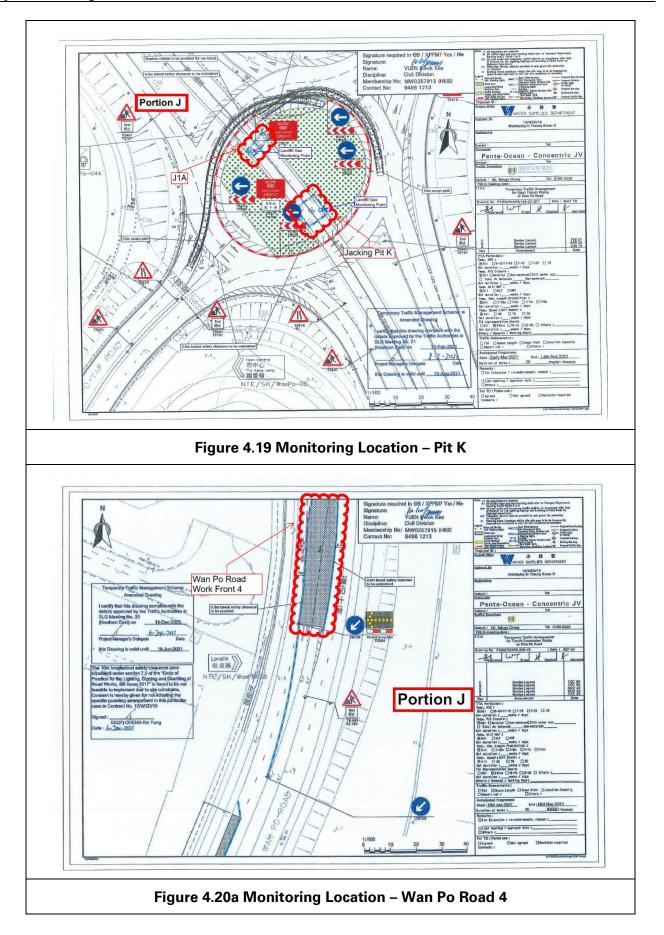




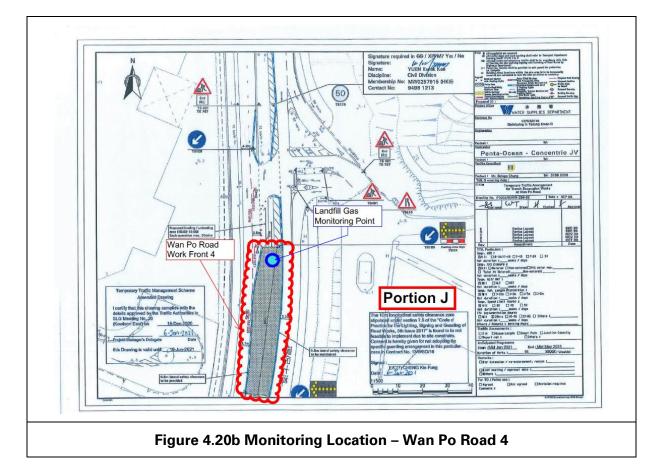












### 4.3 Monitoring Parameters

LFG 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.



4.4 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 (O2)	<19% O2	<19% O2
Methane (CH4)	>10% LEL	>80% LEL
Carbon Dioxide (CO2)	>0.5% CO2	>1.5% CO2

#### 4.5 Monitoring Equipment

Landfill Gas monitoring was carried out using intrinsically-safe, portable multigas 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 followi	ng ranges:
methane	0-100% Lower Explosion Limit (LEL) and 0 100% v/v;
oxygen	0-25% v/v;
carbon dioxide	0-100% 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 4.2.** The Landfill Gas monitoring equipment calibration certificate is presented in Appendix I.



#### Table 4.2 Landfill Gas Monitoring Equipment

Equipment	Brand and Model	Calibration Expiry Date
Portable Gas Detector	QRAE III	27 July 2021

#### 4.6 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 by the Contractor at the excavation locations for 660 times. All the measured results were presented in **Appendix J** and within the Action and Limit Levels.



## 5. SUMMARY OF MONITORING EXCEEDANCE, COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

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

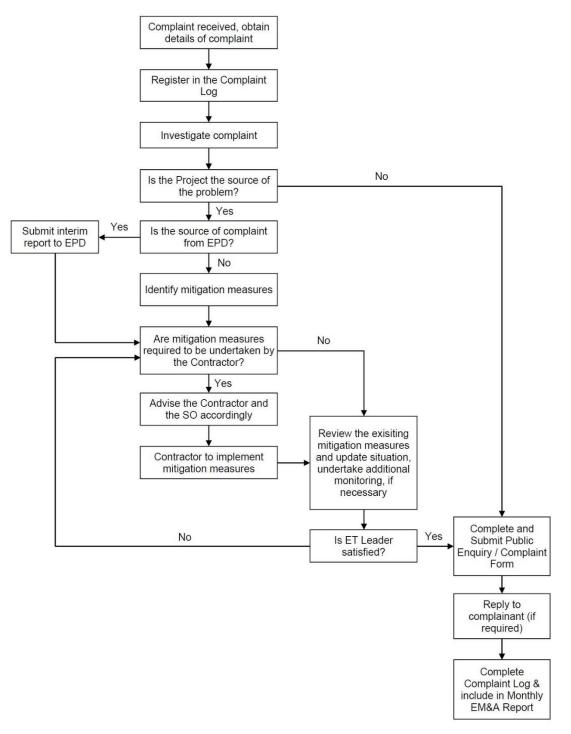


Figure 5.1 Environmental Complaint Handling Procedure



- 5.2 Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 8, 15, 21 and 28 April 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 5.3 NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28<sup>th</sup> April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in **Appendix O**.
- 5.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 5.5 No project-related complaints that will affect compliances to EM&A manual and environmental permit was received in the reporting month.
- 5.6 No notification of summons and prosecution was received in the reporting period.
- 5.7 Statistics on complaints and regulatory compliance are summarized in **Appendix K**.

#### 6. EM&A SITE INSPECTION

6.1 Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, site inspections were carried out on 8, 15, 21 and 26 April 2021 at the site portions list in Table 6.1 below.

Date	Inspected Site Portion	Time
08 April 2021	Portion J and H	9:30am – 11:30am
15 April 2021	Portion J	9:40am – 12:00pm
21 April 2021	Portion J	9:40am – 12:00pm
26 April 2021	Portion J	9:30am – 12:00pm

#### Table 6.1 Site Inspection Record

- 6.2 One joint site inspection with IEC was carried out on 26 April 2021.
- 6.3 Minor deficiencies were observed during weekly site inspection. Key observations during the site inspections are summarized in **Table 6.2**.



#### Table 6.2 Site Observations

Date	Environmental Observations	Follow-up Status
	<ol> <li>Construction boundaries were not protected by sandbags at Wan Po Road 2, Wan Po Road 4.</li> <li>Dusty materials were not covered by tarpaulin sheet to limit dust emission at Landfill Stage 1 Area A.</li> </ol>	<ol> <li>Construction boundaries were protected by sandbags.</li> <li>Dusty materials were covered by tarpaulin sheet.</li> <li>The outlet of water sedimentation tank was not connected to the bottom of the sedimentation tank.</li> <li>Chemicals were removed.</li> </ol>
08 April 2021	<ol> <li>The outlet of water sedimentation tank should not be connected to the bottom of the sedimentation tank at Wan Po Road 3.</li> <li>Chemicals were not placed in a drip tray at Landfill Stage 1 WFE 1 and WFE 2.</li> </ol>	
15 April 2021	<ol> <li>Construction boundaries were not protected by sandbags at Section A0, Wan Po Road 1.</li> </ol>	<ol> <li>Construction boundaries were protected by sandbags and timbers.</li> </ol>
21 April 2021	<ol> <li>Construction boundaries were not protected by sandbags at Section A0, Abandoned Road at Mau Wu Tsai.</li> <li>Chemicals were not placed at the chemical drip tray at Abandoned Road at Mau Wu Tsai.</li> </ol>	<ol> <li>Construction boundaries were protected by sandbags and timbers.</li> <li>Chemicals were removed.</li> </ol>
26 April 2021	No major observations were r	eported.

- 6.4 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**.
- 6.5 Site inspection proforma of the reporting period is provided in **Appendix L**.



### 7. FUTURE KEY ISSUES

7.1 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 fo	r the next	reporting month
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Location	Location	Forecast Works in Next Reporting Month
Portion H of the Project Site	TKO 137 Pit B	Pipe jacking works by TBM will be continued.
Portion J of the Project Site	Wan Po Rd – Workfront 1	Trench excavation and pipe laying will be conducted.
	Wan Po Rd – Workfront 2	Trench excavation and pipe laying works will be conducted.
	Wan Po Rd – Workfront 3	Trench excavation and pipe laying works will be conducted.
	Wan Po Rd – Workfront 4	Trench excavation and mainlaying works will be conducted.
	Wan Po Rd – Pit A	<ul> <li>Excavation and ELS works will be conducted.</li> <li>Grouting of trenchless pit will be conducted.</li> </ul>
	Wan Po Rd – Pit B	Pit excavation works will be commenced.
	Landfill Stage 1 – Area A	900HSV Chamber construction works will be conducted.
	Landfill Stage 1 – Area B	Trench excavation and pipe laying works will be conducted.
	Cycle Track – Workfront 1	Trench excavation and pipe laying works will be conducted.
	Cycle Track – Workfront 2	Trench excavation and pipe laying works will be conducted.
	Velodrome – Pit K	Trenchless hand-shield works will be conducted.
	Velodrome – Pit J1A	Construction of jacking pit will be continued.
	Velodrome – Pit M	Pipe jacking works will be continued.
	Velodrome – Pit O	Construction of rescue pit for TBM will be conducted.
	Mau Wu Tsai – Workfront 1	Trench excavation and pipe mainlaying works will be conducted.
	Mau Wu Tsai – Workfront 2	Trench excavation and pipe mainlaying works will be conducted.
	Po Lam Road (D2)	Trench excavation and pipe mainlaying works will be conducted.
	Po Lam Road (A0)	Trench excavation and pipe mainlaying works will be conducted.
	TKO Primary Service Reservoir	• Trench excavation and pipe laying works will be conducted.



- 7.2 The major environmental impacts brought by the above construction works will include:
  - Construction dust and noise generation of saw cutting of concrete surface, mainlaying of pipes, sheet pipe pilling, TBM break through, excavation works and ELS works.
  - Waste generation from construction activities
  - Impact on water quality from construction activities
- 7.3 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 saw cutting of concrete surface, mainlaying of pipes, sheet pilling, TBM break through, excavation works and ELS works
  - Reduction of noise from equipment and machinery on-site
  - Sorting and storage of general refuse and construction waste
  - Treatment of wastewater with water treatment facilities before discharge
- 7.4 The proactive environmental protection proforma for the next reporting month is listed in **Appendix M**.
- 7.5 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.
- 7.6 The tentative impact monitoring schedule for the next reporting month is attached in **Appendix N**.



#### 8. CONCLUSION AND RECOMMENDATIONS

- 8.1 This is the 33<sup>rd</sup> monthly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during the period from 1 April 2021 to 30 April 2021, in accordance with the EM&A Manual and the requirement under EP-503/2015/A.
- 8.2 Impact monitoring for noise impact was conducted in the reporting month for NSR4 – Creative Secondary School on 8, 15, 21 and 28 April 2021 as construction works were conducted within 300m to the noise sensitive receiver. Detailed monitoring results can be found in **Appendix G**.
- 8.3 NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28<sup>th</sup> April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in **Appendix O**.
- 8.4 No project-related exceedance of the Action Level was recorded during the reporting period.
- 8.5 Weekly environmental site inspection was conducted during the reporting period. Minor deficiencies were observed during site inspection and were rectified. The environmental performance of the project was therefore considered satisfactory.
- 8.6 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, dust suppression mitigations and proper materials storage.
- 8.7 No project-related complaints that will affect compliances to the EM&A Manual and Environmental Permit was received in the reporting period.
- 8.8 No notification of summons or prosecution was received since the commencement of the Contract.
- 8.9 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.



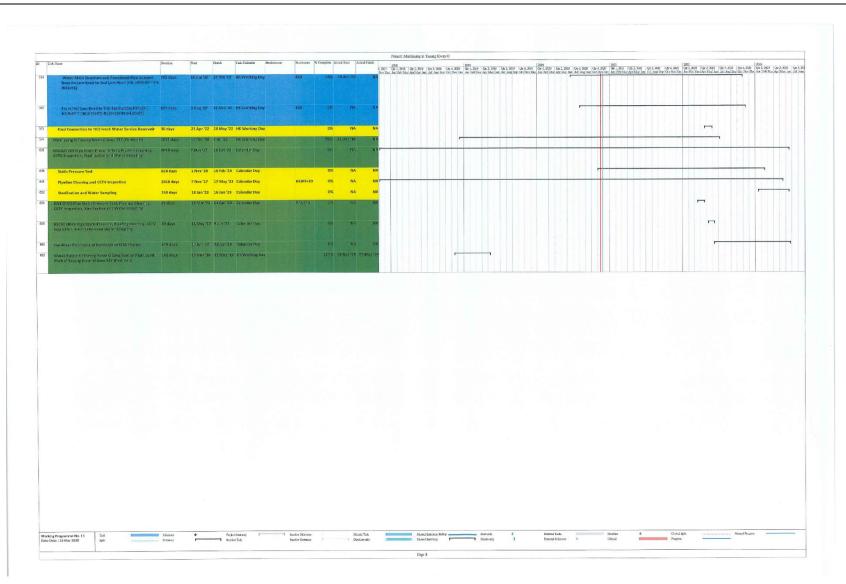
## Appendix A

## **Construction Programme**



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	Access Date of Portion H	0 days	10 Aug '19	10 Aug '19	Calendar Day		582	100% 10 Au	g 19 10/	Aug *19				• 10/8								
1	Completion Date (Contract)	D days	18 May '21	18 May '21	Calendar Day			100% 18 Ma	y'21 18 M	May '21								<ul> <li>18/5</li> </ul>				
	Revised Completion Date (Including EDT - CE01 & CE23)	0 days	11 Feb '22	11 Feb '22	Calendar Day			103% 11 Fel	b'22 111	Feb '22									* 11/	2		
	Planned Completion	0 days	23 Jun "23	23 Jun '23	Calendar Day	10		0%	NA	NA												* 23
	Defect Date	0 days	22 Jun '24	22 Jun '24	Calendar Day	10F5+365 days		0%	NA	NA												
M	leinfaying In Tseung Kwen O	2055 days	7 Nov 17	23 Jun '23	Celendar Day	Section of the local division of the	9FS1365 d	35% 7 No	×*17	NA												
	Issue CE No. 01 - Change in Pressure Rating of Watermain, Valves and Fittings from PN16 to PN25	0 days	12 Jul '18	12 Jul '18	Calendar Day		37	100% 12 Ju	18 12	: Jul '18	• 1	n										
	Issue CE No. 04 - Feasibility Study of Realignment of Pipeline between Po Hung Road and TKO Freshwater PSR	0 days	23 Aug '18	23 Aug '18	Calendar Day			100% 23 Au	6'18 23 <i>)</i>	Aug '18		• 23.8										
	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Kwan O Stage 1 Landfill	0 days	23 Aug '18	23 Aug '18	Calendar Day			107% 23 Au	gʻ18 23/	Aug '18		* 23.8										
4	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19	28 Feb '19	Calendar Day			100% 28 Fel	5'19 28	Feb '19			• 28/2									
		O days	19 Aun '19	19 Jun '19	Calendar Day			100% 19 Ju	n' <b>19</b> 19	Jun '19				* 19 <i>1</i> 5								
6	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (CH. A22+75)	O days	2 Aug '19	2 Aug '19	Calendar Day			100% 2 Au	E, 18 S S	Aug '19				<ul><li>◆ 2/8</li></ul>								
1	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilikies near Wan O Road at CH. A16+00 (Pit B	O days )	8 Aug '19	8 Aug '19	Calendar Day			100% 8 Au	6 °19 8	Aug '19				* 8/8								
8	Issue CE No. 2G - Change in Cathodic Protection System for Mild Steel Pipes	0 days	16 Aug '19	16 Aug '19	Calendar Day		51	100% 16 Au	g'19 16	Aug '19				16/8								
	Issue CE No. 35 - Feasibility Study on the Alternative Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	O days	31 Dec '19	31 Dec '19	Calendar Dəy			100% 31 De	c'19 31	Dec '19					<b>*</b> 31/12							
0	Issue CE No. 55 - Design of the Water Mains Structure and Associated Pipe Support across the Natural Stream Course for Alternative Alignment in Tsui Lam	0 days	5 May '20	5 May '20	Calendar Day			100% 5 Ma	y'20 S N	viay "20"						* 5/5						
	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Betch No. 2)	0 days	22 May '20	22 May '20	Calendar Day			100% 22 Ma	y'20 22 I	May '20						<ul> <li>22/5</li> </ul>						
	Issue CE No. 64 - Tree Survey at Tsui Lam (Location A and Location B)	0 days	9 Jun '20	9 Jun '20	Calendar Day			100% 9 Ju	n '20 9	Jun 20						\$ 9/6						
13	Issue CE No. 62 - Design of Pipe Support in Tsui Larn (Locatio 8) .	n Ω days	16 Jun '20	16 Jun '20	Calendar Day			100% 16 Ju	n'20 16	Jun 20						♦ 16/5						
14	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 3)	0 days	21 Aug '20	21 Aug '20	Calendar Day			100% 21 Au	g'20 21	Aug '20						♦ 21/8						
	Preliminantes	2255 days	7 Nov 17	14 Apr '21	Calendar Day		CIT STALL	80% 7 Ne	v '17	NA		+++++						7				
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5	Subcontracting	1122 days	16 Nov '17	11 Dec '20	Calendar Day			97% 16 No	v '17						-		-					
,	Submission and Approval	172 days	36 Nev '17	17 Mar '08	Gelender Day			100% 16 No	17 17 17	Macial F												
57	Subcontractor Selection and Subcontracting	1115 days	23 Nov '17	11 Dec '20	Galendar Day			97% 23 No	2 '17	NA				-	-		+					
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1	Open Cut Excavation, Pipe Laying and Relisstatement at Wan Po Road	1198 days	30 Aug '18	15 Sep '22	HE Working Da	Y	638	52% 30 A	ug '18	na.												
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н	Construction of Jacking / Receiving Pits	100 days	22 Jan *21	28 May '21	HK Working Da	ay .		0%	NA	NA						-						
n -	TMB Pipe Jacking Pit 1- Pit 2	217 days	29 May '21	18 Feb '22	HK Working Do	ιγ	99	0%	NA	NA							-					
16	Open Cut CH A5410.5 (Pit 2) to CH A7412	1038-0875	30 Aut (16	5 May 122	HK Working Oa	iy.		78% 19.8	of ,18	110												
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я	Trenchless Work at Wan Po Road From Pit A to Pit F	1443 days	7 Nov 17	21 Sep '22	HK Working Da	ly.	635	24% 7 N	lov '17	NA										1		
33	Transfilmer Walke (Fit & to Pit C)	867 days	61° 30A SI	16301-55	HK Working Ba	W.	1	175 12.4	vik .78	NA												
64	Crossing Wan Po Road and Ushas Park Read	3780 days	7 Nov 17	21.5ep 22	Calendar Day			778 7.6	iny 117.	NA.												
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200	Open Cet Excavation, Pipe Laying and Reinstatement at TKO Landfill Stage 1 and TKO South Waterfront Promenade	5283 days	7 Nov 17	8 Mar '22,	HK Working Da	τv	640	5.4% 7 N	tov '17	NA												
59	Burned Pipt, Exposed Pipe, Trenchless Works From Loi Avenue to Po Yap Road Roundabout	768 days	20 Apr '20	18 Nov '22	HK Working D	ay	641	75 20 /	Apr '20	NA				-							-	
NT.	Trenchiess Work from Po Yap Road Roundabout to KMB Depot (Pit K to Pit P)	590 days	18 Nov '19	13 Nov '21	HK Working D	ay	642	37% 18 M	lov '19	NA			-					1				
428	Trenchless Work from KMB Depot to Po Hong Road (Pit to Pit R)	P 515 days	3 Avg '20	29 Apr '22	HK Working D	ау	642	25% 37	Aug '20	NA												
452	Open Trench from Pit R to Pit S & Trenchless Works from Pit S to Pit T	n 524 days	3 Aug '20	12 May '22	HK Working D	ат	642	1% 37	Aug '20	NA					-							
471	Open Cut Excavation, Pipe Laying and Reinstatement at Abandened Read / Max: Wu Tsai Village / Po Lam Read North	1486 days	7 Nov '17	12 Nov "22	HK Working D	9/		6% 71	¥ov '17	NA											7	
412	Ogen Trenth Kipulaying at Abaselmasel Houd & Mau Wa Tsai Village	S13 deys	30 Noy "20	20 Aug '22	HK Warking P	ay	642	-034	/NA	110												
475	Transhiess Work at Maar WorTsui Village	412 days	16 Dec '26	13:May '22	HK Wonking D	wy	107	035	NA	198									+++++			
476	Inspection Pit Excavation	16 days	16 Dac '20	6 Jan '21	HK Working D	**		0%	NA	NA						-						
41	Construction of Jacking / Receiving Pits	62 days	5 Jan '21	20 Mar '21	HK Working D	ay		0%	NA	NA						-						
455	Hand Shield Pipe Jacking from Pit U to Pit V ("30m)	) 241 days	19 Mar '21	10 Jan '22	HK Working D	lay		096	NA	NA						,			7			
498	Hand Shield Pipe Jacking from Pit W to Pit X ("85m		22 1/lar '21	13 May '22	2 HK Working C	iay		0%	NA	NA								1	1	9.41		
510	Open Trench Pipe Seging of Pukani Hoad North	1314 days	7 Nos '17	14 Apr '22	HE Working I	тау	648	086	NA	Na		-										
513	Water Nain Structure and Associated Filps Support across the (Astara) Stream Coarse (CH. HB0+00 ~ CH.HB0+04)	653 days	S (694 '20	16 Jul '22	HK Working C	жy	643	1995 57	May 20	NA										-		
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Ko	y Dates	2470 days	7 Nov'17 22 Jun'24 Celendar Day	-	DN 7 NOV'LT NA	to Ba Ja M	to her lid log sop i	a Nov Dec Jan Beb	Mr Apr May Jon	Al Asy Sep Ot No	De: In Feb Ma	Age No. In: In AL	2 80 01 No Do	In Rh. Ha An	r May Jun Jul Au	Sor Oct Nev I	ee fan fit Mar i	p 52.0 Jul 24	ing Sep Oct New 2	He wa He also Je	er Mo. An . M	Aug. Set: OX NOV	Dec on Pet Ma	K AD MO
		0 days	7 Nov'17 7 Nov'17 Celender Day 3	6,28,2961	100% 7 Nov 17 7 Nov 17 # 2011																			
		0 days	16 Nov '17 15 Nov '17 Calendar Day		190% 16 Nav'17 16 Nov'17 * 1671																			
į	Access Date of Portion A, B, C, D, E, F and G	0 days	16 Nov '17 15 Nov '17 Celender Day 5	9,32,40,4	190% 16 Nov'17 16 Nov'17 4 16/11																			
ż	Access Date of Portion H	0 days	10 Aug '19 10 Aug '19 Celeader Day 5	387	100% 10 Aug '19 10 Aug '19					• 10/8														
		0 days	18 May '21 18 May '21 Calendar Day		100% 18 May '21 18 May '21										+ 18/5		+ 11/2							
		0 days	11 Feb '22 11 Feb '22 Calendar Day		100% 11 Feb'22 11 Feb'22												+ 11/2				• 230			
		0 days	23 Jun '23 23 Jun '23 Calendar Day 10		ON NA NA																* 4.54			
		0 deys	22 Jun '24 22 Jun '24 Calendar Day 10F5+365 days		0% NA NA 15% 7.Naz'17 NA												1.1.1.1			_	_			
	al alaying in Tuesang Kwas O	2055 days		əFS+355 d	35% 7 Nov 17 NA 12 Jul 18															-				
;	Issue CE No. 01 - Change In Pressure Bating of Watermain, Valves and Fittings from PN15 to PN25	0 days	12 Jul 18 12 Jul 18 Calendar Day	s/	100% 12101.18 12101.18		+ 101																	
į	Issue CE No. 64 - Feesibility Study of Realignment of Pipeline between Po hung Road and TKO Freshwater P3R	© deys	23 Aug '18 23 Aug '18 Calendar Day		100% 23 Aug '18 23 Aug '18		÷ 23/8																	
1	Issue CE No. 05 - Feasibility Study of Realignment of Pipeline at Tseung Ewan O Stage 1 Landfill	© days	23 Aug 18 23 Aug 18 Calendar Day		300% 23 Aug '18 23 Ang '18		÷ 21/8																	
	Issue CE No. 10 - Contractor Design of The Realignment	0 days	28 Feb '19 28 Feb '19 Calendar Day		100% 28 Feb '19 28 Feb '19				+ 28/2															
1	Issue CE No. 10 - Traffic Count and Prefiminary Traffic Analysis in Po Lam Road and Tsui Lam Road		19 Jun '19 29 Jun '19 Calendar Day		100% 19 Jun '19 19 Jun '19				•															
	Issue CE No. 27 - Underground Utilities Detection Survey for Working Pit D (DI: A22+75)	0 days	2 Aug 19 2 Aug 19 Calendar Day		100% 2 Aug '19 2 Aug '19					+ 2/3														
1	Issue CE No. 21 - Temporary Diversion of Uncharted Underground Utilities near Wan D Road at CH. A16+00 (Pit B	0 deys	8 Aug '19 8 Aug '19 Calendar Day		100% 3 Aug '19 8 Aug '19					* 88														
2	Issue CE No. 26 - Change in Cathodic Protection System for MIId Steel Pipes	0 days		54	100% 16 Aug '19 16 Aug '19					<ul> <li>16/8</li> </ul>														
3	Alignment by Trenchless Method in the Wan Po Road J/O Lohas Park Road	0 days	31 Dec '19 31 Dec '19 Calendar Day		306% 31 Dec'19 31 Dec'19						* 3¥12													
1	Issue CE Ns. 55 - Dosign of the Water Mains Strutture and Associated Npc Support stross the Notoral Stream Course for Alternetive Alignment in Tsui Lem	0 days	5 May '20 5 Nay '20 Calendar Day		200% S May 20 S May 20							* 55												
1000	Issue CE No. 56 - Excavation of Inspection Pits for the Alternative Alignment (Batch No. 2)	0 days	22 May 20 22 May 20 Calendar Day		200% 22 May '20 22 May '20							* 22 <i>1</i> 5												
	Issue CE No. 64 - Tree Survey at Tsul Lam (Location A and Location 8)	0 days	9 Jun '20 9 Jun '20 Calendar Day		100% 9.Jun 20 9.Jun 20							+ 915												
	Issue CE No. 62 - Design of Pipe Support in Tsui I am (Locatio B) .		16 Jun '20 16 Jun '20 Calendar Day		100% 16 Jun '29 16 Jun '20							* 165												
	Issue CE No. 66 - Excavation of Inspection Pits for the Alternative Algement (Batch No. 3)	O days	21 Aug '20 21 Aug '20 Calendar Day		105% 21 Aug '20 21 Aug '20								+ 21 <i>1</i> 8											
	Prefilm talles	1255 days	7 Hoy 17 14 Apr 14 Calindar Day		81% 7 Nov 17 NG																			
	Subression and Perreit Application	322 days	7 Nov '17 24 Sep '18 Calendar Day 7 Nov '17 11 Der '17 Calendar Day 2		101% 7 Nov '17 24 Sep '18		10 1 10							1.1										
	Submission of Safety Plan	35 days 45 days	7 Nov '17 11 Dec '17 Gelender Day 2 7 Nov '17 21 Dec '17 Gelender Day 2		100% 7 Nev 17 11 Dec 17																			
	Submission of Site Management Plan and Trip Ticket Submission of Key Penale	45 days 14 days	4 Dec '17 17 Dec '17 Calender Day 2 4 Dec '17 17 Dec '17 Calender Day 275+27 days		100% 4 Dec'17 17 Dec'17																			
	Submission of Key Propie Submission of Subroutractor Management Plan	19 days	7 Nov 17 6 Dec 17 Calendar Day 2		100% / Nor'1/ 6 Dec'17																			
	Submission of First Programme	7 days	7 Nov '17 13 Nov '17 Calendar Day 2		100% 7 Nov '17 13 Nov '17																			
	Submission of Pice Material (PN16)	56 days	1 Feb '18 27 Mar '18 Calendar Day 4	33	100% 1 Feb '18 27 Mar '18	-																		
	Approval of Pipe material submission (PN16)	137 days		6155+7 da	100% 28 Mar '18 11 Aug '18	-																		
	Appointment of Environmental Team	10 days	5 May '18 18 May '18 Calendar Day 50	35	100% 9 May '18 18 May '18		•																	
	Environmental Baseline Monitoring	17 days	25 May '18 14 Jun '18 Calendar Day 34		100% 23 May '18 14 Jun '18		-																	
	Submission of Environmental Management Plan	45 days	7 Nov '17 21 Dec '17 Calendar Day 2		100% 7 Nov '17 21 Dec '17																			
	Submission & Approval of CE01 Pipe Material PN25	75 days		65	100% 12 Jul '18 24 Sep '18																			
	Subcontracting	1122 days	16 Nov '17 11 Dec '20 Calendar Day		97% 16 Nov '17 NA																			
	Submission and Approval	122 days	16 Nov'47 17 Mar 18 Kalendar Day		1000 16 from 17 17 6/81 18	-																		
1	Submission of seb-contractor selection procedure	24 days	Tallow 11 2 pair 11 carlings and 4	41 56.51.52F	100% 16 Nov 17 5 Dec 17																			
	. de la construcción de la constru	42 days	Actes to second a second second second	56,51,52F! 43	100% 10 De: '17 20 km '18																			
	Submission of Sub-contractor Condition	14 days 42 days		43 56,51,52Ft	100% 211an 18 3 Feb 18 100% 4 Feb 18 17 Mar 18	-																		
	Approval of Sub-contractor Condition Submission of Supplier Selection Procedure	42 02ys		45	100% 15 Nov 17 29 Jan 18																			
	Approval of Supplier Selection Procedure	42 days		61	100% 30 Jan '18 12 Mar '18	-											1111							
	Subcontractor Solution and Subcontracting	1110 days	23 New 17 13 Dec 20 Calandar Day	Sector Sector	978 73 Nov 17 NA			-																
P	Traffic Consultant for Investigation Warks	30 days	23 Nov '17 22 Dec '17 Calendar Day 4	and the second second	100% 23 Nov '17 22 Dec '17																			
	Consultancy: Landscape for Investigation works	30 days	5 Jan '18 3 Feb '18 Calendar Day 4	228	100% 5 Jan '18 3 Feb '18 🗧																			
	Consultancy: Traffic consultant	55 days	21 Feb '18 16 Apr '18 Calendar Day		100% 21 Feb '18 16 Apr '18	-																		
	Eavironmental Team	9 days	16 Apr '18 24 Apr '18 Calandar Day	34	100% 16 Apr 18 24 Apr 18																			
	Temporary site office, hoarding & preject sign board		At most of the set of		100% 22 Mar '18 4 Jun '18	-																		
	Consultancy: Independent Checking Engineer	12 days	14 May '18 25 May '18 Calendar Day 41FS+10 days,43		100% 14 May 18 25 May 18		•															1111		
	Survey Services	23 days	25 Sep '18 18 Oct '38 Calendar Day		100% 26 Sep '18 18 Det '18			• 6 I I I					11.1									4		



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La-Kazing Wolks 41 days (5-59-18 17-01-19) 41,48 1000 919/18 17-01-19 14
ASSESSMENTS TOWARD TEAM TO THE
Setting up PM and Centrator Accommodeline 91 days 12 May 118 Page 138 Celestrat PM SI/S142 arX 10 May 12 May 138 ArX 1
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CIL,A0+14 - 0:50 CC 23 May 129 26 Nov 139 HK Working Day 130/16 23 May 139 26 Nov 139
CHLA0450-1450 DC 42 days 10 Sep 18 31 Oct 18 HK Working Day 1805: 10 Sep 18 31 Oct 18
DK.A3150-1460 DC 53 days 1 Nov'18 4 Ann'19 HK Werking Day 380% 1 Nov'18 4 Jan'19
CL.R.140-312102 397 days 5 Jan 19 20 May 19 HK Warking Day 300% 5 Jan 19 20 May 19
CILA214-230002 40 days 15sp 20 19 Oct 20 HK Worklag Day 90% 15sp 20 NA
CH A1:10-21:46 02 39 4ays 27 04:70 39 HK WHRING DAY 306 27 04:70 HK
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Remove Setup including Thrust Wall 6 days 14 Aug 21 20 Aug 21 HK Winking Day 34 91 0% NA KA
Softup Guired Buil 6 datys 21 Aug 21 27 Aug 21 27 Aug 21 K Working Day 50 92 0% NA NA
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Construction of Combined Inspectition and Washest 65 days 1 Dec '21 25 Jan '22 KK Washing Day 94 97 05 N4 NA Combined Part of 174 Jan '21 25 Jan '22 KK Washing Day 94 97 05 N4 NA
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9 CH, ASH88-612.0C+0N300 Washout Punp PH 113: days 9 Dec '20 4 May '21. HK Workley Day 101. 99 0% NA NA
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e cx. ns-20-4-94 0c 191 days 27 Zapr 26 8 Dec 20 IKK Working Day 103 115 88% 52 Apr 20 RA
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4 Inser CT No. 22 - Instruction to Change Jie Mathaday & Grage 20 Jan 20 - 20
andous 1 Min / Wandowski 20 Jun 700 29 Jun 700 19 Jun 701 29 Jun 700 20 Jun 7
6 Swar (This, 7): Universe Indexpoond Gety 201a/20 Elsion/20 Califebrit/GV UNIX Frame Co. 27(in Co. Conditions during From the Number of Name For East Insteam Co. KARNA and Co. KARNA
6 EWN No. 14 (overced by CNE No. 88 CE No.06) - 0 days 18 Step '18 18 Sep '18 calendur Day 100% 18 Sep '18 18 Sep '18 - 180
Understan Undergrand Condition Duning French Decarator for Manihing in structure in Road Reviewes
CLR6/90 and CLR/10
T or 46 70 71100 111 day 10 600 18 12 30 19 MCWelkin Day 100% 19 Au 18 12 Jun 19
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- 6	Apen Stat Cel 47+17 to CH A13+73.5	1181 days	19 Sep '18 15 Sep '22 His Working Cay	10000	49% 19.Sep '18	NA NA	to ha PO Ra Ar M	la ka ki Ang Seg F	On No. Dec An Pr	h Ma As Ma h	u SJ Ave See Ou I			Aug Sep Oct Nev D	he In He Ma A	er Nor Jun Jul 1	the Sep (At No-	Dec. Art. Heb 31a	Apr Flas Am M	Aug Sep Oct, Bar	Dec fut Feb No	2.40.346_5m_20	. And Sep CO. Buy	Dec Jun Per Stal Age S
	EWN No. 108 - TTA implementation cutside the	O days	25 Feb '20 25 Feb '20 Calendar Day		100% 25 Feb 20 2	5 Feb '20						•	25/2											
	entrance gate of Green Valley Landfil EWN No. 108 - TTA Implementation outside the entrance gate of Green Valley Landfil	0 days	9 Apr '20 9 Apr '20 Calenda: Day		100% 9 Apr '20	9 Apr '20							+ 9H											
	EWN No. 159 - Confimation of Revised Pipe	0 days	Z0 May '20 20 May '20 Celendar Day		100% 20 May '20 20	May '20							+ 20/5											
	Algement outside the Entrance Gate of Green Valley Landfill EWN No. 173 - Additional Inspection Pit at Wan Po	1 day	11 Jun '20 11 Jun '20 Calendar Day		100% 11 Jun 20	1 Jun '20							1											
	Road Northbound outside the Entrence Gete of Green Valley Lanfill Batch No. 3 - Inspection Pit Excavation at the	4 days	23 Jul '20 27 Jul '20 HK Working Day		100% 23 Jul 20	27 Jul '20																		
	footpath of Wan Po Road near Green Valley Landrill Entrance EWW No. 185 - Inspection Pit on Footpath at Wan Po	0 days	29 Jul 120 29 Jul 120 Calendar Day	115	100% 29 Jul 20	02' lut 92								29/7										
	Road Northbound outside the Entrance Gate of Green Valley Land II Expected CE No XX - Change to Treachless Method	0 days	30 Nov '20 30 Nov '20 Calendar Day 114		ON NA	NA									30/11									
	near the entrance of Green Valley LandIII CH. A7+12 - 7+54 CC with DH500 IT & DN500 Velve	50 days	9 Dec '20 30 Mar '21 HS Working Day 102,101	118,117,1	on na	на									-									
	Chamber																							
	CII, A7+64 - 8+28 Trenchless (Handshield)	105 days	31 Mar '21 9 Aug '21 HK Working Day 116		DK NA	NA NA																		
	CH, A8+28 - 8+60 CC with DN150 DAV	64 days	31 Mar '21 21 Jun '21 HK Working Day 116	119	0% NA																			
	CH, A8+60 - 9+24 OC	64 days	22 Jun 21 4 Sep 21 HK Working Day 118	120	0% NA	NA										111	1							
	CH, A9+24 - 9+88 OC	64 clays	6 Sep '21 22 Nov '21 HK Working Day 119		0% NA	NA																		
	CHL A9+88 - 10+52 CIC with DN600 IT	95 deys	51 Mar '21 28 Jul '21 HK Working Day 116	122	0% NA 0% NA	NA																		
	CH. A10+52 - 11+16 OC CH. A11+16 - 11+80 OC with DN360 Washout Pemp Pit 1.6 DN150 DAV	64 days 95 days	29 kal '21 13 Oct '21 HK Working Day 121 18 Nov '20 15 Mar '21 HK Working Day 124		0% NA 0% NA	NA																		
			1 Sep '20 17 Nov '20 16: Working Day 125	123	20% 1 Sep '20																			
	CH, A11+80 - 12+12 OC with DN600 IT	64 days		124	100% 21 Feb '19 3	NO				1	and a stand of the second													
	CH, A12+12 - 12+50 OC with DN900 Valve Chember Issue CE No. 19 - Change in Design of Gate Valve Chamber at Wan Po Road near CH, A12+40		23 Feb '19 31 Aug '20 HK Working Day 22 Aug '19 22 Aug '19 Celendar Day	129	100% 22 Aug 19 2						÷ 23/8													
	EWN No.23 (Covered by CNE No.36 & CC No. 16) - Unforeseen Ground Conditions at Open Trench of Manlaying at Wan Po Koad between CHA12+89 an CHA12+64		4 Dec '38 4 Dec '38 Calendar Day		100% 4 Dec '18	4 Dec '18			<ul> <li>◆ 4/12</li> </ul>															
	CH.A12+50 - 12+95 OC	125 days	19 Sep '18 21 Feb '19 HK Working Day		100% 19 Sep *18	1 Feb '19																		
	CH. A12+95 - 13+13 OC	84 days	9 Nov 18 21 Feb 19 HK Working Day	130	100% 9 Nov '18				1 and 1															
	CH. A13+13 - 13+40 OC + DN150 DAV	60 days	7 Jul '22 15 5ep '22 HK Working Day 181,129		0% NA	NA																		
	CH. A13+40 - 13+60 OC & Connection from Open Co Trench to Jacking Pit A		20 Jun '22 6 Jul '22 HK Working Day 151	130	0% NA	NA													-					
Tr	enchless Work at Wan Po Read From Fit A to Fit F	1003 days	7 Nov '17 21 Sep '22 HK Working Day	639	24% 7 Nov 17	NA		-					-					-		-				
	Tranditess Works (P.t A to Pit C	Bb/ days	12 Aug 10 16 AU 12 Hit Werklig Gay		1735 12 Aug '19	NA					-							111						
	Expected CE No. 52 - Relocation of Working pits for Trenchless Works in War Po Road (Pit A to Pit C)		30 Nov '20 20 Nov '20 Calendar Day		0% NA	NA								•	30/11									
	Construction of Jacking / Receiving Pits	645 days	12 Aug '19 6 Feb '21 HK Working Day		32% 12 Aug '19	NA					-													
	Removal of Existing Planter for Jacking Pit A	6 days	15 Jun '20 20 Jun '20 HK Working Day	137	100% 15 Jun '20																			
	Jacking Pit A	130 days	17 Jul 20 31 Dec 20 HK Working Day 136		14% 17 Jul '20	NA							1	T.L.I.I										
	issue CE No. 32 - Additional Ground Treatment Works in Pit B in Wan Po Road near Wan O Road	0 days	31 Aug '20 31 Aug '20 Calendar Day		100% 31 Avg '20									÷ 31/8										
	Jacking / Receiving Fit B with additional ground grouting works		12 Aug '19 6 Feb '21 HK Working Day	154	21% 12 Avg 19	NA																		
	Receiving Fit C	298 days	29 Nov '19 30 Nov '20 HK Working Day		54% 29 Nov 19 05 NA	NA																		
	TBM Pipe Jacking (Pit A to Pit B)	293 days	15 Jul 21 11 Jul 22 HK Working Day			NA																		
	Establishment at Pit A	24 days	15 Jul '21 11 Aug '21 HK Working Day 156	143,150	0% NA	NA																		
	Jaiking DN1600 Precast Concrete Shere Pipe (Pi - Pit B) (L=240m; 4.5m/day)		12 Aug '21 16 Oct '21 HK Weeking Day 142,156	101,105																				
	Remove setup including thrust wall at Pit A	6 days	18 Oct '21 23 Oct '21 FK Working Day 143		0% NA	NA									1.11									
	Secup for Pipe Laying inside Jacking Pit B	5 days	18 Get '21 23 Get '21 HK Working Day 143	145	OK NA	NA																		
	DN1200 MS Pipe Laying inside Jacking pipe (240r (2 days per 4m)(Only internat Coating)		25 Oct 21 19 Mar 22 HK Working Day 145	147	05 NA	NA																		
	Formwork & Setup for Grouting the gap between pipe and Skerre		21 Mar '22 23 Mar '22 HK Working Day 346	148	0% NA	NA																		
	Grouting Works (30 metor/day) Pipe Laying brends and throst block construction Inside Jacking Pit A	R cays 30 days	24 Mar '22 1 Apr '22 HK Working Day 147 2 Apr '22 13 May '22 HK Working Day 148	162,149 151	0% NA 0% NA	NA NA													-					
	Engected CE No. XX - Special Type of Chamber fo Interface between Trencless Works and Open Co	O days	11 Aug '21 11 Aug '21 Calendar Day 142	151	0% NA	NA											• 11/8							
	Work near Jacking Pit A																							
	perrent No. 11 Tak New 2020 Sylt	Minsoe	Présthanuy 1 7     Tation Tak	In-cure Krimene	Stan. Deal			estáncia Rec -		teat		FrendTab		Dealine		Grad	tela		Manual Propers					



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Tack Name		Danim	Stat Finish	Tail Oleniar Psolocoom	Secusions % C	emplete //sctord 3	Ant Actual Pr	.307	2020 Q1 1, 2, 16	Qr 1.90	N ON	1,281	Ja 4. 200	289 Qc 1.30.9	Qr1.305	Qr.L200	Qr4,309	2:29 Qr 1, 200	Qr 2. 200	Ge 3. 2620 C	210 24,203 Qc1.2 2 Mer Do Jan He	El Qr2.8	12 Qr 1,2	0 (1 C 20)	201 0/1.222 Dec 16: Pet 1	Qi 1.302	Or J. MC	Qu 4, 2022 0 0.1 Not Dec 2	103 Qr1.203 Q Jac PO Ma A	er2.263 Qui es Mar Inn M	1.202 Qr 4.7 Aug Sup Oil F	105 Qr L 20 - Dec Jar Feb	Na An No
	Construction of Thrust Block between Trenchless 3 Works and Open Cut Work near Jacking Pit A	30 days	14 May '22 18 Jun '22	HK Working Day 149,150	152,131	0%	NA	NA		0.50.000		A1.01		C	a na na n											2000							
	Remove ELS and Reinstatement of Road works and 3 planter	18 days	20 Jan '22 11 Jul '22	HK Working Day 151		0%	NA	NA																									
1.00			8 Feb '21 16 Mil'22		Courses 14	0N	MO	NA																			7						
	Establishment at Pit B Incking DR1660 Precast Concrete Sieeve Pipe From 1 Pit B to Pit C (L+326 m; 3.5m/day)		8 Feb '21 10 Mer '21 11 Mar '21 7 Jul '21		195,161 156	0% 0%	NA NA	NA NA														H	-										
	Remove setup Including Thrust Well at Fit 8	6 days	8 Jul '21 14 Jul '21	HE Working Day 155	143,157,1	0%	NA	NA																									
	Setup for Pipe Laying Inside jacking Pit B	6 days	15 Jul 21 21 Jul 21	HE Working Cay 156	158	0%	NA	NA																									
	DN1200 MS Pipe Laying inside Jacking pipe (326m) 1 (2 days per 4m)(Only Internal Coating)	200 days	22 Jul 21 22 Mar 22	E HE Working Day 157	159	0%	NA	на																		•							
	farmwork & Secup for Growing the papiletween - 1 pipe and Sleeve	3 days	23 Mer '22 25 Mar '23	HE Working Day 158	160	0%	на	NA																									
	Growing Works (30 meter/day)	11 days	26 Mar '22 8 Apr '22	HK Working Day 159	162,191	0%	NA.	NA.																									
	Expected CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut Work near Jacking/Receiving FR 8	0 days	30 Mar '23 - 30 Mar '23	Calendar Day 354	162	015	RA.	NA														÷ 103											
	Construction of Special Chamber at Jacking 7 Receiving Fit B	60 daya		HI Working Day 148,160,161,18	15 163	0%	NA.	NA																									
П.,	Remove ELS including extracting sheat piles at Pit 8 8. Deinstatement of Road works and planter		25 Jun '22 16 Jul '22	HK Working Day 162		0%	NA	NA																									
0	ensisty: Wen Pa Road and Lonn Fark Road Issue CE No. 24 - Ground Investigation for Working Pit E, Fand Treachless Works across MT Tunnet	Lv89 days O days	7 Nev 17 11 Sep 22 27 Sep 19 27 Sep 19	Calendar Day	166	160% 27 5	lov/17 Sap'19 27 Si	isp '19								•	21/9																
6	Tender & Subletting	71 days		Calendar Day 165			51p'19 6D										-																
6		7 days	17 Feb '20 24 Feb '20		168		reb 20 24 F																										
		33 cays		HC Working Day 167			Feb '28 2 A											-			+ 310												
5	Obtain NTR's approval on the alignment and construction method about MTR's surrels TTA submission and Approval , Suspension of Parking	O days	31 Dec '20 31 Dec '20		172,171	275, 127	NA WE 20	NA												-													
	Meters and TTA Implement for Jacking Pit D																																
1	frontal of Vinduct Utilities Trough	30 days 30 days		HC Working Day 170	175	0%	NA	NA													I												
1		30 days		HK Working Day 172	175,175	0%	NA	NA													-												
÷ -		150 days		1 HK Working Day 173	182	016	NA	NA														-											
5	Issue CE Bo, 77 - Design of Water Main Structure and Modification Works to the Affected Geotechnical Features in Wan Po Road and Lohas Park Road	0 deys	21.0ct '20 21.0ct '20	0 Catendar Day	176	100% 21	Oct'20 210	Oct 20													◆ 21/10												
6	Submission for CE77	60 days	21 Oct '20 19 Dec '2	0 Calendar Day 175	177	0%	144	NA													-												
9		30 days		L Calendar Day 176	179	C196	NA	NA													-												
5	TPRP Appoval to: Tree at Slope Feature 125W-A/FR102	0 days	18 Jan '21 18 Jan '21	Calendar Day	195	6%	NA	NA													+3	n.											
F	Expected GE No. XX - Relocation of Working pits for Trendbless Works is Ware Po Road Juction with Lohas Park Road	0 days	18 Jas '21 18 Jan '21	L Calendar Day 172,171,177	180	0%	NA	NA													• 1	en.											
0		60 days		11 Calendar Day 179	196,210,2	0%	NA	NA																			_						
0		321 days 24 days	23 Aug '21 21 Sep '2 23 Aug '21 18 Sep '2	2 HK Working Day 1 HK Working Day 1/4	183,189,11	0% 0%	NA N5	NA NA																-									
9	ESTADISTINENT AT PILO DNLEUU Precast Concrete Sizeve Pipe (PILD - Pit C) (CHA19+26 to CHA22+80) in Sell (354m; 3.5m/dxy)			2 HK Working Day 182	184	ex.	N4	NA																									
1	Remove setup including Thrust Wall at Pit D	6 days		2 HK Working Day 183	185	0%	NA	NA																									
15		5 days		EK Working Day 184	185	0%	NA	NA																									
н	UN1 200 MS Pipe Laying inside Jacking pipe (354m) (say 2 days per 8m)(only Internal Coating)	50 days	10 Feb '22 1 Jun '22	FK Working Day 185	187	0%	NA	NA																									
17	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	2 Jun '22 6 Jun '22	HK Working Day 186	188	0%	NA	NA																									
13		12 days		2 HK Working Day 187	191,192	0%	NA	NA																+ 189									
89	Issue CE No. XX - Special Type of Chamber for Interface between Trendess Works and Open Cut Work near Receiving Pit C	Θ έλγε	18 Sep 21 18 Sep 2	11 Calendar Day 182	162,191	0%	NA	NA																* 189									
		Elona		winner i b								a kolke 🛌			niji			sil Telo		Deal			Cascal Sp			Nandfrige							

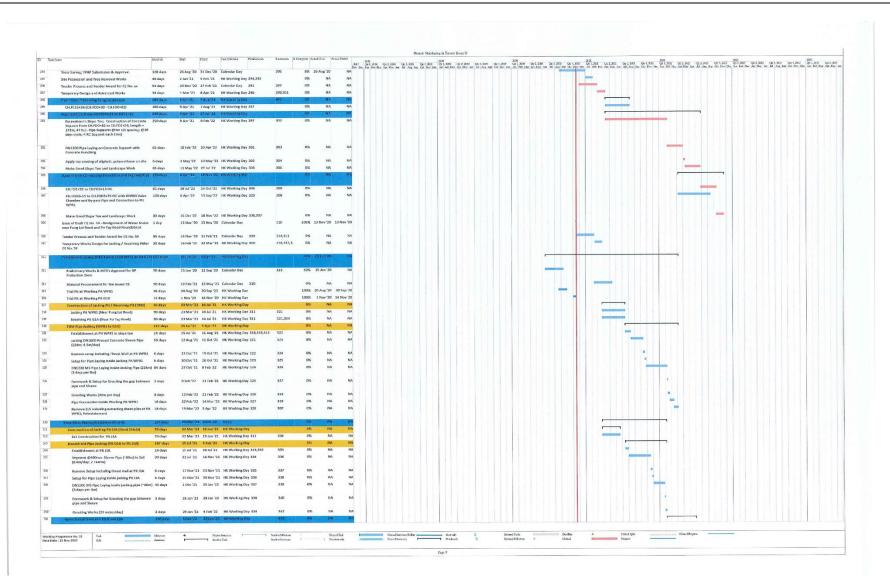


Tuk Nate		Duration	Statt Finish T	lak Olentar Probucesso	Successors 51 Ca	orghte Artoni St	et Actual F	stab .1
5	Issue CE No. XX - Special Type of Chamber for interface between Trencless Works and Open Cut	0 days	18 Sep '21 18 Sep '21 0	Calendar Day 182	162,192	0%	NA	NA
	Work near Receiving Pit D Construction of Special Chamber inside Receiving	60 days	11 Jun 21 - 20 Aug 22 - 1	% Working Day 188,185,160	193	0%	NA	NA
	PitC		21 Jun '22 30 Avg '22			075	NA	NO
	Construction of Special Chamber inside Receiving Pit D							
3	Remove ELS including extracting sheet piles at Pit C & Reinstatement of Road works and planter	18 days	31 Aug '22 21 Sep '22 H	K Working Day 191		0%	NA	NA
	Handshield Crossing Wen Po Read (CR. EAO) 15 to CH. FAO(50)	216 days	18 Jan '21 5 Jan '22 H	IK Working Day		0%	NA	NA
5	Tree Falling and Troc Works at Slope Feature 125W-A/FR102	30 days	18 Jan '21 24 Feb '21 H	iK Working Day 178		0%	NA	NA
8	Strengthen Works at Feature 125W-A/R37 & R28	45 days	20 Mar '21 17 May '71 H		197	0%	NA	NA
0		14 days	18 May '21 3 Jun '21 F		198 199	0% 0%	NA	NA
	Mild Steel Sleeve Pipe in Soil Mix (35m; 0.4m/day)	85 days	4 Jun '21 13 Sep 21 1	in working Day 197	13/3	0%		1944
99	Remove establishment	6 days	14 Sep '21 20 Sep '21		200	0%	NA	NA
00		6 days	21 Sep '21 28 Sep '21 )		201	0%	NA	NA
01	DN900 MS Pipe Laying inside Jacking pipe (35m) (say 3 days per 8m)	15 days	29 Sep '21 18 Oct '21 1	HK Working Day 200	202	0%	NA	NA
50	(say 3 days per am) Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	19 Oct '21 21 Oct '21 4	HK Working Day 201	203	0%	NA	NA
		2 days	22 Oct '21 23 Oct '21 1	HK Working Day 202	204	0%	NA	NA
0 11		2 days 60 days	25 Oct '21 23 Oct '21 1		204	0%	NA	NA
8	Vertical Pines, Executed Pices & Ramed Pices above		7 Nov '17 7 Nov '17 1		5	0%	NA	NA
	MTR Turnels (CH.FAD+50 to CH.FA0+85)							
0		30 days	6 Jan '22 12 Feb '22 1		207	0%	NA NA	NA
17 16		30 days 30 days	34 Feb '22 19 Mar '22 8 31 Mar '22 11 May '22 8		208	0%	NA	NA NA
36 50	Open cut pipe laying with concrete surround Hand Shield Pipe Jasking crossing Johas Park Road		31 Mar '22 11 May '22 1 20 Mar '21 30 Mar '22 1			0%	NA	NA
210		72 days	20 Mar 21 19 Jun 21 1			0%	NA	AN
n		72 days	20 Mer '21 19 Jun '21		213	0%	NA	NA
12		72 days	20 Mar 21 19 Jun 21			0%	NA	NA
813		14 days	21 Jun '21 7 Jul '21 1		214	0%	NA	NA
814	Mild Steel Sleave Pipe (Pit F - Pit E) in Soll Mix (40m; 0.4m/day)	100 days	8 Jul '21 4 Nov '21 1	HK Working Day 213	215	0%	NA	NA
215	Mild Steel Sleeve Pipe (Pit F - Pit G) in Soll Mix (20m; 0.4m/day)	50 days	5 Nov '21 5 Jan '22	HK Working Day 214	216	0%	NA	NA
200		6 days	6 Jan '22 12 Jan '22	HK Working Day 215	217	006	NA	NA
217	Setup for Pipe Laying Inside Jacking Pit F	G days	13 Jan '22 19 Jan '22		218	0%	NA.	NA
112	DNDOD M.S. Pipe Laying from Pit F to Pit E (40m) (say 3 days per 4m)	30 days	20 Jan '22 26 Feb '22	HK Working Day 217	219	0%	NA	NA
219	Modify Setup for Pipe Laying inside jacking Pit F		28 Peb '22 5 Mar '22		220	0%	NA	NA
2.30	DNB00 MS Pipe Laying from Pit F to Pit G (20m) (say 3 days per 4m)	15 days	7 Mar '22 28 Mar '22	HK Working Day 219	221	ax	NA	NA
221	Formwork & Satup for Grouting the gap between pipe and Sleeve	3 days	24 Mar '22 26 Mar '22	HK Working Day 220	222	0%	NA	NA
122	Grouting Works (30 motor/day)	2 days	28 Mar '22 30 Mar '22	HK Working Day 221	208,224	0%	NA	NA
223	Vertical Pipes, Exposed Pipes & Rumed Pipes above MTR Tunnels (CR.FA1+50 to CH.FA2+17)		20 Mar '21 11 May '22			0%	NA	NA
24	Vertical pipes with Concrete Serround	30 days	31 Mer '22 11 Mey '22	115 Working Day 222		0%	NA	NA
223	Exposed pipes with concrate surround	60 days	5 Jan '21 16 Aug '21	HE Working Day 226		0%	NA	NA
25	Open out pipe leving with concrete surround (CH.FA1+64 to CH.FA2+17)	60 days	20 Mar '21 4 Jun '21	HK Working Day 180	225	OK.	NA	NA
2	Mixed Dimenus	591 days	25./en '19 10.5ep.'19	Calendar Pay		80% 25-2	an 118	NO
229	Trial Pit Excevation for Pit 1 to Pit 20	462 days	20 Feb '18 10 Sep '19			100% 20 F		
229	Liaison with MTRC for works inside MTR Rai way Protection Zone		25 Jan '18 20 Nov '18			50% 25		NA
77	en Cut Excerntion, Pipe Leying and Reinstatement at D Landlill Stage 1 and TKO South Waterfront menade	1283 days	7 Nov '17 8 Mar '22	HK Working Day	610	5456 7 N	ov'17	NA
	true CE No. 36 - Realignment of Watermals along the	0 days	22 May '20 22 May '20	Calendar Day		300% 22 N	lay '20 22 1	May '20
	Bluminous Road adjacent to Lohas Park Road							
222	Issue CE No. 34 - Realignment of Watermain along TKC Stage I LandRII	0 days	5 Nov'19 5 Nov'19	Calendar Day		100% 5 N	lov 19 5	Nov '19
923	Open Cut from CHLF8G+34 to Pit F)	45 days	7 Nov '17 30 Dec '17	HK Working Day		0%	NA	NA



Task Nat		Disation	Start Furnh Tail: Cidendar Prodecessors	Soccesso	S Complete Actual Statt Annual Firlish	201 201 OLTAN GALAN GAL
		and the second	15 May 20 23 May 21 HKWorking Day	C10	25% 25 May 26 May 26	J GETATI
	TKC Lendfill State I Arca A (CH. 190400 to CH.1983+30 CH.190+00 - 0+38 CC with DN900 Valve Chamber and Wash out Pump Pit		14 Dec '20 37 Mar '21 HK Working Day 236	1.19	0% NA NA	
	CH. F80+38 - 0+70 CC	30 days	9 Nov'20 12 Dec'20 HK Working Day	235	0% 9 Nov '20 NA	
	CH. F80+70 - 1+02 CC	30 days	19 Oct '20 23 Nov '20 HK Working Day		90% 19 Oct '20 NA	
	CHL FB1+02 - 1+34 OC	30 days	12 Oct '20 16 Nov '20 HK Working Day		90% 12 Oct '20 NA	
	CH. F81+34 - 1+66 OC	30 days	5 Sep '20 12 Oct '20 HK Working Day 15 May '20 15 Oct '20 HK Working Day		95% 5 Sep '20 NA 100% 15 May '20 15 Oct '20	
	CH. FB1+65 - 2+05 OC CH. FB2+05 - 2+38 OC	128 days	15 May 20 15 Get 20 HK Working Day		100% 15 May 20 15 Oct 20	
	CH. FB2+05 - 2+38 OC CH. FB2+38 - 2+70 OC	104 days 83 days	9 Jul 20 15 Get 20 HK Working Day		100% 9 Jul 20 15 Oct 20	
	Ch. FB2+70 - 3+92 OC	30 days	27 Jul '20 29 Aug '23 HK Working Day		95% 27 Jul '20 NA	
	CH. FB3+02 - 3+34 OC	30 days	3 Aug '20 5 Sep '20 HK Working Day		95% 3 Aug '20 NA	
	CH. F83+34 - 3+65 OC	30 days	13 Aug '10 16 Sep '20 HK Working Day		95% 13 Aug '20 NA	
	CH. F83+66 - 3+98 OC	30 days	24 Aug '20 26 Sep '20 HK Working Day		95% 24 Aug '20 NA	
	CHL FE3+98 - 4+30 OC	58 days	LO Sep '20 13 Nov '20 HK Working Day		100% 10 Sep '20 13 Nov 20	
	CH. F84+30 - 4+52 OC	4G days	18 Sep '20 13 Nov '20 HK Working Day		100% 18 Sep '20 13 Nov 20	
F	CH. F84+62 - 4+85 OC	28 days	12 Oct '20 13 Nov '20 HK Working Day		100% 12 Oct '20 13 Nov '20	
	CH. F84+86 - 5+18 OC	30 days	14 Nov '20 18 Dec '20 HK Working Day	251	30% 14 Nov 20 NA	
	CH. F65+18 - 5+34 OC with ONGOD IT & DN300 Washout	75 days	19 Dec '20 23 Mar '21 HK Working Day 250	253	0% NA NA	
	TKO South Waterfront Premanada (CH, #CD+00 - 4+8	5 212-lays	25403 20 19 M 21 HAV/04018 Day	120	50% 257ea123 NA	
	CH. FC 0+00 - 0+33 DC	30 days	24 Mar 21 3 May 21 HC Working Day 251		0% NA NA	
6	CH. FC 0+33 - 0+65 DC	30 days	12 Jun 21 19 Jul 21 HC Working Day 267		0% NA NA	
	CH. HC 0465 - 0495 DC	24 days	26 Feb '20 G Apr '20 IIE Working Day		100% 26 Feb '20 6 Apr '20	
	CH. FC 0+95 - 1+27 OC	20 days	6 Apr '20 15 May '20 HK Working Day 15 May 20 19 Jun '20 HK Working Day		100% 6 Apr '20 15 May '20 100% 15 May '20 19 Jun '20	
2 8	CH. FC 1+27 - 1+59 GC	31 days	15 May 20 19 Jun 20 HK Working Day 19 Jun 20 15 Jul 20 HK Working Day		100% 15 May 20 19 Jun 20 100% 19 Jun 20 15 Jul 20	
	CH, FC 1+59 - 1+91 OC CH, FC 1+59 - 2+23 OC	21 days	15 Jul 20 15 Jul 20 HK Working Day	260	100% 15 Jul '20 17 Aug '20	
	CH. FC 2+23 - 2+55 OC	25 days	17 Aug 20 14 Sep 20 HK Working Day 259	261	100% 17 Aug '20 14 Sep '20	
	CH. FC 2423 - 2435 GC	38 days	14 Sep '20 30 Oct '20 HK Working Day 260	262	100% 14 Sep '20 30 Oct '20	
2	CHL FC 2+87 - 3+19 CC	31 days	30 Oct '20 4 Dec '20 HK Working Day 261	263	50% 30 Oct 20 NA	
2	CH. FC 3+19 - 3+51 OC	30 days	S Ltec '20 12 Jan '21 HC Working Day 262	264	0% NA NA	
4	CH. FC 3+51 - 3+83 OC	30 days	13 Jan '21 19 Feb '21 HC Working Day 263	265	0% NA NA	
£.,	CH. FC 3+83 - 4+15 OC	30 days	20 Feb '21 26 Mar '21 HC Working Day 264	265	0% NA NA	
6	CH, FC4+15 - 4+47 DC	30 deys	27 Mar '21 6 May '21 HK Working Day 265	267	0% NA NA 0% NA NA	
8	CH, FC 4+47 - 4+87 C	30 days	7 May '21 11 Jun '21 HK Working Day 266 2010ar '20 7 Asia: '21 HK Working Day	254	135 25 Mar 20 AZ	
	TKO state waterhant Premenace (Cit. 1988) - 195	ci dor pays	Zitur in cost of the transmitter			
10	CH. FC 4+87 - 5+19 OC with DN600 IT	72 days	24 Mar '20 22 Jun '20 HK Working Day		100% 24 Mar 20 22 Jun 20	
70	CH. FC 5+19 - 5+51 OC	29 days	22 Jun '20 27 Jul '20 HK Working Day	271	100% 22 Jun '20 27 Jul '20	
4	CH. FC 5+51 - 5+83 OC	32 days	27 Jul '20 1 Sep '20 HK Working Dey 270	272	100% 27 Jul '20 1 Sep '20	
2	CH. FC 5+83 - 6+15 OC	28 days	1 Sep '20 5 Oct '28 HK Working Dey 171	273	100% 1 Sep '20 5 Oct '20	
3	CH. FC 6+15 - 6+47 OC	27 days 38 days	5 Oct '20 5 Nov '20 HK Working Day 272 5 Nov '20 18 Dec '20 HK Working Day 273	274	100% 5 Oct '20 5 Nov '20 50% 5 Nov '20 NA	
1	CH, FC 6+47 - 6+79 DC CH, FC 6+79 - 7+11 DC	38 days sti days	5 Nov '20 18 Dec '20 HK Working Day 273 19 Dec '20 26 Jan '21 HK Working Day 274	275	0% NA NA	
8	CH. FC 5+79 - 7+11 OC CH. FC 7+11 - 7+43 OC	30 days	27 Jan '21 5 Mar '21 HK Working Day 275	277	0% NA NA	
17	CH. FC 7+43 - 7+75 OC	30 days	6 Mar '21 14 Apr '21 HK Working Day 276	278	0% NA NA	
8	CH. FC.7+75 - 8+07 OC	30 days	15 Apr 21 21 May 21 HK Working Day 277	279	0% NA NA	이 집에 다시 방법에서 이 방법에서 이 방법에서 이 것을 다니는 것을 다시 할 수도가 다시지 않는 것을 수 없는 것을 다시 않는 것을 다시지 않는 것을 다. 않는 것 않는 것을 것 않는 것을 다시지 않는 것을 다시지 않는 것을 다. 않는 것 않는 것 않는 것 않는 않는 않는 것 않는
9	CH. FC 8+07 - 8+39 OC	30 days	22 May 21 26 Jun 21 HK Working Day 278	280	0% NA NA	
0	CH. FC 8+39 - 8+71 OC	30 days	28 Jun 21 2 Aug 21 HK Working Day 279		016 NA NA	
	180 Land80.5 Hzge 1 Area 0 (CH, FC 8:73 - 13:25)	Sec days	10 Apr/20 8 Mar/37. His Working Day		34% 14 Apr 28 NA	
2	CH. FC 8+71 - 9+55 CC	90 days	17 Nov 21 8 Mar 22 HK Working Day 283	282	0% NA NA 0% NA NA	
3	CH. FC 9455 - 11490 OC with DN150 DAV	300 days	12 Nov '20 16 Nev '21 HK Working Day 284 7 Oct '20 11 Nev 20 HK Working Day	282 283	0% NA NA 82% 7 Oct *20 NA	
14 15	CH. FC 11+90 - 12+06 CC	30 days 68 days	7 Cict '20 11 Nev 20 HK Working Day 15 Jul '20 3 Oct '20 HK Working Day	205	95% 15 Jul 20 NA	
15 16	CH. FC 12+06 - 12+30 OC CH. FC 12+30 - 12+62 OC with Monitoring Chemics		15 Jun 20 13 Aug 20 HK Working Day		95% 15 Jun '20 NA	
87	CH. FC 12+62 - 13+02 OC	50 days	15 May 20 14 Jul 20 HK Working Day		95% 15 May 20 NA	
18	CH. FC 13+02 - 13+26 OC	28 days	14 Apr '20 18 May '20 HK Working Day		95% 14 Apr '20 NA	
89	Burned Pipe, Exposed Pipe, Trenchless Works From Lo Avenue to Po Tap Road Roundabout		20 Apr '20 16 Nov'22 HK Working Day	641	7% 20 Apr '20 NA	
					100% 17 Jun '20 17 Jun '20	+ 136
90	Issue CE No. 65 - Landscaping Survey near Po Yep an Pung Loi Rosid	d O days	17 Jun '20 17 Jun '20 Calendar Day			
84	Expected CE No. XX - Realignment of Water Mains e Fung Loi Road	ear O days	30 Nov '20 30 Nov '20 Calendar Day	295	05 NA NA	• \$61
292	XP Application; ELC/LandsD Approval	240 days	20 Apr '20 15 Dec '20 Calendar Day	295	21% 20 Apr '20 NA	
243	TTA preparation, SLG meetings and obtain RA	60 days	12 Aug '20 10 Oct '20 Calendar Day		10% 12 Aug '20 NA	







607.77 Part in Red-file Red-file Part of the Part of t	International Process North Pr	a Bays         33 Apr 23           5 days         4 Nov 22           5 days         4 Nov 22           6 days         1 Sour 22           5 days         1 Sour 24           5 days         1 Sour 25           10 days         1 Sour 20	22 Apr 22 IN Weeking Day 360 4 May 22 IN Weeking Day 362 23 May 22 IN Weeking Day 362 24 May 24 IN Weeking Day 363 23 May 24 IN Weeking Day 46 23 May 26 IN Weeking Day 13 May 26 Calcular Day 24 May 26 Calcular Day 25 May 26 Calcular Day 25 May 26 Calcular Day 25 May 26 Calcular Day 25 May 27 Calcular Day 25 May 26 Calcular Day 25 May 27 Calcular Day 25 May 26 Calcular Day 25 May 26 Calcular Day 26 Jan 26 Calcular Day 27 May 27 Calcular Day 28 May 28 May 28 Calcular Day 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 28 May 2	343 344 345 346 642 353,359 365 365 265 267 860 267 860 267 860 267 860 267 860 267 860 267 860 267 860 267 861 362 363	0%         N           0%         N           0%         N           0%         N           0%         N           0%         N           100%         N           100%         1 Am 7           100%         2 Am 7           100%         2 Am 7	40. 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
607.77 Pape in Constant Rahababa Rahaba Rahababa Rahaba Rahaba Rahaba Rahaba Rahabab	nc) exploy from TRES to TRESTA exploy from TRESTA TRESTA SUBJECT Exploy from TRESTA TRESTA Exploy from TRESTA TRESTA Exploy from TRESTA TRESTA Exploy from TRESTA Exp	a Bays         33 Apr 23           5 days         4 Nov 22           5 days         4 Nov 22           6 days         1 Sour 22           5 days         1 Sour 24           5 days         1 Sour 25           10 days         1 Sour 20	4 May '22         18 Working Eay 342           2 May '24         18 Working Eay 344           2 May '25         18 Working Eay 344           2 May '26         Checker Day 344           2 May '26         18 Working Eay 344           2 May '26         Checker Day 344           2 May '26         Checker Day 344           2 May '26         18 Working Eay 344           2 May '26         18 Working Eay 345           2 May '26         18 Working Eay 345           2 May '26         18 Working Eay 345	315 316 612 351,359 305 305 305 305 305 307 800 361 362	05         N           05         18           075         18 Movie 1           1005         13 Jan 2           1006         33 Jan 2           1007         13 Jan 2           1008         13 Jan 2           1005         13 Jan 2           1005         13 Jan 2           1006         13 Jan 2           1007         14 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2	40. 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
Constant Beddingson Development Sector Development	monitation of Hours Hack Keine PR v 198, 216         50           Mill Transhara Hours Hours 100         50           Mill Transhara Hours 100         50           Mill Transh	S days         A May 22           S days         A May 22           S days         A May 22           S days         A May 23           S days         A May 24           S days         S May 26           S days         S May 26           S days         S May 26           S days         S May 27           S days         S May 20           S days <t< th=""><th>21 May 22 H8 Working Up 24 H 24 May 22 H8 Working Up 24 25 Jan 25 H8 Working Up 24 26 Jan 26 H8 Working Up 24 26 Jan 26 Calcular Up 2 26 Jan 26 Calcular Up 2 27 Jan 26 Calcular Up 2 27 Jan 26 Calcular Up 2 28 Jan 26 Calcular Up 3 28 Sp 20 Calcular Up 3 28 Sp 20 Calcular Up 3 27 Jan 26 Calcular Up 3 27 Jan 26 Calcular Up 3 28 Sp 20 Calcular Up 3 29 Jan 26 Calcular Up 3 20 Jan 26 Cal</th><th>315 316 612 351,359 305 305 305 305 305 307 800 361 362</th><th>05         N           05         18           075         18 Movie 1           1005         13 Jan 2           1006         33 Jan 2           1007         13 Jan 2           1008         13 Jan 2           1005         13 Jan 2           1005         13 Jan 2           1006         13 Jan 2           1007         14 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2</th><th>40. 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0</th></t<>	21 May 22 H8 Working Up 24 H 24 May 22 H8 Working Up 24 25 Jan 25 H8 Working Up 24 26 Jan 26 H8 Working Up 24 26 Jan 26 Calcular Up 2 26 Jan 26 Calcular Up 2 27 Jan 26 Calcular Up 2 27 Jan 26 Calcular Up 2 28 Jan 26 Calcular Up 3 28 Sp 20 Calcular Up 3 28 Sp 20 Calcular Up 3 27 Jan 26 Calcular Up 3 27 Jan 26 Calcular Up 3 28 Sp 20 Calcular Up 3 29 Jan 26 Calcular Up 3 20 Jan 26 Cal	315 316 612 351,359 305 305 305 305 305 307 800 361 362	05         N           05         18           075         18 Movie 1           1005         13 Jan 2           1006         33 Jan 2           1007         13 Jan 2           1008         13 Jan 2           1005         13 Jan 2           1005         13 Jan 2           1006         13 Jan 2           1007         14 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         10 Jan 2           1008         24 Jan 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2           1008         24 Mov 2	40. 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0
Backli Backli Demokdar Demokdar Demokdar Demokdar Backling Demokdar Demokda	Alid Tynech and Persone 115 99.00000000000000000000000000000000000	36 days         24 days         24 days         25 an 72           260 days         13 han 72         26 days         13 han 72           260 days         13 han 72         26 days         13 han 72           2 days         13 han 72         26 days         13 han 72           2 days         20 days         18 favr 13         26 days         20 days           2 days         20 days         18 favr 13         26 days         28 days         20 an 72           2 days         10 days         10 han 72         10 han 72         27 days         11 han 72           2 days         10 days         10 han 72         28 days         11 han 72         22 days         13 han 72           2 days         10 days         11 han 72         24 days         13 han 72         24 days         13 han 72           14 days         10 days         20 favrs         13 favr         25 days         13 han 70           14 days         10 han 70         10 han 70         10 han 70         10 han 70	14 Jan 22         14 Working Day 244           23 Jan 27         16 Working Day 245           23 Jan 27         16 Working Day 245           23 Jan 27         16 Working Day 245           23 Jan 26         Calendar Day           23 Jan 26         Calendar Day           24 Jan 26         Calendar Day           24 Jan 26         Calendar Day           24 Jan 27         16 Working Day           25 Jan 27         Calendar Day           24 Jan 28         Calendar Day           25 Jan 29         Calendar Day           26 Jan 20         Calendar Day           27 Jan 20         Calendar Day           28 Jan 20         Calendar Day           29 Jan 20         Calendar Day           20 Jan	346 642 351,359 365 355 355 267 360 267 361 361	05         N.           05         N.           375         J. M. Y.           1005         J. J. M. Y.           1006         J. J. M. Y.           1005         J. J. M. Y.           1006         J. J. M. Y.           1005         J. M. Y.           1006         J. M. Y.           1005         J. M. Y.           1006         J. M. Y.           1007         J. M. Y.           1008         J. M. Y.           1005         J. M. Y.           1006         J. M. Y.           1007         J. M. Y.           1008         J. M. Y.           1009         J. M. Y.           1009         J. M. Y.           1009         J. M. Y.	40 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.
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Cour Parn Trea Trea Pit N Mob Tree	unditors em Temporary Vehicle Access at TKO Sport Groend 5 d en Transplaating Working & Tree Removal Works at 10 10 Sport Ground (CE No. 28) en Emmine Working for décine Steemile at 25 M. 3 d	5 days 1 Jun 20 10 days 9 Jun 20	8 Jun '20 HK Working Day 350 19 Jun '20 HK Working Day 351	362	100% 1 Jun '2	20 <b>8</b> Jun '20
Trea TKD Trea Pit N Mob Trea	eo Transplaating Working & Tree Removal Works at 10 10 Sport Ground (CE No. 28) 25 Ecuring Working for désing Steethile at Pit M. 3 d	10 days 9 Jun '20	19 Jun '20 HK Working Day 351		850 M. 15000 C	
Tree Fit N Mob	ID Sport Ground (CE No. 28)			363	100% 9.0un '2	
Fit N Mob Tree	ee Pruning Working for driving Sheetpile at Pit M, 3 d	a days 20 los '20	the second se			20 19 Jun 20
Tree			23 Jun '20 HK Working Day 362	364	100% 20 Jun '2	
Tree	obilization of Sheet-piles and Driving Machines 7 d		3 Jul '20 HK Working Day 363	371,369	100% 24 Jun 7	
Dem	ee Survey along Cycle Track; TPRP Approval; Tree 12 emoval Works along Cycle Tracks (Ce No. 28A)	120 days 30 Jun '20	20 Nov 20 HK Working Day 350		90% 30 Jun "2	20 NA
		181 days 4 Jul 20	6 Feb '21 HC Working Day	A DE CARA	528 4 Jul '2	20 NA
			0 6 Feb '21 HK Working Day 358	374	15% 14 Nov'2	
			18 Jan '21 HK Working Day 369	374,382	39% 24 Oct '2	20 NA
			23 Oct '20 HK Working Day 364	368,386,3	100% 11 Jul '7	
			30 Oct '23 HK Working Day	386FS-14 (	100% 30 Jul 7	
			5 Dec 20 HK Working Day 364	378,390	40% 4 Jul 1	
			7 Jan '21 HK Working Day 356	378	30% 3 Aug 12	20 NA
	Contraction of the second s		2 Jun 21 HK Working Day 26 Feb 21 HK Working Day 367,358	394		NA NA
	Establishment at Pit L 54 Segment @400mm Skeve Pipe (Pit L to Pit K)[~ 70		26 May '21 HK Working Day 374	375		NA NA
5	Segment gradown Steve Pipe (NLL to PLL)(* 70 S6m) in Soil (0.8m/day)					
			1 2 Jun '21 HK Working Day 375			NA NA
		75 days 8 Apr *21	8 Jal 21 HK Working Day	424,463		NA NA
			6 May 21 HK Working Day 372,371,389			NA NA
6	DN1600 Precast Concrete Sizeve Pipe (Pft P - Pit O) 45 (200m) in Soil (4.5m/day)		30 Jun '21 HK Working Day 378	383		NA NA
	Remove setup including thrust wall at Pit P 6		8 Jul '21 HK Working Day 375			NA NA
TBN trip	BM Pipe Jacking (Pit M to Pit L) (5 Days a week, 4 – 68 ia per days)	68 days 19 Jan '2	15 Apr 21 HK Working Day	400	0% P	NA NA
			18 Feb '21 FK Working Day 385,398,369			NA NA
0	DN1000 Precast Concrete Sieeve Pipe (Pit M - Pit I) 34 (CH.GAC+09 to CH.GAI+80) in Soil (171m; 4.5m/day)	38 days 15 Feb 2	1 8 Apr 21 FK Working Day 382	381	05 7	NA NA
	Remove setup including thrust wall at Pit M 6	6 days 9 Apr 21	15 Apr '21 HK Working Day 383		0% /	
THE	EM Pipe Jacking (Fit N to Fit N) (5 Days a week, 4 5		0 2 Jan '21 HK Working Day	382,407,3		NA NA
trip	rip pur days)					1000
F	Establishment at Pit M 2/	24 days 24 Oct 2	0 21 Nov 20 HK Working Day 369,3/UFS-14	4 da 38/	0% 1	NA NA
Ning Programme ( a Date : 15 Nov 29	te No. 11 Tal	Meters +	Prestformen i i i	Instite Milenne Instite National	i	Metal Tak Destroyety



1 te	DNL600 Precast Concrete Steeve Pipe (Pit M - Pit N) (CH GA1+16 to CH.GA3+20) in Soil (134m; Sm/day)	Databan	Stat Piad Tak Cicular Preference	Sausas 20	makte Autod Ste											30	-		212*	
1 te	N) (CH.GA1+86 to CH.GA3+20) in Soil (134m;					in solution	2007 Q: 1. 2018 Qr 2. 2028 0	(5-3, 308) (5-4, 209) (5-3, 209) (5-4, 209)	Qr 2.209 Qr 3.209 Qr	4,303 Qr 1,2020 Qr	2.300 Qr 7.200 Qr 4.20	201 Q: 1.302. Q:	2.201 Qr 3.201 Q	C3011 Q5 1, A01	Q12,342 Q13,32	9 QE-5,202 QE	., 2023 Qu 2, 2023	Q13.2025 Q1*	2029 Qir 1, 202	1.5
1 te		27 days	23 Nov '20 23 Dzc '20 HK Working Day 366	388	0%	NA	, Nov Do, Jat, Hell Mar, Apr, Mar, Jak N	lal Aug Sep Ot Nov, Dec Jan Nev 1	let Apr. Nav. Fen. Alf. Ang. Hep. Chi	illen Der für seh Mar Apr	the he he he her by the bo	e De, Jar Rel Ma Au	Ho In In Ass Sup C	t Nov Doc Jan 1995 Mar	Art Nov Jun Jal Ave	by the best to	He and she way a	a su se se or	NOV DEL LA PAR E	102.70
te	Remove setup including thrust wall at Pit M	6 days	24 Dec '20 2 Jan '21 HK Working Day 387		0%	NA	A													
	BM Pipe Jacking (Pit O to Pit N) (5 Days a week, 4 o per days)	74 days	G Jan '21 7 Apr '21 HK Working Day	415,378	05	NA														
	Establishment at Fit O	24 days	4 Jan '21 30 Jan '21 HK Working Day 370,371,385	391	0%	NA	4					-								
	DN1500 Precast Concrete Sleeve Pipe (Pit 0 - Pit N) (CH.GA3+13 to CH.GA5-08) in Soll (195m; 4.5m/day)		1 Feb '21 26 Mar '21 HK Working Day 390	392	0%	NA	a					-								
		6 days	27 Mar '21 7 Apr '21 HK Working Day 391		05	NA	4													
D		E6 days	3 Jun '21 13 Sep '21 HK Working Day	ALL DO DO DO	0%	NA	•													
		6 days	3 Jun '21 9 Jun '21 HK Working Day 373	305	0%	NA	A													
	DN1200 MS Pipe Loying inside jacking pipe (S6m)	30 days	30 Jun '21 16 Jul '21 HK Working Day 391	396	0%	NA	A						-							
	(2 days per 4m) (Only Internal Coating)					NA	A													
	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	17 Jul 21 20 Jul 21 HK Working Day 395	397	0%															
		2 days	21 Jul 21 22 Jul 21 HK Working Day 396	398	0%	NA	A						1							
	Construction of DN900 Valve Chamber and DN150 By-pass Pipe & Valves Near Pit K	45 days	23 Jul 21 13 Sep 21 HK Working Day 397		0%	NA	A						-							
_		145 days	16 Apr '21 8 Oct '21 HK Working Day	-	0%	NA						,								
		145 days	16 Apr 21 27 Apr 21 HK Working Day 381	401	0%	NA														
	DN1200 MS Pipe Leying inside jacking pipe (171m) (2 days per 4m)(Only Internal Coating)		28 Apr '21 14 Aug '21 HK Working Day 400	402	0%	NA	٨													
	Formwork & Setup for Grouting the gap between pipe and Sleave	3 days	16 Aug '21 18 Aug '21 HK Working Day 401	403	0%	NA	Δ						4							
		6 days	19 Aug '21 25 Aug '21 HK Working Day 402	404,411	095	NA	A													
		12 days	26 Aug 21 8 Sep 21 HK Working Day 443	405	0%	NA	^													
	Remove ELS including extracting sheet piles at Pit L: Reinstatement of Cycle Track and plaster	24 days	9 Sep 21 8 Ort 21 HK Working Day 464		0%	NA	A													
		256 days	4 Jun '21 13 Nov '21 HK Working Day     4 Jun '21 9 Jun '21 HK Working Day 385	408	0%	NA NA	A													
	Setup for Pipe Laying Inside Jacking Pit N DN12DD MS Pipe Laying Inside Jacking pipe (134m)	6 days	4 Jun 21 9 Jan 21 HK Working Day 385 11 Jun 21 23 Feb 21 HK Working Day 407	408	0%	NA NA	^					-								
	[2 days per 8m](Only Internal Coating)	- Steals	the second s	10000	2001	-														
	Formwork & Satup for Grouting the gap between pipe and Sleeve	3 deys	24 Feb '21 Zb Feb '21 HK Working Day 408	410	0%	NA	^													
		5 days	27 Feb *21 4 Mar *21 HK Working Day 409	411,419	0%	NA	A					1								
		12 days	26 Aug '21 8 Sep '21 HK Working Day 403,410	612 613	0%	NA	A													
	Construction of IT Chamber at Pit M Remove ELS Including extracting sheet piles at Pit	30 days	9 Stp '21 16 Oct '21 HK Working Day 411 18 Oct '21 13 Nov '21 HK Working Day 412	e13	0%	NA	^													
	M& P.E.N; Heinstatement of Cycle Track and planter	Se mate	10 OCL ST TO HOA ST HIM MORAE ONLATS		0.0															
	IN12:00 Pipelaying (Pit Ci to Pit N)	182 days	8 Apr '21 13 Nov '21 HK Working Day		0%	NA	A					-		7						
		6 days	s Apr '21 14 Apr '21 HK Working Day 389	416	016	NA	A In			5) I 195										
	DH1200 MS Pipe Laying inside jacking pipe (195m) (2 days per 8m)(Only Internal Coating) Formwork & Setup for Grouting the gap between		15 Apr '21 15 Jun '21 HK Working Day 415	417	0%	NA	ia.													
	Formwork & Setup for Grouting the gap between pipe and Sleeve	a cuys	TOTOL ET 19 JUL 21 DE LONNEL DAY 419																	
		7 days	19 Jun '21 26 Jun '21 HK Working Day 417	419,421	0%	NA	IA													
		12 days	28 Jun '21 12 Jul 21 HK Working Day 410,418	420	0%	NA	A						-							
	Remove ELS including extracting sheet plies at Pit N; Reinstatement of Cycle Track and planter	24 days	13 Jul 21 9 Aug 21 HC Working Day 419		006	NA	IA													
		12 days	2 Oct '21 36 Oct '21 HK Working Day 427,418	422	055	NA	iA.													
	Remove #15 including extracting sheet piles at Pit		18 Oct '21 13 Nov '21 HK Working Day 421		0%	NA	10							-						
	O; Reinstatement of Cycla Track and planter								I DI LEL											
1	on 1200 Pipelaying (Pit O to Pit P)	71 days	9 Jul 21 30 Sep 21 HK Working Day		0%	NA	14													
	Setup for Pipe Laying inside jacking Fit O	6 days	9 Jul 21 15 Jul 21 HK Working Day 377 16 Jul 21 17 Sep 21 HK Working Day 424	425	0%	NA	u .													
	ON1200 MS Pipe Laying inside jacking pipe (200m (2 days per 8m)(Only Internal Costing)	4 92 Gails	away as 17 Mp 21 Pe working bay d26	420	w/e		142 1 0 1 0													
	Formwork & Setup for Grouting the gap between pipe and Slowe	3 days	18.5ep '21 21.5ep '21 HK Working Day 425	427	0%	NA	и													
		7 days	23 Sep '21 30 Sep '21 HK Working Day 426	421	0%	NA	25	막 월 1 월 13												
Tren to Pi	bless Work from KMB Depot to Po Heng Road (PR B)	P 515 days	3 Aug '20 29 Apr '22 HK Working Day	642	25% B.A	ug '20	66													
lss Lo	ue CE No. 51 - Realignment of Water Main in Tsui m Section	0 days	3 Aug '20 3 Aug '20 Calendar Day	435,431,9	100% 3 A	ugʻ20 3 Au	20				* 3/1									
	n Section	o Caly	Pointienus	IssueNilstor	1007 37	Hamid Tak	Mend for:			Etore Cole	Defer		Onsol Split		KnalPores					

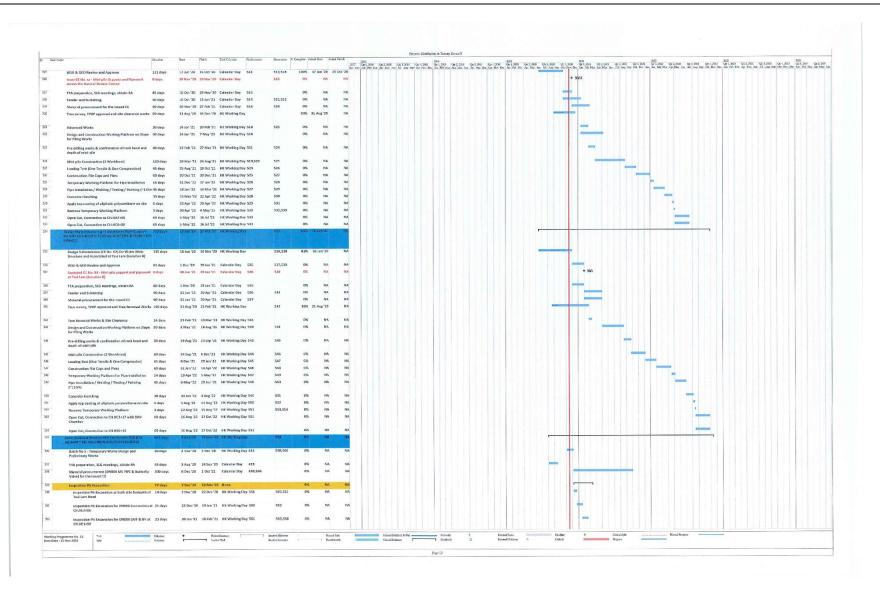


								Project: Mulabrium in Torum Koon O
TakNa	n.	Duration	Stati Finiti Tak Cilendar Pitole	usen Saunes 9	Couplete Actual	Sint Ashall	uist 2	
	Issue WSD Letter Ref.: (4) in WSD/M/7503/15/WSD/16/M15/300/51 for aditional works to CE No. 51	0 days	3 Sep '20 3 Sep '20 Calendar Day	558	100% 3	Sep 20 3 5	ep '20	
	Tendering Process, Tender Award for Ct No. 51 (Batch No. 1)	82 days	3 Aug '20 23 Oct '20 Calendar Day 429	438,453,4	100% 3	Avg 20 23 0	Det '20	
	Tendering Process, Tender Award for CE No. 51 (Batch No. 2)	102 days	3 Aug '20 12 Nov '20 Calenda: Day 429	454	100% 3	Avg 20 12 N	lev *20	
,	Tendering Process, Tender Award for CE No. 51 (Batch No. 3))	S0 days	3 Aug '20 31 Oct '20 Calenda: Day 429	4\$7,556	5% 3	Avg '20	NA	
4	Tendering Process, Tender Award for CE No. 51 (Location A Mini-pTe Works)	90 days	26 Aug 70 23 Nov 70 Calendar Day	435	50% 26	Aug 20	NA	
8	Tendering Process, Tender Award for CE No. 51 (Location B Mini-pile Works)	60 days	24 Nev 20 22 Jon 21 Calendar Day 434		0%	NA	NA	
36	TTA preparation, SLG meetings, obtain RA and Implement Advanced Works	100 days	3 Aug '20 10 Nov '20 Calendar Day 429	438	50% 3	Aug '20	NA	
32	Material Submission, Procurement of top cost of alignatic polyurethance for exposed pipes	120 days	1 Nov '20 28 Feb '21 Calendar Day 433		0%	NA	NA	
438		128 days	11 Nov '20 20 Apr '21 HK Working Day 436	431	0%	NA	NA	
30	Inspection Fit Excavation at Pit II	14 days 93 days	15 Dec '20 2 Jan '21 HK Working Day	441	0%	NA	NA	
40 41	Construction of Receiving Pit R Construction of Receiving Pit R	90 days	6 Jan '21 Zo Opr'24 H5 Working Day 4 Jan '21 26 Apr'21 H6 Working Day 439	443	0%	NA	NA	
2	TEM Pipe McKing (PA # to Pit #) accrossing KMB Oxports, Po Hune Read	t ZAO dirys	9 Jul 21 Zähler 22 Bit Working Pag		9%	190	tiA	
0	Establishment at Pit P	15 days	9 Ad 21 26 Jul 21 HK Working Day 441	377 444	0%	NA	NA	
4	DN16CD Precast Concrete Sleave Pipe (Pit P - Pit R) (say 248m) in Soil (4m/day)	62 days	27 Jul '21 8 Oct '21 HK Working Day 443		0%	NA	NA	
e -	Remove setup including thrust wall at Pit P	6 days	9 Oct '21 16 Oct '21 HK Working Day 444	d46	0%	NA	NA	
	Setup for Pipe Laying laside jacidng Fit Q	6 days	18 Oct '21 23 Oct '21 HK Working Day 445	447	0%	NA	NA	
	DN1200 MS Pipe Laying inside jacking pipe (248m) (2 days per 8m)(Only Internal Coating)	70 days	25 Oct '21 17 Jan '22 HK Working Day 446	448	0%	NA	NA	
	Formwork & Setup for Grauting the gap between pipe and Skeve	3 days	18 Jan '22 23 Jan '22 HK Working Day 447	449	0%	NA	NA	
	Grouting Works (30 meter/day)	9 days	21 Jan '22 31 Jan '22 HK Working Day 448		0%	NA	NA	
	Pipe connection Inside Pit P	9 days	4 Feb '22 14 Feb '22 HS Working Day 449		0%	NA	NA	
	Construction of Combined Inspection and Washout Chamber Type II at Pit P	60 days	15 Feb '22 29 Apr '22 HK Working Day 450		6%	NA	NA	
	Open Trench from Pit R to Pit 5 & Trenchless Works from Pit 5 to Pit T	n 524 deys	3 Aug '20 32 May '22 HK Working Day	642	1% 3	Aug '20	NA	
3	Batch No 1 - Temporary Works Design and Proliminary Works	30 days	24 Oct '20 28 Nov '20 HK Working Day 431	456,473	0%	NA	NA	
94	Batch No 2 - Temporary Works Design and Preliminary Works	30 days	13 Nov '20 17 Dec '20 HK Working Day 432	474,479,41	0%	NA	NA	
55	Material Procurement for the issued CE	50 days	3 Aug '20 12 Jan '21 Calendar Day 431		10%	Aug '20	NA	
56	Inspection Pit Expanation at Pit 5 & Pit T	34 days	30 Nov '20 15 Dec '23 HK Working Day 453		0%	NA	NA	
8	Construction of Faiking Pits Pit 5 at CILLIA0430	60 days	16 Dec '20 2 Mar '23 Het Working Day 16 Dec '20 2 Mar '21 HK Working Day 456	461	0%	NA NA	NA	
69	Pit T at CH.HA0+80	60 days	16 Dec '20 2 Mar '21 HK Working Day 450		0%	NA	NA	
60	Handsteeld Pipe Jerking (PitS to Pit 3)	352 days	3.0011'24 12.002y'22 B4 Washing Day	459 462	0% 0%	NA NA	119	
61 162	Establishment at Pit S Mild Steel Sleeve Pipe in Mix of Soil & Rock (0.2m/	14 days 125 days	3 Mar '21 18 Mar '21 HK Working Day 458 19 Mar '21 20 Aug '21 HK Working Day 463		0%	NA	NA	
9	day; two teams)	6 days	21 Aug '21 27 Aug '21 HK Working Day 46		0%	NA	NA	
63	Remove Setup including Thrust Wall at Pix S Setup for Pipe Laying inside Jacking Pit S	é days 6 days	21 Aug '21 27 Aug '21 HK Working Day 46 28 Aug '21 3 Sep '21 HK Working Day 46		0%	NA	NA	
65	DN1200 M3 Pipe Laying inside Jacking Pipe (2 days per 4m stps](Only internal Coating)		4 Sep '21 11 Oct '21 HK Working Day 464		0%	NA	NA	
46	per 4m pipe)(Only internal Coating) Formwork & Setup for Grouting the gap between pipe and Sleave	3 days	12 Oct '21 15 Oct '21 HK Working Day 465	5 467	0%	NA.	NA	
4(7		2 days	16 Oct '21 18 Oct '21 HK Working Day 464	468,469	0%	NA	NA	
408	Construction of Combined Inspection and Washout		19 Oct '21 29 Dec '21 HK Working Day 46		6%	NA	NA	
39	Chamber Typo I at Pit S Install Inspection Tree at Pit T and Construction of	d5 days	19 Oct '21 9 Dec '21 HK Working Day 46	,	0%	140	NA	
	Chamber							
4'0	Open Cut, between Pit R and Pit S with inspection T and Washout Chamber at Pit R	ee 105 days	30 Dec '21 12 May '22 HK Working Day 46		0%	NA	NA	

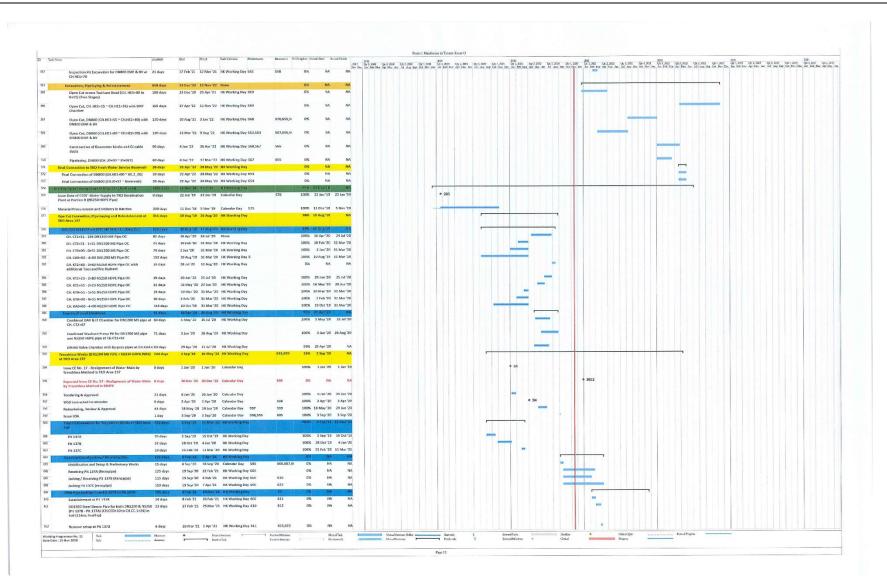


Abando North Wat Cr Ie Cl 24 Cl	ut Excevation, Pipe Laying and Reinstatement at and Road / Maia Wa Tsi Village / Pa Lam Road Trengh Piperlaying at Altriminan di Road & Maia Gal Villaga		7 Nov '17 12 Nov '22 HE Wen	rking Day		6% 7 N	lov '17	Na	2005 Qr L 2018 L Jan Peb Mar
00 le 024 0	nad Willarge	Kat days							
0 1e 24 0		and a start	10 Nov '10 25 Pag '22. HK Wor	Hing Day	692	0%	776	NA	
0 24 0	ngth) (Option C)	513 days	30 Nor '20 25 Aug '22 HK Worl	king Day 453		0%	NA	NA	
	LHAR+75 to HAS+55 (Depth < 2.5m, each TTA -30m langth) (Option G) with Construction of DAV amber	270 days	18 Dec '20 17 Nov '21 HK Wor	rking Day 454	511	0%	NA	NA	
		412.days	16 mas 120 13 May 22 HK Wor	NIGE ONY	692	8%	16A	0.0	
in	spection Pit Excavation		16 Dec '20 6 Jan '21 HK Wor			016	NA	NA	
			16 Dec '20 4 Jan '21 HE Wor			0%	NA	NA	
			16 Dec '20 4 Jan '21 HK Wor 18 Dec '20 6 Jan '21 HK Wor		482,483 484	0%	NA	NA	
			18 Dec 20 6 Jan 21 HK Wor		485	016	NA	NA	
			5 Jan 21 20 Mar 21 HK Wor			0%	NA	NA	
			5 Jan 21 18 Mar 21 HK Wor		487	0%	NA	NA	
			5 Jan 21 18 Mar '21 HK Wor		487	OK:	NA	NA	
			7 Jan '21 20 Mar '21 HK Wor		499	0%	NA	NA	
			7 Jan '21 20 Mar '21. HK Wor		499	OK.	NA	NA	
	and Shield Pipe Jacking from Pit U to Pit V (~30m)		19 Mar 21 30 Jan 22 HK Wor		488	0%	NA	NA	
	Establishment at Pit U Mild Steel Sleeve Pipe in Mix of Soil (0.4m / day)	34 days 35 days	19 Mar 21 8 Apr 21 HK Wor 9 Apr 21 9 Jul 21 HK Wor		488	0%	NA	NA.	
	Mild Steel Sleeve Pipe in Mix of Soll (D.Am / day) Remove Setup including Thrust Wall at Pit U		10Jul/21 16 Jul 21 HC Wor		450	076	NA	NA	
		6 days	17 Jul'21 23 Jul 23 HK Wor		491	0%	NA	NA	
	DN1200 MS Pipe Laying inside Jacking Pipe (3 days per 2m)	45 days	24 Jul '21 14 Sep '21 HK Wor	vking Day 490	492	0%	NA	NA	
	Formwork & Setup for Growting the gap batusen pipe and Sleeve		15 Sep '21 17 Sep '21 HK Wor		493	0%	NA	NA	
			18 Sep '21 20 Sep '21 HK Wei 21 Sep '21 15 Nov '21 HK Wei		494,436	0%	NA NA	NA	
	Construction of Washout Chamber at Pit U Opan Cut, connecting Cit. HA3+45 to DN1200 pipe		21 Sep '21 15 Nov '21 HK Wo 16 Nov '21 10 Jan '22 HK Wo		495	0%	NA	NA	
	Opan Cut, connecting CH. HA3+45 to DN1200 pipe end at Pit U with Inspection Tee at Pit U		ACTION AN LONGIN 22 MR WOI						
	Install Inspection Tree at Pit V and Construction of chamber	45 days	21.5ep '21 15 Nov '21 HK Wor		497	0%	NA	NA	
•	Open Cut, cornecting CH. MA3+75 to DN1200 plp end at Pit V		16 Nov '21 28 De: '21 HK Wo			СЖ	NA	NA	
• •	land Shield Pipe Jacking from Fit W to Fit X (*85m)		22 Mar 21 13 May 22 HK Wo			6%	NA	NA	
,			22 Mar '21 10 Apr '21 HK Wo		500	0%	NA	NA	
	Mild Steel Slouve Pipe in Mix of Soil (0.4m / day)		12 Apr '21 10 Aug '21 HK Wee 11 Aug '21 17 Aug '21 HK We		501	0%	NA	NA	
	Remove Setup including Thrust Wall at Pit U Setup for Pipe Laying inside Jacking Pit U	6 days 6 days	11 Aug 21 17 Aug 21 HK Wo 18 Aug 21 24 Aug 21 HK Wo		502	6%	NA	NA	
	Setup for Pipe Laying inside Jacking Pipe (2 days per 4m)(Only Internal Coating)		25 Aug 21 23 Sep 21 PK Wo		504	676	NA	NA	
£	Formwork & Setup for Grouting the gap between pipe and Sleeve	3 days	24 Sep '21 27 Sep '21 HK Wa		505	0%	NA	NA	
5		2 days	28 Stp '21 29 Sep '21 HK Wo		505,508	0%	NA	NA	
6		6 cinys	30 5tp '23 7 Oct '21 HK Wo		507	0%	NA	NA	
17	Open Cut, connecting CH. HAS+SS to DN903 pipe end at Pit W	75 days	8 Det '21 7 Jan '22 HK Wo	orking Day 506		0%	NA	NA	
13	Install inspection tee at Pit X & Construction of Chamber	40 days	30.5ep 21 17 Nov 21 HK Wo	orking Day 505	509	0%	NA	NA	
10	Open Cut, connecting CH, HAG+63 to DN1200 pip end at Pit X with DNS00 Valve Chamber & DAV Chamber	e 140 days	18 Nov '21 33 May '22 HK Wo	orking Day 508		0%	NA	NA	
10 000	en treach Pipe Laying at Po Law Road Sorth	1314 days	7 Nov 17 14 Apr 22 HK We	orking Day	613	63%	NA.	NA	-
11	CH.HA6+63 to HA7+46 (Depth < 2.5m, each TTA 30r	120 days	18 Nov'21 14 Apr '22 HK We	orking Day 474,512		0%	NA	NA	
	length ] (Option G)								
12	CH.F.CD+00 to HC3+17 (Depth < 2.5m, each TTA mat 20m length) (Option G)	. 384 days	7 Nov '17 23 Feb '19 HK Wo	orking Day	511	095	NA	NA	
83 W 46 CH	ater Main Structure and Aspociated Pipe Support cost the Natural Stream Course (CH, NBD+00 ~ (HD+54)	053 days	5 May 20 36 Jul 22 HK W	te king troy	643	19% 51	May 20	NA	
14	Design Submission (CE No. 55) for Water Male Structure and Associated Pipo Support across the Natural Structure	37 days	5 Miły 20 16 Jun '20 HK Wo	orking Day	515	100% 5	May '20 16	lun "20	











									Project Multilogia in Tenne Kwen O	
	Task Nate	1	Dustan	Stat Fields	Tak Cécula Piekcosos	Suxcess 9	Complete Actual	Stat Acted Fe		10
approximate		Setup for Pice Laving inside lacking Pits P	6 days	8 /u' '21 14 /u	21 HK Working Day 612.623	615	0%	NA		a Feb Mar
Second		DN1200 M5 Pipe Laying inside jacking pipe (114m)								
	5	NS250 HDPE Pipe Laying imide jacking pipe (114m) (8m per day)	15 days	15 Jul 21 31 Ju	'21 HK Working Day 613	614	0%	NA	A	
	16	Formwork & Sotup for Grouting the gap between	3 days	24 Sep '21 27 Se	p '21 HK Working Day 614	617	0%	NA		
		pipe and Sleeve								
	17									
Image: Section of the sectin of the section of the section	18	Fipe Layleg (HB, BVB, Short Pipe), Thrust Block & backfilling inside Fit 137A	24 days	5 Oct '21 3 No	'21 HK Working Day 617	619	0%	NA		
Processor Pr	19		2 days	4 Nov 21 5 Nor	'21 HK Working Day 618	620	0%	NA		
	30	Fipe Laving (DN1200 MS Pipe & NS250 HDPE Pipe)					0%	NA	n =	
Mode		From Pit 137A to CH.CC1+38 & XC1+38	0.000	Store of the second						
In the starting the start sta	22	RM Pipe lacking from Pit 1377 to Pit 137A	122 days			673	0%	NA		
	N22									
Note: Section: Se		(Pit 137C - Fit 1378) [CH.CBD+00 to CH.CB.2+46) in								
Note of the set of the s										
Bulg and	635									
Normal         Normal<	636									
investion		days per 8m)								
Approx	M77	NS250 HDPE Pipe Laying inside Jacking pipe (246m)	31 days	22 Jul '21 26 A	g'21 HK Working Day 625	626	0%	NA	• • • • • • • • • • • • • • • • • • • •	
Instrume       Instrum       Instrum       Instrum       In	\$28		2.42	13.000	and the second second	630	07	No		
Industry       Mark	-	sormwork & Setup for Grouting the gap between pipe and Sleeve	a days	47 Dec 21 20 D	A 23 HE WORKING Day 626	0/3	0%	104	<b>1</b>	
Inductor department       International Control       Internation Control       Internation Control </td <td>29</td> <td>Grouting Works (20 meter/day)</td> <td>13 days</td> <td>21 Dec 21 7 Jan</td> <td>22 HK Working Day 628</td> <td>630</td> <td>0%</td> <td>NA</td> <td></td> <td></td>	29	Grouting Works (20 meter/day)	13 days	21 Dec 21 7 Jan	22 HK Working Day 628	630	0%	NA		
Proceedings of Proceedings of Proceedings of Process of P	05	Construction of Combined Inspection and Weshowt	GD days			632,631	0%	NA		
Participares       Participares <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Horizon	ið1 ið2					633				
N2       N2 <th< td=""><td></td><td>backfilling inside Pit 137C</td><td>ve only</td><td>** mer 22 23 A</td><td>of the standing cay and</td><td>405</td><td>0.0</td><td></td><td></td><td></td></th<>		backfilling inside Pit 137C	ve only	** mer 22 23 A	of the standing cay and	405	0.0			
Note water       Note water <td>03</td> <td>Remove FLS and Remove FLS and Extract Sheetpile at</td> <td>12 days</td> <td>25 Apr '22 10 M</td> <td>ay '22 HK Working Day 632</td> <td></td> <td>0%</td> <td>NA</td> <td></td> <td></td>	03	Remove FLS and Remove FLS and Extract Sheetpile at	12 days	25 Apr '22 10 M	ay '22 HK Working Day 632		0%	NA		
Production       Disk		TR ADTE								
	634 Fin					-	OX.	NA		
Note Condition       Note Note Note Note Note Note Note Note	CETV	Inspection, Sterilization and Water Sampling	soule moth	ALL IN THE R						
1       1000000000000000000000000000000000000										
1       DB200 MP processor Server Serve	637	DN1200 MS Pipe - Static Pressure Test Fram DN300 Valve Lhamber at CHLCA1+26 to CHLCT-2+65	30 days	1 Nov 20 30 N	ov '20 Calendar Day		0%	NA	м	
With Changes CCLCLA 13 8000 Min Changes         With Changes CCLC	535	INTERNET ALL DAMAGE AND A	30 days	16 Sen '27 35 0	rt'77 Calendar Day 71 503	646	05	NA		
1       DBL/2004 (Pgsset for Provide Field Field BBS       Provide - Set Field BBS	-	Valve Chamber at CH.CA4+24 to DN900 Valve Chamber	or calls	10 mp at 130	11,333					
Wirz Fruider 4 Wirz Fraid (2004)       Wirz Fraid (2004) <td></td>										
Note Charlenge and Tell Charlenge Specific Char		Value Chamber at Wan Po Road (CH, A12+50) to DN900	30 days	22 Sep '22 21 0	ct '22 Calendar Day 132,234	647	0%	NA	м — — — — — — — — — — — — — — — — — — —	
B01200000000000000000000000000000000000		Valve Chambar at TKO Landfill Stage I Area A (CH.								
Work Charlow In WOU										
Area E (N + C + 12-8)         Implementation (C + 12-8) <td>62</td> <td>DN1200 MS Pipe - Static Pressure Test From DN900 Value Charabar at TXO Landill State L Area A IOU</td> <td>30 days</td> <td>9 Mar '22 7 Ap</td> <td>r 22 Calendar Day 230,298</td> <td>648</td> <td>0%</td> <td>NA</td> <td>α                                      </td> <td></td>	62	DN1200 MS Pipe - Static Pressure Test From DN900 Value Charabar at TXO Landill State L Area A IOU	30 days	9 Mar '22 7 Ap	r 22 Calendar Day 230,298	648	0%	NA	α	
DB120 D4 Fpgstate: Fpst-water Test Fmm 0000       90 4pg.       100 - 20       00000 4pg.       000       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 0000       9 mg.       100 - 20       00000 4pg.       000       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       100 - 20       00000 4pg.       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       100 - 20       00000 3pg.       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       100 - 20       N.4       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       100 - 20       N.4       N.4       N.4         2       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       100 - 20       N.4       N.4       N.4         3       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       N.4       N.4       N.4         3       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       N.4       N.4       N.4         4       DB120 D4 Fpgstate: Fpst-mater Test Fmm 00000       9 mg.       N.4       N.4       N.4         5       DB120 D4 Fpgstate:		FB1+66) to DN900 Valve Chamber at TKO Landfill Stage								
1       Value Classifier at 10.0 ± 100										
1       2002002 Piper Mater Ministry Ministr	641	DN1200 MS Pipe - Static Pressure Test From DN900	30 days	19 Nov '22 18 0	ec'22 Celender Day 289	642,649	0%	NA	🗝 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
1       Distribution for Consider		FC13+26) to DN900 Valve Chamber at CH. FD3+43								
1       Distribution for Consider	642	DN1230 MS Fibe - Static Pressure Test From DN980	30 days	19 Dec '22 17 J	in 23 Colondar Day 341.347,	28,452650,643	0%	NA	a	
1       DB1200 M Pg-3dle Prosume text remon 5000 g M Pg-3dle P		Valve Chamber at CHFD 3+43 to DN900 Valve Chamber at Max We Trail (CH. HA5+45)								
2       Operation Structure Technique restructure restructure restructure restructure restructure Technique restru										
Yep/dea Classing and CCVV Injointing         2018 Args/1         7 Nov 72         2 Nov 72	643	Valve at Mou Wo Trai (CH.HA6+45) to DN800 EMF & BV	30 days	18 Jan '23 16 F	eb '23 Calendar Day 510,513,'	34,555.651	0%	NA	••	
Display         Display <t< td=""><td></td><td>Chamber at TKO F.W.S.R. (CH. HE1+70)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		Chamber at TKO F.W.S.R. (CH. HE1+70)								
DNICKON Yee-Frighter Dawing and CCTV 92 days 18 On: 22 33 Jan 23 Celorder Day 638 0% NA NA Pagestor From DM999 Value Clamber at OL CA1-50 DM999 Value Clamber at OL CA1-50 DM999 Value Clamber at Wise Pr Read (DX.A12-50)	644 P2	peline Cleaning and CCTV inspection	2018 days			653FF+30	6%	NA	<u>αι</u>	
DNICKON Yee-Frighter Dawing and CCTV 92 days 18 On: 22 33 Jan 23 Celorder Day 638 0% NA NA Pagestor From DM999 Value Clamber at OL CA1-50 DM999 Value Clamber at OL CA1-50 DM999 Value Clamber at Wise Pr Read (DX.A12-50)	645	DN1200 M5 Pipe - Pipeline Cleaning and CCTV	90 days		b '18 Calendar Day		0%	NA		
Repetition From DRMBD Value CharaFert at OL (CAL224 in DRMD Value CharaFert at Visit IP Read (DK.A12-50)		CH.CT.2465								
Repetition From DRMBD Value CharaFert at OL (CAL224 in DRMD Value CharaFert at Visit IP Read (DK.A12-50)	640	DN1200 MS Pipe - Figeline Lleaning and CCTV	90 days	16 Oct '22 13 J	an '23 Calendar Day 638		0%	NA		
		Inspection From DN900 Valve Chamber at CH.CA4+24 to DN900 Valve Chamber at Wan Po Road (CH.A12450)								
ning hugements 11 Tel Mene e Peirfaren   korelleter Roalie Roalie Beatrang Billy Roalie C Bertlik Der e Outsige		propose range character as more no more p.P. ALZ+50]								
ning Nganoman 1 1 74 Mana 4 Pairlana 1 Bodina Nadra 1 Bodina 2004 C Bedina Dela Dela Mana 4 Origina 1 Bodina 1										
	Norking Progr	From No. 11 Tal		•	Preixt Surreury 1	Income Milestore		Mend Tak	Neal Jone Rated E Bend Tale Deater 4 Giologie Manuellinges	



Test Na		Carlier	Siat Field	Task Citrada										ning in Torva																
			Stat. Photo	THE CHERKS	PROFUDANCE	MALDOUG	seconpete sena	Stati Acitat	-207	2015 Qr 1, 2015	Qr 1, 2018	Qc 2.208	Qr 4, 200	2/19 Qr 1.2019	Q:1,20	Qc 3, 2009 C	a 1, 205 Qu	20 1.201 Qui	2.2030 Qu 2.	2120 Qui-C 23	2011 Op 1, 2021	Q12,303 Q2	1 31E1 Qu 4 321	2402 Qu 1.202	2,2022 Qc 3.2	02 Qi 4.362	2/2/ Qi 1.2/2/ Qi 1	L 3023 Qc 3. 2023	01-1.223 01-1.2 (or 1.223 01-1.2 (or 1.223 01-1.2 (or 1.223 01-1.2)	201 012.30
87	DN1200 M5 Pipe - Pipeline Cleaning and CCTV 99 Inspection From DN900 Velve Chamber at Wan Po Road (CH. A124-95) to DN900 Velve Chamber at TKO Landfill Stage I Area A (CH. FB1+66)	0 days	22.0ct*22 19.Ja	n '23 Calendar D	vy 639		σN	NA	NA	9. and 1902.00	st. NIL His.	30_54_64_2	ND. NAL 347.1	K. 10.101.64	a, na ma ne	. M. M. M. M.	AC 1947 DAG 144	n no ka ay	olog Jan Jan Z	out one out in	, 180, 141, 190, 964	ng ng ng ng	and the out of	N. 10 NO KU A	a buy nan na na	2 349 CC 500 DC		No. 10 10 10 10 10 1	9 CG Pox De Ja P	in his An his
113	DN1203 M5 Pipe - Pipeline Graning and CCTV 91 Inspection From DN900 Velve Chamber at TXO LandBill Stage I Area A (CH. F81-66) to DN903 Valve Chamber at TXO LandBill Stage I Area B (CH. FC 13+25)	0 days	8 Ayı "22 6 Jul"	22 Calendar D	4 640 1		0%	NA	NA																					
		0 days	19 Dec '22 18 M	ar '23 Calendar D	vy 641		0%	NA	NA																		-			
50	DN1200 M5 Pipe - Pipeline Ceaning and CCTV 99 Inspection From DN900 Valve Chamber at CHF03+43 to DN900 Valve Chamber at Max Wu Tsal (CH. H46+45)	0 days	18 Jan '23 17 Ap	r 23 Calendar D	vy 642		0%	NA	NA																					
51	DN1200 MS Pipe - Pipeline Ceaning and CCTV 91 Inspection From DN900 Valve at Mari Wo Tsai (CH.H/M6455 to D3800 EMF & BV Chamber at TKO F.W.S.R.(CH.HE1+70)	0 days	17 Feb '23 17 M	ay '23 Calendar D	vy 643		0%	NA	NA																					
52 5		50 days	18 Jan '23 16 Ju				0%	NA	NA																		-			
50	DN1200 MS Pipe - Portion I & Portion H (Total Water = 15 9700 cura)		18 Jan '23 16 Ju	n 23 Calendar D. 17 72 Calendar D.		ays 661 577,573	0%	NA	NA																			-		
55 E	AND IN 5 Pages Marks Press one Trait 5 Dectine Cleaning. 31 (Vinceportan, Conference and Water Sampling ONDO MS Pipe - Static Pressure Test Press ONDO EMF 5. 14 Vinceport Tro S. W.S.2(21), HE1-370 (IN CH. 30-57	e days	18 Mar '22 31 M			0 656	0%	NA	NA															-						
86 (	and to DNBOD EMF & BV Chember (CH. HE1+30) DNBOD MS Fipe - Pipeline Clearing and CCTV Inspection 3/ from DNBOD EMF & BV Chamber at TKO F W S.IL.(CH. #E1+70) to CH. 30-57 and to DNBOD EMF & BV Chamber (CH. HE1-90)		1 Apr 22 14 Ap	er '22 Calendar D	y 655	657	0%	NA	NA															-						
87	ONBOG MS Fipe Storifization and Water Sampling From 7 ONBOG (MF & 3V Chamber et TKO F.W.S.#.(Ch. HEL+70) to Ch. 20-37 and to ONBOG EMF & BY Chamber (Ch.H12+90)	days	15 Apr '22 21 Ap	er '22 Calendar D	vy 655		0%	NA	NA																					
d8 055, 175	250 Hiller Mige Static Pression: Pipeling Cleanleg, CCTV - 31 pottors, Steplinsline and Waler Sampling	0.deys	11 May '22 Dilum	22 Calendar C	~	11	03-	NA	866																-					
-	NS250 HDPE Pipe - Static Pressure Test - Portion H (Area 3) 137)	0 days	11 May '22 9 Jun	'22 Calendar D	y 593	642	0%	NA	NA																-					
KO 100	ndover Periton Land Periton JI to W3P Region 8 DN1200 MS Pipe - Portion I & Fortion H (Area 137) 7	days	17 Jun '23 23 Ju	n 24 Calendar D n 23 Calendar D	W 653		0%	NA	NA																					
H3 1	NS250 HDPE Pipe - Portion H (Ares 137) 7	days	10 Jun '22 16 Ju	n '22 Calender D	y 659	634	0%	NA	NA																					
63 W3	ator Sopply to Teening Kwan & Development in Plant at Hill 1. nk of Taxong Kwan & Arez 137 (Portion J)	tt days	36 Nov '38' 31 M	ay 19 HK Workin	liny		1035 16	N-9-18 11-17	ari, Ata				-		-															
161 1	Issue of CE No. 02 D	days	16 Nov '18 16 N	ov '18 HK Working	Day	635	1005 16	Nov 18 16 P	18 10				+ 10	541																
165 1	Procurement of Major Material 4	8 days	17 Nov '18 3 Jan	'19 Calendar D	ry 064	656		Nov '18 3.					-																	
1	Installation of NS250 HOPE Fipe from A to B in accordance 8 with the Drawing No. 13/WSD/16/SK13 to 5K15 and W20203/4A	9 daya	4 Jan '19 25 Aç	ar '19 HK Working	Day 665		100% 4	Jan '19 25.	Apr'19																					
667 1	Sterilization and Flushing NS250 HDPE Pipe (From TO+00 to 4 T25+64)	days	24 Apr 19 28 Ap	ar '19 HK Working	Day	658	100% 24	Apr '19 28	Apr '19						×															
	Take Water Sampling 1		29 Apr '19 29 A;	r 19 HK Working	Day 667	659	100% 25	Apr 19 29	Apr '19						4															
	Backfill at T28+64 after completion of Water Sampling Test 1 Handover Portion J to WID Region 0	.day days	11 May '19 11 M			67017		May '19 11 M							+ 115															



## Appendix B

# Overview of Mainlaying in Tseung Kwan O



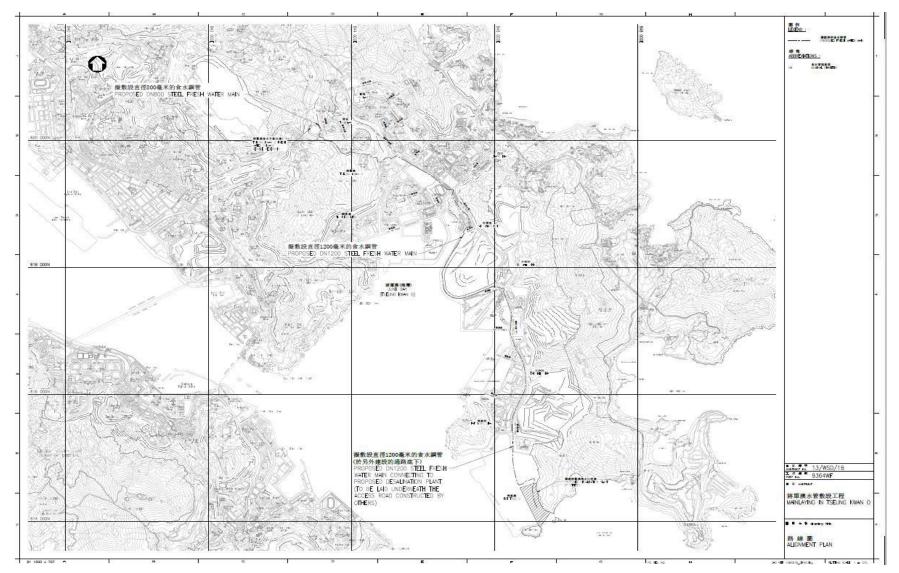


Figure B1. Overview of Mainlaying in TKO



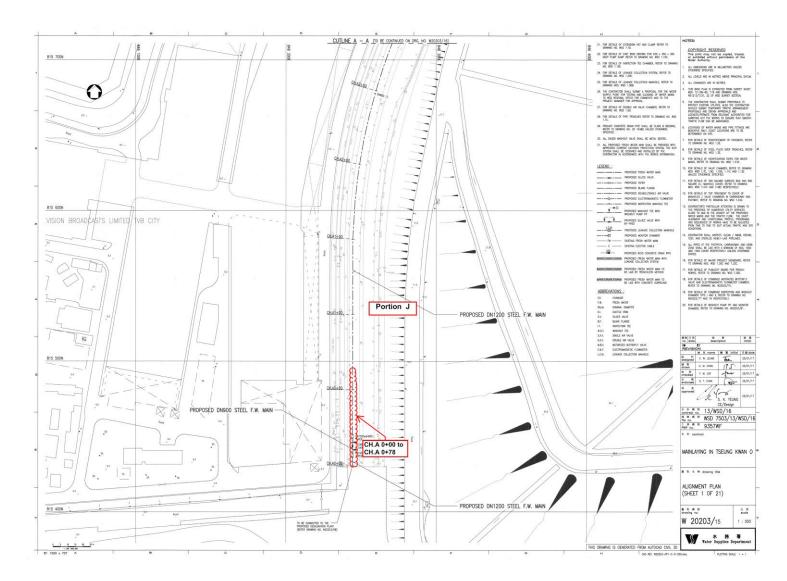


Figure B2. Location Plan for Portion J - CH.A 0+00 to CH.A 0+78



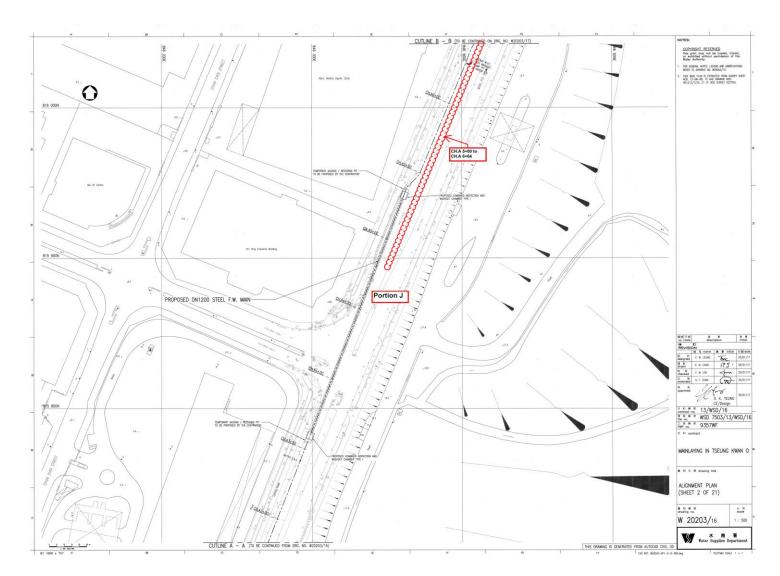


Figure B3a. Location Plan for Portion J - CH.A 5+00 to CH.A 6+64



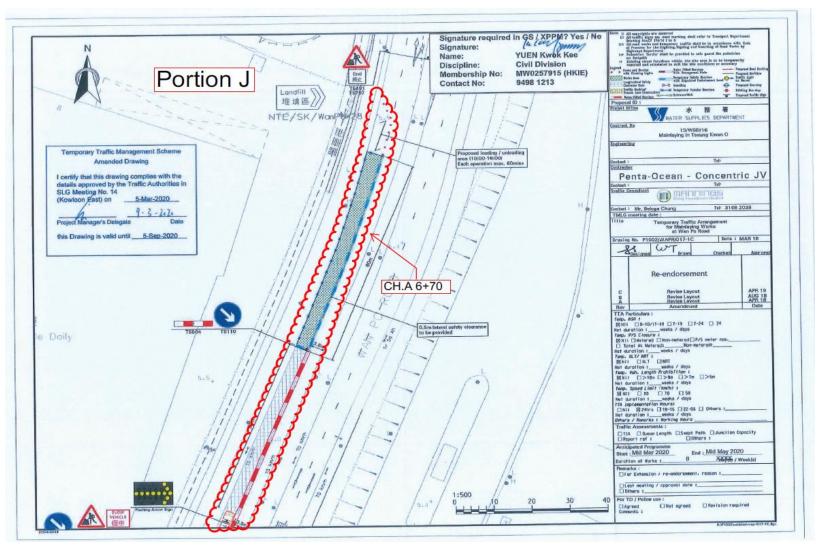


Figure B3b(i). Location Plan for Portion J - CH.A 6+70



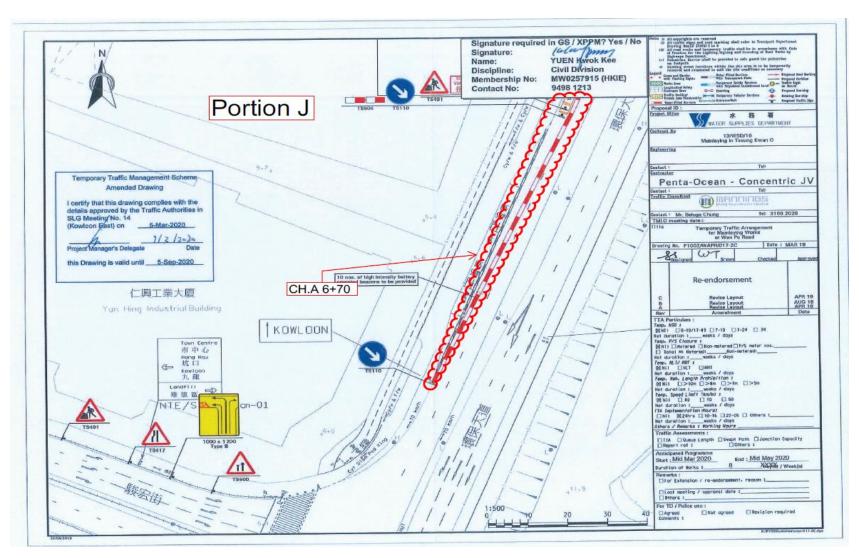


Figure B3b(ii). Location Plan for Portion J - CH.A 6+70



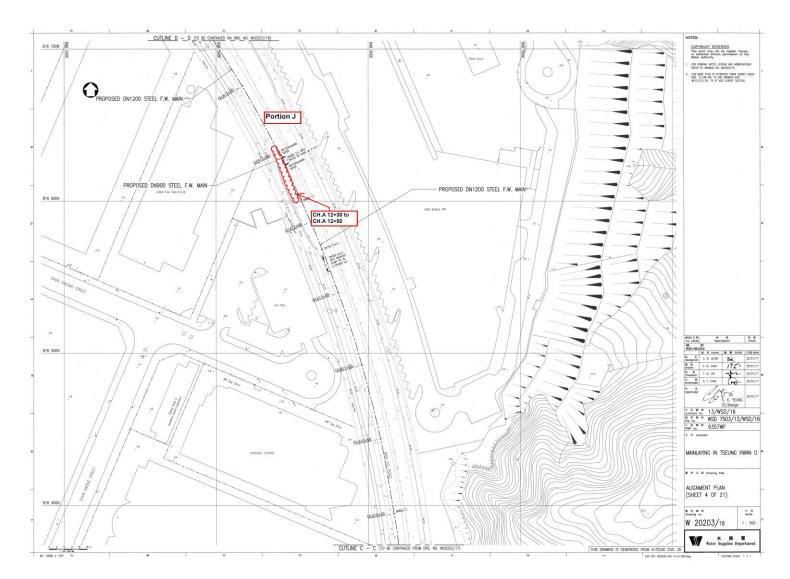


Figure B4. Location Plan for Portion J - CH.A 12+30 to CH.A 12+50



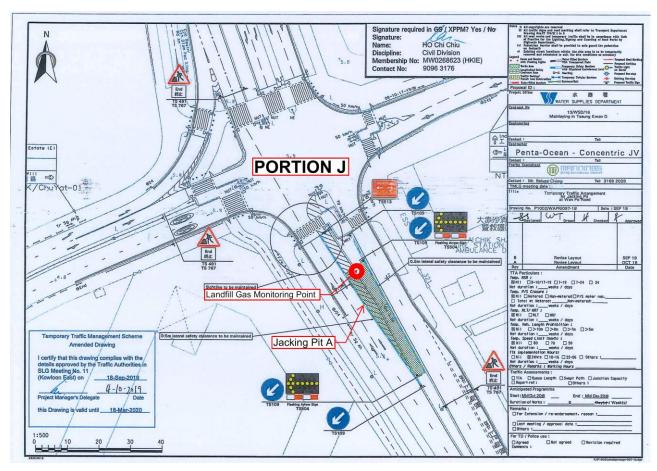


Figure B5. Location Plan for Portion J – CH. A13+50 to CH.A 14+00 (Pit A)



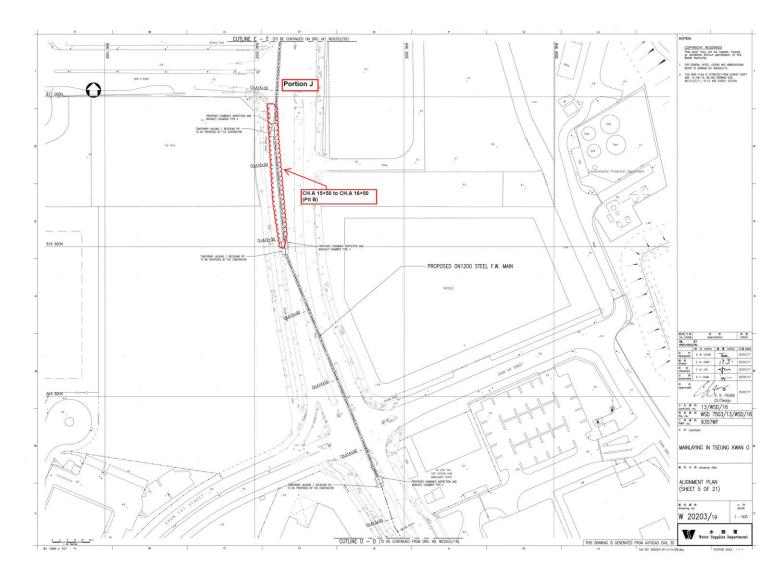


Figure B6. Location Plan for Portion J – CH. A15+50 to CH.A 16+50 (Pit B)



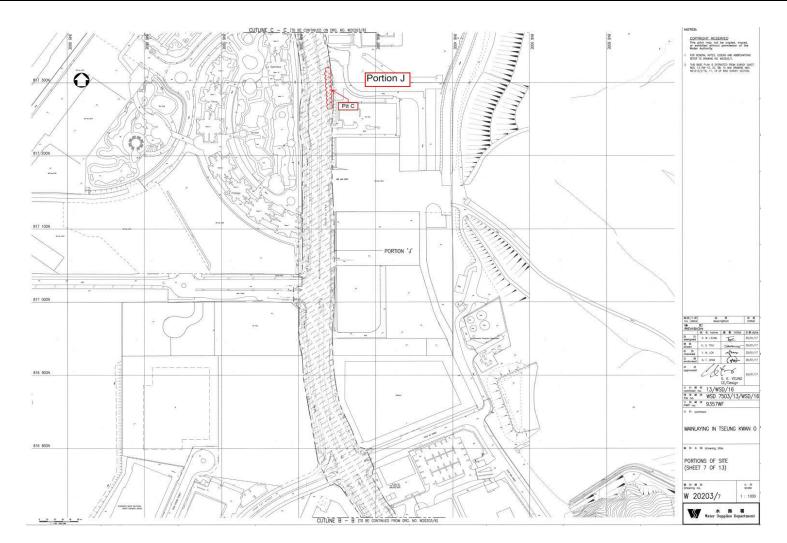


Figure B7. Location Plan for Portion J – CH.A 19+15 to CH.A 19+50 (Pit C)



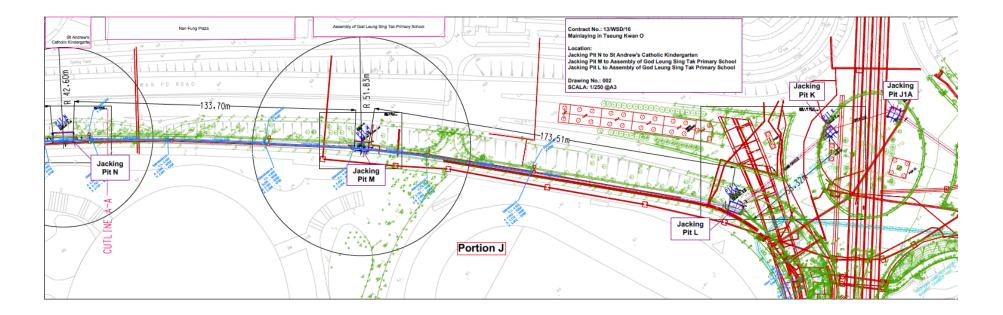


Figure B8a. Location Plan for Portion J – Pit L-M-N, K, J1A



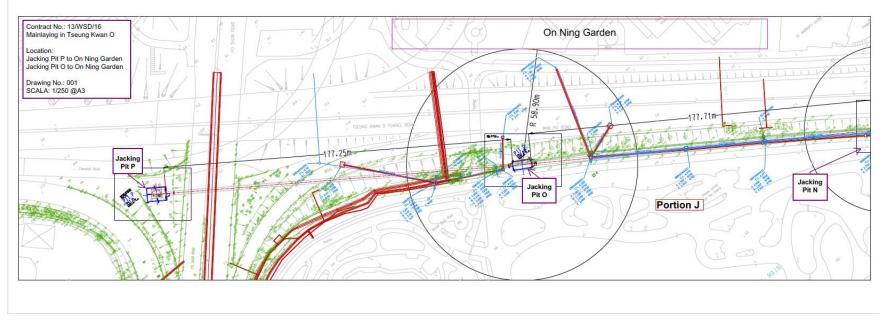


Figure B8b. Location Plan for Portion J – Pit N-O-P



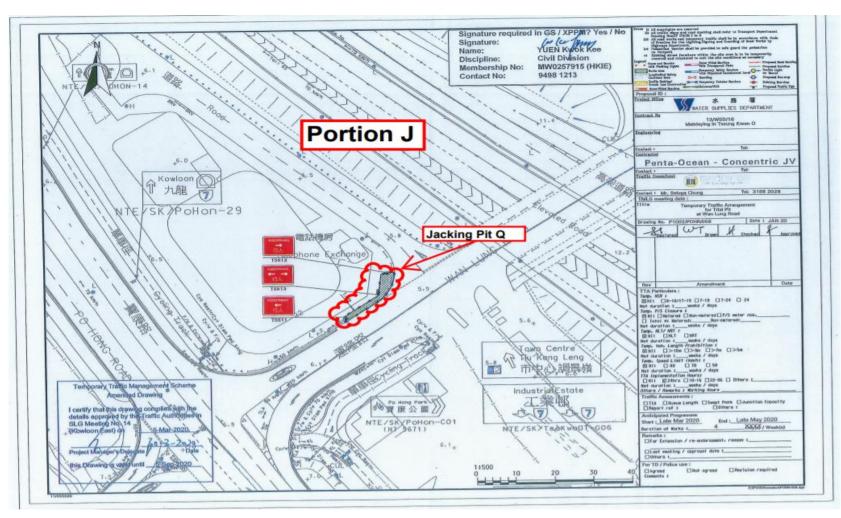


Figure B8c. Location Plan for Portion J – Pit Q



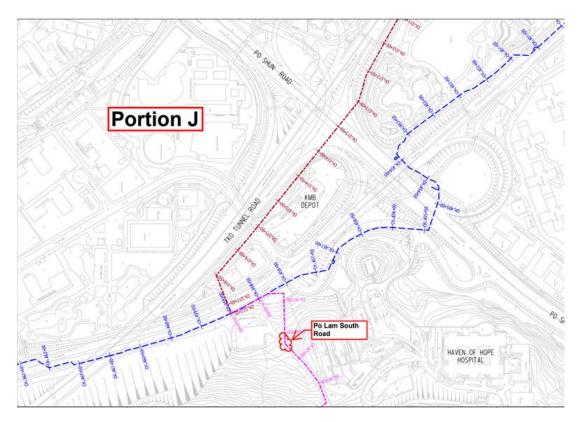


Figure B9a. Location Plan for Mau Wu Tsai 1

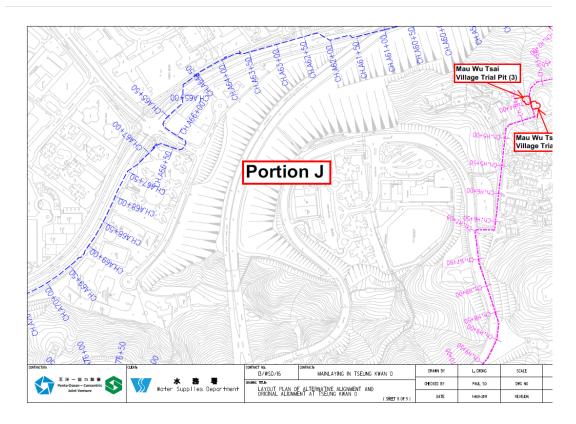


Figure B9b. Location Plan for Mau Wu Tsai 2 & 3



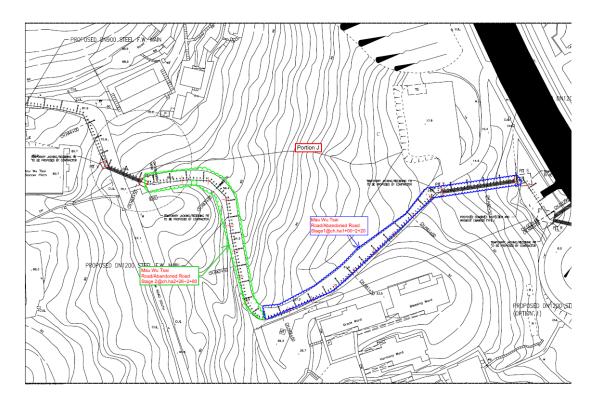


Figure B9c. Abandoned Mau Wu Tsai Road

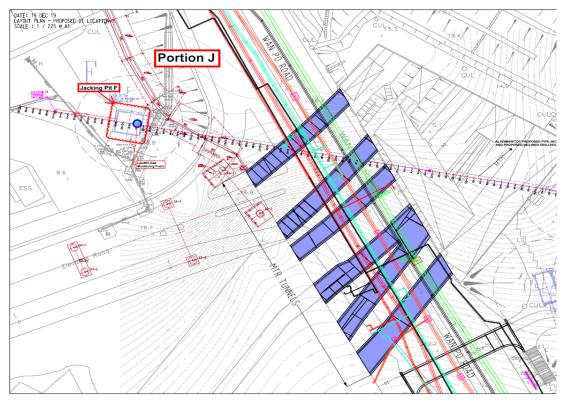


Figure B10. Location Plan for Jacking Pit F



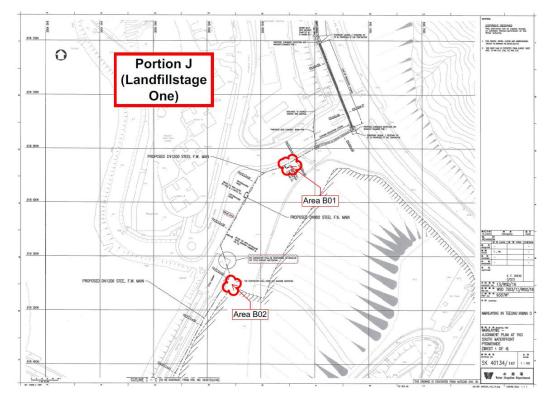


Figure B11a. Location Plan – Landfill Stage 1 (Area B01-B02)

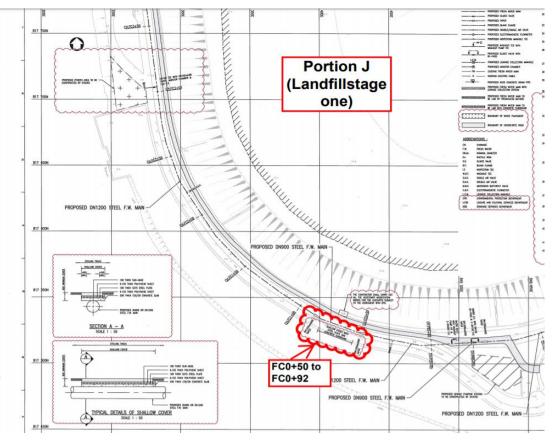


Figure B11b. Location Plan – Landfill Stage 1 (Area FC0+50 -FC0+92)



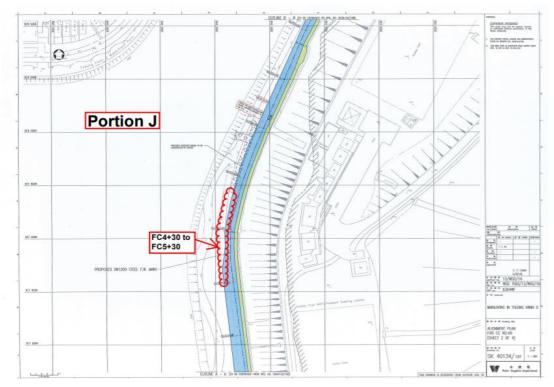


Figure B11c. Location Plan – Landfill Stage 1 (Area FC4+30 -FC5+30)

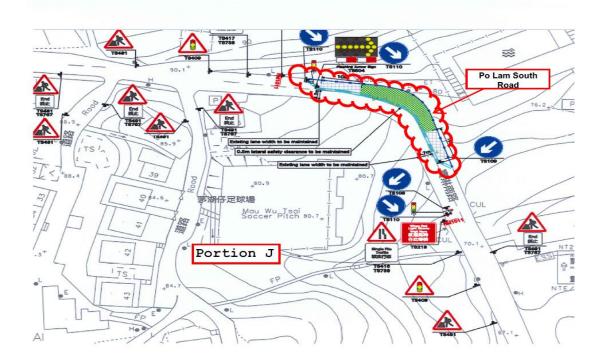


Figure B12. Monitoring Location – Po Lam South Road



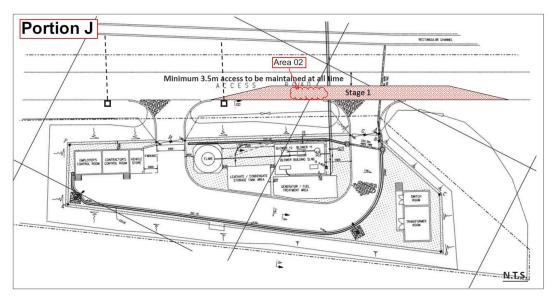
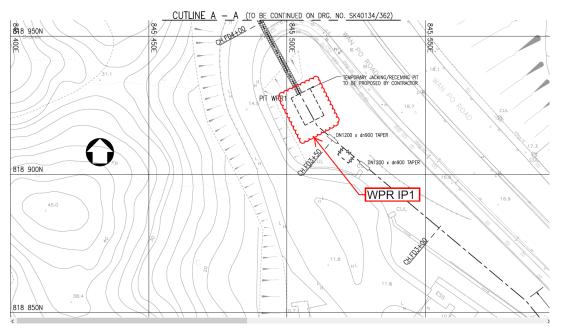


Figure B13. Monitoring Location – Area A02







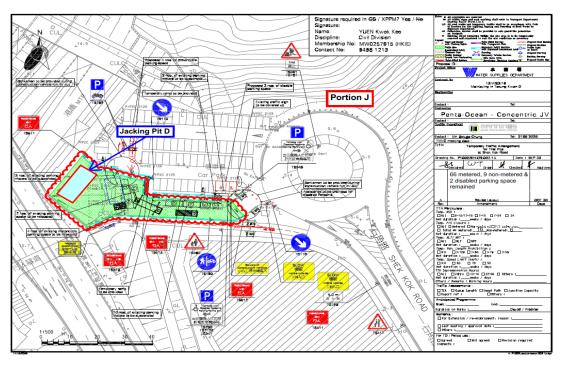


Figure B15. Location Plan for Jacking Pit D

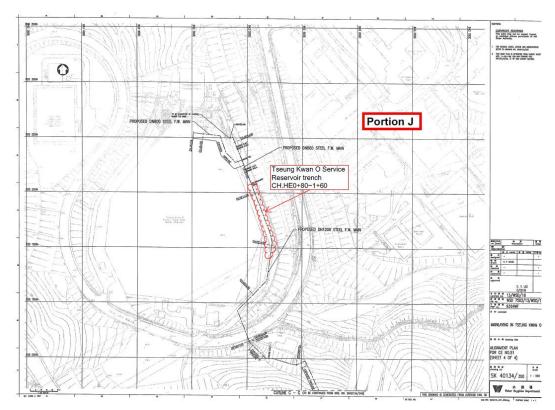


Figure B16. Location Plan for CH.HE0+80-1+60



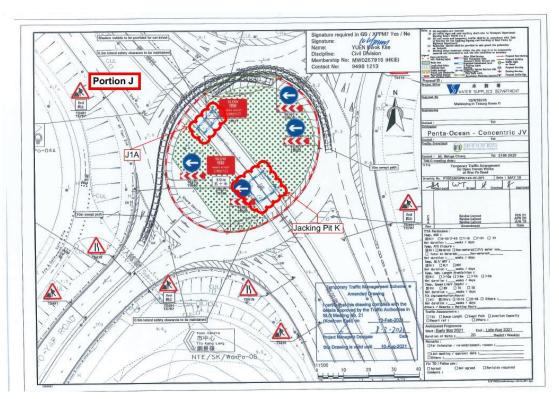


Figure B17. Location Plan for Pit K

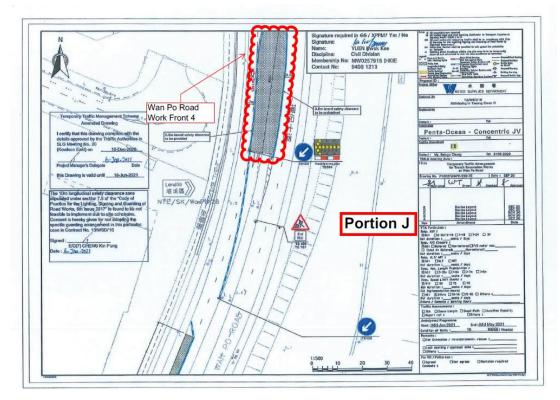


Figure B18a. Location Plan for Wan Po Road 4



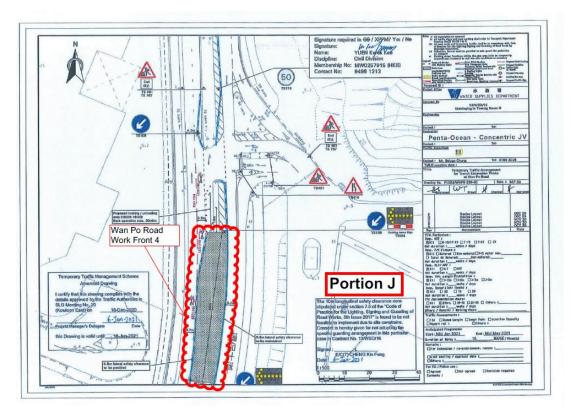


Figure B18b. Location Plan for Wan Po Road 4

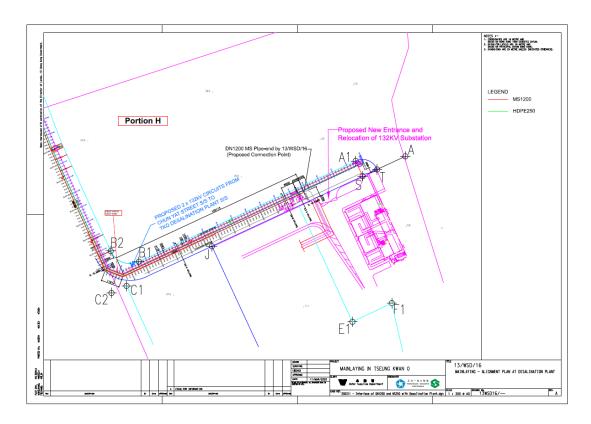


Figure B19a. Location Plan for CH.CT 0+07 – 2+58



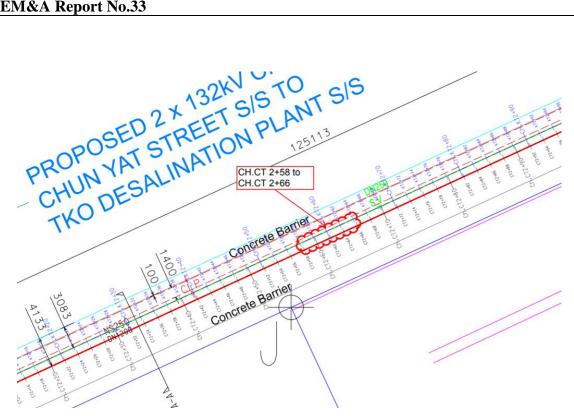


Figure B19b. Location Plan for CH.CT 2+58 – 2+66



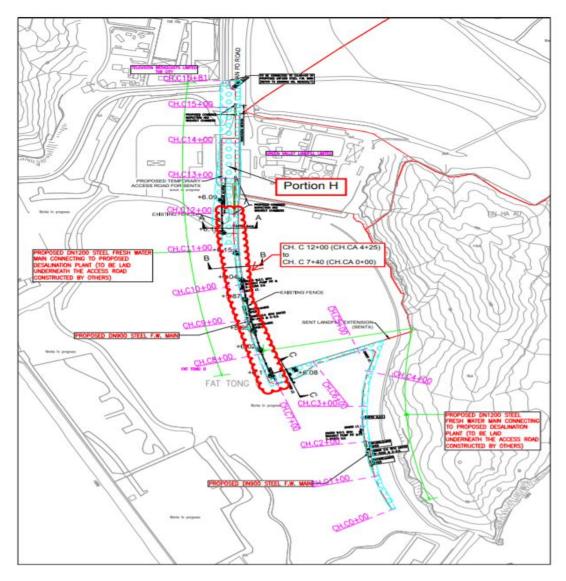


Figure B21. Location Plan for Portion H– CH.C 7+40~CH.C 12+00 (CH.CA 0+00 ~ CH.CA4+25)



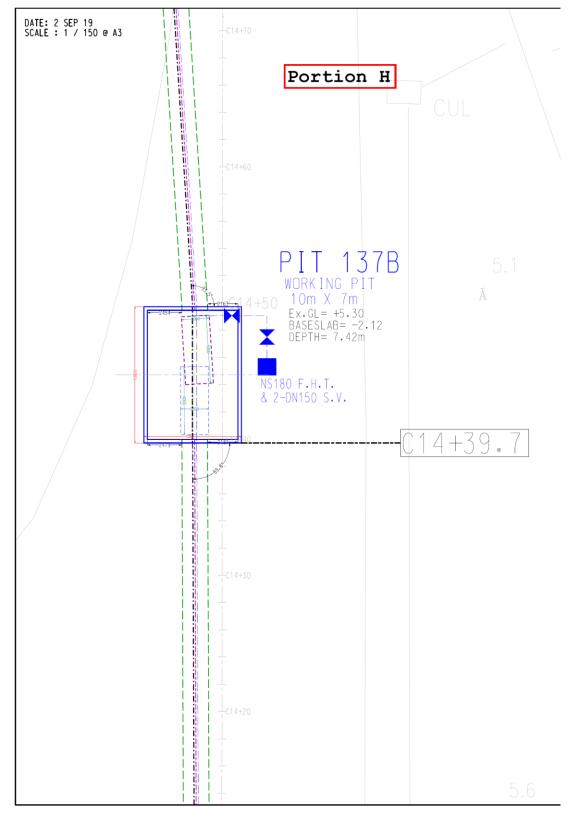


Figure B22a. Location Plan for Portion H– Pit 137B



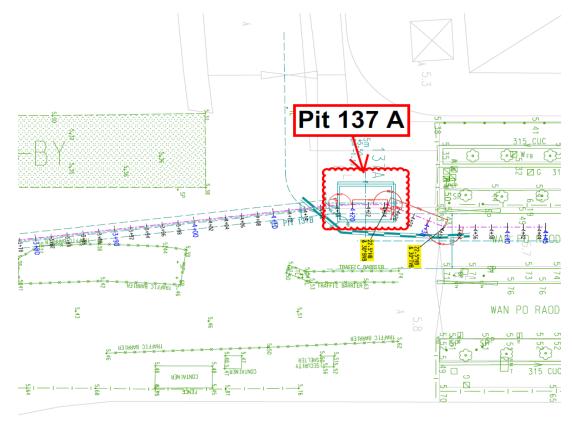


Figure B22b. Location Plan for Portion H– Pit 137A

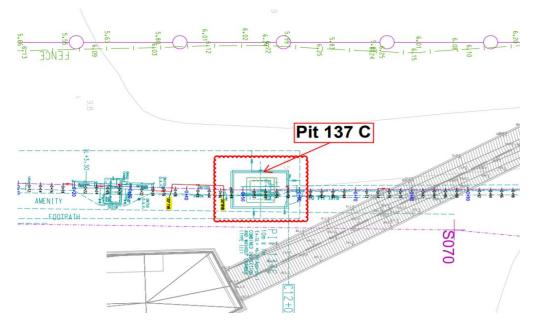


Figure B22c. Location Plan for Portion H– Pit 137C



# Appendix C

# Mitigation

# Summary of Implementation Status of Environmental



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Impler Stage		ion	Implementation	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
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)				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)		~		NA	
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)		1		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)		-		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)		-		N/A	



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Impleı Stage	nentat	ion	Implementation	Relevant Legislation & Guidelines
EIA Reference	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
S4.8.1	Road sections between vehicle-wash areas and vehicular entrance will be paved.	Land site/ During Construction	Contractor(s)		~		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)		•		N/A	
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)		-		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, rectified after observation.	
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)		<b>√</b>		N/A	
S4.8.1	All exposed areas will be kept wet always to minimise dust emission.	Land site/ During construction	Contractor(s)		<b>√</b>		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)		-	-	Implemented	Environment, Transport and Works Bureau Technical Circular (ETWB TC(W)) No 19/2005 on Environmental Management on Construction Sites



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures	Implementation	Impler Stage	nentat	ion	Implementation	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	& main concerns to address	Agent	D	С	0	status	
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	Land site/ During construction	Contractor(s)		*		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)		-		Implemented	
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.	Land site/ During construction	Contractor(s)/ Environmenta I Team (ET) & Independent Environmenta I Checker (IEC)		•		Implemented	



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Imple Stage	mentat	ion	Implementation status	Relevant Legislation & Guidelines
	Weasures/ Willigation Weasures	main concerns to address	Agent	D	С	0		Guideimes
Noise			1	T	1		1	
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)		✓		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)		•		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Mobile plant, if any, will be sited as far away from NSRs as possible.	Noise control/ During construction	Contractor(s)		•		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
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	A Practical Guide for the Reduction of Noise from Construction Works,
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)		•		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
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)		•		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
S5.7	Use of Quite Powered Mechanical Equipment (QPME).	Noise control/ During construction	Contractor(s)		•		Implemented	A Practical Guide for the Reduction of Noise from Construction Works,
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	Noise control/ During construction	Contractor(s)		~		N/A	A Practical Guide for the Reduction of Noise from Construction Works,



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Impleı Stage	mentat	ion	Implementation status	Relevant Legislation & Guidelines
	weasures/ willigation weasures	main concerns to address	Agent	D	С	0		Guidennes
	than its height. The noise barrier material should have a superficial surface density of at least 7 kg m <sup>-2</sup> and have no openings or gaps.							
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)		<b>√</b>		N/A	A Practical Guide for the Reduction of Noise from Construction Works,
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)		✓		Implemented	A Practical Guide for the Reduction of Noise from Construction Works
S5.7	PMEs will not be used at the works areas near educational institutions with residual impact (ie 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)		✓		Implemented	A Practical Guide for the Reduction of Noise from Construction Works
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)	<b>·</b>	•		N/A	
S5.9	Sawcutting 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)	-	•		Implemented	



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impler Stage	nentat	ion	Implementation status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidennes
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 (eg 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)	~	4		Implemented	
S5.10	A noise monitoring programme shall be implemented for the construction phase.	Designated monitoring stations as defined in EM&A Manual/During construction phase	Environmental Team (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)/ Environment al Team (ET) & Independent Environment al Checker (IEC)		•		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati on Agent	Impler Stage			Implementation status	Relevant Legislation &         Dumping at Sea         Ordinance (DASO)         -      <
	Weasures/ Willgation Weasures	main concerns to address	on Agent	D	С	0		Guidennes
Water Quality								
S6.9	Dredged marine sediment will be disposed of in a gazetted marine disposal area in accordance with marine dumping permit conditions of the Dumping at Sea Ordinance (DASO).	Marine Dredging/ During construction	Contractor(s)		•		N/A	
S6.9	Disposal vessels will be fitted with tight bottom seals in order to prevent leakage of material during transport.	Marine Dredging/ During construction	Contractor(s)		•		N/A	-
S6.9	Barges will be filled to a level, which ensures that material does not spill over during transport to the disposal site and that adequate freeboard is maintained to ensure that the decks are not washed by wave action.	Marine Dredging/ During construction	Contractor(s)		•		N/A	-
S6.9	After dredging, any excess materials will be cleaned from decks and exposed fittings before the vessel is moved from the dredging area.	Marine Dredging/ During construction	Contractor(s)		•		N/A	-
S6.9	All vessels should be well maintained and inspected before use to limit any potential discharges to the marine environment.	Marine Dredging/ During construction	Contractor(s)		~		N/A	-
S6.9	All vessels must have a clean ballast system.	Marine Dredging/ During construction	Contractor(s)		~		N/A	-
S6.9	No discharge of sewage/grey wastewater should be allowed. Waste water from potentially contaminated area on working vessels should be minimized and collected. These kinds of wastewater should be brought back to port and discharged at appropriate collection and treatment system.	Marine Dredging/ During construction	Contractor(s)		*		N/A	-
S6.9	No soil waste is allowed to be disposed overboard.	Marine Dredging/ During construction	Contractor(s)		1		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati on Agent	Impler Stage			Implementation status	Relevant Legislation & Guidelines
	Weasures/ Willigation Weasures	main concerns to address	on Agent	D	С	0		Guidennes
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)		<b>~</b>		Implemented, rectified after observation	ProPECC PN 1/94 TM Standard under the WPCC
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)		-		Implemented	-
S6.9	Appropriate surface drainage will be designed and provided where necessary.	Land site & drainage/ During construction	Contractor(s)		1		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)		•		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)		•		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)		-		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementati on Agent	Impler Stage	nentat	ion	Implementation status	Relevant Legislation & Guidelines
	weasures/ willigation weasures	main concerns to address	on Agent	D	С	0		Guideimes
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)		•		N/A	-
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)		-	•	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)		•	-	N/A	Technical Memorandum for Effluents Discharged into Drainage and Sewerage Systems Inland and Coastal Waters
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>v</b>	Implemented, rectified after observation	-



FIA Rotoronco	Recommended Environmental Protection	Objectives of the recommended measures &	Implementati	Impler Stage	nentati	on	Implementation status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	on Agent	D	С	0		Guidennes
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)/ Environment al Team (ET) & Independent Environment al Checker (IEC)		~		Implemented	-



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
Waste Manage					_			
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 mobilisation/ 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 mobilisation/ During construction	Contractor(s)		-		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 constructior	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 " <i>ETWB TC(W) No. 19/2005, Environmental</i> <i>Management on Construction Sites</i> " 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 constructior	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)		•		Implemented	Chapters 2 & 3 Code of Practice on the Packaging Labelling & Storage of



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	nentat	ion	Implementation Status	Relevant Legislation &
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0	-	Guidelines         Chemical Wastes         published under the         Waste Disposal Ordina         (Cap 354),         Section 35         Waste Disposal         Ordinance (Cap 354)         DEVB TC(W) No. 6/2010         Trip Ticket System for         Disposal of Constructio         & Demolition Materials         WBTC 32/92, The Use of         Tropical Hard Wood on         Construction Site         ETWB TCW No. 33/2002         Management of         Construction and         Demolition Material         Including Rock         -         WBTC 32/92, The Use of         Tropical Hard Wood
								published under the Waste Disposal Ordinanc (Cap 354),
S8.5	Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	Land site/ During construction	Contractor(s)		~		Implemented	•
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 waste paper 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)		-		Implemented	Construction and Demolition Material
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)		~		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)		•		Implemented, rectified after observation	-



EIA Reference	Recommended Environmental Protection	recommended measures &	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
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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	A Sediment Quality Report (SQR) for sampling and chemical testing of the sediment will be prepared and submitted to the EPD for approval. The approved detailed sampling and chemical testing will be carried out prior to the commencement of the dredging activities to confirm the sediment disposal method.	Marine works/ During construction	Contractor(s)		-		N/A	ETWB TC(W) No. 34/2002 and Dumping at Sea Ordinance (DASO)
S8.5	The management of dredged/ excavated sediment management requirement from <i>ETWB TC(W) No.</i> <i>34/2002</i> 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)
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)		•		Implemented	Cap 354N Waste Disposal (Charges for Disposal of Construction Waste) Regulation
\$8.5	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)		•		Implemented	DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials
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 )/ Environmen tal Team (ET) & Independent Environmen tal Checker (IEC)		✓		Implemented	ETWB TC(W) No. 19/2005, Environmental Management on Construction Sites



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures		Implementation Agent	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation & Guidelines
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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)		~		Implemented	Annex 5 and Annex 6 of Appendix G of ETWB TC(W) No. 19/2005
S8.5	Inert C&D materials (public fill) will be reused within the Project as far as practicable.	All area/ During construction	Contractor(s)		<b>√</b>		N/A	-
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)		•		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)		-		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)		•		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)		-		Implemented, rectified after observation.	Air Pollution Control (Construction Dust) Regulation (Cap 311R)
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			•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation Agent	Imple Stage	nentat		Implementation Status	Relevant Legislation & Guidelines
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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	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be enclosed on at least 3 sides.	All area/ During construction/ During operation	Contractor(s)/ WSD		-	<b>√</b>	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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		•	✓	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
\$8.5	Storage areas for chemical waste shall have adequate ventilation.	All area/ During construction/ During operation	Contractor(s)/ WSD		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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		•	•	Implemented	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
S8.5	Storage areas for chemical waste shall be	All area/ During	Contractor(s)/		✓	✓	Implemented	Waste Disposal



EIA Reference	Recommended Environmental Protection		Implementation	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation & Guidelines
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	arranged so that incompatible materials are appropriately separated.	construction/ During operation	WSD					(Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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>√</b>	Implemented, rectified after reminder.	Waste Disposal (Chemical Waste) (General) Regulation; Code of Practice on the Packaging, Handling and Storage of Chemical Wastes
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		•	~	Implemented	DEVB TC(W) No. 8/2010 Enhanced Specification for Site Cleanliness and Tidiness.
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		•	~	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	All facilities/ During construction	ET/ IEC		-		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation	Implen Stage	nentati	on	Implementation Status	Relevant Legislation & Guidelines	
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		programme will be implemented throughout							
		the construction phase.							



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures & main concerns to address	Implementation	Impleı Stage	nentat	ion	Implementation Status	Relevant Legislation & Guidelines
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	Ecology							
S9.7	For slope mitigation works within the Clear Water Bay Country Park, to avoid tree felling and damages to trees, the exact locations of the flexible barrier foundation plates, soil nails and rock dowels can be adjusted during detailed design, and a setback distance from existing trees is recommended to be maintained as far as practical. A detailed specification describing the exact locations of the flexible barrier foundation plates, soil nails and rock dowels will be prepared to illustrate how the setback distance from existing trees would be implemented for tree avoidance.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	*	*		Implemented	-
S9.7	Pruning of tree canopies along the alignment of the flexible barriers shall be limited to a minimum.	Slope mitigation works area/ During construction	Contractor(s)		-		Implemented	
S9.7	The alignment of flexible barriers shall be optimized to preserve all species of conservation interest and minimize the impact to the existing vegetation as far as practicable. All individuals of <i>Marsdenia lachnostoma</i> within the slope mitigation areas shall be retained <i>in- situ</i> , by positioning the alignment of flexible barrier at a minimum 1.5m in a radius away from these individuals.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	*		N/A	-
S9.7 and 9.10	At the detailed design stage prior to the commencement of the slope mitigation works, a vegetation survey shall be carried out at the slope mitigation areas within the Clear Water Bay Country Park to assess the condition and identify the location of each individual of <i>Marsdenia lachnostoma</i> and other flora species of conservation interest that may be directly affected by the construction works.	Slope mitigation works area/ During detailed design/ During construction	Contractor(s)	~	•		Implemented	-
S9.7	Temporary fencing will be installed to fence off	Slope mitigation works	Contractor(s)		✓		N/A	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	recommended measures &	Implementation Agent	Impler Stage	nentat	ion	Implementation Status	Relevant Legislation & Guidelines
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	the concerned species either in groups of individually within the works area and in the close proximity to prevent from being damaged and disturbed during construction. A sign identifying the site shall be attached to the fence and flagging tape shall be attached to the individuals to visualize their locations.	area/ During construction						
S9.7 and S9.10	A specification for fencing and demarcating individuals of <i>Marsdenai lachnostoma</i> (or other flora species of conservation interest, if found) adjacent to the proposed alignment of the flexible barriers will be prepared to protect the species.	Slope mitigation works area/ During construction	Contractor(s)		•		N/A	-
S9.7	Induction training shall also be provided to all site personnel in order to brief them on this flora of conservation interest including the locations and their importance.	Slope mitigation works area/ During construction	Contractor(s)		•		N/A	-
S9.7	The resident site supervisory staff will closely monitor the conditions of concerned individuals during construction of flexible barriers in the close proximity.	Slope mitigation works area/ During construction	Contractor(s)		•		N/A	-
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)		•		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)		~		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)		•		Implemented	-



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	recommended measures &Stade		nplementation Implementation tage Status		Relevant Legislation & Guidelines		
	incasures/ initigation measures	main concerns to address	Agent	D	С	0		Guideimes
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)		•		N/A	-
S9.7	Affected habitats within the Clear Water Bay Country Bay shall be reinstated by hydro-seeding and planting of climbers and native shrub seedlings where practical upon completion of the slope mitigation works.	All area/ During construction	Contractor(s)		•		N/A	-

Note: D – Design stage C – Construction O – Operation



EIA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Imple Stage	mentat	ion	Implementation Status	Relevant Legislation &	
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines	
	Landscape & Visual								
S11.10 & 11.11	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)	-	<b>√</b>	•	Implemented	-	
S11.10 & 11.11	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)	<b>√</b>	<b>√</b>	•	Implemented	-	
S11.10 & 11.11	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: - green roofs where practical (ie without equipment on the roof); - 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)	•	×	•	Implemented	-	
S11.10 & 11.11	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)	<b>~</b>	<b>✓</b>	✓ 	Implemented, rectified after reminder	ETWB TCW No. 3/2006 - Tree Preservation.	
S11.10 & 11.11	No tree within the Country Park will be felled. 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	All area/ Detailed design/ During construction/ During operation	WSD/ Contractor(s)	•	•	✓	Implemented	DEVB TC(W) No. 10/2013	



-14 Keterence	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Implementation Stage				Relevant Legislation &
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		Guidelines
	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)							
S11.10 & 11.11	Any slope mitigation works necessary to address	All area/ Detailed design/	WSD/	✓	✓	✓	N/A	
	natural terrain hazards, will be minimized to	During construction/	Contractor(s)					
	minimize any potential environmental impact to	During operation						
	the Country Park e.g. soil nailing and rock							
	stabilization will aim to avoid existing trees e.g.							
	should any restoration of vegetation be							
	necessary, the best planting matrix with native							
	species will be established, with the aim of							
	resembling the existing vegetation. (MM6)							
S11.10 & 11.11	Dredging works for the installation of intake	All area/ Detailed design/	WSD/	<ul><li>✓</li></ul>	<ul><li>✓</li></ul>	✓	N/A	
	structures and outfall diffusers should be	During construction/	Contractor(s)					
	minimized to avoid or reduce any potential	During operation						
	environmental impacts to as low as reasonably							
	practicable (ALARP). The intake and outfall							
	structures (e.g. intake openings and diffuser							
	heads) will be prefabricated and transferred to							
	site for installation. (MM7)							
S11.10 & 11.11	All night-time lighting will be reduced to a	All area/ Detailed design/	WSD/	<ul><li>✓</li></ul>	<ul> <li>✓</li> </ul>	✓	Implemented	-
	practical minimum both in terms of number	During construction/	Contractor(s)					
	of level and will be hooded and directional.	During operation						
	(MM8)units and lux level and will be hooded							
	and directional. (MM8)							

Note: D – Design stage C – Construction O – Operation



IA Reference	Recommended Environmental Protection	Objectives of the recommended measures &	Implementation	Impleı Stage	mentat	ion	Status	Relevant Legislation & Guidelines
	Measures/ Mitigation Measures	main concerns to address	Agent	D	С	0		
	Landfill Gas Hazard							
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)	-	<b>✓</b>	✓	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>		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)	•	✓	•	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)		•	-	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>v</b>	~	<b>√</b>	Implemented	



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implementation Stage				Relevant Legislation & Guidelines
	Weasures/ Willigation Weasures	main concerns to address	Agem	D	С	0		Guidennes
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 of methane.	All area/ Detailed design/ During construction/ During operation	Contractor(s)		•		Implemented	
S12.7	carbon dioxide and oxygen.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>	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)	✓	•	•	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	All area/ Detailed design/ During construction/ During operation	Contractor(s)	-	-	-	N/A	



EIA Reference	Recommended Environmental Protection Measures/ Mitigation Measures	Objectives of the recommended measures &	Implementation Agent	Implementation Stage			Implementation Status	Relevant Legislation & Guidelines
	pathway for landfill gas and hence grilled metal	main concerns to address		D	С	0		
	covers should be used.							
S12.7	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)	×	-	-	N/A	
S12.7	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 and for each measurement. The need for venting the manhole/ utility pit and further monitoring will be reviewed after the initial monitoring.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	×	×	×	Implemented	
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.	All area/ Detailed design/ During construction/ During operation	Contractor(s)	×	-	•	Implemented	

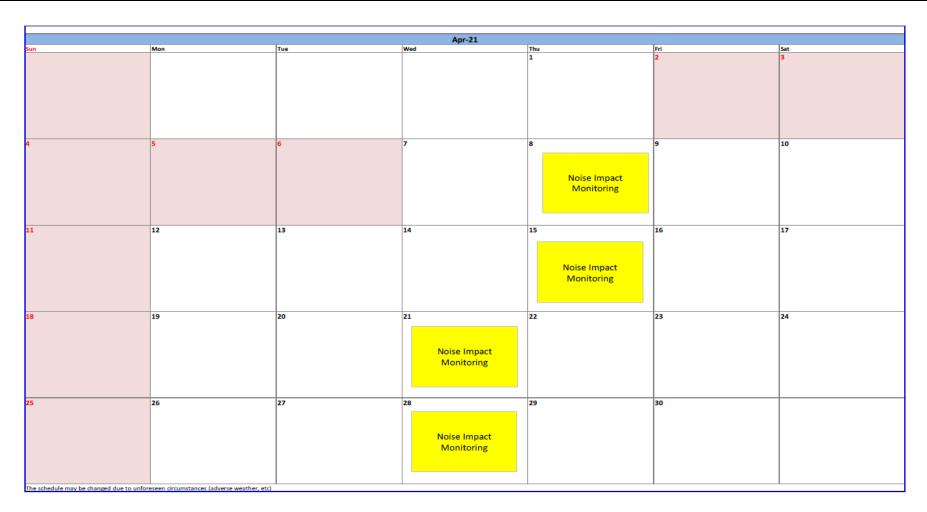
Note: D – Design stage C – Construction O – Operation



# Appendix D

# Impact Monitoring Schedule of the Reporting Month







# Appendix E

# Noise Monitoring Equipment Calibration Certificate





### **CERTIFICATE OF CALIBRATION**

Description: Acoustical Calibrator (Class 1) Manufacturer: Pulsar instruments Ltd. Type/Model No.: 105 Serial/Equipment No.: 63705 Mappiors used: - <b>tem submitted by</b> Curstomer: Acuity Sustainability Consulting Limited. Address of Customer: - Request No.: - Sequest No.: - Date of receipt: 03-Aug-2020 Date of fest: 06-Aug-2020 <b>Date of test:</b> 06-Aug-2020 <b>Reference equipment used in the calibration</b> Description: Model: Serial No. Expiry Date: Traceable to: tab standard microphone B&K 4180 2341427 11-May-2021 SCL - Sequest No.: - ab standard microphone B&K 4180 2341427 11-May-2021 CEPREI Manufacturer: 93 360 33873 19-May-2021 CEPREI May 2021 CEPREI Noters and the lab calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156. The calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156. The calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156. The calibrator was testeld with its axis vertical facing downwards at the specific frequency using insert voltage technique than the lab calibration conforms to the requirements of annex. B of IEC 60942. 1997 for the conditions under which the set was performed. This does not imply that the sound calibrator meets IEC 60942. 1997 for the conditions under which the set was performed. This does not imply that the sound calibrator meets IEC 60942. 1997 for the conditions under which the set was performed. This does not imply that the sound calibrator meets IEC 60942. 1997 for the conditions.	ertificate No.: 20CA0803 01		Page: 1 of 2				
Manufacturer: Pulsar instruments Ltd. TypeModel No: 105 Serial/Equipment No: 63705 Adaptors used: - tem submitted by Curstomer: Acuity Sustainability Consulting Limited. Markiness of Customer: - Request No: 03-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Description: Model: Serial No. Expiry Date: Traceable to: ab standard microphone B&K 2873 2743150 03-Jun-2021 CEPREI Signal generator DS 360 33873 19-May-2021 CEPREI Multient Conditions Femperature: 22 ± 1 °C Relative humidity: S5 ± 10 % The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results are rounded to the nearest 0.01 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results reproted in the certificate	Item tested						
Manufacturer: Pulsar instruments Ltd. TypeModel No: 105 Serial/Equipment No: 63705 Adaptors used: - tem submitted by Curstomer: Acuity Sustainability Consulting Limited. Markiness of Customer: - Request No: 03-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Date of test: 06-Aug-2020 Description: Model: Serial No. Expiry Date: Traceable to: ab standard microphone B&K 2873 2743150 03-Jun-2021 CEPREI Signal generator DS 360 33873 19-May-2021 CEPREI Multient Conditions Femperature: 22 ± 1 °C Relative humidity: S5 ± 10 % The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results are rounded to the nearest 0.01 Hz and have not been corrected for variations from a reference pressure 10103.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test results reproted in the certificate	Description:	Acquistical Calibra	tor (Close 1)				
TypeModel No::       105         Strail/Equipment No::       63705         Adaptors used:       -         tem submitted by       -         Curstomer:       -         Address of Customer:       -         -       -         Date of test:       06-Aug-2020         Reference equipment used in the calibration       -         Description:       Model:       Serial No.       Expiry Date:       Traceable to:         abstandard microphone       B&K 2673       2743160       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       18-May-2021       CEPREI         Audio analyzer       B9038       GB41300350       18-May-2021       CEPREI         Audio analyzer       89038       GB41300350       18-May-2021       CEPREI         Audio analyzer       89038       GB41300350       18-May-2021       CEPREI         Audio analyzer       1005 ± 5 h Pa       Test specifications       CEPREI         1.       The Sound Calibrator has been calibrated in accordance with the requirements as specific for uanitors from a reference pressure of 1012.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         2.       The calibrator was tested with ha axis vertical							
Serial Equipment No.: 63705 Adaptors of Customer: Acuity Sustainability Consulting Limited. Address of Customer: - Request No.: - Bate of receipt: 03-Aug-2020 Date of test: 06-Aug-2020 Reference equipment used in the calibration Description: Model: Serial No. Expiry Date: Traceable to: Lab standard microphone B&K 4180 2341427 11-May-2021 SCL recemplifier B&K 2673 2743155 03-Jun-2021 CEPREI Measuring amplifier B&K 2610 2346941 03-Jun-2021 CEPREI Madio analyzer 8903B GB41300350 19-May-2021 CEPREI Jightal multi-meter 34401A US36087050 19-May-2021 CEPREI Jightal generator DS 360 33873 19-May-2021 CEPREI Jightal generator DS 360 33873 19-May-2021 CEPREI Jightal series and the Series of the Series			s Llu.				
Adaptors used:       -         Item submitted by         Curstomer:       -         Address of Customer:       -         Sequest No.:       -         Jate of receipt:       03-Aug-2020         Date of test:       06-Aug-2020         Reference equipment used in the calibration         Description:       Model:       Serial No.       Expiry Date:       Traceable to:         ab standard microphone       B&K 2810       2341427       11-May-2021       SCL         "reamplifier       B&K 2810       23441427       11-May-2021       CEPREI         Weasuring amplifier       B&K 2810       234641       03-Jun-2021       CEPREI         Nuclei analyzer       B903B       GB41300350       19-May-2021       CEPREI         Audio analyzer       B903B       GB41300350       19-May-2021       CEPREI         Audio analyzer       S903B       GB41300350       18-May-2021       CEPREI         Audio analyzer       1005 ± 5 h Pa       Trest specifications       Trest specifications         1.       The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator was tested with its adv ericeal facing downwards at the specific frequency using insert votage technique							
Item submitted by         Curstomer:       Acuity Sustainability Consulting Limited.         Address of Customer:       -         Request No.:       -         Date of test:       06-Aug-2020         Reference equipment used in the calibration       -         Description:       Model:       Serial No.         Expery Date:       Traceable to:         ab standard microphone       B&K 4180       2341427         Treamplifier       B&K 4160       2341427         Treamplifier       B&K 4160       2341427         Treamplifier       B&K 4160       2341427         Treamplifier       B&K 4160       2341427         Treamplifier       B&K 4100       2341427         Weasuring amplifier       B&K 2673       2743150         Signal generator       DS 360       33873         Signal generator       DS 360       33873         Jogital multi-meter       34401A       US36087050         Juriversal counter       S3132A       MY40003662         Armbient conditions       -       -         Femperature:       22.2 1 ° C       CEPREI         Juriversal counter       S3132A       MY40003662         1       The calibrator ha		63705					
Curstomer:       Acuity Sustainability Consulting Limited.         Address of Customer:       -         Request No::       -         Date of receipt:       03-Aug-2020         Reference equipment used in the calibration       Expiry Date:       Traceable to:         Date of receipt:       06-Aug-2020         Reference equipment used in the calibration       Expiry Date:       Traceable to:         Date station of the statis and the station of the station of the statis the station of the		-					
Address of Customer:       -         Request No.:       -         Bate of receipt:       03-Aug-2020         Date of test:       06-Aug-2020         Reference equipment used in the calibration       -         Description:       Model:       Serial No.       Expiry Date:       Traceable to:         .ab standard microphone       B&K 4180       2341427       11-May-2021       CCPREI         Measuring amplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Measuring amplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Meadic analyzer       8903B       GB4100350       18-May-2021       CEPREI         Digital multi-meter       34401A       US36087050       18-May-2021       CEPREI         Audio analyzer       8903B       GB4100350       18-May-2021       CEPREI         Audio analyzer       8903B       GB4100350       18-May-2021       CEPREI         Audio analyzer       8903B       GB4100350       18-May-2021       CEPREI         Audio analyzer       1005 ± 5 hPa       Test specifications       The sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the localibration procedure SMTP004-CA-156.         2. <td>tem submitted by</td> <td></td> <td></td> <td></td> <td></td>	tem submitted by						
Request No::       -         Date of receipt:       03-Aug-2020         Date of test:       06-Aug-2020         Reference equipment used in the calibration       Description:         Description:       Model:         ab standard microphone       B&K 4180         234/1427       11-May-2021         ScL       Preamplifier         B&K 2673       2743150         03-Jun-2021       CEPREI         Signal generator       DS 360         2363       GB41300350         Digital mutil-meter       34401A         US6087050       19-May-2021         CEPREI       24.1 °C         Audio analyzer       89038         GB41300350       18-May-2021         CEPREI       24.1 °C         Audio analyzer       89038         GB41300350       18-May-2021         CEPREI       Audio analyzer         Audio analyzer       89038         Ceprence       24.1 °C         Stattor on Stattor       10.9 %         Var pressure:       10.0 %         Var pressure:       10.0 %         Nar pressure:       10.2 % 5 hPa         The calibrator has been calibrated in accordance with the require		Acuity Sustainabili	ty Consulting Limited.				
Date of receipt:       03-Aug-2020         Date of test:       06-Aug-2020         Reference equipment used in the calibration         Description:       Model:       Serial No.       Expiry Date:       Traceable to:         .ab standard microphone       B&K 2673       2743150       03-Jun-2021       CEPREI         Measuing amplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Joignal generator       DS 360       33873       19-May-2021       CEPREI         Joignal generator       DS 360       33873       19-May-2021       CEPREI         Joignal generator       DS 360       33873       19-May-2021       CEPREI         Judio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Judio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Ambient conditions       Freestapecifications       Feative humidity:       55 ± 10 %         Nr pressure:       1005 ± 5 hPa       Fest specifications       Fest specifications from a reference pressure of 1013.26 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         P.       The calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions.          The resu		-					
Date of test:       06-Aug-2020         Reference equipment used in the calibration         Description:       Model:       Serial No.       Expiry Date:       Traceable to:         ab standard microphone       B&K 4180       2341427       11-May-2021       SCL         Preamplifier       B&K 4100       2341427       11-May-2021       SCL         Preamplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Joigtal multi-meter       34401A       US36087050       19-May-2021       CEPREI         Julyersal counter       53132A       MY40003662       18-May-2021       CEPREI         Audio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Audio analyzer       8903B       GB41300360       18-May-2021       CEPREI         Autio analyzer       1005 ± 5 hPa       Test specifications       1005 ± 5 hPa         Test specifications       1       1005 ± 5 hPa       Test calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique and the lab calibrator conforms to the requirements of annex B of IEC 60942 1997 Annex E pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pre		The second Colorest C					
Reference equipment used in the calibration         Description:       Model:       Serial No.       Expiry Date:       Traceable to::         ab standard microphone       BaK 4180       2341427       11-May-2021       SCL         reamplifier       BaK 2673       2743150       03-Jun-2021       CEPREI         Weasuing amplifier       BaK 2670       2346941       03-Jun-2021       CEPREI         Digital multi-meter       34401A       US36087050       19-May-2021       CEPREI         Audio analyzer       8803B       GB41300350       18-May-2021       CEPREI         Audio analyzer       8303B       GB41300362       18-May-2021       CEPREI         Audio analyzer       53132A       MY40003662       18-May-2021       CEPREI         Audio analyzer       22 ± 1 °C       Relative humidity:       55 ± 10 %         Allarive humidity:       55 ± 10 %       Standard dive humidity:       55 ± 10 %         Allarive humidity:       55 ± 10 %       Standard dive humidity:       55 ± 10 %         Allarive humidity:       55 ± 10 %       Standard dive hub calibration procedure SMTP004-CA-156.       Phe calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage	Date of receipt:	03-Aug-2020					
Description:       Model:       Serial No.       Expiry Date:       Traceable to:        ab standard microphone       B&K 4180       2341427       11-May-2021       SCL         Preamplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Digital multi-meter       34401A       US36087050       19-May-2021       CEPREI         Judic analyzer       8903B       GB41300350       18-May-2021       CEPREI         Jniversal counter       53132A       MY40003662       18-May-2021       CEPREI         Ambient conditions         Femperature:       22 ± 1 °C       Relative humidity:       55 ± 10 %         Valative humidity:       55 ± 10 %       Strant Strant       Strant Strant         Areautive:       1005 ± 5 hPa       Test specifications       1         1.       The calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator may structure Structure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results       The solut Calibrator conforms to the requirements of annex B of IEC 60942 under any other conditions.         Details of the performed measurements are pr	Date of test:	06-Aug-2020		10			
ab standard microphone       B&K 4180       2341427       11-May-2021       SCL         Preamplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Digital multi-meter       34401A       US36087050       19-May-2021       CEPREI         Juiversal counter       53132A       MY40003662       18-May-2021       CEPREI         Audio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Audio analyzer       1005 ± 5 hPa       CEPREI       CEPREI         Ambient conditions       Femperature:       22 ± 1 °C       CERREI         Relative humidity:       55 ± 10 %       Stressence:       1005 ± 5 hPa         Test specifications         1.       The sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.         2.       The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique thanges.         3.       The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations moder which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. <td colspa<="" td=""><td>Reference equipment</td><td>used in the calib</td><td>ration</td><td></td><td></td></td>	<td>Reference equipment</td> <td>used in the calib</td> <td>ration</td> <td></td> <td></td>	Reference equipment	used in the calib	ration			
ab standard microphone       B&K 4180       2341427       11-May-2021       SCL         Preamplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Digital multi-meter       34401A       US36087050       19-May-2021       CEPREI         Jniversal counter       53132A       MY40003662       18-May-2021       CEPREI         Audio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Audio analyzer       1005 ± 5 hPa       CEPREI       CEPREI         Ambient conditions       Femperature:       22 ± 1 °C       CEREI         Relative humidity:       55 ± 10 %       NY40003662       18-May-2021       CEPREI         Ambient conditions       Femperature:       1005 ± 5 hPa       Cereation and the lab calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator procedure SMTP004-CA-156.       Cereation and the lab calibrator bas been calibrated in accordance with the specific frequency using insert voltage technique and the lab calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.         Test results       Cerefit that the sound calibrator conf	Description:	Model:	Serial No.	Expiry Date:	Traceable to:		
Preamplifier       B&K 2673       2743150       03-Jun-2021       CEPREI         Measuring amplifier       B&K 2610       2346941       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Juidial analyzer       8903B       GB41300350       18-May-2021       CEPREI         Juiversal counter       53132A       MY40003662       18-May-2021       CEPREI         Ambient conditions       Femperature:       22 ± 1 °C       Relative humidity:       55 ± 10 %         Vir pressure:       1005 ± 5 hPa       Test specifications       The calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator on procedure SMTP004-CA-156.       The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique and the lab calibrator on procedure SMTP004-CA-156.         2.       The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results         The calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator conforms to the requirements IEC 60942. 1997 for the conditions. <td cols<="" td=""><td>_ab standard microphone</td><td></td><td></td><td></td><td></td></td>	<td>_ab standard microphone</td> <td></td> <td></td> <td></td> <td></td>	_ab standard microphone					
Measuring amplifier       B&K 2610       2346941       03-Jun-2021       CEPREI         Signal generator       DS 360       33873       19-May-2021       CEPREI         Joigtal multi-meter       34401A       US36087050       19-May-2021       CEPREI         Jniversal counter       53132A       MY40003662       18-May-2021       CEPREI         Ambient conditions       Femperature:       22 ± 1 °C       CEREI       CEREI         Relative humidity:       55 ± 10 %       NY40003662       18-May-2021       CEPREI         Ambient conditions       Femperature:       22 ± 1 °C       CEREI       CEREI         Relative humidity:       55 ± 10 %       NY40003662       18-May-2021       CEPREI         Ambient conditions       Ferse specifications       Ferse specifications       Ferse specifications         1.       The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator may state sted with its axis vertical facing downwards at the specific frequency using insert voltage technique pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Fest results       Fest results       Fest results are proved calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the est was performed. This does not imply that t							
Signal generator DS 360 33873 19-May-2021 CEPREI Digital multi-meter 34401A US36087050 19-May-2021 CEPREI Audio analyzer 8903B GB41300350 18-May-2021 CEPREI Universal counter 53132A MY40003662 18-May-2021 CEPREI Ambient conditions Temperature: 22 ± 1 °C Relative humidity: 55 ± 10 % Air pressure: 1005 ± 5 hPa Test specifications 1. The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator more dure SMTP004-CA-156. 2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique 3. The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. Test specifications This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. Details of the performed measurements are presented on page 2 of this certificate. Approved Signatory: Date: 07-Aug-2020 Company Chop: Feng Jung Comments: The results reported in the certificate refer to the condition of the instrument on the date of calibration and		B&K 2610					
Digital multi-meter       34401A       US36087050       19-May-2021       CEPREI         Audio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Jniversal counter       53132A       MY40003662       18-May-2021       CEPREI         Ambient conditions       Emperature:       22 ± 1 °C       CEPREI       CEPREI         Ambient conditions       Femperature:       1005 ± 5 hPa       CEPREI         Test specifications       Inversal facing downwards at the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator mas been calibrated facing downwards at the specific frequency using insert voltage technique and the lab calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique changes.         A.       The calibrator mas been calibrated facing downwards at the specific frequency using insert voltage technique pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results       This does not imply that the sound calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.         Details of the performed measurements are presented on page 2 of this certificate.       Mathematies and the and the presentes and the presentes and the pe		DS 360					
Audio analyzer       8903B       GB41300350       18-May-2021       CEPREI         Jniversal counter       53132A       MY40003662       18-May-2021       CEPREI         Ambient conditions       Emperature:       22 ± 1 °C       CEPREI       CEPREI         Relative humidity:       55 ± 10 %       Strange       Strange       CEPREI         Ambient conditions       Femperature:       1005 ± 5 hPa       CEPREI         Test specifications         1.       The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibrator morecodure SMTP004-CA-156.         2.       The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results         This to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.         Details of the performed measurements are presented on page 2 of this certificate.         Approved Signatory:         Feng Jung         Date: 07-Aug-2020         Company Chop:      <	Digital multi-meter	34401A	US36087050	19-May-2021	CEPREI		
Ambient conditions         Temperature:       22 ± 1 °C         Relative humidity:       55 ± 10 %         Air pressure:       1005 ± 5 hPa         Test specifications         1.       The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156.         2.       The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results         This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.         Deteils of the performed measurements are presented on page 2 of this certificate.         Date: 07-Aug-2020 Company Chop:         Feng Juni         Feng Juni         Date: 07-Aug-2020 Company Chop:         Formulate: 07-Aug-2020 Company Chop:         Formulate: 07-Aug-2020 Company Chop:         Formulate: 07-Aug-2020 Company Chop:	Audio analyzer	8903B	GB41300350				
Temperature:       22 ± 1 °C         Relative humidity:       55 ± 10 %         Nir pressure:       1005 ± 5 hPa         Test specifications         In       The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156.         Proceeding and the lab calibrator mass tested with its axis vertical facing downwards at the specific frequency using insert voltage technique pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.         Test results         The calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.         Date: 07-Aug-2020 Company Chop:         Comments: The results reported in the certificate refer to the condition of the instrument on the date of calibration and	Universal counter	53132A	MY40003662	18-May-2021	CEPREI		
<ul> <li>The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex E and the lab calibration procedure SMTP004-CA-156.</li> <li>The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.</li> <li>The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.</li> <li>Test results         This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.     </li> <li>Details of the performed measurements are presented on page 2 of this certificate.         Performed Signatory:         Page 200         Company Chop:         Company Chop:         Comments: The results reported in the certificate refer to the condition of the instrument on the date of calibration and     </li> </ul>	Relative humidity:	55 ± 10 %					
<ol> <li>The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex I and the lab calibration procedure SMTP004-CA-156.</li> <li>The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique technique of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.</li> </ol> <b>Test results</b> This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. Details of the performed measurements are presented on page 2 of this certificate. Approved Signatory: <b>Pate:</b> 07-Aug-2020 <b>Company Chop: Company Chop: Comments:</b> The results reported in this certificate refer to the condition of the instrument on the date of calibration and	Test specifications						
and the lab calibration procedure SMTP004-CA-156. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes. <b>Test results</b> This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. Details of the performed measurements are presented on page 2 of this certificate. Performed Signatory: Feng Jungi Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and	7 1077 (U.S. 1076)	nr has been calibrated	in accordance with the	requirements as specifi	ied in IEC 609/2 1997 Appey E		
2. The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique of the results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.           Test results           This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.           Details of the performed measurements are presented on page 2 of this certificate.           Approved Signatory:         Date:         07-Aug-2020         Company Chop:           Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and         addition of the instrument on the date of calibration and				requirements as speen	ICO IN IEO 00042 1001 ANNEX E		
pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.  Test results  This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.  Details of the performed measurements are presented on page 2 of this certificate.  Approved Signatory:  Feng Jungi Date: 07-Aug-2020 Company Chop:  Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and				at the specific frequency	vusing insert voltage technique		
This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942. 1997 for the conditions under which the est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. Details of the performed measurements are presented on page 2 of this certificate. Approved Signatory: Feng Jungi Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and	pressure of 1013.25						
est was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions. Details of the performed measurements are presented on page 2 of this certificate. Approved Signatory: Feng Jungi Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and	Test results						
Details of the performed measurements are presented on page 2 of this certificate. Approved Signatory: Feng Jungi Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and							
Approved Signatory: Feng Jungi Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and	eat was performed. This do	es not imply that the s	Sound Calibrator meets i		ner conditions.		
Feng Jungi	Details of the performed me	asurements are prese /	ented on page 2 of this	certificate.	~ ~ 就職		
Feng Junqi Comments: The results reported in this certificate refer to the conditon of the instrument on the date of calibration and	in an a the second	at	*****	and the second second	有限公司		
	Approved Signatory:	Feng Junqi			108 * 011		
				f the instrument on the o	date of calibration and		

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Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

HKAS has accredited this laboratory (Reg. No. HOKLAS 028) under HOKLAS for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. The results relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without approval of the laboratory.

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\$	SOILS & MATERIALS 香港新界葵涌永 The Whole Block of YLK Gr	(有限公司 SENGINEERING CO., LTI 基路22-24號椰林閣 oup Building, Nos. 22-24 Wing K (* (852) 2555 7533 E-mail: sm	集團大廈全幢 lei Road, Kwai Chung, New Territ			
			E OF CALIBRA	TION		
Certi	ficate No.:	20CA0803 01		Page:	2 of 2	
1,	Measured Sound Pr	ressure Level				
		essure Level in the calibrate y standard microphone and ainties.				
	Frequency	Output Sound Pressu		tput Es	ut level in dB re 20 μPa stimated Expanded	
	Shown Hz	Level Setting dB	Sound Pressure	Level	Uncertainty dB	
	1000	94.00	93.78		0.10	
5						
2,		vel Stability - Short Term				
		tuations was determined by 10 measuring amplifier ove s found to be:				
	At 1000 Hz		STF = 0.027 dB			
	Estimated expanded	uncertainty	0.005 dB			
3,	Actual Output Frequ	uency				
	preamplifier connecte counter which was us	actual output frequency wa ed to a B&K 2610 measurin sed to determine the freque output frequency at 1 KHz	g amplifier. The AC output ncy averaged over 20 seco	of the B&K 26	10 was taken to an	universal
	At 1000 Hz	Actual Fre	equency = 1000.3 Hz			
	Estimated expanded	uncertainty	0.1 Hz	Coverage f	actor k = 2.2	
4,	Total Noise and Dis	tortion				
		and Distortion measurement ent Type 8903 B distortion a			0 measuring ampli	fier was
	At 1000 Hz		TND = 0.6 %			
8	Estimated expanded	uncertainty	0.7 %		ž	
	of uncertainty in mea	tainties have been calculate isurement", and gives an in d unless explicitly stated.				
	1	1	- End -	1		
	Calibrated by:	Fung Chi Yik	Checked by:	Feng Junqi		
The	1	06-Aug-2020	Date:	07-Aug-2020		
		ent used in the calibration a naintain the required accura		mernauonai re	cogniseu standard	s and are

HIKAS has accreated this laboratory (Heg. No. HUKLAS 028) Under HUKLAS for specific calibration activities as listed in the HUKLAS intercory of accredited laboratories. The results shown in this certificate are traceable to the International System of Units (SI) or recognised measurement standards. The results relate only to the item(s) calibrated. This certificate shall not be reproduced except in full without approval of the laboratory.



### (A+A)\*L Accusics and Air Teshing Laboratory Collid 警覺及空氣測試實驗室有限公司

### Certificate of Calibration

#### for

Description:	Sound Level Meter
Manufacturer:	NTIAudio
Type No.:	XL2 (Serial No.: A2A-13663-E0)
Microphone:	ACO 7052 (Serial No.: 73912)
Preamplifier:	NTi Audio MA220 (Serial No.: 5735)
	Submitted by:

Customer:	Acuity Sustainability Consulting Limited
Address:	Unit C, 11/F, Ford Glory Plaza. No. 37-39 Wing Hong Street,
	Cheung Sha Wan, Kowloon, Hong Kong

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

V	Within
	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: 08 September 2020

Date of calibration: 09 September 2020

Calibrated by:

Calibration Technician

Par

Date of issue: 09 September 2020

Certificate No.: APJ20-104-CC001

Certified by: Mr. Ng Yan Wa Laboratory Manager

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Page 1 of 4

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fc Tan. Shatin,N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946



### (A+A)\*L Acousties and Air Testing Laboratory Co. Ltd. 登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:	23.8°C
Air Pressure:	1008 hPs
Relative Humidity:	62.5 %

#### 3. Calibration Equipment:

	Туре	Serial No.	Calibration Report Number	Traceable to	
Multifunction Calibrator	B&K 4226	2288467	AV200041	HOKLAS	

#### 4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of Unit	-under-t	est (UUT)	Аррі	licd value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. We	ighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Sett	ing of Un	it-under-t	est (UUT)	Арр	lied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	Veighting	Time Weighting	Level, dB	Frequency, Hz	ав	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL.	Fast	104	1000	104.0	±0.3
				114		114.0	+0.3

Time Weighting

Seit	ing of U	uit-under-t	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class I
Range, dB	z, dB Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	d B.	Specification, dB
30-130	dB∧	SPL	Fast Slow	91	1000	94.0 94.0	Re." =0.3
					(S)	Course Carling	

((A+A) \*L

Page 2 of 4

Certificate No.: APJ20-104-CC001

Room 422,Leader Industrial Centre,57-59 Au Pui Wan Street ,Fo Tan, Shatir, N.T.,Hong Kong Tel: (852) 2668 3423 Fax:(852) 2668 6946 Homosona Hamilton Wantur as Joh com



### (A+A)\*L Acoustics and Air Testing Laboratory Co. Ltd. 登學及空氣測試實驗室有限公司

#### Frequency Response

Linear Response

Setu	ing of Unit	t-under-f	est (UUT)	Аррі	ied value	CUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB		
					31.5	94.3	±2.0		
					63	94.3	±1.5		
					125	94.3	±1.5		
					250	94.2	±1.4		
30-130	dB.	SPL	Fast	94	500	94.1	+1.4		
					1000	94.0	Ref		
					2000	93.8	11.6		
					4000	\$3.6	±1.6		
					80:10	93.4	-2.1; -3.1		

A-weighting

Sett.	ing of Unit-un	der-t	est (UUT)	Арр	lied value	UUT Reading,	HEC 61672 Class J	
Range, dB	dB Freq. Weighting		eighting Lime Weighting		Freq. Weighting Lime Weighting Level, dB Frequency, Hz		dB	Specification, dB
					31.5	54.8	-39.4 22.0	
					63	68.0	-26.2 _1.5	
					12.5	78.1	-16.1=1.5	
					250	85.5	-8.5 _1.4	
30-130	dBA S	SPL	Fast	94	500	90.8	-3.2 = 1.4	
					1000	94.Ú	Ref	
					2000	95.0	+1.2 :: 1.6	
					4000	94.6	$\pm 1.0 \pm 1.5$	
			1		8000	92,3	-1.1-2.1; -3.1	

C-weighting

Sett.	ing of Uni	t-under-t	est (UUT)	Appl	lied 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 12.0
					63	93.4	-0.8+1.5
					125	94.1	-0.2+1.5
					250	94.1	$-0.0\pm0.4$
30 - 130	dBC	SPL	Fast	94	-500	94.1	-40.0 ±0.4
					1000	94.0	Ret
					2000	93.6	-0.2.51,6
					4000	92.8	$-0.8 \pm 1.6$
					8000	90.4	-3.0+2.1;-3.1

Certificate No.: APJ20-104-CC001



Room 422,Loader Industrial Centre 57-59 Au Pui Wan Street ,Fo Tan, Shatin, N.T., Hong Kong Tel: (852) 2668 3423 Fax: (852) 2668 6946 Llomonoro bith: //www.co.lob.com Empil: induity.@co.lob.com



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### 5. Culibration 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 cB	31.5 Hz	$\pm 0.05$
	63 Hz	± 0.05
	125 Hz	<u>1</u> 0.05
	250 Hz	上 0.05
	500.Hz	+ 0.05
	1000 Hz	± 0.05
	2000 Hz	⊖ 0.05
	4000 11z	+ 0.05
	8000 Hz	+ 0.10
104 dB	1000 Etz	± 0.05
114 dB	1000 Hz	<u>1</u> 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.  $(A+A)^*I$ , shall not be liable for any loss or damage resulting from the use of the equipment.

Certificate No.: APJ20-104-CC001



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Room 422,Leader Industrial Centre,57-59 Au Pul Wan Street ,Fo Tan, Shatin,N.T.,Hong Kong Tel: (852) 2668 5423 Fax: (852) 2668 6946







This instrument was produced under rigorous factory production control and documented standard procedures. It was individually visually inspected, leak tested and function tested for display, backlight, button and software performance. The accuracy of each of its primary measurements was individually calibrated and/or tested against standards traceable to the National Institute of Standards and Technology ("NIST") or calibrated intermediary standards. This instrument is certified to have performed at the time of manufacture in compliance with the following specifications as they apply to this meter's specific model, measurements and features.

#### Methods Used in Calibration and Testing

#### Wind Speed:

The Kestrel Weather & Environmental Meter impeller installed in this unit was individually tested in a subsonic wind tunnel operating at approximately 300 fpm (1.5 m/s) and 1200 fpm (6.1 m/s) monitored by a Gill Instruments Model 1350 ultrasoric time-of-flight anemometer. The Standard's maximum combined uncertainty is +/-1.04% within the airspeed range 706.6 to 3023.9 fpm (3.59 to 19.93 m/s), and +/-1.66% within the airspeed range 166.6 to 706.6 fpm (0.86 to 3.59 m/s).

#### Temperature:

Temperature response is verified in comparison with a Eutochnico 4600 Precision Thermometer or a standard Kestrel 4000 Weather & Environmental Meter calibrated weekly against the Eutochnics 4600. The Eutochnics 4600 is calibrated annually and is traceable to NIST with a system accuracy of +/- 0.05 °C.

#### **Direction / Heading**

The sensitivity of the magnetic directional sensor is verified at the component level by applying a magnetic field to the sensor and measuring the signal output at 4 points, as well as after assembly by orienting the unit to the cardinal directions and measuring the magnetic field output. In both cases, the compass output must be accurate to within +/- 6 degrees.

#### Relative Humidity:

Relative humidity receives a two-point calibration in humidity and temperature controlled chambers at 75.3% RH and 32.8% RH at 25° C. The calibration tanks are monitored with an Edgetech Model 2002 DewPrime II Standard Chilled Mirror Hygrometer. Following calibration, performance is further verifed at an RH of approximately 43.2% against the Edgetech Hygrometer. The Edgetech Hygrometer is calibrated annually and is traceable to NIST with a maximum relative expanded uncertainty of +/~ 0.2% RH,

#### **Barometric Pressure:**

Pressure response is verified against a Valsala PTB210A Digital Barometer or a standard Kestrel 4000 Weather & Environmental Meter calibrated weekly against the Valsala Barometer. The Valsala Barometer is calibrated annually and is traceable to NIST with an accuracy of +/-0.15 hPa at +20°C defined as the root sum of the squares (RSS) of end point non-linearity, hysteresis error, repeatability error and celibration uncertainty at room temperature.

#### Approved By:

12

The enclosed Kestrel Weather & Environmental Meter was manufactured by Nielsen-Kellerman Go, at its facilities located at 21 Greek Circle, Boothwyn, PA 19061 USA

Michael Naughton, Engineering Manager



999956	030053	988245 	0.5544	3500	NINGS -	8880) -		03106	Contraction of the		SENSO	NO NESOLITION	SPECIFICATION	OPERATIONAL	NOTES
2000	2500	3000	3608	OT	4000	4200	4260	4300	4500	Boll Istics	ACCURACY (+!.)"	RESOLUTION	RANGE 0.6 to 40.0 m/s	RANCE 0.6 to 50 C m/s	NOTES 1 inch[25 mm diameter impelier with precision axis and inventition Zytel® beerings, State
											Larger of 3% of	\$ Itimun 0.1 kravh	118 to 7,874 R/min 2,2 to 146 D 2 mm	118 to 11,611 f/min 2,2 in 216.0 km/b	spage state as lower limit, readings may be taken down to 0.4 mis   79 f/min   1.5 km/h mph   .5 kt after impetier statup, Of anis accuracy -1% @ 5º off-adia: -2% @ 10°; -3% @
٠	•	۰		ø	۵	۵	9	۰	6	0	reading, least sign\$1cant digit or 20	0.1 mph 0.1 knots	1.3 to 89.5 mph 1.2 to 77.8 knots	1.3 le 134.2 mph 1.2 to 116,6 knote	Calibration drift = 1% effect 100 hours use at 15 MPH [ 7 mio. Reptacement impolier (NK i 0601) field installe without bools (US Patent 5,783,703). Wind speed calibration and testin
											Rimia	18" 9.1 F/S"	9 to 12 B* 2-131.2*	0 to 12 8* 2-196.9 F/S*	should be done with blangle on imperier located at the lop front face of the Kestrel. *F/S only in Ballistics units. Beaufort not available in Ballistics units.
							:								Hermotically scaled, precision thermistor mounted externally and thermality isolated (US
		_	_		_	-				_	0.9.7	0.1 17	-20.0 to 156.0 ° P	14.9.9 to 131.0 °F	Patent 5,020,840) for rapid response. Airflew of 2.2 mphil m/s or greater prevides testas response and valuebon of inscision affect. Calibration entrinegligible. The mission agriat be used to magung temperature or warener as more by submerging thermistion proton site.
•	Ŷ		•	•	· *	•		•	•		0.6 10	0.5 °C	-29.0 to 70.0 °C	-10,0 to 55,0 °C	be used to mesouria (angletaura of water at same by submission) private has metanist remove impetent prior to taking submenged mesourcements and notive handla sensor membrano is free of iquid water prior to taking humbity-based measurements off
															submersion.
											:				Polymer capacitive humidity senser mounted in thin-walled chamber activital to case for replit, accurate response (US Patent 6.257.074). To achieve stated ecouracy, unit must b
		0	8	ø		۰	.0	a			3.0 %RH	0.1 % RH	S to 95% non-condensing	0 to 100%	permitted to equilibrate to external temperature when exposed to longe, repid temperature changes and be kept out of direct sunight. Calibration drift 41-2% over 24 ments. Humi
															sansor may be recalibrated at factory or in field using Kestrel Humidity Calibration Kik (Ni 0802)
											C.		5.56 to 32.49 InH g 300.0 to 1100.0 hPoimber	10.0 to 1654.7	More little slicon piezorosistive pressure senser with second-order temperature conective Pressure sensor may be recalibrated at factory or in Reid. Adjustable reference a bludo a
	•		•	۹		3			a	•	: 03 InHig 1.0 bPalimbar	0.91 inHg 0.1 hPojmbar 9.01 PSI	4.35 to 15.95 PS1 and	0,64 to 24.00 PSt antri	display of station prossure or bencmetric pressure connected to MSL. Kestrel 4200 display station preceive on a dedicated section. Kestrel 2500 and 3500 display convinuency upd
											0.01 PSI	alon PS	32.0 to 185.0 °F 0.0 to 85.0 °C	and 14,9 to 131,0 °F -10,9 to 55,0 °C	Broad-hour baronotic pressure trans indicator: ning rapidly, ning, steady, falling, fallin septily. Kestrel 4000 series dischars pressure trend through graphing function. P3I clipte Kestrel 4000 sories only.
														1000 33.5 0	2-axis solid-state magnetoresistive sensor mounted perpendicular to unit plane. Accurac
									•		5*	17 1/16th Cordinal	0 to 360*	C to 360*	sensor dependent upon units vertical position. Self-calibration routine eliminates magnel error from baltarise or unit and must be run offer every full power-deven (optery remaval
												Scala			change). Readout indicates direction to which the back of the unk is pointed when held in vertical orientation. Declination/variation adjustable for True North readout.
									C	ALCU	LATED MEA	ASUREME			
2000	2590	3000	3500	3500 DT	4000	4200	4250	4300	4500	Ballistics	ACCURACY (++-)*	RESOLUTION	SPECIFICATION RANGE	SENSORS ENPLOYED	NOTES
											0.0002 R/R <sup>3</sup> 0.0033 kg/m <sup>3</sup>	0.001 (bs/f)* 0.904 kg/m²	Refer to Ranges for Gensors Employed	Temperature Relative Hurrydky Pressure	Mass of sit per unit volume
	÷											T sim T milter			Volume of air flowing through an opening. Automatics ty calculated from Air Valocity
						۰					0,0671	m'm t	Refer to Ranges for Sensors Employed	Air Flow User Input (Ouet Shape & Size)	Volume of all flowing through an opening , hutprobable ty colociated from Pir Volcom measurement and user-specified duct chaps (circle or rectangle) and dimensions (unlist from or m). Maximum duct dimension input: 255.0 fb (21.5.4) 555.2 m) 6.55 m.
											huminals 35.6.0	0.1mm <sup>2</sup> /s 14/s	typical: 750 k (100	• •	<ul> <li>m. emior m). Waximum duct dimension input: 2004 (3) 21.5 % yearsa (201 p.35 m).</li> <li>Height above (Mean Soa Level (*1931). Temperature compensated pressure (perometric</li> </ul>
			•	•	•	•		•	•		typical: 23,6 R 7.2 m mex: 46,2 t	s nt 1 m	typical: 750 ki (100 mDar	Prossure User input (Reference	"Remains one data and a set of
	1										14,7 m 0.07 loHg	0.D1 kHg	max: 366 to 750 mBar	Pressure)	Trad mean Trad mean Air pressure that would be present in identical canditions at MSL. Station protocore
	•		٠	ą		۰,		٠	٠		0.07 loHg 2.4 hPol/mbor 0.03 PSI	0.01 krHg 0.1 hPatrabar 0.01 PSt	Roler to Rangos for Sensors Employed	User Input (Reference Atthute)	Ar pressure that would be present in identical schollion at MSL. Station practure e compensated for ic cal elevation provided by reference altitude. Required accurate refert altitude to produce maximum absolute accuracy.
												tenph 1 Bhenig			
									8	•	0.071	0.1 km/h 0.1 km/h	Releato Ranges for Sensors Employed	Wind Speed Compase	Effective wind relative to a larget or travel direction: Auto-switching headwind/toiwind indication.
												0.1 knots		Temporalum	Difference between dry built terrosciature and wat built temperature. When spraying, ind
				٠							3.2 °F 1.9 °C	0.1 °F 0.1 °C	Refer to Ranges for Sensors Employed	Reistive Humidity Prossure	evaporation rate and droplet lifetime. Sate range for pesticide spraying is 4 $\%$ 16 $\%$ I 2 $\%$ *G.
							8	•	•		2215 m	1 ft 1 m	Refer to Ranges for Senaura Émpleyad	Temperature Relative Humidity	Local air deneity converted to equivalent alevation abovo soa favol in a uniform fayou consisting of itse international Standard Atmosphere.
											3.4 °F	0.1 TF	15 to 95 % FH	Pressure	Temperature that a volume of air must be cooled to at constant pressure for the water ve
		8	۰	œ	9	8	8	•	8	•	1.9 °C	0.1 10	Rofer to Range for Temperature Sensor	Relative Humidity	present to condense into detv and form on a colid parface. Can also be considered to be trader-to-air extraction temperature.
														Wind Speed Temperature	The rate at which moisture is test from the surface of curing concrete. Requires usor measurement and entry of concrete termensture obtained with an assurate IR or probe
								٠			0.01 35353hr 0.05 kg/m2/hr	0.01 intrine 0.01 kg/m <sup>3</sup> /hr	Refer is Ranges for Genaurs Employed	Relative Humidity Pressure	thermometer ("Fior "C, not included). Readings should be taken 20 inches above pour surface with the thermister checked and exercised for 6-10 seconds using hull-in average
														User leput (Conorda Temperature)	function.
		а	•		9	۰	8		8	٠	7.1"F 4.0"D	0.1 TF	Refer to Ranges for Sensors Employed	Temporaluié Reletive Humidity	Perceived temperature resetting from the combined offect of temperature and relative humptify, Calculated based on NVB Heat indisc (HI) tables. Measurement range limited extend a published radies.
	-										.3 gpp	0.1 gpp	Refer to Ranges for	Temperature Relative Humidity	Mass of water vaper in a mass of sit.
											.04 g/kg	0.01 g/kg	Senaora Employed	Pressure Temporaturo	
							a				0.002@	0.904	Refer to Ranges for Sensors Employed	Relative Humidity Pressure	The ratio, expressed as a percentage, of measured air density to the sir density of a step atmosphere as defined by the ICAO.
														Temperature	Temparature indicated by a sting psychrometer. Due to nature of the psychrometric rate
			٠		۰		٠	٠	٠	•	1.8 'C	0.1 112	Relar to Ranges for Geneors Employed	Relative Humidity Pressure	water-sit system, this approximates the thermodynamic well-cub temperature. The thermodynamic work bub temperature is the temperature a parcel of air would have if one which there is the temperature of the temperature.
															adis balically to saturation temperature via water evaporating into $m x$ .
											1.6 °F	0.1 <b>T</b> F	Refer to Ranges for	Wind Speed	Paroxived temperature resulting from combined effect of wind speed and temperature. Celosialed based on the NWS Wind Chill Temperature (WCT) index, revised 2001, with:
•		8	•		•	•		•		•	0.9 %	0.1 °C	Sensors Employed	Temperature	speed adjusted by a factor of 1.5 is yield equivalent results to wind speed measured at " shove ground, Measurement range limited by extent of published tables.
ies:	sinat			39970) 19970)	192622	-	668) 1				ONAL SPE	CIEICATIC	INS		
•	ingeligene :	803945 8		9992189	020256	594896	924535	(ARESELS)	sterrativ.		Rofloctive 3 1/2 digit L	OD. Digit height 0.38	5 in / 5 mm Aviation graen	electroluminescent bar	cklght. Menual octivation with auto-off.
			•	3							Rolloctive 5 digit LCD	. Digit height 0,36 in	9 mm. Cheise of aviation	grean or visible red (N	V modele only) electroluminescent backlight. Manual activation with auto-off,
						٥	•		•	•	Mutilfunction, multi-dig	gir məqəsijaamə datı	matrix display. Choica et a	viaben green er visible	red (NV models only) electroluminescent becklight. Automatic or manual activation.
•		•							a		Al measurements axo	cept likese based on fully novélarate to a	relative humidity respond a Jacon shaces in 194 magaz	counstely within 1 seco remark environment, (	nd. Relative humidity and all enacevremente which include RH in their ealculation may ree Display apolatas avary 1 second.
											-		Gust and everage Wind ms		
Ť		•	•								Max and average wind	d calculation may be	staried and stopped indep	andenily of stata loggin	g of other values, along with all other wind-related functions: air valueity, crooswind,
					· • •						headwind/tallwind, wir Minimum, meximum, s			d for every measured (	value. Large capacity data logger with grophical display. Manual and auto data storage.
					4000	3700 octats	3200	3854 aning	2900	2500 points	Mini Max/Avg history r intervals (cade version	may be reset indeport	idon Ry, Auto-store interval :	settable from 2 second	ts to 12 hours, overwrite on or off. Logs even when display off except for 2 and 5 second
											Requires optional PC	interface (USB or RS	S-232) or Bluetooth data to	ansfar option and prov	ided software. to 38 ft ( 5 meters, individual unt; ID and 4-digit Pill code preprogrammed for easy identifi
	_	_			•	a		•			and data security who Real time hours minut	n pairing and transm	liting. Employs Divolooih S	Inital Post Protocol for	data transmission.
	*	•	ŝ	•	٠		٠	•	•			las saconds elecik, ca	alandar, automatic loap-yea	r adjustmont.	
•	•	. *	•	•	:	۹.	è.	•		3		or 60 minutes with m	o key presses or disabled .		
	. • ;	° °	٠	•	6	8	9	•			CE certified, RoHS an	d WEEE compliant.	ind Mdually tested to NIST-	traiceatile standards (v	xtitan corificate of teats available at ackitional charge). Regional Value Content and Teriff Code Transformation recultements for NAFTA Professo
•	•	•	•	•	۵	٩	۰	٠	۰	•	Orterior 8.		om US and Imported comp hours. Bottary Life reduced		
4	•.	8	.• .		-										ill te 3500 medele. y backlight ar Bluckoth /zdile Izanzmizalen use.
,	-			~		*		•	•				sjuded, Avenage (Re, 400 ho 6.5 Procedure IV: wait only:		
										•	Waterproof (1907 and	NEMA-5).			rational temperature range of the display and batteries by maintaining, the unit within the
	•	9	a	9		•	9	8		4	operational range and	exposing it to the m	mante may be taken bayor Iore exilicine envêlennent fi		
۰			۰		ą	4	•	•	a	• .	-22.0 "File 140.0 "File 4.8 x 1.9 x 1.1 in / 12.		cz / 102 g (including silp-s	n covar).	
	è			a											
8 8 8	÷	•		a	` •	в			a	5	5.0 x 1.8 x 1.1 in / 12. 6.5 x 2.3 x 1.1 in / 16.	7 y 4.5 x 2.8 cm, 3,6	oz/102g.		



# Appendix F

# Event/Action Plan for Noise Exceedance





### Event and Action Plan for Construction Noise Monitoring

Event	Ac	tion						
	ЕТ		IEC		ER		Со	ntractor
Action Level	1. 2. 3. 4.	the source and cause of the complaint/ exceedance(s) Notify IEC, ER, and Contractor and report the results of investigation to the Contractor, ER and the IEC Discuss with the Contractor and IEC for remedial measures required	1. 2. 3.	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. 2.	if required, to the IEC and ER
imit Level		<ol> <li>Notify IEC, ER, EPD and Contractor</li> <li>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 as far as practical.</li> <li>Repeat measurement to confirm findings</li> <li>Increase monitoring frequency</li> <li>Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemente</li> <li>inform IEC, ER and EPD the cause &amp; actions taken for the exceedances</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD ER informed of the results</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	ed.	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions</li> <li>Review Contractor's remedial actions to assure their effectiveness and advise the ER &amp;ET accordingly</li> <li>Supervise the implementation of the remedial measures</li> </ol>	2. 3. 4.	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	2.1 3.1 4.1	Take immediate action to avoid further 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 not under control Stop the relevant portion of works as determined by the ER until the exceedance is abated



# Appendix G

# Noise Monitoring Data



					Leq-5min	, dB(A)						Adjusted	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</sub> 30 <sub>mins</sub> , dB(A)	L9030 <sub>mins</sub> dB(A)	Adjusted Measured Level dB(A)**	Level, dB(A)	Noise Meter
08/04/2021	13:25 - 13:55	Sunny	69.3	68.9	67.6	66.8	69.8	66.1	68.3	71.6	60.8	N/A	70.0	NTi XL2 13663
15/04/2021	13:31 - 14:01	cloudy	67.8	68.3	69.8	67.7	71.8	69.8	69.5	72.2	62.1	N/A	70.0	NTi XL2 13663
21/04/2021	15:50 - 16:20	Sunny	66.9	68.6	69.0	69.2	67.1	64.9	67.9	71.6	57.5	N/A	70.0	NTi XL2 13663;
28/04/2021*	12:07 - 12:37	Sunny	67.4	67.5	66.5	67.5	66.8	68.8	67.5	70.3	61.4	63.9	65.0	NTi XL2 13663

Remarks:

\*NSR4 was appointed as a Hong Kong Diploma of Secondary Education Examination (HKDSE) examination centre from 23<sup>rd</sup> to 30<sup>th</sup> April, 2021 in the reporting period. Hence the noise limit level was 65.0 dB(A) on 28th April, 2021 and 70 dB(A) for other impact monitoring dates. DSE examination schedule and Academic School Calendar can be found in **Appendix O**.

\*\* Adjusted Measured Level = 10\*log(10^(0.1\*measured level) -10^(0.1\*baseline level during examination))

\*\* Adjusted Measured Level on 28/04/2021 = 10\*log(10^(0.1\*67.5)-10^(65.0))



# Appendix H

### Waste Flow Table



# Monthly Summary Waste Flow TableName of Department:WSDWSDContract No. / Works Order No.:Monthly Summary Waste Flow Table for April 2021

	Actual Quantities o	f <u>Inert</u> Construction Wa	ste Generated Mo	onthly	
Total Quantity Generated (see Note 4)	Hard Rock and Large Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed of as Public Fill	Imported Fill (see Note 1)
(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> )
1.157	0.063	0.000	0.000	1.157	0.518
5.178	0.043	2.211	0.000	2.520	3.200
13.173	1.506	0.291	0.000	12.878	1.323
2.438	0.120	0.000	0.000	2.438	0.127
1.702	0.224	0.000	0.000	1.702	0.537
2.780	0.163	0.000	0.000	2.780	1.361
2.338	0.271	0.222	0.000	2.116	0.629
0.258	0.779	0.222	0.000	0.026	2.654
	Generated (see Note 4)           (in '000m <sup>3</sup> )           1.157           5.178           13.173           2.438           1.702           2.780	Total Quantity Generated (see Note 4)       Hard Rock and Large Broken Concrete (see Note 3)         (in '000m <sup>3</sup> )       (in '000m <sup>3</sup> )         1.157       0.063         5.178       0.043         13.173       1.506         2.438       0.120         1.702       0.224         2.780       0.163         2.338       0.271	Total Quantity Generated (see Note 4)         Hard Rock and Large Broken Concrete (see Note 3)         Reused in the Contract           (in '000m <sup>3</sup> )         (in '000m <sup>3</sup> )         (in '000m <sup>3</sup> )         (in '000m <sup>3</sup> )           1.157         0.063         0.000           5.178         0.043         2.211           13.173         1.506         0.291           2.438         0.120         0.000           1.702         0.224         0.000           2.780         0.163         0.000           2.338         0.271         0.222           0         0.163         0.000           1.100         0.163         0.000	Total Quantity Generated (see Note 4)         Hard Rock and Large Broken Concrete (see Note 3)         Reused in the Contract         Reused in other Projects           (in '000m <sup>3</sup> )           1.157         0.063         0.000         0.000           5.178         0.043         2.211         0.000           13.173         1.506         0.291         0.000           2.438         0.120         0.000         0.000           1.702         0.224         0.000         0.000           2.780         0.163         0.000         0.000           2.338         0.271         0.222         0.000           0.163         0.000         0.000         0.000           2.338         0.271         0.222         0.000	Generated (see Note 4)         Broken Concrete (see Note 3)         Reused in the Contract         Reused in other Projects         Disposed of as Public Fill           (in '000m <sup>3</sup> )           1.157         0.063         0.000         0.000         1.157           5.178         0.043         2.211         0.000         2.520           13.173         1.506         0.291         0.000         2.438           0.120         0.000         0.000         2.438           1.702         0.224         0.000         0.000         2.780           2.338         0.271         0.222         0.000         2.116



	Actual Quantities of <u>Non-inert</u> Construction Waste Generated Monthly									
Month	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. General Refuse disposed at Landfill					
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )					
2018	0.000	0.417	0.000	0.000	0.139					
2019	0.000	0.062	0.000	0.000	0.102					
2020	0.000	0.606	0.000	0.000	0.043					
Jan 2021	0.000	0.065	0.000	0.000	0.006					
Feb-2021	0.000	0.058	0.000	0.000	0.012					
Mar-2021	0.000	0.055	0.000	0.000	0.002					
Apr-2021	0.000	0.045	0.000	0.000	0.008					
Total for 2021	0.000	0.223	0.000	0.000	0.028					

Notes:

1. The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

2. Plastic refer to plastic bottles/containers, plastic sheets/foam from packaging materials.

3. Broken concrete for recycling into aggregate.



- 4. "Total Quantity Generated" only refers to the actual quantities of inert C&D materials generated monthly excluding those that will be recycled (Hard Rock and Large Broken Concrete, Reused in the Contract, Reused in other Projects). Imported fill will not be included in "Total Quantity Generated" as those C&D materials are not generated from this project.
- 5. C&D materials in tonnes are converted to meter cube  $(m^3)$  on a scale of 0.5.
- 6. Source and types of Imported Fill in the reporting month
  - i. K. Wah Quarry Company Limited: (Soil) 501.13m<sup>3</sup> (1002.26 tonnes/25 cars)
  - ii. K. Wah Quarry Company Limited: (Sub-base) 128.05m<sup>3</sup> (256.1 tonnes/5 cars)

7	<ol><li>Hard Rock and Large Broken Concrete are disposed to pu</li></ol>	ublic fill, the breakdown of C&D materials dispo	osed to public fill is shown as below:

Type of C&D Materials	Description of C&D Materials	C&D Waste Disp osed (Volume) (m <sup>3</sup> )
	Bentonite	43.5
	Broken Concrete	140.00
	Broken Rock	131.35
	Mixed Construction Waste (>50% inert)	3.75
Inort	Building Debris	43.00
Inert	Mixed Rock and Soil	1242.25
	Reclaimed Asphalt Pavement	116.50
	Slurry	174.10
	Soil	221.60
	TOTAL =	2116.05
Non-inert	TOTAL =	7.55



# Appendix I

# Landfill Gas Equipment Certificate

Monitoring Calibration





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 **UNIT INFORMATION :** Model : QRAE III Customer: Penta Ocean Construction Co Ltd Serial # : M02A016735 Firmware V2.14 Sensor : LEL/O2/CO/H2S Cal date 28-Jul-2020 Inspected: Teddy SENSOR DATA : H2S sensor (Tox2) LEL sensor (ME) O2 sensor CO sensor (Tox1) Calibration dates: 28-Jul-2020 28-Jul-2020 28-Jul-2020 28-Jul-2020 After Calibration level 50% 18.00% 50 ppm 10.1 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 Status: Pump Speed Back Light Manual Low Clock Measure Average Yes **LEL Gas Selection** LEL Calibration Gas Methane LEL measurement Gas Methane LEL Custom Gas LEL\_custom\_gas LEL Custom Factor 1.0 Gas types used : 4-Gas Mix: (18% O2, 50ppm CO, 10ppm H2S, 50% LEL CH4, BAL N2) Gas lot #13333090 Cyl# 18 \*\*\* Fresh Air Calibration is highly recommended to proceed prior for measurement each time.

Replaced Parts:

Notes:

The unit was calibrated and checked under good working condition

\*\*Next calibration date on or before 27 July 2021

14:14 Serviced by <u>Teddy work</u> Rotter International Ltd



# Appendix J

# Landfill Gas Monitoring Data



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
ATTAR	1-4-2021	0237	Fire	0	2	0	20.3	2.6/1009	7.5
	1-4-204	(220	Fine	0	0	0	20.3	28/ 1508	<u> </u>
	1-4-204	1700	Fine	0	0	0	20.9	28/ 1006	5.5
Area B	1-4-2021	0845	Fire	0	3	8	20.9	26/ 1009	2.5
	1-4-2021	1343	F- ~2	0	0	0	20.9	28/ 1008	2.5
	1-4-2021	1645	Fine	0	<u>ی</u>	<u> </u>	20.9	28/ 1006	2.5
								1	
								/ / /	

Name & Designation Signature

Ting Wai Kin (Safety Officer [RenoPipe]) Field Operator:

<u>Date</u> 1-4-2021

1-4-2021.

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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
CH.FC 4+70	1/4/2021	0\$23	Fine	J	0	0	20.9	26/1009	2.5	
	114/204	1355	Fin	ð	0	0	20.9	21/ 1007	2.5	
CH.FC OTA:	1/4/2021	0909	Fine	v	0	0	229	26/1002	2.×	
	1/4/2021	1490	Fine	3	0	0	20.3	27/107	7.5	
P.+C	1/4/2021	0917	Fine	0	0	đ	Z0.5	27/1004	£	
	1/4/2021	1415	Fine	្ល	0	0	26.9	28/1007	Ł	
157 PH C	1/4/204	09499	F're	2	2	Ø	20.9	21/1259	7	
	1/4/2021	1445	Fin	3	0	2	204	28/1007	7	
137 17:4 15	114/1011	0955	Fre	a	0	Û	20.9	27/1204	8.6	
	1/4/2021	1455	Fine	a	0	,0	20.9	28/1227	8.6	
137 Vit A	1/4/2021	1095	Fire	3	9	0	20.3	27/1029	8.3	
	1/4/204	1505	FINE	<u>ه</u>	3	0	2.0.3	28/ 1006	3-1	
WPRI	1/4/204	1015	Fire	0	0	J	20.4	Z7/1009	2.2	
	14/001	1212	Fine	0	0	0	20.3	28/1006	2.8	

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 1/46/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL FROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
FGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monexide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPR 2	1/4/2011	125	Fink.	0	0	0	20.9	27/1004	2.8
	1/4/221	525	Fire	Ø	0	0	1.0.9	28/1006	2-8
WPF 4	1/4/001	1035	Enc	a	0	D	20.4	27/1089	4
	11 4/2021	1535	Fire	ρ	ß	a	20.9	28/1006	4
WPR 3	1/4/2Mi	1947	F-V-	٥	Q	a	20.9	2.8/1004	z.8
	1/4/100	1547	Fine	9	0	0	20.5	28/1006	7.8
P; + A	1/4/2021	1255	94	Ð	Q	0	2_0.5	28 / 1204	×
	1/4/221	100	tine	Ĵ	a	0	20.9	23/1001	У
Pit B	1/4/2011	1105	Fine	0	0	0	20.9	28/1009	3.6
	1/4,2021	1605	Fine	0	Ŭ.	0	20.9	28/1006	3.6
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u>

1/4/2041

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/18 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	7-4-2021	0.371	Fire	0	2	. 0	20.9	21/1018	<u>x</u> .x
	7-4-2021	1550	Fire	0	e	0	20-9	24/ 1018	5.5
	7-4-1021	1720	Five	3	0	٥	Zaq	23/ 1013	⊻.≼
Area B	7-4-200	0 <u>2</u> 47	Fire	0	0	0	2-0.3	21 / 1018	2-5
	7-4-2021	1545	Fire	e	6	0	20-2	24/1017	2.3
	7-4-2021	1647	Five	<i>.</i>	8	3	Z:-7	23/ 1017	2.5
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Name & Designation Signature

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 7-4-2021

Field Operator: Laboratory Staff:

Checked by:

(Fichenn (Foreman) 84 7-4-2021.

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwar. O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
		1	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC 4150	7/4/2011	0855	Fine	0	Û	2	20.4	21/1013	2.7
	7/4/204	1355	Fine	0	Û	0	20.9	24/1015	2.5
CHECOMA	7/4/200	09.1	Fine	ρ	0	2	20.9	21/1013	2.5
	7/4/2021	402	Fire	1	0	0	20,9	24/1217	2.5
Pitc	7/4/2021	0915	Fine	ρ	1	0	20.4	21/1018	2
	7/4/2021	1415	Fire	0	0	0	20.9	24/10/2	<u>z</u>
137 8.2 0	7/4/2021	0945	F.L	0	0	0	20.9	21/1018	7
	7/4/204	1447	Fin	9	0	0	204	24/1014	7
137 Pit B	7/4/204	0455	Fine	0	0	0	20.G	21/1012	2.6
	7/4/201	1475	Fine	3	0	a	20.5	24/1014	8-6
147 Pit A	7/4/2001	1005	Find	0	0	2	20.4	21/1013	8.3
	7/4/204	103	tive		0	0	20.9	23/1213	8.7
WRI	7/4/2021	1012	Fine	0	0	0	20.9	21/1018	2.8
	7/4/2011	1515	Fine	0	0	0	20,9	23/1013	2.3

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 1/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying In Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WIEZ	714/204	1025	Fre	ρ	0	0	20.9	21/1013	2.8	
	7/4/204	1328	Filte	0	Э	٥	20.4	23/1012	2.5	
wre 4	7/4/221	1035	Fire	0	0		20.9	21/1915	4	
	7/4/201	1535	Fire	0	Q	0	20.9	23/1933	4	
WPR 3	7/4/2011	1045	Fire	U	2	0	20.5	22/1013	2.8	
	7/4/2021	1545	Fine	9	0	0	20.9	23/ 10/3	2.8	
<u>p:+ A</u>	714/204	1057	Fine	3	0	0	26.9	12/1018	7	
	7/4/201	1222	Fine	2	0	0	20.5	23/1013	S S	
PX B	7/4/2041	105	Fire	٥	0	0	20.9	22/1018	3.6	
	7/4/201	1601	tine	0	0	0	20.9	23/1213	3.6	
								/		
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Ð 7/4/2021

Date

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	1

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Acra A	8-4-2021	0339	Finz	0	ú	0	22.9	21/1016	X. <sup>x</sup>	
	8-4-2021	1537	Fire	C	3	0	28-3	23/ 10/4	3.5	
	2-4-2021	400	Fine	G	0	C	20.9	23/ 1012	5.5	
Areas	8-4-2021	0247	FIRE	o l	0	0	20.9	21/1016	2.5	
	8-4-2021	1395	Fire	6	C	0	223	23/104	2,5	
	2-4-2021	1645	Fine	Û	G	G	2.0. g	23/1012	2.5	
								1		
								1		
		<u> </u>						/		
								1		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

8-4-2021

<u>Date</u>

Laboratory Staff:

C.F.chan (Foreman) Checked by: dif. 8-4-20-1.

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROPECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
111.FC 4737	8/4/201	0855	F.NL	0	ð	0	20.9	22/1016	2.5	
	\$ / # / 20c1	1355	Fire	0	2	0	2.2.9	24/ 1014	7.5	
CH.FC 2+92	8/4/2021	5725	Fire	3	3	0	203	22/1016	1 5	
	8/4/2021	401	Fine	Ŷ	ρ	0	20.6	24/1044	2.5	
Pitc	8/4/204	2915	Fine	0	0	D	20.3	22/1016	£	
	8/4/204	1415	Fine	Ø	0	0	20.9	24/ 1013	8	
177 Pir C	\$ / 4/ ZOLI	0947	Fine	Ø	Û	0	20.8	23/1016	7	
	8/4/204	1445	Eine	J	э	a	2.0.9	24/1213	7	
141 17:7 13	8/4/2021	0455	Fine	Ű	0	Ó	20.4	24/1016	8.6	
	8/4/2041	1455	Fine	a '	0	ð	20.9	24/1013	3.6	
141 (it A	8/4/2021	005	Fine	0	ð	G	20 4	27/1016	8.3	
	8/4/2021	1202	Fine	0	0	0	29.9	24/1013	8.7	
WILL	\$ 4/ 2021	210	Fire	9	0	3	20.9	25/1016	2.8	
	\$14/2041	(212	Fire	0	0	9	2014	24/ 1012	2.8	

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 8/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WRF 2	8/4pm	lory	Fire	0	0	0	20.9	23/1016	2.8	
	8/4/2021	1525	Elve	9	0	0	20.9	24/ 112	2.3	
WPF 4	\$ 14/2021	1032	Fire	0	0	0	29.9	23/1016	4	
	\$ 14 post	1575	Fine	0	Ø	0	20,9	24/1012	4	
WRF 3	\$ 14/201	104r	FN	0	0	0	2-0-9	23/1010	2.8	
	1/4/2011	1545	Fire	0	Û	8	20.9	24/ 1012	2.8	
Pir A	14/4/	1055	Fine	0	0	0	20.9	23/1015	×	
	\$/4/2021	1222	Fire	G	J	ð	20.9	24/1012	5	
7:1 3	\$14/204	llor	Fire	0	Ø	0	20.9	23/1016	3,6	
	814+1204	1605	Fine	ρ	0	ø	20.9	23/1012	3.6	
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								/		
								/		
		1						1		

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 814/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	1

ENVIRONMENTAL PROTECTION DEPARTMENT

location	Date of measurement			Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
Area A	9-4-2021	0830	Fire	3	0	0	223	14/1918	5.5			
	G - 4 - 1021	1390	Fine	3	0	0	20-2	22/1017	7.2			
	9-4-2021	1790	Fire	0	Ŷ	0	22.9	20/1016	55			
Area B	9-4-2021	⊅ર્ડે4≯	FINE	C	0	0	20.5	19/1918	2.5			
	9 - 4 - LOCI	1345	Fine	0	0	0	265	20/1017	2.5			
	9-4-2021	1145	Fine	0	C	0	2.2.4	24/1016	2.5			
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	_							1				

Name & Designation Signature

Ting Wal Kin (Safety Officer [RenoPice])

<u>2 Date</u> 9-4-2021

Field Operator: Laboratory Staff:

9-4-2021 C.F. chan (Toreison) "of Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
C 4.FC 4150	4/4/2041	2857	Fire	0	D	0	20.9	14/10/3	2.5
	9/4/2021	1353	Fine	0	0	0	25.9	20/1011	2.5
CHEEDTAN	9/4/2001	0920	Fini	D	0	0	20.8	19/1012	2.5
	9/4/2021	( <i>لز9۵</i>	F:he	0	9	0	2.0,9	20 / 1017	2.5
PitC	9/4/204	2413	Fine	Ĵ	0	0	ده ع	19/1018	Q
L	9/4/2021	1415	Fine	0	0	0	20.9	20/1017	2
137 P.7 C	1/4/204	0947	Fire	0	9	2	20,9	20/103	7
	6/4/2021	1447	Fini	Ĵ	0	c	20.8	20 / 1017	7
137 P.7 B	9141204	2435	Fine	٥	0	2	20.	=0/10:3	2.6
	4/4/2024	1458	Fine	0	Q	0	20,9	20/1017	8.6
137 P.7 A	9/4/2001	100-5	E;ne	0	0	0	22.8	20/1013	8.3
	9/4/204	1505	Fine	ρ	0	0	2-0-9	20 / 1017	8.3
WPFI	4/4/2011	1017	Fine	0	C	D	20.9	19/1018	z.\$
Ĺ	95412021	1515	Fine	0	2	Ð	20.8	20/1016	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 9/4/2011

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

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Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment use	d: Dates calibrated
Date of measurement:		PGM-2500 (QRAE !!!)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPR Z	9/4/204	1025	Fine	0	0	9	2.9.4	19/1018	2.8	
	9/4/221	1828	F:re	0	0	0	20.9	20/10/2	2.8	
WPR 4	h/4 224	1035	tine	0	0	0	20.9	19/1018	4	
	9/4/2021	535	Fine	0	0	0	20.3	20 / 1015	4	
WPL 3	4/4/2021	104r	Fire	0	0	0	2_0.4	19/1018	2.8	
	\$14/20m	(545	Fine	0	0	Ĵ	20.0	25/1016	2.8	
PH A	9/4/2014	lorr	Fine	Ð	Ð	Ç	20.9	19/1018	\$	
	9/4/201	1222	Fine	9	Û	0	20.9	22/1216	5	
Pit B	9/4/2021	(105	Fine	)	0	٥	20.9	19/1013	3.6	
	9/4/204	1605	Fin	0	<u></u>	0	20.4	20/1013	5.6	
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				<del>   · · · · · · · · · · · · · · · · · </del>				!		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 914/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEFARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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ENVIRONMENTAL PROTECTION DEPARTMENT

1	Date of measurement			Sampling time	Monitoring wells / Surface Gas Emission							
				Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
	0-4-2021	0879	Fine	6	Q	0	20.1	21/1020	3.5			
	10 - 4 - 2021	1330	File	0	0	0	25.9	24/ 1019	7.2			
	10 - 4 - 2341	1700	Fire	0	0	5	20.5	27/1017	5.5			
ATEAB	10 - 4 - 2021	0847	Fire	ρ	1 0	0	2.9.9	21/1020	Z. 5			
	12 - 4 - 2021	1345	Fine	Û	C	0	2.9.5	24/1019	2.5			
	10 - 4 - 2021	1647	Fine	0	0	Û	20.9	13/1017	2.5			
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Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

10-4-20-1

Date

10-4-2021

Laboratory Staff:

Tef. efichan (Frienan) Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
	1

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
• •			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
C14.FC 4700	10/4/2021	0 <u>%</u> 7%	P.M	0	0	0	20.9	21/1020	2.5	
	10/4/204	(355)	FN	0	0	0	20.9	24/1018	2.7	
CH-FC OHO	11/4/204	0920	Fine	Q	0	0	20.9	21/1020	2.5	
	10/4/2011	490	Fire	0	C	0	20.9	24/3013	25	
PitC	10/4/2021	0917	Fire	0	0	0	20.9	21/1120	2	
	10/4/2021	1415	Fine	0	0	2	20.9	25/1013	3	
157 Pit C	10/4/2021	0947	Fine	0	0	0	20.9	21/1020	1	
	10/4/2041	1447	Fine	0	0	0	20.9	23/1018	7	
137 Pit B	10/4/2021	0955	Fine	0	0	0	20.9	21/1020	26	
	10/4/204	453	Fine	0	٥	0	20.9	23/1213	8.6	
131 Pit A	10/4/2021	1005	Fine	٥	0	0	20.9	22/1020	8.3	
	10/4/2024	1505	Finl	0	o	0	20.9	25/ 217	8.3	
WP2 I	10/4/2024	1015	Fine	Q	e	0	20.3	22/1020	2.8	
	10/4/204	<u> (17)</u>	Fine	0	3	0	20.1	23/ 10:1	Z. §	

Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 10/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	ling Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)		Temp (°C) / Pressure (mbar)	Remark Depth (m)		
WPR 2	10/4/204	OLS	Fine	0	0	9	20.5	22/1020	2.5		
	10/4/2011	(725	Fine	Û	0	0	20-9	23/10:7	2.8		
WPF 4	10/4/2001	1033	Fine	0	0	0	20.9	22/100	4		
	10 14/200	1757	Fine	0	0	0	20.9	24/1017	4		
WPL 3	10/4/20mg	04Y	Fine	ð	Û	0	20.4	22/1020	2.8		
· · · · · · · · · · · · · · · · · · ·	10/4/2021	1545	Fine	Û	G	0	2.0.9	25/1017	2.8		
Pit A	10/4/2041	1057	Fine	C	G	0	2_9.9	22/1020	ک ۲		
	10/4/2021	1000	Fine	0	0	0	20.9	27/1017	5		
Pit B	10/4/2021	1/22	Fire	3	Û	0	2.0.9	22/1020	3.6		
	10/4/2021	1605	Fin	0	0	0	20.9	23/1017	3.6		
	-							<u> </u>	<u> </u>		
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Name & Designation Signature

Field Operator:

Ting Wa! Kin (Safety Officer [RenoPipe])

<u>Date</u> 10/46/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

13



Contract no. 13/WSD/16 Contract no. 13/WSD/16

Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m	
Arca A	12-4-201	0834	Fire	0	৩	0	20.3	23/1913	55	
	12-4-2011	1220	Fine	D	0	a	20.9	28/1096	¥.Š	
	12-4-204	700	Five	9	0	0	20.9	26/1017	5.5	
Ateab	12 - 4 - 2021	0842	Fire	ş	0	C	20.4	23/ 1512	2.8	
	12-4-041	1347	Fire	0	0	C	20,3	28/1016	2.5	
	12-4-204	645	Fine	0	Ð	0	20.9	26/ 1013	1.5	
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							· · · · · · · · · · · · · · · · · · ·			
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Name & Designation Signature Ting Wai Kin (Safety Officer [RenoPipe]) Field Operator:

CHERRY CHIJOI(Forenan)

<u>Date</u> 12 - 4-2021

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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13-4-224



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVERONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
( H.FC 4+50	12/4/2021	08.55	Fire	0	0	0	20.9	23/1018	2.5	
	12/4/201	(355	Fine	0	0	ð	20.9	27/1014	2.5	
CHFC 0140	12/4/2021	0900	Fine	0	0	0	20.9	23/1018	2.5	
	12/4/2011	400	Fire	ρ	ø	0	20.3	27/1015	2.5	
Pizc	12/4/2024	0915	Fin	0	ρ	9	209	25/1015	8	
	12/4/2021	1415	Fine	9	0	0	20.9	27/1015	- <u>\$</u>	
M1 77 C	12/4/2021	Ogyr	Fine	0	0	Ø	20.9	24/1018	7	
	12/4/204	1445	Fine	0	0	0	20,8	27/1015	7	
137 Pit B	12/4/2021	0957	Fine	0	. 0	0	29.9	24/1018	8.6	
	12/4/2021	1417	Fine	p	2	0	20,3	27/1015	8.6	
131 Bit A	12/4/2021	1005	Fire	3	3	0	208	25/1018	8.3	
	12/4/2211	1202	Fine	Ĵ	0	ð	20.9	27/1914	87	
W121	12/4/2021	1015	Finz	G	ð	¢	20.9	27/ 1018	2.8	
L	12/ 4/204	1717	Fine	3	9	0	20.4	2:/ 10/4	2.8	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 121412821

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE ill)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time			, <b>.</b>				
-			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WEF 2	12/4/2041	(mi	Fine	0	0	0	20,4	28/1018	2.8
	12/4/2021	174	Fire	0	0	0	20,9	20/1014	2.8
WPR 4	12/4/2021	1.037	Fire	0	2	0	209	EY/ 1018	4
	12/4/2011	1537	Fine	0	0	0	20.9	26/1014	4
WPR 3	12/4/2041	1247	Fine	Û	0	0	2.0.9	26/1018	2.8
	12/4/2021	1545	Fine	ρ	0	0	20.9	26/1014	2.8
Pit A	n/4/2011	1053	Fire		0	0	2.0.9	26/1018	×
	2/4/2021	1922	tine	0	<del>ل</del> ا	U	2.0.9	26/1014	X
Pit B	12/4/2011	(105	Fine	Ú	0		2.0 %	26/1218	76
L	12/4/221	1605	Eine	0	a	0	20.9	26/1014	7.6
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Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>re Date</u> 12/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

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Contract no. 13/WSD/16 Sec. 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:

C.F. Cham

Sampling equipment used:	Dates calibrated		
PGM-2500 (QRAE III)	28 Jul 2020		
	l l		

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	13-4-204	0830	Five	D	0	0	20.9	26/1016	Ţλ.	
	13-4-2021	1530	Fine	0	J	0	209	28/1013	$\chi_{\chi}$	
	13-4-2021	1790	Fine	0	6	0	20.3	28/1011	5.5	
AREA B	13 -4 -204	0847	Five	Q	0	0	209	26/1016	2 1	
	13-4-2021	1345	Fire	9	0	0	2-0.3	28/1017	2.5	
	13-4-204		Fine	0	£	0	20.9	28/10/1	2.5	
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			· · · · · · · · · · · · · · · · · · ·					1		

Name & Designation Signature

Ting Wai Kin (Safety Officer [RenoPipe])

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<u>ature Date</u> A 13-4-2621

Field Operator: Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

(Foreinm)

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13-4-2421

ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
CH.FC 4100	13/4/2011	03.55	Fire	£	0	Ø	20.9	26/1016	1.5		
	13/4/2821	1355	Fire	3	0	9	20.3	23/ 10(4	2.		
CHECOHOO	13/4/204	2400	Fire	0	ð	0	20.9	26/1016	2.5		
	12/4/2021	1400	Fine	Q	0	C	2.9.9	23/ 1017	2.5		
Pirc	14/4/204	04 h	Fine	ə	9	0	20.9	26/1016	£		
``	18/4/2041	1415	Fire	0	2	0	20,9	28/ 1915	ž		
127 Pit C	14/204	same	Fine	0	Q	0	209	ZE / 1016	7		
	12/4/201	ا فهنه	Fire	p	0	0	20,9	23/1013	7		
137 (注 日	13/4/2011	0955	Fine	0	0	0	20.3	2+/ (0)6	8.6		
	19/4/2021	1455	Fine	а : Э	Ð	0	20.4	28/1013	8.6		
157 Pit A	13/4/204	1005	Fine	3	Ø	J	20.2	25/1017	8.3		
	13/4/2011	1505	Fine	3	0	э	20.9	28/1012	83		
WPF1	1314/204	1015	Fine	Û	٥	۵	20.8	2.6/1015	2.8		
	17/4/2024	7121	Fine	ļ 0	0	0	20.9	22/1012	2.8		

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

<u>Date</u> 13/4/2021



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WRF 2	13/4/2021	1025	Fine	0	0	0	20.9	21/10/17	2.}
	13/4/221	(Yly	Fine	0	0	0	20.9	29/104	2.8
WRF 4	17/4/2041	1037	Fine	0	Ĵ	0	229	27/1015	4
	13/4/2021	1778	Fine	0	2	0	20.9	29/10/1	4
WPR 3	13/4/204	1048	Fine	0	0	9	20.9	21/1015	2.8
	17/4/2011	1541	Fine	Ũ	9	0	229	29/1011	2.8
Pit A	13/4/2021	1075	Fire	0	0	0	20.9	27/1015	x
1	12/4/2021	(1)7	Fine	0	0	3	2.9	29/10/1	Х
Pit B	13/4/2021	105	Fine	3	0	0	20.8	27/10/5	5.6
	17/4/201	1605	Fire	0	0	0	209	22/10/1	3.6
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 12(4/2001

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Ates A	14-4-2011	0850	Fine	0	0	9	20.2	25/1014	5.5	
	14-4- WU	1530	Firs	0	0	0	229	28/123	ZX	
	14 - 4 - 2021	1700	Fire	0	G	0	20.9	27/1012	55	
Areab	4-4-204	0 <i>8</i> 47	Fip	3	0	0	20.9	25/1017	2.5	
	14-4-221	13448	Fire	Q	e	C	20.9	25/ 1013	2.8	
	14-9-204	1645	Fire	Û	0	0	20.5	23/ 192	2.5	
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Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

afelon (foreman)

4-4-2021

Date

14-6-2024

Laboratory Staff:

Checked by:

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ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time		<b></b>	Monitoring w	vells / Surface C	as Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CHIFC 4400	14/4/201	2225	Fine	N	Q	2	20.3	25/1015	2.5
	14/4/204	1355	Fire	G	0	0	20.3	24/1013	2.5
CHIFC OTAD		J940	Fine	0	0	0	20.9	25/1015	2.5
	14/2021	1400	Fine	0	a.	0	20.9	24/1017	2.5
P;+C	14/4/200	2915	Fine	Q	0	Ð	203	25/1015	8
	14/4/201	1411	Find	v	Ĵ	ទ	20.4	24/1017	ž.
137 Pit C	14/4/2021	0945	Find	0	ð	a	20.9	25/10/5	7
	14/4/2011	1445	Fire	0	0	0	20-9	24/1012	-7
187 Pit 3	14/4/2021	0958	Fire	Ø	0	0	20.9	25/1015	8.6
	14/4/2021	1455	Enc	٥	0	0	20.9	24/1012	8.6
137 BA A	14/4/2001	1005	Fix	0	0	0	20.5	25/1015	8.3
	14/4/2001	1505	Fine	0	0	0	20.9	24/1010	8-3
WPFI	14/4/2021	1215	Fine	0	0	9	20.9	28/315	2.8
	14/4/202	1715	Fire	Ĵ	G	0	20.9	24/1012	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 14/4/2011

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site:	13/WSD/16 - Mainlaying in Tseung Kwar: O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPF 2	14/4/204	1025	Ene	0	0	0	2-0.5	25/1015	2.8	
	14/4/204	1525	Fine	0	0	Ð	20.9	24/1012	2.8	
WPR 4	14/4/201	1035	Fire	0	Ø	Q	209	25/1015	4	
	414/201	1575	Fine	9	0	0	20.3	24/1012	4	
wpf 3	414/204	1045	Fine	0	Û	0	203	25/10:5	2.8	
	14/4/204	1248	Fire	v	C	0	20.9	23/1012	2.3	
WPR A	14/4/2021	1055	Fine	0	0	0	20.9	27/1015	<	
	4/4/204	1212	Fire	D	0	0	2.9.9	23/112	r	
WPR B	14/4/2001	105	Fine	0	0	0	20.9	25/1015	7.6	
	14/4/204	1601	Fine	0	0	0	29.9	23/1012	3.6	
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		ļ								
								/		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 14/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE !!!)	28 Jul 2020

Sample location	Date of measurement		Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Aces A	[X -4 -201j	6230	Fire	0	0	٥	2.0.9	21/1014	22		
	15-4-2021	1330	Fin	0	0	0	20.9	21/1013	<u>5</u> 5		
	18-4-2024	1700	fine	C	0	٥	20.9	21/1011	<b>y</b> ,Ý		
ATER B	15-4-2011	୍ୟେକ୍	Five	0	3	0	20.9	21/1014	2.5		
	18-9-204	1341	Five	0	0	C	20.4	21/1013	2.5		
	18-9-204	1645	Fire	0	0	0	209	21/1011	2.5		
					· · · · · · · · · · · · · · · · · · ·			/			
		······································			· · · · · ·			1			
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 Name & Designation
 Signature
 Date

 Field Operator:
 Ting Wai Kin (Safety Officer [RenoPipe])
 Image: Second State
 Image: Second State

 Laboratory Staff:
 Image: Second State
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 Image: Second State

 Checked by:
 C.T.Law, (Foreinen)
 Image: Second State
 Image: Second State

 ENVIRONMENTAL RESOURCES MANAGEMENT
 Image: Second State
 Image: Second State



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
14.FL4430	15/4/2001	0355	Fin	0	3	0	2.0.4	21/1014	2.5		
	18/4/2021	1355	Fire	0	Ĵ	0	20.9	21/1013	2.5		
CH.FC0490	15/4/204	2950	Fire	0	a	0	20,6	21/1014	25		
	15/4/201	1400	Find	0	Ċ	0	2.0.3	21/1013	2.5		
Pitc	18/22/201	2915	Fire	Q	э	0	20.9	4/1014	8		
	1814/2011	1411	Fire	Q	)	2	20,9	21/ 1012	3		
137 pir C	18/4/201	09445	Fire	0	0	Э	20.3	21/1014	7		
	15/4/200	445	Fine	0	۵	2	25.3	21/1012	7		
127 817 3	15/4/2001	09 YS	Fine	0	ø	9	20.5	21/1014	8.6		
	17/4/2011	1475	Fine	D ·	0	0	20.9	21/1011	86		
137 PA A	15/4/2001	1005	Fine	0	0	3	20.9	21/10/14	<u> </u> z		
	15/4/204	102	Fine	3	0	3	20.4	21/1011	83		
WPR	15/4/2011	1015	Fine	0	3	0	20,9	21/1014	2.8		
	13/ 4/204	1212	Fire	0	Û	0	i.a.g	4/1011	2.8		

Name & Designation Signature

Field Operator:

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Ting Wai Kin (Safety Officer [Rer.oPipe])

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Date 12/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENV:RONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwar. O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)		
WPF Z	18/4/22	527	Fire	0	0	D	20.9	21/10/4	2.8	
	1×14100	1525	Fine	0	0	0	2.0.9	21/10/1	2.8	
WP1 4	18/4/204	1075	Fine	0	0	D	20.9	21/10/4	4	
	17/4/204	(537	Fige	J	0	Ø	20.9	21/1011	4	
WPF 3	18/4/204	1245	Fine	Ø	0	0	20.9	21/1014	2.8	
	nt 4 seri	134Y	Fine	0	0	Ø	209	4/1011	2,2	
WPR A	15/4/2021	1055	Fine	ρ	Q	0	20.9	21/1014	i ¥	
	15/4/2011	1755	Fine	9	0	Û	20.9	21/1011	x	
WPF F	18/4/201	105	Fire	0	0	0	20.4	121/04	7.6	
ļ	1814/2011	1605	Fine	0	0	0	20.9	21/1011	3.6	
							 [			
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L		<u> </u>							i	

Name & Designation Signature ₽

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 15/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	16-4-2011	0830	Fine	0	D	· 0	203	21/1015	23	
,	11-7-04	1330	Fine	ũ	3	. 0	20.9	24/1013	<u>γ</u> .s	
	16-4-2021	1780	Fine	0	0	0	7.09	23/1012	5.5	
AIRA B	16-4-2021	0847	Fix	1	0	0	20.5	21/1015	2.8	
	16-4-2021	1344	Fine	0	0	G	Z.a. ĵ	24/1017	2.5	
	11-4-24	1647	Fire	0	0	0	20.9	24/ 1012	2.5	
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								1		

Name & Designation Signature Ð

Ting Wai Kin (Safety Officer [RenoPipe])

Field Operator:

Date 16-4-2021

16-4-2034.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O
Date of measurement:	

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement         Sampling time         Monitoring wells / Surface Gas Emission						·		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC 4+20	16/4/2021	0275	Find	0	0	0	20.9	21/1018	2.5
	16/4/204	1355	Fire	. 0	0	0	20.9	24/1013	2.5
CH. FC 0+96	16/4/204	0420	Fin	0	0	0	20.5	21/10/5	2.5
	16/4/204	1411	Fine	P	0	0	20.9	24/1012	2.5
Vir c	6/4/204	0915	Fin	0	0	;	2.0 4	21/1015	8
	16/4/204	141	Fine	0	0	e	20.9	24/1012	S.
137 (17 C	16 4 1001	094×	Fine	ρ	Ø	Q	20.9	21/1015	7
	6 4 2021	1447	Fire	0	Q.	3	20.9	23/122	7
17 Pit B	16/4/204	ogse	Fine	0	0	0	20.5	21/1015	8,6
	16/4/204	1451	Fire	0	C	0	20.4	23/10:2	8.6
117 Pit A	16/4/2041	100 %	Fire	۵	0	0	20.3	1 22/1015	\$3
	6141204	505	Fine	0	J	0	20.9	23/1012	8.7
WRFI	16/4/200	1017	Finl	Q	0	0	20.9	22/1015	2.8
	16/4/204	(2)2	Fine	ļ	0	৩	20.9	23/1012	2.3

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 16/4/2*n*\_1

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 11)	28 Jul 2020

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)		Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPF Z	10/4/2021	1021	Fine	ρ	0	0	20.5	22/1015	Z.§	
	16/4/201	1525	Fine	0	0	0	20-9	23/10m	2.8	
w?f 4	16/4/2011	(235	Fine	Q	0	0	20.9	20/10/5	4	
	16/4/201	535	Fine	0	0	0	20.9	23/10n	4	
WPL 3	16/4/201	1041	Fire	Û	0	0	20.9	22/1015	2.}	
ļ	16/4/204	(545	Fine	0	0	0	2.0.9	23/ 1012	2.2	
Pit A	16/4/2021	1055	Fire	0	0	0	20.9	22/1015	× ×	
L	16/4/2021	1753	Fine	0	Ð	0	20-9	23/1012	5	
Vit 4	16/4/2011	1/05	Five	0	0	0	<i>Lo</i> . G	22/10/5	7.6	
·	16/4/2011	1605	Fine	<u>o</u> '	C	ď	20.9	23/1012	7-6	
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									<u> </u>	
L		<u> </u>	1							

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 16/4/2021

rield Operator:

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESCURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Area A	17-4-204	0830	Fine	0	0	0	204	22/1017	5.5	
	17-4-204	1852	Fine	0	3	0	20.5	22/1016	55	
	17-9-2021	1780	Fine	0	2	C	22.4	22/1015	5.5	
Area B	17-4-204	034x	Fine	. 0	9	9	20.5	22/1017	2.5	
	17-4-2021	1345	Fine	0	0	0	20 9	22/1016	2.5	
	17-4-202	1645	F.N.	<u> </u>	0	0	20.4	22/ loly	2.5	
								/		
· ·=····		<u> </u>							1	

 Name & Designation
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 Ting Wai Kin (Safety Officer [RenoPipe])
 Image: Compare the second se

Date 17-4-2021

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Laboratory Staff:

Checked by:

Field Operator:

17-4-2021 afelan (Foreman) Ert.

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time			Monitoring w	vells / Surface G	las Emission		
	-		Weather condition	Balance gas (%)	Flammable gas (methane %)	. Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC 4450	17/4/2001	0325	Pine	Ò	0	0	20.9	2-1/1017	1.5
	17/4/2021	1355	Fine	0	0	0	2.0.9	22/ 1016	2.5
CH.FC 0 240		0922	FINE	0	2	Q	20.9	22/ 1017	しゞ
	17/4/2021	1400	Fire	i p	3	0	20.9	22/1015	Z. \$
Vite	17/4/204	0917	Ene.	0	0	D	203	22/1011	8
	17/4/201	415	Fine	Ø	Ű	a	20.5	22/1016	Z
137 Vir C	11/4/2021	0943.	Far	0	0	0	20.9	22/1019	7
	11/4/204	1447	Fine	0	0	c	20.9	22/1015	7
137 XX B	11/4 2021	0958	Fire	0	0	0	20.4	12/1017	8.6
	11/4/204	1417	Ene	0	9	0	20.9	22/ 10/7	8.6
IN RA A	17:4/2011	1005	Fine		0	o	20.4	21/1017	Q.7
	17/4/201	1,20,2	Find	0	0	0	20.9	22/ jolr	8.3
W PK I	11/4/204	1017	Fre	0	0	0	20.9	22/13/1	2.8
	17/4/204	1212	Fire.	p	0	0	20.9	22/10/5	2.8

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Office: [RenoPipe])

<u>Date</u> 17/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling Monitoring wells / Surface Gas Emission time								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPE 2	1714/204	lozn	Fine	0	0	0	20.9	22/1017	2.8	
	11/4/2011	1525	Fine	2	0	0	20.9	22/ 1015	2.8	
VII 4	11/4/04	1031	Fine	9	0	0	20.9	22/ 1011	4	
	17/4/2041	1575	Fine	D	0	0	2.0.9	22/1015	4	
WPE 3	11/4/204	1041	Fire	Ø	0	o	203	22/1011	2.8	
	11/4/204	1545	Fire	Û	9	0	22.4	22/1015	23	
Pit A	17/4/2011	1000	Fire	ð	0	ð	20.9	22/1017	×	
	17/4/204	1553	Fior	â	Ø	0	209	22/1015	8	
Rit 6	11/4/201	1.65	Fine	g	Ø	0	2.0.9	22/017	3.6	
	17/4,2021	1605	Fine	0	0	Ű	20-9	22/ 1015	3-6	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 17/4 /2011

rielu Operator.

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Main/aying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE ili)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time			Monitoring wells / Surface Gas Emission						
		* * * *	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Atex A	19-4-204	0 \$30	Fine	0	e e	0	20.3	11/1214	7.×		
	19-4-221	1450	Fine	3	0	0	22.9	24/1014	3.5		
	19-4-25-1	1700	Fina	0	0	0	20.3	24/ 1012	2.2		
ALLA B	19-4-204	0345	Fini	0	۵	,2	20.9	21/1914	2.5		
	19-4-20-1	1345	Fire	3	0	0	20.2	23/ 1013	2.5		
	19-4-2041	1644	Fine	v	0	0	Z=. {	22/ 1012	z. 5		
·····						· · · · · · · · · · · · · · · · · · ·					
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 19-4 - 2061

Laboratory Staff:

Checked by:

C.F. chan (Foreinn) Not. 19-9-2021

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O
Date of measurement:	

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28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time		Monitoring wells / Surface Gas Emission					
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC4150	14/4/221	0275	Frit	0	0	0	20.9	21/1018	2.5
1	19/4/200	1377	Fire	0	0	0	20.9	23/1012	2.5
CHIFCOTRO		29,78	Fine	0	0	G	20.3	21/1015	2.5
	19/4/2021	1400	Fine	A	Q	0	20.5	23/1012	2.5
Pize	16/4/204	0915	Fine	0	ρ	0	20,3	C1/100	8
	19/4/204	1415	Fine	0	0	0	20.0	23/1012	8
131 Pir C	19/4/204	oqyir	Find	0	0	0	20.9	21/1015	7
·	19/4/24	14441	Firk	C	0	9	20.9	23/ 1012	7
137 Pit B	1914/2014	ogra	Fine	0	0	0	203	21/1011	8.6
	9/4/204	1478	Fine	٥	0	Û	70.9	27/1012	8.6
137 Pit A	14/4 (Zen)	1005	Fire	4	0	0	20.9	24/1015	8.7
	14/4/201	1505	Fire	0	0	0	20.9	23/1012	8.3
UPR 1	1914/2011	lor	Fine	a	0	0	2.9.9	22/ 1015	2.8
1	19/4/2021	1712	Fire	0	0	N	209	23/ 1012	2-8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 19/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O
Date of measurement:	

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPF 2	19 14/204	1025	Fine	О	Э	0	20.3	22/1015	2.8
	19/4/2021	1325	Fine	0	0	0	2-0.4	23/1012	28
WPX 4	19/4/221	1025	Fine	0	0	0	2.2.3	22/1015	Ŷ
	19/4/200	1335	Fine	0	0	0	2.2.9	23/1012	¢.
WPR 3	19/4/LOCI	1245	Fine	0	0	1	20.9	22/1015	2.8
	19/4/2021	1797	Fire	0	0	Ø	20.3	23/ 1012	2.8
R H R	19/4/2041	1055	Fire	ρ	Û	Ĵ	2.0.9	22/1015	×
	19/4/2021	1222	Fire	Û	J	0	20.9	24/ 1012	5
Pit B	19/4/2021	1105	Fine	0	0	Ø	20.9	22/1015	3.6
	19/4/204	1605	Fire	J .	0	<u> </u>	20.9	27/1012	3.Ł
								/	
		ļ						/	
	[4] 41254	1605	Fine		0	¢	20.4	2	·/ 10:2 / / / /

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 19/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13

Acuity Sustainability Consulting Limited

171



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time			Monitoring w	vells / Surface G	as Emission		i
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Area A	20-4-2011	0330	Fire	0	0	0	20.9	21/1014	7.8
	20 - 4 - 2011	1330	Fire	3	a	0	ي. د2	28/1012	3.5
	20 - 4 - 204	17:0	Fire	c	\$	0	203	23/ 10N	Z'X
AreaB	20-4-2011	0845	Fire	0	2	J	20.9	21/1014	2. 3
	20-4-204	1345	Fine	c	0	9	Z.o.i	25/ JOIL	2.5
	20-4-221	1645	Fine	3	0		20.9	23/1011	2.8
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<u> </u>		1		<u> </u>		<u> </u>		1 /	

 Name & Designation
 Signature
 Date

 Field Operator:
 Ting Wai Kin (Safety Officer [RenoPipe])
 A
 2o - 4 - 2021 

 Laboratory Staff:
 C.F. Chenne (Foreman)
 A
 20 - 4 - 2021

13

ENVIRONMENTAL PROTECTION DEPARTMENT

ENVIRONMENTAL RESOURCES MANAGEMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
CH.FC4+30	20/4/2021	0855	Fine	0	0	0	209	22/1015	2,5		
	20/4/2021	1355	Fle	0	0	0	20.9	24/ 1012	2.5		
CH.FC 0+90	20/4/2021	0900	Fine	0	0	0	20.3	22/1015	2.5		
· - ·	20/4/2021	1499	Fink	ρ	0	D	20.3	24/101-	2.5		
12:20	20/4/2021	0915	Fine	0	٥	a	20.9	22/01	8		
	2014/204	(415	F.N	0	c	0	20.4	24/ 1012	8		
137 Pit C	20/4/2004	2945	Fire	0	0	0	20.4	27/1015	1		
į	2014/204	1447	Fine	0	0	0	209	25/1012	7		
137 Pit B	2014/2011	29555	Fire	Û	0	0	203	24/ 1018	8.6		
	214/2021	1455	Fire	6	0	0	20.9	24/ 1011	8.6		
137 Pix A	2014/2011	005	Fine	C	ð	0	20.9	23/1015	l.7		
	20/4/2021	1505	Fine	ļ a	0	0	20.7	25/ 1011	8.3		
WRI	20 14/2021	1015	Fine	3	0	0	7.03	24/ 95	2.8		
	20/4/2021	עולן	Fre	0	0	0	20.9	24/1011	2.8		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 2014/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
U.			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)		
WPZ 2	20/4/221	lozr	Fire	0	0	0	2-0.9	23/1018	2.8	
	2014/204	1828	Fine	9	о	0	2.0.9	24/1011	2.8	
WPR 4	20/4/204	1935	Fine	9	0	2	20.9	22/1015	4	
	20/4/2011	1838	Fine	0	0	2	20.9	24/1211	ધ	
WN2 3	20/4/2021	1045	Fine	0	Û	Ø	20.9	24/1015	2.8	
	20/4/2041	1545	Fine	0	0	0	20.9	24/ [21]	2.8	
27 14	2014/2021	1075	Fine	0	Ø	0	2.6.9	24/1017	¥	
	20/4/2021	177	Fine	0	ρ	۵	20.3	24/10/1	r	
(it F	20/4/2021	1105	Fire	0	9	0	20.9	24/1915	3.6	
	20/4/204	1605	Fine	3	ð	0	20.9	24/ 1011	7.6	
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 2014/204

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Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

-		Sampling time			Monitoring w	ells / Surface G	as Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Aces A	21 - 4 -2021	0870	Fine	0	0	0	20.9	24/1014	5.5
	21 - 4 - 204	1456	Fine	3	0	0	20.9	27 / 1DIL	<u>73</u>
	21-4-2021	(-100	Fine	0		. 0	20.9	28/1012	88
ADRAB	21-4-2021	084x	Fine	G	3	2	229	24/1014	2.7
	21-4-2021	1348	Fire	0	: 0	0	20.4	27/1012	25
	21-4-2021	1697	Fine	C	0	0	که.۶	2r/ 1010	2.5
								/	
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		[						1	

 Name & Designation
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 Field Operator:
 Ting Wai Kin (Safety Officer [RenoPipe])
 Image: Constraint of the second second

C. Tchen (Foreman)

Signature Date

21-4-2021

21-4-2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE (II)	28 Jul 2020
	•		

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission								
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
1 11.FC 4135	21 14/2011	0853	Fire	Û	0	0	20.9	24/1014	2.5		
0.	21/4/224	1355	Fine	0	0	0	20.9	26/1012	2.5		
(H.F.C 0+90	21/4/284	0600	Fine	v	0	0	20.9	24/1014	2.5		
	21/4/204	1400	Fine	٥	0	0	20.3	26/1012	2.5		
12:4 0	21/4/2011	0915	Fire	Û	0	0	20.9	24/1014	8		
	4/4/201	איין	Fire	ŵ	3	0	224	26/1012	8		
12 Pit C	21/4/204	0941	Fire	0	0	0	20.9	25/1014	7		
	21/4/2011	1447	Fine	0	G	D	20.9	26/1011	7		
13- 5+ 8	21/4/204	1457	Fine	0	0	0	2.0.4	25/1014	8.6		
	21/4/2021	1455	Fine	Ĝ	C	0	20.9	26/10/1	8.6		
137 【汴】	21/4/201	(025	Fine	5	0	0	2.0.9	25/1014	8.3		
	21/4/2021	1202	Fine	Q	0	D	20.9	26/1011	8.7		
WSR 1	4/4/204	lor	Fine	0	0	0	20.9	25/1014	2.8		
	2114/2021	1513	Fine	0	0	0	20-9	26/1011	2.8		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

21/4/2021

<u>Date</u>

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Acuity Sustainability Consulting Limited



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE (II)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPF 2	21/4/204	IOLY	Fine	0	0	0	20.4	28/1014	2.8
	21/4/201	1525	Fire	0	0	9	20.5	26/1011	2-3
WP\$ 4	21/4/2011	1075	Fine	0	0	0	20.9	28/1014	4
	21/4/204	537	Fire	0	ρ	0	20.9	26/1011	4
WPE 3	21/4/204	1043	Fine	Ø	9	9	26.9	25/1014	ZS
	21/4/2041	$(\Sigma_{T})$	Fine	0	0	a	25.9	26/1011	2.3
Pit A	21/4/204	(055	Fire	0	2	. O	20.9	25/1014	Y
	21/4/2021	(355	Fire	J	0		20.9	25/1011	Y
Pit 15	21/4/201	(107	Fire	0	0	ଣ	20.9	25/1014	3.0
	21/4/204	1605	Fine	0	. 0	0	2-0-9	26/1011	3.6
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								<i>l</i> ,	<u> </u>

Name & Designation Signature Ŧ

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 21/4/2011

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/18 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling tíme	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Acca A	22-4-2011	°250	Fine	0	1	0	20.9	24/1012	¥.X
	22-4-2021	1530	Fine	5	0	1 0	20.9	28/1510	3.3
	22-4-2041	1.00	Fire	9	с	0	20.9	27/10-3	22
Atea B	22 -4 - 2021	084Y	Fins	0	. C	ę	2.0.9	24/ 18:1	2.5
	22-4-2021	1345	File	0	j 0	0	20-9	28/1010	2.5
	22-4-2021	1645	Fine	0	<u></u>	6	20.9	27/ 1002	2.5
	5						· · · · · · · · · · · · · · · · · · ·	/	
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ENVIRONMENTAL RESOURCES MAN	GEMENT		3	ENVIRONMENTAL PROTECTION DEPARTMENT
Checked by:	C.Jehon (Foreman)	29.	22 - 4- 2021	
Laboratory Staff:				
Field Operator:	Ting Wai Kin (Safety Officer [RenoPi	[pe])	22-4-2021	
	Name & Designation	Signature	Date	

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(4.FC 4+30	er 14 (2021	2255	Fire	0	0	0	20.9	27/102	2.8
	22/4/204	1355	Find	0	0	0	20.9	28/ 1094	2.5
CHECOTAN	~ 14/2021	Ast	Fire	0	0	3	20.9	28/1012	2.5
	22/4/2021	(492	Fine	0	0	Ø	20.8	23/1004	25
Pitc	22/4/2041	09 Y	FINE	Û	0	0	20.3	zr/joir	8
	22 / 4/284	1417	Fine	0	0	0	20.9	25/ 1004	8
(37 Pir C	22/4/2011	2845	Fire	0	ρ	0	20.9	28/1012	7
	22/4/2041	1445	Fire	o	0	0	203	28/ 1004	7
177 Pit B	22/4/20-1	2155	Fire	0	0	0	20.9	2r/jon	8.6
	22/4/204	475	Finz	0	0	0	20.9	28/ 1004	8.6
171 177 A	22/4/2011	1025	Fine	0	0	0	20.9	2r/1012	2.7
	22/4/2021	1505	Fine	0	0	0	20.5	23/1000	8.7
WR	22/4/20-1	loli	Fine	0	0	0	29.4	25/1012	2.8
	22/4/2021	1515	Fine	0	0	Û	22.9	28/ 1003	2.3

Name & Designation Signature

Field Operator:

Ð Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 22/4/2041

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample Date of Sampling location measurement time			Monitoring wells / Surface Gas Emission							
	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
W81- Z	n/4/201	tots	Fire	0	0	6	20.9	26/102	2.8	
-	22/4/2011	1525	Fine	0	0	0	20.9	28/1009	2.8	
WPR 4	22/4/204	1025	Fine	0	0	0	2-0.9	26/1012	4	
	22/4/204	1571	Fire	<i>a</i>	0	0	20.9	28/1002	4	
WPF 3	22/4/2041	045	Fine	0	0	0	20.9	Z6/1012	2.1	
	22/4/2011	1141	Fink	0	0	0	20.9	28/ 1008	2.2	
97 A	21/4/2011	1055	Fine	g	0	Q	2.0.9	27/1012	Y	
į	22/4/204	m	Fine	0	J	0	20,9	23 / 1003	۶	
0 6.9	22/4/2011	llor	Fire	0	0	ρ	2.0.2	27/1012	7.6	
<b></b>	22/4/2041	lbor	Fine	0	0	0	20.3	23/1003	7.6	
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								/		
			C.							

Name & Designation Signature Ŧ

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 22/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

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Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
Area A	23-4-204	0870	Fine	D	0	4	20.4	25/ 1010	2.5	
L	23-4-2021	1340	Fire	0	c	7	20.9	30/ 1007	7.7	
	23-4-2021	1700	Fiv	0	0	:	20.9	29/ 1505	5.5	
Ares B	23-4-2021	૦નુંવર	Fine	e	С	· 0	2.2.9	27/ 10/0	2.5	
	23-4-2021	(34)	Fine	э	i c	۵ ا	2-0.2	70 / [007	2. 1	
	27 - 4-2021	1145	Fine	Q	0	0	20.9	24/1005	25	
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					<u> </u>			<u> </u>		
		ļ	!		<u> </u>			1		

	Name & Designation	Signature	Date	
Field Operator:	Ting Wai Kin (Safety Officer [RenoPipe		23-4-2021	
Laboratory Staff:				
Checked by:	C.F. chern (Foremon)	10	23-4-221	
ENVIRONMENTAL RESOURCES MANA	GEMENT		13	ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O
Date of measurement:	

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
				Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
( 14. F( 4+70	23/4/2021	0855	Fire	0	0	0	209	26/1010	2.5	
	23/4/201	1355	Fine	0	J	0	20.9	30/1107	2.5	
CHIFC 0460	23/4/201	JA 20	Fink	J	0	0	20.2	26/1012	2.5	
	23/4/204	1401	Fine	0	0	0	20,9	30 / 1007	215	
Pit C	23/4/201	ogir	Fine	2	Q	0	7.04	25/1010	8	
	24/4/2020	(41)5	FINL	Ĵ	0	9	20,8	30/100-1	8	
137 Pt C	23/4/201	0 Arr	Fine	0	0	3	20,3	26/10%	7	
	23/4/2041	1448	FINL	J	D	ð	2.09	30 / 201	7	
131 27 8	23/4/204	2955	Fire	0	0	0	229	25 / 1010	8.6	
	23! 4/2021	1455	Fine	0	0	0	20.9	30/ 206	8.6	
137 RA A	271412024	1928	Fine	P	0	0	20.9	27/1009	8.2	
	2314/2021	1507	Fine	0	0	Ω	22.8	32 / 1006	8.3	
WP21	23141204	1015	Fine	0	a	0	20.9	27/1004	2.8	
	23/4/2021	1212	Fire	Ĵ	0	D	20.3	30/1006	2.8	

Name & Designation Signature Date

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

2314/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
WPA 2	2314/224	1025	Fine	0	0	0	20.9	28/1013	2.8	
	23/4/2014	1525	Fire	0	0	0	20.9	30 / 1006	2.3	
WPR 4	23/4/2041	1035	Fine	I	0	0	20.9	28/1404	4	
	23/4/2001	1535	Fire	0	G	0	20.9	30/1000	4	
WPF 3	23/4/204	1041	Fine	0	ρ	0	20.9	28/1009	2.8	
	23/4/2024	1545	Fire	Û	0	0	203	30/1004	2.8	
Pit A	23141204	losr	Fire	D	0	0	2.0.9	28/1009	×	
	23/4/2041	1777	Fine	Û	0	p	20.9	30 / 226	×	
Pit B	23/4/204	105	Fine	R	Q	ρ	20.9	23/1009	7.6	
	22/4/204	1605	F.se	0	0	0	20.9	30/1006	3.6	
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Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 23/4/204

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Ernission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Arex A	24-4-204	0230	Fine	2	0	ð	21.9	24/1013	7.2	
	24-4-224	1350	Fini	0	0	0	22.5	28/1011	5.5	
	24-4-2021	(120	First	3	0	c	20.9	2×/1009	X.5	
ASPA B	24-4-2021	०१२४	Fine	0	0	9	20.9	24/1013	2.5	
	24-4-2021	i yuy	Fire	2	0	0	2_0.9	25/1011	2.5	
	24-4-2021	645	Fine	0	9	0	۲ - 20	27/ 1009	2.5	
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Name & Designation Signature A

Ting Wal Kin (Safety Officer [RenoPipe])

C.F.Chern (Foreinon)

Field Operator:

Date 24-4-2021

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24-4-2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O
Date of measurement:	

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
C KIF- C4430	24/4/204	0855	F.pt	ρ	0	0	20.4	24/1017	2.5
	24/4/2041	1357	Fine	0	0	0	2.2.9	25/1011	2.5
CH.FC 0190	24/4/204	oqoo	. Fine	Q	0	0	2.0.9	24/1013	2.5
	24/4/2011	1400	Fine	0	0	0	2-0.9	28/1011	2.5
P:70	24/4/201	0417	Fine	0	0	0	20.9	24/1013	8
	24/4/204	1413	Fire	0	0	0	22.8	25/1011	Ş
132 Pit C	24/4/204	2947	Fine	9	0	2	2.0.9	24/1014	7
	24/4/2001	1445	Fine	a	0	0	2	27/1011	. 7
137 Pit B	24/4/204	0953	Fire	0	0	Û	209	21/ 1013	¥.6
	24/4/2021	1478	Fine	0	0	0	20.9	25/1011	8.6
137 Piz A	2414/2011	1005	Fine	0	0	ŷ	20.3	25/ 1013	8.2
	24/4/2021	1505	Finl	0	0	0	209	25/ 1011	83
WEL	24/4/204	1015	Fire	9	0	0	Zoz	28/ 1013	2.8
1	24/4/204	1717	t.e	0	0	Q	20.9	24/10/1	2.3

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 24/4/2021

Laboratory Staff:

Checked by:

ENV/RONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas E				as Emission		
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WP7 2	24 14/2011	1025	Fire	0	Û	0	20.9	25/10:3	2.8
	2414/2011	1525	Fine	0	0	0	20.9	21/10/1	2.8
W182 4	2414/204	1035	Fire	0	0	9	209	25/1017	4
	24/4/2011	1535	Ex_	0	Û	0	20.9	25/1010	er.
WPR 3	2414/204	1045	Fire	0	0	G	20.9	25/1013	2.8
L	14/2021	17497	Fine	0	D	Ø	20.8	28/ 1010	2.8
Pit A	2414/2001	1055	Fine	0	0	0	20.9	28/1013	~
	24/4/024	ins	Fire	G	0	0	22.9	28/ 1010	У
(i 7 7	24/4/2021	1107	Fine	ú	0	0	2.0.9	27/1013	3.6
	24141204	lber	Fire	Q	0	0	20.9	25/ 1010	2, 6
						<u> </u>	l	<u> </u>	
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								+ · · · · · · · · · · · · · · · · · · ·	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date

2414/2021

Laboratory Staff:

Checked by:

ENVIRONMENTIAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Arcen A	2.6 .4 -294	0370	Fire	0	3	0	20.9	23/101x	3.5
	26-4-2021	1330	Fine	0	Ð	0	20.9	23/1018	<u> X.S</u>
	26 - 4-2011	(100	Fire	0	0	0	20.9	23/ 1012	¥.¥
(TOR &	26 - 4-204	0847	Fine	. 0	0	C	20.9	25/ 15/2	2.4
	26-4-2021	1349	Five	0	0	o	2 <i>0</i> . S	23/101r	2.5
	26-4-2021	1647	Fine	0	0	0	20.9	23/ 1012	2.5
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			<u>l</u>	· · · · · · · · · · · · · · · · · · ·		<u></u>	<u></u>	1	L

Name & Designation Signature

Field Operator:

<u>e Date</u>

Ting Wai Kin (Safety Officer [RenoPipe])

26-4-20-1

Laboratory Staff:

C.F. chan. (Foremoun) Checked by:

-61. 26-4-2021.

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Dates calibrated

28 Jul 2020

ENVIRONMENTAL PROTECTION DEPARTMENT

### 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	Sampling equipment used:	-
Date of measurement:		PGM-2500 (QRAE III)	

	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
C H.FC 4120		0855	Fire	0	0	0	209	23/1015	2.8
	26/4/204	13>5	Fine	0	0	0	2-29	24/1017	2.5
CH.FC Othe	26/4/2021	9900	Fine	0	0	0	203	23/107	Z.¥
	26/4/2001	1400	Fire	0	0	0	203	24/ 1013	2.5
Pire	26/4/2021	0917	Fine	0	Q	0	20.4	23/1017	8
	26/4/204	1475	Fire	0	0	0	20.9	24/ 3013	2
137 Pir C	26/4/2011	0945	E. ne		0	0	20.9	25/10ir	7
	26/4/201	1445	Fine	0	0	0	20.9	24/1012	7
in pit B	26/4/204	0977	Fire	0	۵	0	2.0.4	23/1015	8.6
	26/4/2021	1477	Fine	0	0	0	20.9	24/1012	8.6
41 Piz A	26141204	1001	Fine	0	0	1	2.0.9	23/1015	8. <del>7</del>
	2614 2041	1725	Fine	0	0	9	209	25/1013	8.3
WYR 1	26/4/201	1215	Fine	۵	0	Q	1 2.0.G	25/1015	2.1
	26/21/2021	1212	Fine	D	2	3	20.9	23/1013	11

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 26/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020
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Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
W86 2	26 14/2041	025	Fine	0	0	0	20.9	23/1015	2.8	
	26/4/201	1525	Fire	0	0	0	20.9	23/1019	2.3	
WPR 4	26/4/2021	1035	Fire	0	0	ð	20.9	27/1015	4	
	26/4/201	1575	Fine	Э	0	0	2.9.9	23/1913	4	
WPR 3	2614/2021	1045	Fire	0	0	0	209	23/1015	2.8	
	26/4/204	1745	Fire	0	0	0	20.9	23/1013	2.8	
() A	26/4/04	1055	Fine	Q	0	0	20.9	23/1018	2	
	26/4/2021	(12)2	Fine	0	Ð	0	20.9	23 / 1013	7	
Pit B	26/4/2021	105	Fine	0	0	0	20,9	23/1015	3.6	
	26/4/2021	1605	Fire	0	0	Û	20.9	23/ 1017	7.6	
								/		
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Name & Designation Signature Ð

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 26/412021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



13/WSD/16 - Mainlaying in Tseung Kwan O Name of site: Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-250C (QRAE EI)	28 Jul 2020
······································	

ENVIRONMENTAL PROTECTION DEPARTMENT

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
Asia A	27-4-2021	0850	Fine	0	0	0	20.9	12/1015	7.5	
	27-4-2021	1230	Fine	9	0	0	20.9	22/1010	5.5	
	27-4-201	(100	Fine	0	0	0	20.9	22/ 1013	5.5	
Arex B	27-4-2021	૦ક્રેમ્પ્	Fine	0	0	0	20.4	22/1015	Zr	
-	27-4-2021	1345	Five	0	0	0	20.9	22/1010	2.5	
	27-4-2021	1645	Five	0	0	0	2.0.9	22/ 1013	2.5	
								/		
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								1		
								<u> </u>		

Name & Designation Signature

Field Operator:

<u>Date</u> 21-4-2021

274-20-1

Ting Wai Kin (Safety Officer [RenoPipe])

Ø

Laboratory Staff:

Checked by:

C.F. chan (Foleman) -61-

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwar. O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 111)	28 Jul 2020
	1

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
C H.FC 4150	27/4/2001	0 <u>1</u> 55	Fire	0	0	0	20.8	24/10/5	2.5	
	27/4/204	1355	Fire	0	0	0	20.9	2-/1014	2.5	
(H.FCOKO	27/4/2021	2600	Fine	ρ	2	0	2.0.9	22/10/4	2. 5	
	27/4/204	1410	Fine	1	0	0	20.9	22/11/4	2.5	
Pitc	21/4/2011	297	Fine	0	0	0	Z-29	22/1015	3	
L	27/4/204	1417	F:NR	p	0	0	209	22/1014	8	
137 PTC	114/201	0645	Fine	D	g	0	209	23/1015	7	
	27/4/2021	1445	Fire	0	2	0	20.9	22 / 1014	7	
137 P.7 B	27/4/201	2855	Fine	0	D	0	229	25/ 1015	8.6	
	27/4/2021	1453	Flace	0	0	0	20.9	22/1014	<u><u><u>S</u>.6</u></u>	
137 1717 A	21/41204	1005	Ene	J	0	0	2-0.3	22/1016	8.3	
	27/4/2021	1202	5 jul	0	C	0	209	22/12:4	3-7	
WPRI	21 14/204	1015	Fine	0	0	0	2.0.3	22/1016	2,8	
	17/4/200	<u> ۲ ۲]</u>	Fire	0	0	0	20.3	22/1014	2.3	

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 27/4/2011

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT

Acuity Sustainability Consulting Limited



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)	
wlf 2	27 14/204	025	Fire	0	0	0	20.9	22/10/0	2.8	
	27/4/104	1525	Fine	0	0	0	2.0.3	22/1013	2.}	
WPF 4	27/4/204	1035	Fire	0	0	0	20.9	22/10/6	4	
	27/4/204	1737	Fire	0	Ø	0	20.9	26/1013	4	
WRF 3	21/4/204	1 oct y	Fire	0	0	0	20.9	22/1016	2.8	
	21/4/2021	1845	tive	9	0	0	20.9	22/1013	2.3	
pit a	27/4/201	1055	Fine	Ø	Q	0	20,4	22/101	N N	
	27/4/200	(1)75	Fire	J	0	0	20.9	22/1013	Ŷ	
Pit B	27/4/204	105	Fine	0	0	0	2.0.9	22/1016	2.6	
	271 41204	1605	Fine	0	ر ر	0	209	22/10/3	4.6	
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								1		
								/		

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

A 27/4/204

<u>Date</u>

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

13



Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
		- 	Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Prossure (mbar)	Remark Depth (m)
Aver A	28-4-204	0830	Fine	0	0	٥	209	23/ 1016	22
	28-4-2n	1330	Fine	٥	0	Ð	20-3	28/ 1016	Y. 1
	23-4-2021	1700	Fire	٥	0	0	20.3	25/ 1012	S.Y
HERE &	23-4-204	1848	Fire	٥	a .	ð	20.9	23/1016	2.1
	28-4-2021	1341	Fine	0	6	0	20.9	25/ 1015	25
	28-4-2021	1645	Fire	0	Ç	0	7_0.9	25/ 1312	28
	······································							- /	ļ
					1			+ <u> </u>	

Name & Designation Signature

Date

28-4-201

Ting Wal Kin (Safety Officer [RenoPipe])

28-4-2021

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Field Operator: Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

C.F. chem (Forenna)

13



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jui 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						- <u></u>
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC4+>0	2814/204	0257	Fine	0	0	0	20.5	23/1016	2.5
	27/4/204	1373	Fire	0	0	0	2.0.5	26/1014	2.×
CHIFCOTO		0901	File	0	о	0	20.9	23/1016	2.5
	28/4/204	1400	Fine	0	0	0	22.5	26/1914	25
Pitc	28/4/204	2915	Fire		0	0	20.9	23/10%	8
	28 4/2021	1475	Fire	0	2	0	20.8	26/1017	8
187 P.+ C	28/4/201	29445	Fire	0	0	0	20.9	24/1016	1
	2 14/2041	1445	Fine	ρ	0	0	<u> </u>	2.6/ 1013	7
157 Pit B	25/4/221	OLISY	Fine	0	0	0	2-0-9	24/101	8.6
	28/4/2041	1433	Rive	0	0	0	20.9	26/1013	8.6
141 P.7 A	28/4/200	1005	Fine	0	0	0	20.9	24/104	8.3
	28/4/2021	רטד)	Fire	0	0	D	20.9	26/1013	8.3
WPFI	28/4/2021	1015	Fine	0	0	0	20.9	24/1016	2.8
	23/4/204	1515	Fine	J	0	0	20.3	26/1017	2-2

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RonoPipe])

<u>Date</u> 2\$14/2011

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
W14 2	28 14/204	1025	Fire	0	ρ	Ø	20.9	27/1016	2.8
	28/4/204	1727	Fix	0	0	0	20.9	26/1017	2.8
WPF 4	28/4/204	1025	Fine	Ø	0	0	20.9	27/1016	4
	28/4/2001	1232	Fire	0	0	0	2.0.3	26/1017	
WRF 7	22/4/2021	1047	Fine	Ø	Þ	0	20.9	25/1016	2.8
	28/4/2021	Y4T	Fine	Ĵ	0	0	20.9	26/1013	2.8
Pit A	28/4/2021	1055	Fine	Û	0	0	2.0.9	25/1016	Х
	28/4/204	1222	Fine	0	Ø	0	20.9	26/1013	5
Pit B	28/4/2021	ilos	Fire	0	0	0	203	25/1010	76
	28/4/2011	(605	Fire	0	0	0	20.9	26/1013	3.6
			<u>}</u>					1	
								/	
		<u> </u>	- Ì				} /	1	
		1		}		1	1		1

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site:	13/WSD/16 - Mainlaying in Tseung Kwan O	Sampling equipment used:	Dates calibrated
Date of measurement:		PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	ł		Sampling time	Monitoring wells / Surface Gas Emission							
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)			
AreaA	29-4-204	0139	Fine	0	0	0	2-0.5	22/10/8	XY			
``	29-4-2921	1330	Fine	0	0	0	20.5	27/ 1017	5.5			
	29-4-2021	1722	Fire	0	0	0	20.9	26/ 1011	Σ.Υ			
Hope B	29-4-2021	كههاي	Fire	ð	۵	C	20.9	22/ 1015	2.8			
	29-4-2021	1347	Fire	0	0	0	20.4	27/ 1015	2.5			
	29-4-2021	1645	Fine	0	0	c	20.9	Z1/ 1011	2.5			
								· · · · · · · · · · · · · · · · · · ·	-			
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

Date 29-4-2021

29-4-2021

Laboratory Staff:

Checked by:

(Felling (Follower) -by.

ENVIRONMENTAL RESOURCES MANAGEMENT

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ENVIRONMENTAL PROTECTION DEPARTMENT



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE 111)	28 Jul 2020

Sample location	Date of measurement	Sampling tíme	ing Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
CH.FC4H70		2377	Fire	0	0	0	209	22/101r	2.×
	29/9/200	1353	Fire	0	0	0	209	27/1012	2.5
CAL, FC ot 90	29/4/204	0900	Fine	ð	0	0	20.8	22/1015	2.5
	24/4/2021	1400	Fire	0	0	0	20,9	27/1012	2.5
Pi+C	24/4/2021	0917	Fire	D	0	0	2.0.9	22/1015	R
	24/4/204	1917	Fire	0	0	0	2-0.9	27/ion	2
137 Pit C	29/4/204	2944	Fire	0		0	29.3	22/1017	7
	24/4/204	<u> </u>	F.ne	0	0	0	203	27/1012	7
191 Kt B	29/4/2021	0457	Fine	J	0	0	20.9	22/10/8	8.6
	24/4/204	1113	Fine	0	9	0	2.2.9	27/1012	8.6
137 8:4 14	29/4/201	1005	Fire	0	0	0	20.9	23/1215	8.3
	29/4/204	1202	Fine	0	0	0	20.9	27/1012	8-7
WIRI	29/4/2021	105	Fine	σ	0	0	20.9	25/1015	2.8
	21/4/204	2151	Fire	0	0	0	20.9	27/ 1012	2.8

Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 2-9/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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**ENVIRONMENTAL PROTECTION DEPARTMENT** 



Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						<u> </u>
			Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
WPR 2	24/4/2021	loty	Fine	0	0	0	20.3	23/015	2.3
	24/4/2011	1828	Fine	Û	0	0	2.0.9	26/1012	2,8
WPR 4	2914Tron	1038	Finu	0	0	0	203	23/1018	4
	28/4/2021	1575	Fire	0	Û	Ø	209	2-6/1012	4
WPR 3	29/0/204	047	Fire	0	0	0	2.0.9	24/1018	2.8
	29/4/204	1547	Fine	0	Ø	Ø	20.9	26/1012	2.8
BY A	29/4/204	1075	Fine	0	Ø	Ø	209	24/1017	*
	29/4/204	1575	Fin	Û	0	0	209	26/1212	×
Pit B	29/4/204	105	Fine	0	0	0	2.0.9	24/1017	7.6
ļ	2914/204	1605	Fine	0	0	0	20.9	26/10,2	7.6
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Name & Designation Signature

Field Operator:

Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 29/4/204

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
	:		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
Acce A	39-4-2021	0350	FINE	0	D	0	209	24/10/4	- 8.8
	39-4-2021	1330	File	0	0	0	20-9	27/1012	<u> </u>
<b>.</b>	38-4-204	1100	Fine	0	0	0	20.9	27/ 10/1	5.5
Hren B	30-9-2021	Pjyr	Fine	0	0	0	20.9	24/104	2.5
	30-4-2021	1249) 1649	Fine	ů	0	0	20.9	27/ 1013	2.5
, , , <u></u>	30-4-204	1644	Fine	0	0	0	2-0.9	27/ 1011	2.5
	- ····								1
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								1	
<u></u>						L		<u> </u>	L

Name & Designation

Field Operator:

A Ting Wai Kin (Safety Officer [RenoPipe])

<u>Date</u> 30-4-2021

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30-4-2021

Laboratory Staff:

C.F. denn (Foreman) Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

Tort.



Name of site: 13/WSD/13 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement	Sampling time	Monitoring wells / Surface Gas Emission						
			Weather condition	Balance gas (%)	Fiammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)
(H.FC4+70	30/4/204	2255	Fine	0	0	0	209	25/1014	2.*
	30 / 4 / 2.04	1355	Fire	0	0	0	2.9	25/ 1012	2.4
(川下この子河の	30/4/2021	2919	Fine	0	0	0	20.3	25/1044	2.5
	30/4/2021	1423	Fire	P	0	0	2.0.9	29/10:2	2.5
pit c	31 4 200	ο٩ix	Fire	0	0	Û	2-0.9	25/1014	8
<u> </u>	30/4/204	14hy	Fine	0	0	0	20.4	2-8/1012	8
131 Pit C	7014 2021	994Y	Fine	0	0		2.0.9	26/1014	7
	3814/2021	1445	Fish	0	G	0	20.2	23/101	7
177 月十日	2014/204	2957	Fire	0	0	0	209	26/1014	3.6
	2014/2021	1455	Ene	ρ	0	Ø	20.9	38/1011	8.6
137 PH A	3014/204	100-4	Fire	0	0	0	20.9	26/1014	1 8.3
	3014/2021	1503	Fine	3	σ	0	1.9.1	28/1011	\$.3
WIRI	30/4/2021	1015	Fine	0	D	0	209	26/1014	2.2
	3314 (202)	1515	Fire	0	0	Û.	20.9	28/1011	2.5

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 30/4/2021

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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Name of site: 13/WSD/16 - Mainlaying in Tseung Kwan O Date of measurement:

Sampling equipment used:	Dates calibrated
PGM-2500 (QRAE III)	28 Jul 2020

Sample location	Date of measurement			Sampling time	Monitoring wells / Surface Gas Emission						
	2 2 2 2		Weather condition	Balance gas (%)	Flammable gas (methane %)	Carbon monoxide(%)	Oxygen (%)	Temp (°C) / Pressure (mbar)	Remark Depth (m)		
W14 2	59 14 12001	1025	Fine	0	0	0	20.9	26 / 1014	2.8		
	38/4/2011	(525	Fine	0	0	0	2.0.4	28/1011	2.3		
WPZ 4	30/4/254	1035	Fine	0	0	0	20.9	27/1014	4		
<u> </u>	3914/2041	1535	Fire	0	0	0	20.3	28/1011	с <b>ь</b>		
W12 3	30/4/224	104r	Fine	0	0	0	2-0.3	27/1015	2.2		
<u> </u>	30/4/204	1545	Fine	0	0	0	20.9	23/1011	7.3		
Pit A	30141204	1035	Fine	0	0	Ĵ,	20.3	27/1013	X		
<b>.</b>	3514/2021	2221	Fine	0	0	0	20.3	28/1011	Ŷ		
PAR	3014/2M	105	Fire	0	0	0	20.3	27/1013	3.5		
	3014/204	(60-5	Fine	0	0	0	20.9	28/1011	3,6		
								1			
·····	[ 							1 /			

Name & Designation Signature

Field Operator:

Ting Wal Kin (Safety Officer [RenoPipe])

<u>Date</u> 30/4/2921

Laboratory Staff:

Checked by:

ENVIRONMENTAL RESOURCES MANAGEMENT

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# Appendix K

## Complaint Log and Regulatory Compliance Proforma



## Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics							
	Frequency	Cumulative	Complaint Nature					
01 April 2021 - 30 April 2021	0	2	N/A					

## **Statistical Summary of Environmental Summons**

Reporting Period	Environmental Sum	mons Statistics	
	Frequency	Cumulative	Details
01 April 2021 - 30 April 2021	0	0	N/A

## Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Pros	ecution Statistics	
	Frequency	Cumulative	Details
01 April 2021 - 30 April 2021	0	0	N/A



# Appendix L

## Site Inspection Proforma



	Acuity Sustainal Acuity Unit 1908, Nos. 301-3 Sustainability 0: 2333-6823   F: 2333-1316   E: gener	805 Castle P	eak Road	l, Kwai C	hung, N.T.
	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	an O		
•	WEEKLY ENVIRONMENTAL INSPECTION		LICT		
	planter a			Tak	
	ion Date: OSLV47337 Inspected by: ET: ChARTER LAT ion Time 09:30 - 11:30 Contractor: Style NG	WSD:	An war NA	(n c	-
Weath					
Condi	ion Asuny Fine Overcast Durizzle Rain	Sto	em 🗌	Hazy	
Tempe		1.0	w		
Wind	Cakn Light Breeze Strong				
		N/A	Yes	No	Photo/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?		V		
0.02	Is ET Leader's log-book kept readily available for inspections?				
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?				Obs (2)
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?				onclosure.
1.03	Are fumes or smoke emitting plants or construction activities shielded by a screen?				I Dura
		$\checkmark$			No Smole fluru emitting planti continue
1.04	Are wheel-washing facilities with high-pressure water jets provided at all site exits?	V			
1.05	Is wheel-washing provided to all vehicles leaving the site?	$\checkmark$			
1.06	Are road section near the site exit free from dusty material?		$\square$		
1.07	Are all main haul roads inside the site paved or sprayed with water to minimize dust emission during vehiele movement?		$\checkmark$		floved.
1.08	Are water spraying provided immediately prior to any loading or transfer of dusty materials?				Musty Material's Invene kult wet
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	$\checkmark$			ps during third. Observed.
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?				JNRMM [41-21
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## Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

	Contract no. 13/WSD/16 Mainlaying in T	seung Kwa	an O		
		N/A	Yes	Nø	Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	$\checkmark$			
1.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?		$\square$		
1.15	Are de bagging, batching and mixing processes of bagged coment carried out in sheltered			F	
1.16	areas? Are hoarding of at least 2.4m high provided along the site boundary adjoining areas				
1.10	accessible by the public?	$\checkmark$			
1.17	Is open burning prohibited?		$\checkmark$		
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				VQPME (am)
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive				
	niose?		V		inspection.
2.03	Are plants throttled down or turned off when not in use?		1		
2.04	Are the plants known to emit noise strongly it, one direction oriented to face away from NSRs?	$\checkmark$			2 NO INSE
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?			Π	Jepsting reg
2.06	Are silencers, mufflers and enclosures provided to plunts?				
2.07	Are the hoods, cover panels and inspection hatches of PMEs closed during operation?		$\overline{\mathbf{A}}$		
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?		V		
2.10	Are valid noise emission label(s) affixed to all hand-held breakers operating on site?	Ń			
2.11	Are valid noise emission label(s) affixed to all air compressors operating on site?	$\checkmark$			
2.12	Are all construction noise permit(s) applied for percussive piling work?		$\checkmark$		
2.13	Are construction noise permit(s) applied for general construction works during restricted				
	hours?				
	Are valid construction noise permit(s) displayed at all vehicular exits?		$\checkmark$		1.000
	Water Quality				
	Is effluent discharge license obtained for wastewater discharge from site?		$\checkmark$		- M
3.02	is effluent discharged according to the effluent discharge license?		T		aby -
3.03	Is wastewater discharge from site properly treated prior to discharge?				obs (3)

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## **Acuity Sustainability Consulting Limited**

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Contract no.	12/14/50	/16 Mainla	dag in Tea	
Contract no.	T2\ AA2D	y to iviainia	ying in ise	ung Kwan U

		N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				265 (1)
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?		1		
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	is the drainage system properly maintained?		$\checkmark$		
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?		$\checkmark$		
3.09	Are exposed so'll 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?		$\checkmark$		
3.11	Are exposed slope surface properly protected?	$\checkmark$			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		$\checkmark$		
	Are open stockpiles of construction materials on site covered by tarpaulin or similar fabric during construction?				Obs (2)
3.14	Is runoff from wheel-washing facilities avoided?	$\checkmark$	V		
3.15	Is oil leakage or spillage prevented?	1 P.			0 63 (4)
	Are there any measures to prevent the release of oil and grease into the storm drainage system?				010574)
3.17	Are the bil interceptors/ grease traps properly maintained?	$\checkmark$			
	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?		$\checkmark$		
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?		$\checkmark$		
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 (bree?	-	$\checkmark$		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided by the licensed contractors?		$\checkmark$		
	Is concrete washing water properly collected and treated prior to discharge?	$\checkmark$			
4.01	Waste Management Is a trip-ticket system implemented to monitor the disposel of C&D and solid wastes at public filling facilities and landfills?		V		

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## Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O										
		N/A	Yes	No	Photo/Remarks					
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		1							
4.03	is the Contractor registered as a chemical waste producer?		V							
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\checkmark$								
4.05	Are trip tickets for chemical waste disposal available for inspection?	V								
4.06	is chemical waste reused and recycled on site as far as practicable?									
4.07	Are all containers for chemical waste property labelled?		V							
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelled?		1							
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?									
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?		1			1				
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?		V							
4.13	Are sufficient general refuse disposal/collection points provided on site?		$\checkmark$			-				
4.14	is general refuse disposed of properly and regularly?		V							
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?		$\checkmark$							
4.17	Are C&D wastes sorted on site?		$\checkmark$							
4.18	Are C&D waste disposed of properly?		1							
4.19	Are unused C&D materials or chemicals recycled or reused to reduce the quantity of waste?	$\checkmark$								
4.20	Are public fill and C&D waste reuse on site as far as practicable to avoid disposal off-site?		1		fimbor.					
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		$\checkmark$							
4.22	is a dumping license obtained to deliver public fill to public filling areas?					_				

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## Acuity Sustainability Consulting Limited

Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823 | F: 2333-1316 | E: general@acuityhk.com | www.acuityhk.com

	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	in O		
		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?	$\Box$			
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil crosion?				
5.03	Is construction light oriented away from the sensitive receivers?	$\checkmark$			
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	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of any preserved trees?	Ń			
5.07	Are the retained and transplanted trac(s) properly protected and in good conditions?		$\checkmark$		
5.0B	Are surgery works carried out for damaged trees?				
6.00	Ecology				
6.01	is site runoff properly treated to prevent any silly runoff?				Obs (3)
6.02	Are silt trap installed and well-maintained?	$\checkmark$			
6.03	Arc stockpiles properly covered to avoid generating silty runoff?				obs ())
6.04	Are construction works restricted to works area which are clearly defined?		$\checkmark$		
7.00	Overall		,		
7.01	Is the EM&A properly implemented in general?		$\checkmark$		

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	Acuity Sustainability	O: 2333-6	Unit 1908, Nos. 301	bility Consulting Limited -305 Castle Peak Road, Kwai Chung, N.T. rral@acuityhk.com   www.acuityhk.com
		Contract no. 13/V	NSD/16 Mainlaying in T	seung Kwan O
	Remark / Follow up of Obse	vation(s) and Non-complia	ance(s) of Last Weekly Site	Inspection:
Pit CJ. ↓ i37 Pits ↓ WPit1 J ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	<ul> <li>(4) Passing nuclearing emission of a construction of a construction of the outside of the nuclear the nuclear of the</li></ul>	al stateple was w it land full slase il noclar sedimetri	of covered by fai I Area A. attion tank should immiliation tank. O r. a dense thay out	Sandboys at oners, oner 4 quarths hart to count Mill hol be connected to at that stays Ar averas. Cattle Landful stays 1
	Signatures:	Continuatoria	WODIe	
	Name: Charlene Lan	Contractor's Representative (Name: Smr Mg )	WSD's Representative (Name: An War War (	EC's Representative //// (Name: N/A)

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		Dility Consulting Limited 805 Castle Peak Road, Kwai Chung, N.T. al@acuityhk.com   www.acuityhk.com
	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwan O
	WEEKLY ENVIRONMENTAL INSPECTION	I CHECKLIST
nspecti	nn Date: 15/04/2021 Inspected by: ET: Charlene Law Contractor: Saw Ng	wsp. Chu cheak ki IIIC: NA
	on Time: 09:40 - 12:00 Contractor: Saw Ng	EC: N/A
Weath		
Conditi Tempo Wind		Storm Ifazy
		WA Yes No Photo/Remarks
		AVA TES NO FROMKERIARS
0.00	General	
	Is the current Environmental Permit displayed conspicuously at all vehicle site	
	entrances/exits for public's information at any time? Is ET Leader's log-book kept readily available for inspections?	
U.UZ	is Er Leader Stog-oook kepi reamiy avanaore for inspections:	
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?	i/
1.02	Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty construction works for dust suppression?	with the sevenings
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 site 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	D D paved
1.08	emission during vchiele movement? Are water spraying provided immediately prior to any loading or transfer of dusty	
1.00	Are water spraying provided immediately prior to any loading of transfer of dusty materials?	Compartion
1.09	Are covers provided to all dump trucks carrying dusty materials when entering and leaving the site?	Miland Jok
	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 mouths after the last construction activity on site?	
	Does the operation of plants on site free form dark smoke emission?	

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		nability Consulting Limited 301-305 Castle Peak Road, Kwai Chung, N.T.
		eneral@acuitynk.com   www.acuityhk.com
	Contract no. 13/WSD/16 Mainlaying	in Tseung Kwan O
		N/A Yes No Photo/Remarks
1.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	
1.14	Are stock of more than 20 bags of coment or day PFA covered or sheltered on top a sides?	and 3
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in shelt	
1.16	aroas? Are hoarding of at least 2.4m high provided along the site boundary adjoining areas	
1.17	accessible by the public? Is open burning prohibited?	
0.00		
2.00 2.01	Construction Noise (Airborne) Are quiet plants adopted on site?	V V VQTME labe
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excess riose?	
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 fro NSRs?	m
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?	I D D day
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?	No operation
2.08	Are purposely-built site hoarding construction with appropriate materials provided alc the site boundary?	
2.09	Are noisy operation properly scheduled to minimize exposure and cumulative impacts nearby sensitive receivers?	
2.10	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?	
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 restrict nours?	
2.14	Are valid construction noise permit(s) displayed at all vehicular exits?	
	Water Quality	- m_
	18 effluent discharge license obtained for wastewater discharge from site?	
3.02	Is offluent discharged according to the effluent discharge license?	/ / / / / / www.aterolis
3.03	Is wastewater discharge from site properly treated prior to discharge?	A pon reporting

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	Acuity Sustainak Acuity Unit 1908, Nos. 301-3 Spannability O: 2333-6823   F: 2333-1316   E: genera	05 Castle F	eak Roac	l, Kwai Cł	iung, N.T.
	Contract no. 13/WSD/16 Mainlaying in Ts				
	Contract no. 15/WSD/10 Maintaying in 15	N/A	Yes	No	Photo/Remarks
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				065(1)
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to remove sand/silt particles from runoff?				ho water discharge
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?		$\checkmark$		reminder C.
3.08	Are construction works carefully programmed to minimize soil excavation works during rainy seasons?		V		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil crosion?		V		
3.10	Are temporary access roads protected by crushed gravel?				
3.11	Are exposed slope surface properly protected?				
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?				
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?				
3.15	Is oil leakage or spillage prevented?		V		V duip thay
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?				
3.18	Are debris and rubbish generated on site collected, handled and disposed of properly to avoid them entering the streams?				Valmindler (1)
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?		V		
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?	V			
	Waste Management Is a trip-ticket system implemented to monito: the disposal of C&D and solid wastes at public				-

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	Acuity									
	Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O									
		Sondat no. 15/ WSD/16 Mainaying	N/A	Yes	No	Photo/Remarks				
4.02	Is a recording system implemente disposed of?	d to record the amount of wastes generated, recycle	ed and							
4.03	is the Contractor registered as a che	mical waste producer?								
4.04	Are chemical waste separated from collector?	m other waste and collected by a ficensed chemical	waste							
4.05	Are trip tickets for chemical waste o	disposal available for inspection?								
4.06	is chemical waste reused and recycl	ed on site as far as practicable?								
4.07	Are all containers for chemical was	te properly labelled?		$\checkmark$						
4.08	Is chemical waste storage area used	solely for storage of chemical waste and properly labe	lled?	$\checkmark$						
4.09	Are incompatible chemical wastes a	tored in different areas?								
4.10	Is the chemical waste storage area e	nclosed on at least 3 sides and adequately ventilated?		V						
4.11		ng, of capacity to accommodate 110% of the volume me of the chemical waste stored in that area, whichever		1						
4.12	Are a routine cleaning and mainter pits, and oil interceptors?	nance programme implemented for drainage systems,	sump	V						
4.13	Are sufficient general refuse disposi	al/collection points provided on site?		$\checkmark$		<u>lemindercy</u>				
4 14	Is general refuse disposed of proper	ly and regularly?		$\checkmark$		remindercy				
4.15	Are appropriate measures adopted to waste?	) minimize windblown litter and dust during transportat	ion of	1						
4.16	Are individual collectors for alumi paper provided to encourage waste	num cans, plastic bottles and packaging material and segregation?	office	1						
4.17	Are C&D wastes sorted on site?									
4.18	Are C&D waste disposed of properl	y?		$\checkmark$						
4.19	Are unused C&D materials or chem	icals recycled or reused to reduce the quantity of waste	2							
4.20	Are public fill and C&D waste reuse	e on site as far as practicable to avoid disposal off-site?		$\checkmark$						
4.21	Are the construction materials st contamination?	ored properly to minimize the potentia' for dama	ge or							
4.22	Is a dumping license obtained to del	iver public fill to public filling areas?		-						

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	Acuity Sustainab Acuity Unit 1908, Nos. 301-3	05 Castle P	Peak Road	l, Kwai Ch	iung, N.T.
	Sustainability O: 2333-6823   F: 2333-1316   E: genera	n@acuityn	ik.com   1	www.acui	tynk.com
	Contract no. 13/WSD/16 Mainlaying in Tse				
		N/A	Yes	No	Photo/Remarks
5.00	Landscape and Visual				
5.01	Are Is site hoarding provided?				
5.00					
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil crosion?				venillder (
5.03	Is construction light oriented away from the sensitive receivers?	$\square$			
5.04	Is grass hydroseeding provided to slopes as soon as the completion of works?				
		$\checkmark$			
5.05	Are damages to trees outside site boundary due construction works avoided?		$\checkmark$		Venindere
5.06	Is excavation works carried out manually instead of machinery operation within 2.5m vicinity of				
	any preserved trees?	V			
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?		$\checkmark$		-
5.08	Are surgery works carried out for damaged trees?				
					-
	Ecology				An Carport
6.01	Is site runoff properly treated to prevent any silly runoff?				Ascherge at
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?		1		
6.04	Are construction works restricted to works area which are clearly defined?				
7.00	Overall		./	S-200-0 2000	
7.01	Is the EM&A properly implemented in general?				

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Acuity		, Nos. 301-305 Castle Peak Roa 6   E: general@acuitγhk.com			
c	ontract no. 13/WSD/16 Mainla	iying in Tseung Kwan O			
mark / Follow up of Observation	(s) and Non-compliance(s) of Last W	eekly Site Inspection:			
(1) Continuction bound	udany was not protected	d by sandboys at	seution, WPR 1 AO		
permindences (1) Houseberging evias (3) The plan control	reminded at OH.HER notor mad winninded t	to implement miles	s ury to		
process 1/2 Fairs	TAUS OF Y Uper coch	-1			
(3) FUL Allen Controloor muss in potent Weta in thus during Operation at Pit D (3) Grund chandle be producted by sandbays the at WPR1.					
Signatures:					
	tractor's WSD's resentative Representative	IEC's Representative			
(Name: Chertence on (Nat	me: Som Ng. ) (Name: CHU CHEWK K	) (Name: N/A	)		

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s	Acuity Sustaina Acuity Unit 1908, Nos. 301- uratanability 0: 2333-6823   F: 2333-1316   E: gene	305 Castle P	Peak Road	d, Kwai C	hung, N.T.
	Contract no. 13/WSD/16 Mainlaying in T				
	WEEKLY ENVIRONMENTAL INSPECTIO		UST		
				Via Fai	
	Date: 2/104/2021 Inspected by: ET: Charlene Usi Time: 09:40 - 12:00 Unitractor: Sign Ng	IEC:	WA.	Sen The	
Weather	· · · · · · · · · · · · · · · · · · ·	ter Marin Harris			
Condition Temperate Wind		Lc		Hazy	
		N/A	Yes	No	Photo/Remarks
0.00 Ge	eneral				
	the current Environmental Permit displayed conspicuously at all vehicle site trances/exits for public's information at any time?		$\square$		
0.02 Is	ET Leader's log-book kept readily available for inspections?				
1.00 Co	instruction Dust				
	e dusty materials, such as excavated materials, building debris and construction aterials, and exposed earth surface properly covered to prevent dust emission?		$\checkmark$		venninger [1)
1.02 AT	e screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty				
co	nstruction works for dust suppression?		$\checkmark$		enclos un. sweening
1.03 Ar	e fumes or smoke emitting plants or construction activities shielded by a screen?	T			Wushing Conduction
1.04 Ar	e wheel-washing facilities with high-pressure water jets provided at all site exits?	V		$\Box$	
1.05 Is	wheel-washing provided to all vehicles leaving the site?	$\checkmark$			
1.06 Ar	e road section near the site exit free from dusty material?		1		
	e all main haul roads inside the site paved or sprayed with water to minimize dust sission during vehicle movement?		V		powed
	e water spraying provided immediately prior to any loading or transfer of dusty aterials?				duit, mortina where leapt wet
	e covers provided to all dump trucks carrying dusty materials when entering and				
	iving the site?				
	e the working areas for uprooting of trees, shrubs, or vegetation or the removal of ulders, poles, pillars sprayed with water to maintain the entire surface wet?				
	exposed earth properly treated within six months after the last construction activity on		V		
site					

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F.



	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	n O Yes	No	Photo/Remarks
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 hearding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				
1.17	Is open burning prohibited?		1		
2.00	Construction Noise (Airborne)				
2.01	Are quiet plants adopted on site?				Vnokelaber
2.02	Are the PMEs operating on site well-maintained to minimize the generation of excessive niose?		1		Vagular
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?	V			2 North Section
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				) frant which is soon them
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?		V		
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?		$\checkmark$		
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?	$\square$			-
2.12	Are all construction noise permit(s) applied for percussive piling work?	V			
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?		$\checkmark$		
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?				6 No mater
3.03	is wastewater discharge from site properly treated prior to discharge?	1			) "njeporindy

21/04

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	Acuity Susta Acuity Unit 1908, Nos. Sustanability 0: 2333-6823   F: 2333-1316   E:	301-305 Castle	Peak Road	d, Kwai Cl	hung, N.T.
				W W W . O.C.	ityin.com
	Contract no. 13/WSD/16 Mainlaying	in Tseung Kw	an O Yes	No	Photo/Rema
		1972	100		Thoromonia
3.04	Are perimeter channels provided to intercept storm runoff from outside the site?				Obs (1)
3.05	Are sand/silt removal facilities such as sand/silt traps and sediment basins provided to				reminde
	remove sand/silt particles from runoff?				dischorge
3.06	Is surface runoff diverted to sedimentation facilities?				renniholer
3.07	Is the drainage system properly maintained?				
3.08	Are construction works carefully programmed to minimize soil excavation works due rainy seasons?	ing			
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potent soil crosion?	ial of	$\overline{\mathbf{V}}$		
3.10	Are temporary access roads protected by crushed gravel?		$\checkmark$		
3.11	Are exposed slope surface properly protected?	$\checkmark$	•		
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?		$\checkmark$		
3.13	Are open stockpiles of construction materials on site covered by tarpaulin or similar f during construction?	àbric			Vernivele
3.14	Is runoff from wheel-washing facilities avoided?				
3.15	Is oil leakage or spillage prevented?				0/5(2)
3.16	Are there any measures to prevent the release of oil and grease into the storm drainag system?	•			obsir
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 avoid them entering the streams?	to	V		
3.19	Are all fuel tanks and storage areas provided with locks and be sited on scaled 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 the sensitive watercourse and stormwater drains?	from	$\checkmark$		
3.21	Are sufficient chemical toilets provided on site to handle sewage from construction w	ork			
	force?		V		
3.22	Are sewage disposal and toilet maintenance of the portable chemical toilets provided	by			
	the licensed contractors?		V		
	Is concrete washing water properly collected and treated prior to discharge?				
	Waste Management Is a trip-ticket system implemented to monitor the disposal of C&D and solid wastes at j	oildue			

Page 3 of 6



	Acuity Sustainal Acuity Unit 1908, Nos. 301-3 unathability 0: 2333-6823 [ F: 2333-1316 ] E: gener	105 Castle P	eak Road	l, Kwai Ch	nung, N.T.
	Contract no. 13/WSD/16 Mainlaying in Ts	N/A	Yes	No	Photo/Remarks
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?				
4.03	is the Contractor registered as a chemical waste producer?		$\checkmark$		
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?		$\square$	$\square$	
4.05	Are trip tickets for chemical waste disposal available for inspection?		$\overline{\Box}$		
4.06	is chemical waste reused and recycled on site as far as practicable?				
4.07	Are all containers for chemical waste properly labelled?				
4.08	Is chemical waste storage area used solely for storage of chemical waste and properly labelted?				
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 argest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?				
4.12	Are a routine eleming and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?				
4.13	Are sufficient general refuse disposal/collection points provided on site?		1		
4.14	is general refuse disposed of properly and regularly?		$\checkmark$		
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?		V		
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?	1			
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 property to minimize the potential for damage or contamination?				
4.22	is a dumping license obtained to deliver public fill to public filling areas?		Th		

Page 4 of 6



	Acuity Sustai Acuity Unit 1908, Nos. Sustainability 0: 2333-6823 [ F: 2333-1316 ] E: f	301-305 Castle	Peak Road	d, Kwai Ci	nung, N.T.
					i y micom
	Contract no. 13/WSD/16 Mainlaying	In Tseung Kw	Yes	No	Photo/Remarks
					1.0010010000000000000000000000000000000
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?	<ul> <li></li> </ul>			
5.03	Is construction light oriented away from the sensitive receivers?				
5.04	is grass hydrosceding 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	is excavation works carried out manually instead of machinery operation within 2.5m view any preserved trees?	ity of			
5.07	Are the retained and transplanted tree(s) properly protected and in good conditions?		$\checkmark$		
5.08	Are surgery works carried out for damaged trees?	V			
6.00	Ecology	-			
6.01	is site runoff properly treated to prevent any silly runoff?				Discharge v
6.02	Are silt trap installed and well-maintained?				
6.03	Are stockpiles properly covered to avoid generating silty runoff?				irenniholer (
6.04	Are construction works restricted to works area which are clearly defined?		V		
7.00	Overall		,		
7.01	Is the EM&A properly implemented in general?				

Page 5 of 6



	Acuity Sustainability Consulting Limited
Acuity Sustainability	Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. O: 2333-6823   F: 2333-1316   E: general@acuityhk.com   www.acuityhk.com
	Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O
mark / Follow up of Observa	tion(s) and Non-compliance(s) of Last Weekly Site Inspection:
Observation(s)	
	when was not protected by randbys at section Ao., abandoned
122 chanicals N	use we plained at the chamical drip tray of abandon neal koad
at MAY WAT	
Jac	and '
Renninguer(s)	
(1) puty materials	were not coughed property at Laborthin stayes thea A.
us the Main Con at an wor	practor was remainded that spokinentation. They should be placed water tradement flacilities to trade at handling there. As abandoned read at han whitten is
	a realized to and the second s
Signatures:	
ET	Contractor's WSD's IEC's
	Contractor's WSD's IEC's Representative Representative Representative
	Representative Representative

Page 6 of 6



Acuity Sustainal	bility Consulting Limited
Acuity Unit 1908, Nos. 301-3 Sontamability O: 2333-6823   F: 2333-1316   E: gener	305 Castle Peak Road, Kwai Chung, N.T. ral@acuityhk.com   www.acuityhk.com
Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwan O
WEEKLY ENVIRONMENTAL INSPECTION	N CHECKLIST
nspection Date: 26/04/2021 Inspected by: ET: Charles Law	Tranetinfai
Inspection Date Inspection Date Inspection Date Continuenter Same My	wsix Transtinfai IEC Louis Knan
Weather	
Condition Summy Fine Overcast Drizzle Ruin	Stonn Hazy
Temperature 24 C Humidity Iligh Moderat	e Low
Wind / Calm Light Breeze Strong	
	N/A Yes No Photo/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? 0.02 Is ET Leader's log-book kept readily available for inspections?	
o of the first stog-book Rept redaily available for hisportonal	
1.00 Construction Dust	
1.01 Are dusty materials, such as excavated materials, building debris and construction	M materials where
materials, and exposed earth surface properly covered to prevent dust emission?	Wet to limit de
1.02 Are screenings, enclosures, water spraying or vacuum cleaning devices provided to dusty	/ emission
construction works for dust suppression?	I R No dust 9 com
1.03 Are fumes or smoke emitting plants or construction activities shielded by a screen?	No tume / smol
	Omstanting plant
	autorities ob
1.04 Are wheel-washing facilities with high-pressure water jets provided at all site 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?	raved
1.08 Are water spraying provided immediately prior to any loading or transfer of dusty	M M Modulayma
materials?	Le Linver Journ
1.09 Are covers provided to all dump trucks carrying dusty materials when entering and	No dumy imil
leaving the site?	Descried.
1.10 Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	
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 wel?	
1.10 Are the working areas for uprooting of trees, shrubs, or vegetation or the removal of	No experted
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	No exported extra aggre

Page 1 of 6



	Acuity Sustainal	oility Co	onsult	ing Li	imited
	Acuify Unit 1908, Nos. 301-3 urranability 0: 2333-6823   F: 2333-1316   E: gener	05 Castle P	eak Road	l, Kwai C	hung, N.T.
	Contract no. 13/WSD/16 Mainlaying in Ts	eung Kwa	an O		
		N/A	Yes	No	Photo/Remarks
.13	Are vehicles travelling at speed not exceeding 15km/hr within the site?	7			
.14	Are stock of more than 20 bags of cement or day PFA covered or sheltered on top and 3 sides?	$\square$			
1.15	Are de-bagging, batching and mixing processes of bagged cement carried out in shelterod areas?	•			
1.16	Are hoarding of at least 2.4m high provided along the site boundary adjoining areas accessible by the public?				,
1.17	Is open burning prohibited?				
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 niose?				V Kegular inspection
2.03	Are plants throttled down or turned off when not in use?		$\checkmark$		
2.04	Are the plants known to emit noise strongly in one direction oriented to face away from NSRs?				4 No Alarby NSK
2.05	Are moveable barriers provided to screen NSRs from plant or noisy operations?				) day
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?		$\checkmark$		
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 nours?				
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?		V		
3.02	is effluent discharged according to the effluent discharge license?		1		
3.03	Is wastewater discharge from site properly treated prior to discharge?				

Page 2 of 6



	Acuity Sustainal Unit 1908, Nos. 301-3				
	Sustainability O: 2333-6823   F: 2333-1316   E: genera				
	Contract no. 13/WSD/16 Mainlaying in Ts				
		N/A	Yes	No	Photo/Remarks
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?		1		
3.06	Is surface runoff diverted to sedimentation facilities?				
3.07	Is the drainage system properly maintained?				reminder (1)
3.08	Are construction works carefully programmed to minimize soil excavation works during ainy seasons?		$\checkmark$		
3.09	Are exposed soil surface protected by paving as soon as possible to reduce the potential of soil erosion?	$\square$			NORNOW SUPPORT
3.10	Are temporary access roads protected by crushed gravel?				4
3.11	Are exposed slope surface properly protected?	$\square$			
3.12	Is trench excavation avoided in the wet season as far as practicable, or if necessary, backfilled in short sections after excavation?				
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?				
3.15	Is oil leakage or spillage prevented?				Vanptray
3.16	Are there any measures to prevent the release of oil and grease into the storm drainage system?		$\checkmark$		1 drib tray
3.17	Are the oil interceptors' grease traps properly maintained?	$\checkmark$			
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 foilets 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?		1		
3.23	Is concrete washing water properly collected and treated prior to discharge?				

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	Acuity Sustainal Acuity Unit 1908, Nos. 301-3 Sustainablary 0: 2333-6823   F: 2333-1316   E: gener	105 Castle I	Peak Road	I, Kwai Cl	nung, N.T.	
	Sustainability 0: 2333-6823 [ F: 2333-1516 ] E: gener Contract no. 13/WSD/16 Mainlaying in Ts					
		N/A	Yes	No	Photo/Remarks	
4.02	is a recording system implemented to record the amount of wastes generated, recycled and disposed of?		1		u.	
4.03	is the Contractor registered as a chemical waste producer?				-	
4.04	Are chemical waste separated from other waste and collected by a licensed chemical waste collector?	$\checkmark$				
4.05	Are trip tiokets for chemical waste disposal available for inspection?					
4.06	is chemical waste reused and recycled on site as far as practicable?					
4.07	Are all containers for ohemical waste properly labelied?		1			
4.08	s ohemical waste storage area used solely for storage of chemical waste and properly labelled?		1			
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?		1			
4.11	is an impermeable floor and bunding, of capacity to accommodate 110% of the volume of the argest container or of 20% by volume of the chemical waste stored in that area, whichever is the greatest, provide?		1			
4.12	Are a routine cleaning and maintenance programme implemented for drainage systems, sump pits, and oil interceptors?					
4.13	Are sufficient general refuse disposal/collection points provided on site?		1			
4.14	is general refuse disposed of properly and regularly?		1			
4.15	Are appropriate measures adopted to minimize windblown litter and dust during transportation of waste?		$\checkmark$			
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?		1			
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?		1			
4.21	Are the construction materials stored properly to minimize the potential for damage or contamination?		1			
4.22	is a dumping license obtained to deliver public fill to public filling areas?		$\checkmark$			



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	Acuity Sustaina Acuity Unit 1908, Nos. 301- Sustainability 0: 2333-6823 [ F: 2333-1316 ] E: gene	305 Castle	Peak Road	l, Kwai C	hung, N.T.
				www.du.u	ncy/ik.com
	Contract no. 13/WSD/16 Mainlaying in Te	Seung Kw	an O Yes	No	Photo/Remarks
		19:13	1 48	NO	FINAD REINARKS
5.00	Landscape and Visual				
5.01	Are Is site hearding provided?				
5.02	Are vegetation disturbance minimized or soil protected to reduce potential soil crosion?		1		remtuder(s)
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?				(Eminder (3)
5.06	is excavation works carried out manually instead of machinery operation within 2.5m vicinity of my 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?				
6.00	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?				the Regular Approval of stand
6.04	Are construction works restricted to works area which are clearly defined?				Muty MAHANUI
7.00	Overall				

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#### Contract No. 13/WSD/16 Mainlaying in Tseung Kwan O Monthly EM&A Report No.33



	Anuity Sustainability Consulting Limited	
	Acuity Sustainability Consulting Limited	
	Acuity Unit 1908, Nos. 301-305 Castle Peak Road, Kwai Chung, N.T. Sustainability O: 2333-6823   F: 2333-1316   E: general@acuityhk.com   www.acuityhk.com	
	Contract no. 13/WSD/16 Mainlaying in Tseung Kwan O	
	mark / Follow up of Observation(s) and Non-compliance(s) of Last Weekly Site Inspection:	
	Observation CO	
	(1) NO Major observations were reported on the respective day.	
disne		
	Rominder CG	
	(1) Guild Should be potected by conductor to prevent Number of construction.	
	materials from the site area out H.K. velochrome.	
	(2) perpetited / trapped materials in the guily should be cleaned vegularly to	
	(o) teplited imped months I by 1966 for	
	allow officient drainage. at H.E. Veladrame.	
	(3) the Main contractor was reminded to Onrider stronge of construction moderia	u
	and not to place the material near the tree not. to prevent accidentes,	
	dimage outamination to the tracat H.K. Velodiome.	
	building of an annual of the track the track the	
_	Signatures:	
	ET Contractor's WSD's IEC's Representative Representative Representative	
	in a cut	
	(Name: changene) (Name: San M.) (Name: 1 1 2) (Name: Langene)	
	(Name: charriere) (Name: San M.) (Name: the for For (Name: Lovins)	
	Kiwam	

2614

summon of offences = 0

Page 6 of 6



## Appendix M

## Proactive Environmental Protection Proforma



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

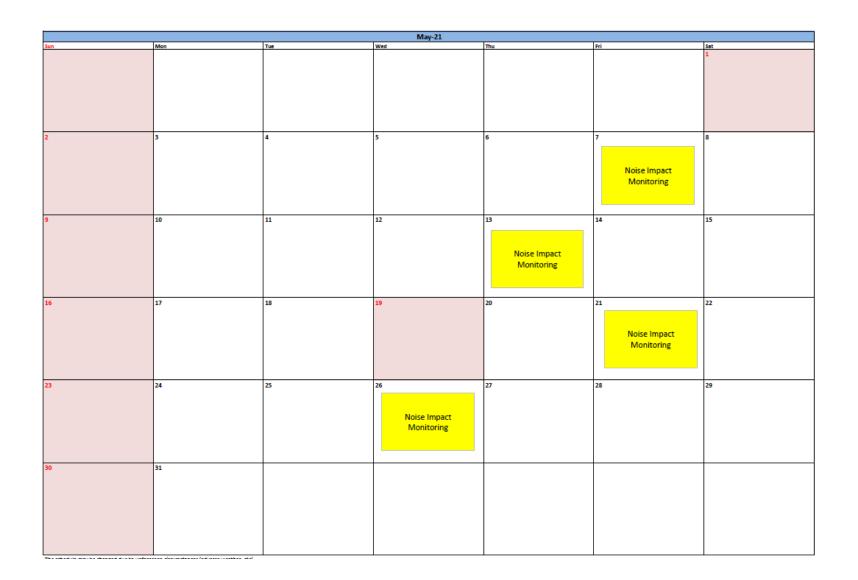
Reporting Period	Activity	Major Environmental Impact	Environmental Mitigation Measure
1 May 2021 - 31 May 2021	<ul> <li>Excavation of trench</li> <li>Mainlaying of pipe</li> <li>Backfilling of the trench</li> <li>Work fronts for open trench</li> <li>Work fronts for pipe jacking</li> </ul>	Construction dust and noise generation; construction wastes; impact of water quality	<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>Treatment of water with water treatment facilities before discharge</li> </ul>



# Appendix N

# Impact Monitoring Schedule of Next Reporting Month (Tentative)







# Appendix O

## Academic Calendar(s)



CREATIVE SECONDARY SCHOOL CALENDAR 2020-2021									
August	2	Su	Mo	Tu	We	Th	Fr	Sa	
		9	10	11	12	13	14	15	
		16	17	18	19	20	21	22	19/8 First School day
		23	24A	25B	26C	27D	28E	29	
September	2	30	31F	1A	2B	3C	4D	5	
September	2	6	7E	8F	2B 9A	10B	110	12	
	3	13	14D	15E	16F	17A	198	12	18/09 Swimming gala
	4	20	21C	22D	23E	24F	25A	26	Toros Swimming gaia
	5	27	28B	29C	30	2.41	LUA	20	28/9 F1/MY1 3-Way Conference, 30/9 Staff Development Day 1
October	Ľ	21	100	200		1	2	3	1/10 National Day. 2/10 The Day following Mid-Autumn Festival
0010001		4	5D	6E	7F	8A	9B	10	in to Hallohal Bay. El to the Bay following the Halanin' outral
	6	11	12C	13D	14E	15F	16A	17	13/10 F6 3-Way Conference
		18	19	20	21	22	23	24	19-24 Term Break
	7	25	26	27B	28C	29D	30E	31	26/10 Chung Yeung Festival Holiday.
November	8	1	2F	3A	4B	5C	6D	7	
		8	9	10E	11F	12A	13B	-14	9/11/2020 Staff Development Day 2, 10/11 F5 3-Way Conference
	9	15	16C	17D	18E	19F	20A	21	
	10	22	23B	24C	25D	26E	27F	28	
	11	29	30A						
December				1B	2C	3D	4D	5	
	12	6	7E	8F	9A	10B	11C	12	
		13	14D	15E	16F	17A	18B	19	15/12 F4 3-Way Conference
		20	<u>21</u>	22	23	24	25	26	25/12 Christmas Day 16/12 The First Weekday after Chrismas Day
		27	<u>28</u>	<u>29</u>	<u>30</u>	<u>31</u>			21/12-2/1 Christimas & New Year Holiday
January							1	2	1/1 New Year's Day
	13	3	4C	5D	6E	7F	8A	9	7/1 F3 3-Way Conference, 6-19/1 F6 HKDSE & IBDP Mock Exams
	14	10	11B	12C	13D	14E	15F	16	
	15	17	18A	19B	20C	21D	22E	23	
	16	24	25F	26A	27B	28C	29D	30	
<b>F</b> . <b>I</b>	47	31	45	05		40	50	0	
February	17	-	1E 8D	2F 9E	3A	4B	5C	6	12-15 New year Holiday. 10-20/2 Chinese New Year Holiday
		7	80	9E	<u>10</u> 17	<u>11</u> 18	12 19	20	12-15 New year Holiday. 10-20/2 Chinese New Year Holiday
	18	21	22F	23A	24B	25C	26D	27	
	10	28	221	ZJA	240	230	200	21	
March	19	20	1E	2F	3A	4B	5C	6	4/3 F2 3-Way Conference, 5/3 Last school day for F6 HKDSE students
maron	10	7	8D	9E	10F	11A	12B	13	
	20	14	15C	16D	17E	18F	19A	20	
		21	22	23	24	25	26	27	22-26/3 Creative Week
	21	28	29B	30C	31D				
April						1	2	3	01/04-10/04 Easter Holiday. 02/04 Good Friday, 03/04 The Day following Good Friday
		4	- 5	6	7	8	9	10	04/04 Ching Ming Festival. 05/04 Easter Monday, 9-19/4 F6 HKDSE Exams-CSS Hall
	22	11	12E	13F	14A	15B	16C	17	16/4 Last school day for F6 IBDP students
		18	19D	20E	21F	22A	23B	24	
	23	25	26C	27D	28E	29F	30A		27/4 F1/MY1 3-Way Conference 30/4-19/5 F6 IBDP May Exams
May								1	1/5 Labour Day
	24	2	3B	4C	5D	6E	7F	8	4-17/5 F5 HKDSE Final Exams
	25	9	10A	11B	12C	13D	14E	15	
	26	16	17F	18A	19	20B	21C	22	19/5 Birthday of Buddha, 21-27/5 F4 HKDSE Exams & F5 IBDP Final Exams
		23	24D	25E	26F	27A	28B	29	
	27	30	31C					-	
June				1D	2E	3F	4A	5	
	28	6	7B	8C	9D	10E	11F	12	
	29	13	14	15A	16B	17C	18D	19	14/06 Tuen Ng Festival
	30	20	21E	22F	23A	24B	25C	26	
haliz	$\vdash$	27	28D	29E	30F		2	2	01/07 HKSAB Establishment Day 2/7 11/8 Summer Heliday
July		4	5	6	7	8	<u>2</u> 9	<u>3</u> 10	01/07 HKSAR Establishment Day, 2/7-14/8 Summer Holiday
		4 11	<u>5</u> 12	<u>b</u> 13	14	<u>8</u> 15	<u>9</u> 16	10	
		<u>11</u> 18	<u>12</u> 19	<u>13</u> 20	<u>14</u> 21			<u>17</u> 24	
		25	26	20	21	22 29	23 30	<u>24</u> 31	
August	$\vdash$	<u>25</u> 1	20	3	4	<u>29</u> 5	<u> </u>	7	
August		8	<u>2</u> 9	10	11	12	13	14	
		<u>e</u> 15	16	17	18	19	20	21	
								41	
		22	23	24	25	26	27	28	

Sourced from: <u>https://1e833fb1-5af5-4de8-901f-</u> <u>f9aeda4354b2.filesusr.com/ugd/611a22\_ea5d81f9881541de9c3c7049ba46860d.pdf</u>



AREAC	CODIDSE SCH	COD SCH_NAME	SCH ADDRESS	PWD AREA	MON	TH DAT	ESESS	ION TIME PERIC	IEXAN	AREF
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	23	A	08:30 - 13:56	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	24	A	08:30 - 12:45	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	24	A	08:30 - 14:00	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	26	A	08:30 - 13:44	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	26	A	08:30 - 12:30	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	27	A	08:30 - 13:00	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	27	A	08:30 - 14:30	DSE	2021
K	20234	Creative Secondary School		an O, Sai K Tseung Kwan O District	4	28	A	09:15 - 13:03	DSE	2021
2	20234	Creative Secondary School	2 Dung Loi Doad, Teuang Ku	on O. Soi V. Teaung Kuon O. Dietrict	4	26	Δ	00-15 12-10	Der	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	29	A	08:30 - 13:33	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	29	A	08:30 - 12:15	DSE	2021
K.	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	30	A	09:15 - 11:40	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	4	30	A	09:15 - 12:25	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	3	A	08:30 - 12:45	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	3	A	08:30 - 14:14	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	4	A	08:30 - 12:30	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	5	A	08:30 - 14:00	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	7	A	08:30 - 14:03	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	10	A	08:30 - 14:00	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	11	A	08:30 - 14:15	DSE	2021
K	20234	Creative Secondary School	3 Pung Loi Road, Tsueng Kw	an O, Sai K Tseung Kwan O District	5	15	A	08:30 - 13:58	DSE	2021

Sourced from Creative Secondary School