# **Civil Engineering and Development Department**

# Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron (under EP-458/2013/C)

# Monthly Environmental Monitoring and Audit Report for July 2020

(version 1.0)

Approved By	
	(Mr. KS Lee,
	Environmental Team Leader)

REMARKS:

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

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

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



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18 August 2020

By Post and E-mail

Hyder-Meinhardt Joint Venture 17/F, Two Harbour Square 180 Wai Yip Street, Kwun Tong Kowloon, Hong Kong

Attention: Mr. Edwin Ching

Dear Mr. Ching,

## Re: Agreement No. EDO 01/2019 Independent Environmental Checker for Contract No. ED/2018/04 – Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

# Monthly EM&A Report (July 2020) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for July 2020 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 18 August 2020.

We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection as per Condition 4.4 of EP-458/2013/C.

Thank you for your attention. Please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely, For and on behalf of Ramboll Hong Kong Limited

Manson Yeung Independent Environmental Checker

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Ramboll Hong Kong Limited 英環香港有限公司 21/F, BEA Harbour View Centre, 56 Gloucester Road, Wanchai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899 www.Ramboll.com

C.C.	CEDD	Attn.: Mr. Tommy Wong	Fax: 2739 0076
	BTP	Attn.: Mr. Ivan Chau	Fax: 2293 7499
	Cinotech	Attn.: Mr. K S Lee	Fax: 3107 1388

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# **EXECUTIVE SUMMARY**

## Introduction

1. This is the 3<sup>rd</sup> Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of July 2020.

# Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
  - East Portal Site Setup
  - East Portal Blast door (EB) installation completed.
  - Portal rock bolt installation completed.
  - Horizontal GI for EB completed.
  - CKL Junction Improvement Works
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

## Construction Noise

- Construction activities were scheduled to minimize noise nuisance to the nearby sensitive receiver.
- Use of Quality Powered Mechanical Equipment (QPME) on site.
- Erected the noise barrier on site.

## Air Quality

• Regularly watering on site to avoid dust generation.

## Landscape and Visual

• Tree protection zones were fenced off to protect the existing trees on site.

## **Environmental Monitoring Works**

- 4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance (exceedance) in the reporting month for the Project is tabulated in **Table I**.

Table 1 Ton-comphanee (exceduate) Accord for the Project in the Acporting Month						
Environment al Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken	
-	Action Level	Limit Level	Action Level	Limit Level		
Air Quality	0	0	0	0	N/A	
Noise	0	0	0	0	N/A	
Marine Water Quality	N/A	N/A	N/A	N/A	N/A	
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A	
Ecological	N/A	N/A	N/A	N/A	N/A	
Cultural Heritage	N/A	N/A	N/A	N/A	N/A	
Landfill Gas	0	0	0	0	N/A	

 Table I
 Non-compliance (exceedance) Record for the Project in the Reporting Month

# Air Quality Monitoring

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

Construction Noise Monitoring

- 8. No Action Level exceedance was recorded due to the documented complaints received in this reporting month. The Summary of Documented Complaints in Reporting Month is tabulated in Table III.
- 9. No Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month.

## Water Quality Monitoring

- 10. Groundwater quality monitoring had been suspended since October 2019 upon the agreement by EPD. Further details should be founded at **Section 4.1**.
- 11. No marine water quality monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.
- 12. As the construction activity is approximately 120m away from the piezometer gate, no piezometer monitoring is required.

Waste Management

13. Wastes generated from this Project include inert construction and demolition (C&D) materials, and non-inert C&D materials. Details of waste management data is presented in **Appendix H**.

Ecological Monitoring

14. No coral monitoring is required as no marine works will be conducted at the Cha Kwo Ling and Lam Tin areas for this project.

Fisheries Impact Monitoring

15. No specific fisheries monitoring programme is required during the construction phase.

Monitoring on Cultural Heritage

16. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, no monitoring on cultural heritage is required.

Landscape and Visual Monitoring and Audit

17. The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. Recommended follow-up actions have been discharged by the Contractor. Details of the audit findings and implementation status are presented in **Section 12**.

Landfill Gas Monitoring

18. Monitoring of landfill gases was commenced in December 2016. Such monitoring was conducted by the Contractor of Agreement No. CE 59/2015 (EP). No Limit Level exceedance was recorded.

Hazard to Life Monitoring

19. No environmental monitoring and audit is required as no hazard assessment was conducted.

Environmental Site Inspection

19. Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Environmental Team. Details of the audit findings and implementation status are presented in **Section 12**.

# Key Information in the Reporting Month

20. Summary of key information in the reporting month is tabulated in Table II

# Table II Summary of Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month

Event	Event Details		Action Taken	Status	
Event	Number	Nature	Action Taken	Status	
Complaints Received	0		N/A	N/A	
Notifications of any summons & prosecutions received	0		N/A	N/A	

21. Summary of complaints received in the reporting month is tabulated in Table III.

#### Table III Summary of Complaints Details in Reporting Month

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
	N/A	N/A

# **Future Key Issues**

22. The key works or activities will be anticipated in the next reporting period are as follows:

# Table IV Summary Table for Site Activities in the next Reporting Period

Site Activities (August 2020)	Key Environmental Issues
1. Tunnel blasting/excavation works	(A) / (B) / (C) / (D)

Note:

(A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;

(B) Noisy construction activity such as rock-breaking activities and piling works;

(C) Runoff from exposed slope or site area; and

(D) Wastewater and runoff discharge from site.

## **1 INTRODUCTION**

## Background

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.0km long with about 2.7km of the trunk road in form of tunnel; ventilation and administration buildings, environmental protection and mitigation works and etc. The EM&A programme under this Contract is governed by the two EPs (EP-451/2013 and EP-458/2013/C) and two EM&A Manuals (AEIAR-174/2013 and AEIAR-173/2013). The work areas of the T2 Main Works are shown in **Figure 1** and the works to be executed under this Contract and corresponding EPs are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	<u>Trunk Road T2</u>
	• Construction of highway and sub-sea tunnel connecting between
	Central Kowloon Route and Cha Kwo Ling Tunnel
	Western & Eastern Ventilation Buildings
EP-458/2013/C - Tseung Kwan O -	<u>Cha Kwo Ling Tunnel</u>
Lam Tin Tunnel (TKOLTT) and	Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2
Associated Works	to the TKOLTT at the Eastern Ventilation Building

## Monitoring Works in Lam Tin under EP-458/2013/C

- 1.4 Under Agreement No. CE 59/2015 (EP) Tseung Kwan O Lam Tin Tunnel (TKOLLT) and Associated Works, the baseline monitoring works in Lam Tin under the EM&A Manual (AEIAR-173/2013) were conducted by the Environmental Team (ET) for the Agreement No. CE 59/2015 (EP) at the approved monitoring locations, namely AM1, AM2, AM3, AM4, AM4 (A) CM1, CM2, CM3, CM4 and CM5. Impact monitoring within the Lam Tin area shall be conducted by the ET of Contract No. ED/2018/04 upon cessation of Agreement No. CE 59/2015 (EP). The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former

South Apron" (hereinafter called the "Project").

## **Purpose of the Report**

1.6 This is the 3<sup>rd</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in July 2020.

## **Project Organizations**

- 1.7 Different Parties with different levels of involvement in the Project organization include:
  - Permit Holder Civil Engineering and Development Department (CEDD)
  - Supervisor Representative Hyder-Meinhardt Joint Venture (HMJV)
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) Ramboll Hong Kong Limited (Ramboll)
  - Contractor Bouygues Travaux Publics (BTP)
- 1.8 The key contacts of the Project are shown in **Table 1.1**.

1 able 1.1	Key Hojeet Contacts			
Party	Role Contact Person		Phone No.	
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111	
HMJV	Supervisor Representative	Mr. Joe Nam	3742 3820	
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091	
		Ms. Karina Chan	2157 3880	
Ramboll	Independent Environmental Checker	Mr. Manson Yeung	3465 2888	
BTP	Contractor	Mr. Bryan Lee	5588 3891	

## Table 1.1Key Project Contacts

1.9 The Organizational Structure for Environmental Management is shown in Figure 1.2.

## **Construction Activities undertaken during the Reporting Month**

- 1.10 The major site activities undertaken in the reporting month included:
  - East Portal Site Setup
  - East Portal Blast door (EB) installation completed.
  - Portal rock bolt installation completed.
  - Horizontal GI for EB completed.
  - CKL Junction Improvement Works

## Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;

- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in July 2020.

## Status of Environmental Licensing and Permitting

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

 Table 1.2
 Summary of Environmental License and Permit

Dommit / Licongo No	Valid	Valid Period				
Permit / License No.	From	То	Status			
<b>Environmental Permit (EP)</b>						
EP-451/2013	19 Sep 2013	N/A	Valid			
EP-458/2013/C	20 Jan 2017	N/A	Valid			
Notification pursuant to Air Pollution (Const	truction Dust) R	Regulation				
Ref. No.: 451120	20 Nov 2019	N/A	Valid			
Billing Account for Construction Waste Disposal						
A/C No.: 7036016	09 Dec 2019	N/A	Valid			
Construction Noise Permit	Construction Noise Permit					
CNP No. (For Portion T1): GW-RE0401-20	21 May 2020	20 Aug 2020	Valid			
CNP No. (For Portion Q): GW-RE0337-20	08 May 2020	07 Nov 2020	Valid			
Wastewater Discharge License						
Nil						
Chemical Waste Producer License						
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid			

# 2 AIR QUALITY

# **Monitoring Requirement**

2.1 According to Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 1-hour and 24-hour TSP monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

2.2 Five designated monitoring stations were selected for air quality monitoring programme. Table2.1 describes the air quality monitoring locations, which are also depicted in Figure 2.

<b>Monitoring Stations</b>	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	Yau Lai Estate Bik Lai House	Rooftop (41/F)
AM4 <sup>(1)</sup>	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(A) <sup>(2) (*)</sup>	Cha Kwo Ling Public Cargo Working Area Administrative Office	Rooftop (3/F)

Table 2.1	Air Quality	<b>Monitoring L</b>	ocations
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Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

(\*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners.

Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)

# **Monitoring Parameters and Frequency**

2.3 **Table 2.2** summarizes the monitoring parameters, monitoring period and frequencies of impact air quality monitoring. The monitoring schedule is shown in **Appendix D**.

# Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Stations	Parameter	Period	Frequency
AM1, AM2, AM3, AM4	1-hour TSP	0700 - 1900	3 times per 6 days
AM1, AM2, AM3, AM4(A)	24-hour TSP	24 hours	Once every 6 days

# **Monitoring Equipment**

2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-173/2013), Section 2.3.1, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured

by direct reading method.

- 2.5 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House for logging wind speed and wind direction such that the wind sensors are clear of obstructions or turbulence caused by building. The wind data monitoring equipment is recalibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

Table 2.5 All Quality Monitoring Equipment					
Equipment	Equipment Model				
1-hour TSP Dust Meter	Sibata Model No. LD-5R (Serial No.: 972778, 972779, 972777)	3			
	TISCH Model: TE-5170 (Serial No.: 1536)	1			
HVS Sampler	GMW model: GS2310 (Serial No.: 1287, 10379, 10599)	3			
Calibrator	TISCH Model: TE-5025A (Serial No.: 3746)	1			
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial No.: MC01010A44)	1			

 Table 2.3
 Air Quality Monitoring Equipment

# **Monitoring Methodology**

# **1-hour TSP Monitoring**

# Measuring Procedures

2.7 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

## Maintenance/Calibration

- 2.8 The following maintenance/calibration is required for the 1-hour dust meter:
  - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

# 24-hour TSP Monitoring

## Instrumentation

- 2.9 High volume samplers (HVS) (TISCH Model: TE-5170 and GMW Model: GS2310) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).
- 2.10 The positioning of the HVS samplers are as follows:
  - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
  - No two samplers shall be placed less than 2 meter apart;
  - The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
  - A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
  - A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
  - No furnace or incinerator flue is nearby;
  - Airflow around the sampler is unrestricted;
  - The sampler is more than 20 metres from the dripline;
  - Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
  - Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
  - A secured supply of electricity is needed to operate the samplers.

# Operating/analytical procedures for the operation of HVS

- 2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
  - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m<sup>3</sup>/min. and 1.7 m<sup>3</sup>/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.
  - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
  - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.

- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (Wellab Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than  $\pm$ 3°C; the relative humidity (RH) should be < 50% and not vary by more than  $\pm$ 5%. A convenient working RH is 40%.

## Maintenance/Calibration

- 2.12 The following maintenance/calibration is required for the HVS:
  - The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.

High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

# **Results and Observations**

- 2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3, AM4 and AM4 (A) are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report.
- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix D**.
- 2.15 No Action/Limit Level exceedance was recorded for all 1-hour and 24-hour TSP monitoring in the reporting month.
- 2.16 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.17 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road
AM2 – Sai Tso Wan Recreation Ground	N/A
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office	Road Traffic at Cha Kwo Ling Road

 Table 2.4
 Major Dust Source during Air Quality Monitoring

# Comparison of EM&A Result with EIA Prediction

2.18 The air monitoring data was compared with the predictions (with the assessment height of 1.5 mAG) in Table 3.17 of EIA Report, AEIAR-173/2013 (as approved in 2013) as summarised in **Table 2.5** and **Table 2.6**.

Table 2.5	Comparison	of 1-hr TSP	P Monitoring Data	with Predictions	in EIA Report
	001100110011				

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 1-hr TSP Concentration in the Reporting Month (July 2020), µg/m <sup>3</sup>
AM1 – Tin Hau Temple	CL1	707	67.6
AM2 – Sai Tso Wan Recreation Ground	CL6	266	55.1
AM3 – Yau Lai Estate Bik Lai House	CL9	507	69.6
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	79.2

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m <sup>3</sup>	Maximum 24-hr TSP Concentration in the Reporting Month (July 2020), µg/m <sup>3</sup>
AM1 – Tin Hau Temple	CL1	199	155.5
AM2 – Sai Tso Wan Recreation Ground	CL6	109	28.6
AM3 – Yau Lai Estate Bik Lai House	CL9	123	42.9
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office <sup>(*)</sup>	N/A <sup>(1)</sup>	N/A <sup>(1)</sup>	38.8

 Table 2.6
 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-173/2013)

(\*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)

- 2.19 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.
- 2.20 In the reporting month, the 24-hour TSP concentrations at AM1, AM2, AM3 and AM4 (A) were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.

# 3 NOISE

# **Monitoring Requirements**

3.1 According to Section 3.2.1 of the EM&A Manual (AEIAR-173/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. Appendix A shows the established Action and Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

3.2 Noise monitoring was conducted at five designated monitoring stations, namely CM1, CM2, CM3, CM4 and CM5 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.

Monitoring Stations	Location	Location of Measurement
CM1	Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM2	Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	Rooftop (41/F)
CM3	Block S, Yau Lai Estate Phase 5, Yau Tong	Rooftop (40/F)
CM4	Tin Hau Temple, Cha Kwo Ling	Ground Level
CM5	CCC Kei Faat Primary School, Yau Tong	Rooftop (6/F)

## Table 3.1 Noise Monitoring Stations

# Monitoring Parameters, Frequency and Duration

3.3 **Table 3.2** summarizes the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 3.2Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1				L (20 min)	Façade Measurement
CM2				L <sub>10</sub> (30 min.) dB(A)	Façade Measurement
CM3	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L <sub>90</sub> (30 min.) dB(A)	Façade Measurement
CM4	weekuays			$L_{eq}(30 \text{ min.})$	Façade Measurement
CM5				dB(A)	Façade Measurement

# **Monitoring Equipment**

3.4 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level ( $L_{eq}$ ) and percentile sound pressure level ( $L_x$ ) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used by the ET for Agreement No. CE 59/2015 (EP) within the reporting period. Copies of calibration certificates are attached in **Appendix B**.

Tuble ele Troibe Mointering Equipment					
Equipment	Model	Quantity			
Integrating Sound Lavel Mater	SVAN 957 (Serial No.: 23851, 21455)	2			
Integrating Sound Level Meter	BSWA 308 (Serial No.: 570187)	1			
	SV30A (Serial No.: 10965)	1			
Calibrator	ST-120 (Serial No.: 181001608,	2			
	181001636)	2			

# Table 3.3Noise Monitoring Equipment

# Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
  - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
  - The wind speed was frequently checked with the portable wind meter.
  - At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
  - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

# Maintenance and Calibration

3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.

- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Results and Observations**

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 No Action Level exceedance was recorded for all construction noise monitoring as no complaints were received in the reporting month.
- 3.11 No Limit Level exceedance was recorded for all construction noise monitoring in the reporting month.
- 3.12 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major noise sources identified at the noise monitoring stations are shown in Table 3.4.

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source	
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	
CM4	Road Traffic at Cha Kwo Ling Road	
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza	

 Table 3.5
 Baseline Noise Level and Noise Limit Level for Monitoring Stations

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	
CM2	63.6	75
CM3	65.6	15
CM4	62.0	
CM5	68.2	70*

(\*) Noise Limit Level is 65 dB(A) during school examination periods.

## Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 4.15 of EIA Report

Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report
-----------	---

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (July 2020), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	72.6
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	73.2
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	73.4
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	65.9
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	71.3

3.15 The results at CM5 was higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), this may be due to the traffic noise near Eastern Cross Harbour Tunnel Toll Plaza. However, the maximum Construction Noise Level after baseline level correction, which is 68 dB(A), was below the maximum predicted noise level in the EIA Report for Station CM5. The results at CM1, CM2, CM3 and CM4 were lower than the maximum predicted noise level in the EIA Report. No Action / Limit level exceedance was recorded in the reporting period.

# 4 WATER QUALITY

## **Monitoring Requirement**

Groundwater Quality

4.1 The existing groundwater quality monitoring programme has been suspended as the monitoring results had been deemed non-representative of the impact from the project justified by two major factors: (1) influence on the monitoring results from non-project related factors, such as anthropogenic activities and natural phenomenon; and (2) large separation between the monitoring stations and works area. In addition, as no alternative locations for the groundwater quality monitoring were available, the groundwater quality monitoring has been suspended since October 2019 upon the agreement by EPD.

## Marine Water Quality

4.2 According to Section 4.4.3 of EM&A Manual (AEIAR-173/2013), marine water quality impact monitoring stations is carried out during marine construction for TKOLTT reclamation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve reclamation, the marine water quality monitoring programme stated in Section 4.4 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

## Groundwater Level Monitoring (Piezometer Monitoring)

4.3 According to Section 4.1.2 of EM&A Manual (AEIAR-173/2013), daily piezometer monitoring will be carried out on a daily basis when any tunnel construction activities are carried out within +/- 50m of the piezometer gate in plan. As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building is approximately 120m away from the piezometer gate in plan, the piezometer monitoring programme stated in Section 4.2 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

# 5 WASTE MANAGEMENT

- 5.1 According to Section 5.1.2 of the EM&A Manual (AEIAR-173/2013), Waste materials generated during construction activities, such as construction and demolition (C&D) materials and general refuse, are recommended to be audited at regular intervals (at least quarterly) to ensure that proper storage, transportation and disposal practices are being implemented by the Contractor. To fulfil this requirement, site audits are carried out on a weekly basis. The summaries of site audits are attached in **Appendix I**.
- 5.2 With reference to relevant handling records of this Project, the quantities of different types of waste generated in the reporting month are summarised and presented in **Appendix H**.

# 6 ECOLOGY

## **Post-Translocation Coral Monitoring**

6.1 Post-translocation monitoring survey is recommended in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013), to audit the success of coral translocation. Since the construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building does not involve any marine works in the concerned area mentioned in Section 6.1.2 of the EM&A Manual (AEIAR-173/2013), the post-translocation monitoring survey stated in Section 6.2.5 of the EM&A Manual (AEIAR-173/2013) is therefore not applicable to Contract No. ED/2018/04.

# 7 FISHERIES

- 7.1 According to Section 7.1.3 of EM&A Manual (AEIAR-173/2013), no specific fisheries monitoring programme is required during the construction phase.
- 7.2 The implementation of the mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 5 of EIA Report (AEIAR-173/2013)) will be audited as part of the EM&A procedures during the construction period. The summaries of site audits are attached in **Appendix I**.

# 8 CULTURAL HERITAGE

- 8.1 According to Condition 3.7 of EP-458/2013/C and Section 8.2.1 of the EM&A Manual (AEIAR-173/2013), monitoring of vibration impacts was conducted when the construction works are less than 100m from the Built Heritage in close proximity of the worksite, namely the Cha Kwo Ling Tin Hau temple. Tilting and settlement monitoring should be applied on the Cha Kwo Ling Tin Hau Temple.
- 8.2 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

## Mitigation Measures for Cultural Heritage

8.3 According to Condition 3.6 of EP-458/2013/C, to prevent damage to Cha Kwo Ling Tin Hau Temple and its Fung Shui rocks (Child-given rocks) during the construction phase, a temporarily fenced-off buffer zone (Rocks buffer zone is 5 m from the edge of Rocks and 15m from the edge of Rocks alter) with allowance for public access (minimum 1 m) around the temple and the Fung Shui rocks shall be provided. The open yard in front of the temple should be kept as usual for annual Tin Hau festival.

8.4 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there is construction activities in vicinity of the cultural heritage.

# 9 LANDSCAPE AND VISUAL IMPACT

- 9.1 According to Section 9.3 of the EM&A Manual (AEIAR-173/2013), landscape and visual mitigation measures during the construction phase shall be checked to ensure that they are fully realized and implemented on site.
- 9.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures listed in "Environmental Mitigation Implementation Schedule (EMIS)" (shown in **Appendix J**).
- 9.3 The implementation of landscape and visual mitigation measures was checked by a registered landscape architect. No non-compliance of the landscape and visual impact was recorded in the reporting month. Details of the audit findings and implementation status are presented in **Appendix I**.

# 10 LANDFILL GAS MONITORING

# **Monitoring Requirement**

- 10.1 In accordance with Section 10.1.1 of the EM&A Manual (AEIAR-173/2013), monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. This section presents the results of landfill gas measurements performed by the Contractor of Agreement No. CE 59/2015 (EP). Appendix A shows the Limit Levels for the monitoring works.
- 10.2 The "Landfill Gas Monitoring Proposal", including the monitoring programme and detailed actions, is submitted to the EPD for approval. Details of monitoring in this Proposal is in line with the monitoring requirements stipulated in the EM&A Manual.

# **Monitoring Parameters and Frequency**

- 10.3 Monitoring parameters for Landfill gas monitoring include Methane, Carbon dioxide and Oxygen.
- 10.4 According to the implementation schedule and recommended mitigation measures of the EM&A Manual, measurements of the following frequencies should be carried out:

Excavations deeper than 1m

• 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 the excavation remains open; and
- periodically throughout the working day whilst workers are in the excavation.

Excavations between 300mm and 1m deep

- directly after the excavation has been completed; and
- periodically whilst the excavation remains open.

For excavations less than 300mm deep

• monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person

## **Monitoring Locations**

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

# **Monitoring Equipment**

10.6 **Table 10.1** summarizes the equipment employed by the Contractor of Agreement No. CE 59/2015 (EP) for the landfill gas monitoring.

## Table 10.1Landfill Gas Monitoring Equipment

Equipment	Model and Make	Quantity
	ALTAIR 5X	
Portable gas detector	Multigas Detector	1
	(Serial No. 152097)	

## **Results and Observations**

10.7 In the reporting month, landfill gas monitoring was carried out by the Contractor of Agreement No. CE 59/2015 (EP) on 125 occasions. No Limit Level exceedance for landfill gas monitoring was recorded in the reporting month. The monitoring results are provided in Appendix K. Copies of calibration certificates are attached in Appendix B.

# 11 HAZARD TO LIFE

11.1 According to Section 11.1.1 of EM&A Manual (AEIAR-173/2013), as no overnight storage of explosive on site is required for the construction of the Project, the hazard assessment is deemed not necessary. Thus, environmental monitoring and audit is not required.

# 12 ENVIRONMENTAL AUDIT

# Site Audits

12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in Appendix I.

12.2 Site audits were conducted on 02, 09, 16, 23 & 30 July 2020 in the reporting month. Site inspection of the IEC was conducted on 16 July 2020. No non-compliance was observed during the site audit.

#### **Implementation Status of Environmental Mitigation Measures**

- 12.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix J**.
- 12.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 12.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	23 July 2020	Watering regularly within the work area enclosed by the blast door was recommended to avoided dust generation.	Water splashing system was installed. And, the contractor was required to install the similar system within the work area enclosed by blasting door.
Noise	23 July 2020	Moveable noise barrier shall be provided to reduce the noise nuisance generated from breaker.	Although the noise barrier was erected, the size and its placing were not ideally to block/minimize the noise generated from the noise source. Contractor stated that it is different to situate a noise barriers to block the noise generated from lower position to the NSR in which are located at a higher position. Also, he stated that a moveable/ fixed noise barrier are not suitable for erection on site with size limitation. The item is then remarked to be followed up in the next reporting period.
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Visual			
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

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

12.5 The Event and Action Plans for air quality and construction noise monitoring, and the Limit Levels and Action Plan for landfill gas monitoring are presented in **Appendix L**.

Air Quality Monitoring

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

#### Construction Noise Monitoring

- No documented complaint on construction noise was received; no Action Level exceedance for construction noise was recorded.
- No Action/Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Landfill Gas Monitoring

• No Limit Level exceedance for landfill gas monitoring was recorded.

## **13 ENVIRONMENTAL NON-CONFORMANCE**

# Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

13.1 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix M**.

## **Summary of Exceedance**

13.2 The summary of exceedance record in the reporting month is shown in Appendix N.

## **14 FUTURE KEY ISSUES**

- 14.1 Tentative construction programmes for the next three months are provided in Appendix O.
- 14.2 Major site activities undertaken for the coming months are summarized as follows:

• Tunnel blasting/ excavation works

14.3 Key environmental issues in the coming months include:

- Make sure noise mitigation measures are implemented accordingly; and
- Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain.

## **Monitoring Schedule**

14.4 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

## **15 CONCLUSIONS AND RECOMMENDATIONS**

#### Conclusions

15.1 This is the 3<sup>rd</sup> Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

## Air Quality Monitoring

- 15.2 No Action/Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 15.3 No Action/Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

## Construction Noise Monitoring

15.4 No Action/Limit Level exceedance was recorded for all noise monitoring in the reporting month.

#### Landfill Gas Monitoring

15.5 Monitoring of landfill gases in the reporting month was carried out by the Contractor of Agreement No. CE 59/2015 (EP). No Limit Level exceedance was recorded.

## Site Audit

15.6 5 ET joint weekly environmental site inspections were conducted in the reporting month.

## Complaint, Notification of Summons and Successful Prosecution

15.7 No environmental complaints, notifications of summons and successful prosecutions were received in the reporting month.

#### Recommendations

15.8 According to the environmental audit performed in the reporting month, the following recommendations were made:

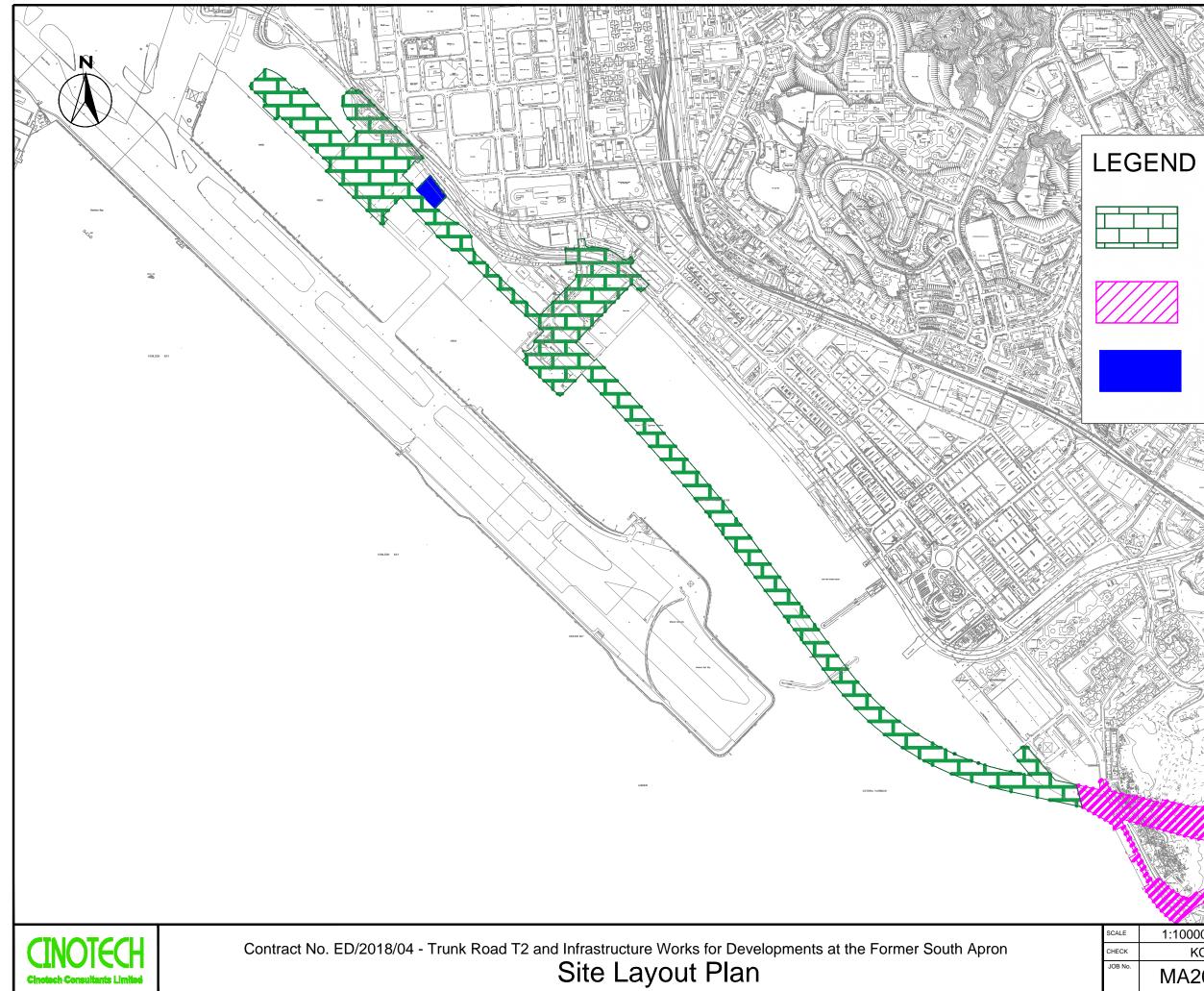
#### Noise

• Contractor should always implement the construction noise mitigation measures to minimize the noise nuisance generated from construction activities.

## Air Quality

• Mitigation measures for minimize dust nuisance should be always implemented on site, and review as well as inspection of the efficiency of such measurements should also be carried out regularly.

FIGURES



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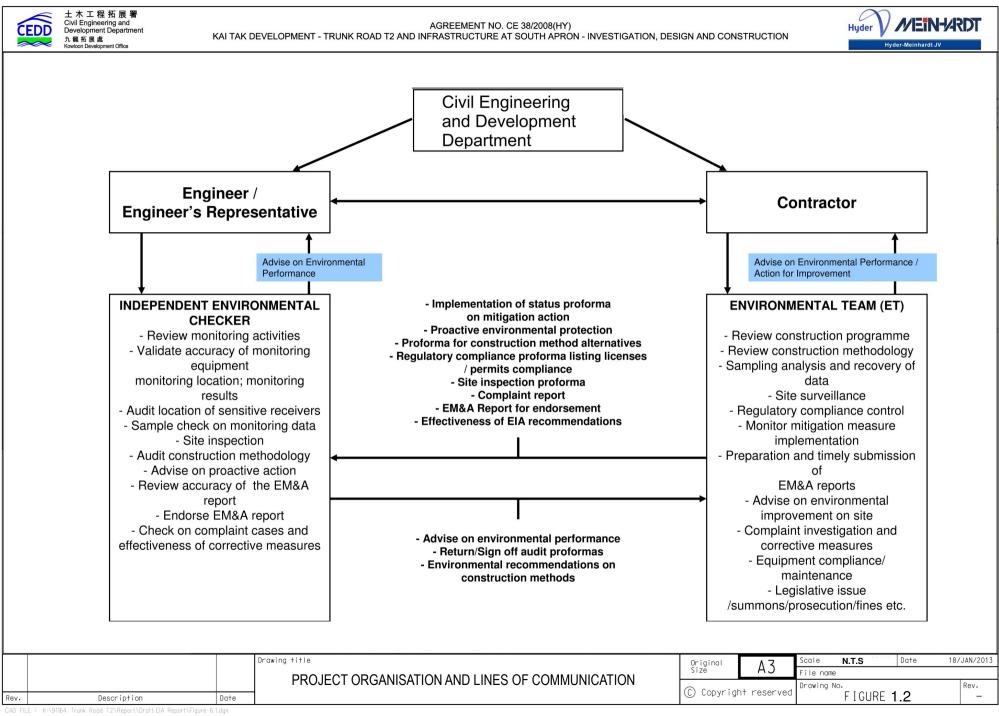
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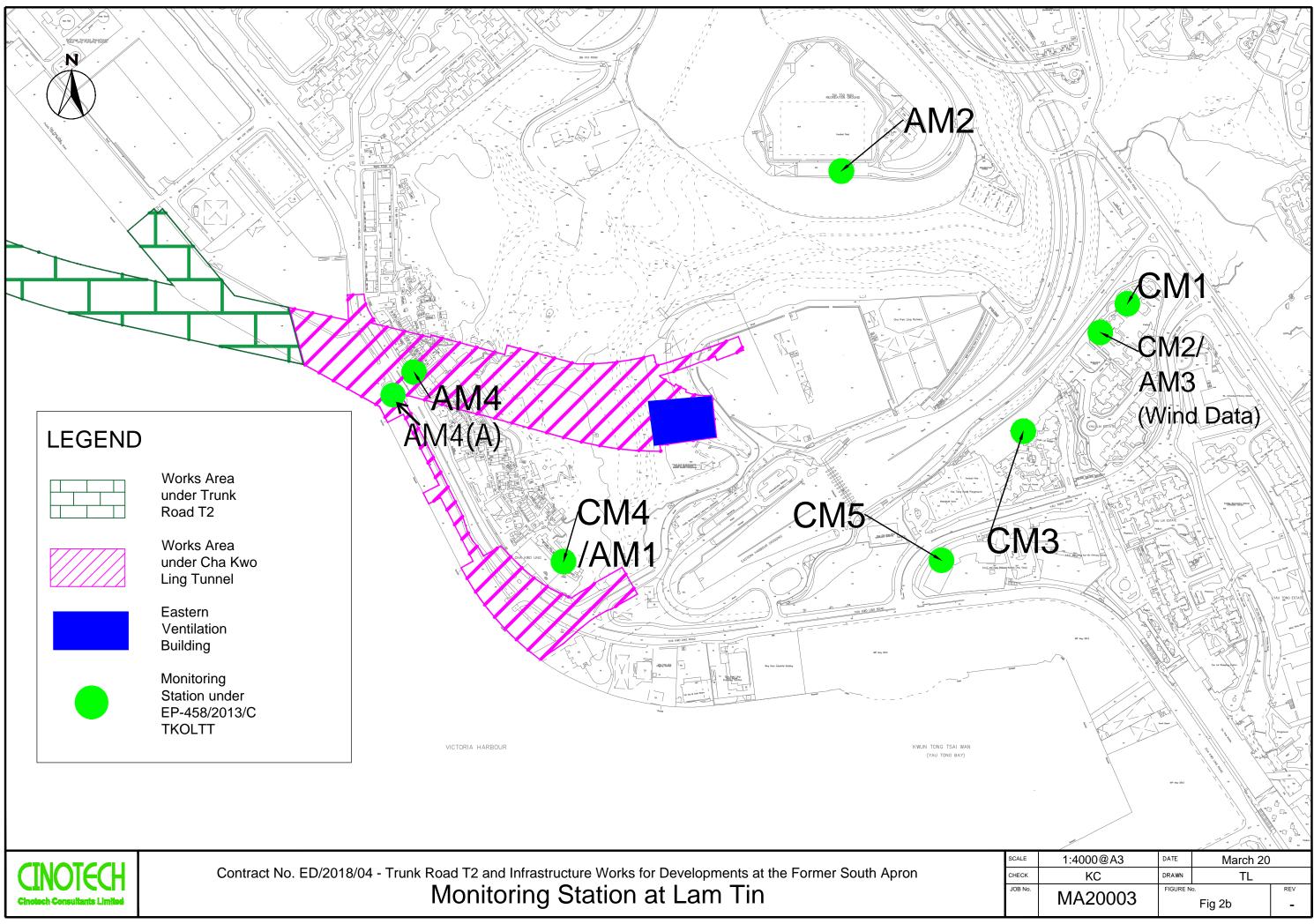
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

#### **APPENDIX A – Action and Limit Levels**

#### Air Quality

#### 1-hr TSP

Monitoring Stations	Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	500
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

#### 24-hr TSP

Monitoring Stations	Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(A)	Cha Kwo Ling Public Cargo Working Area Administrative Office	210	

#### <u>Noise</u>

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) <sup>(1)</sup>

 <sup>1</sup>70 dB(A) for schools and 65 dB(A) for schools during examination period.
 <sup>2</sup> Acceptable Noise Levels for Area Sensitivity Rating of A/B/C
 <sup>3</sup> If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

#### **Landfill Gas Monitoring**

Parameter	Limit Level
Oxygen	<19%
	<18%
Methane	>10% LEL (i.e. > 0.5% by volume)
	>20% LEL (i.e. > 1% by volume)
Carbon	>0.5%
Dioxide	>1.5%

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

## **<u>Cerificate of Calibration</u>**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator		Date	5-Jun-20	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Aug-20
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: <u>A-01-01A</u>	Before Sensiti	vity Adjustment	735 CPM	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	735 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	ſ		HVS	
Point	Mass Concentration (µg/	(m3)	Mas	ss concentration (µ	ug/m <sup>3</sup> )
	X-axis			Y-axis	
1	47.0		100.5		
2	37.0			96.5	
3	26.0			91.0	
Average	36.7			96.0	
	ression of Y on X				
Slope, mw =			cept, bw =	79.3837	
Correlation co	<b>Defficient</b> * = 0.9980				
	Sa	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler (	-		96.0	
Particaulate Concentration by Fight Volume Sampler ( $\mu$ g/m <sup>3</sup> )			36.7		
Measureing time				60.0	
Set Correlation 1					
	h Volume Sampler / Dust Meter, (μ	g/m3) ]	2.6		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (Wellab Litimed)

Approved by: <u>leng</u> Kang Henry Leung

Calibrated by: \_\_\_\_\_\_\_\_\_\_ Wong Shing Kwai

## **<u>Cerificate of Calibration</u>**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description: Digital Dust Indicator			Date of Calibration 5-Jun-20		
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibi	ration Record	5-Aug-20
Model No.:	LD-5R				
Serial No.:	972779				
Equipment No.:	SA-01-08	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-01A	Before Sensiti	vity Adjustment	744 CPM	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	744 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	ſ		HVS	
Point	Mass Concentration (µg/	(m3)	Mas	ss concentration (µ	$g/m^3$ )
	X-axis			Y-axis	
1	46.0			100.5	
2	33.0			96.5	
3	19.0			91.0	
Average	32.7			96.0	
•	ression of Y on X			0.4.4000	
Slope, mw =	0.3524		cept, bw =	84.4890	
Correlation co	oefficient* = 0.9976				
	Se	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler (	$(\mu g/m^3)$		96.0	
Particaulate Con	acentration by Dust Meter ( $\mu g/m^3$ )		32.7		
Measureing time	e, (min)			60.0	
Set Correlation 1	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3) ]	2.9		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (Wellab Litimed)

Calibrated by: Wong Shing Kwai

## **<u>Cerificate of Calibration</u>**

It is certified that the item under calibration has been calibrated by corresponding calibrated High Volume Sampler

Description:	Digital Dust Indicator	Date of Calibration 5-Jun-2		5-Jun-20	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibration Record 5-Au		5-Aug-20
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensiti	vity Adjustment	645	
Tisch Calibratio	n Orifice No.: <u>3607</u>	After Sensitivi	ty Adjustment	645	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monito	r		HVS	
Point	Mass Concentration (µg	/m3)	Mas	ss concentration (µ	ıg/m <sup>3</sup> )
	X-axis			Y-axis	
1	46.0		100.5		
2	40.0			96.5	
3	34.0			91.0	
Average	40.0			96.0	
•	ression of Y on X	_	_		
	0.7917		cept, bw =	64.3333	
Correlation co	oefficient* = 0.9959	)			
	S	et Correlation F	actor		
Particaulate Con	centration by High Volume Sampler	-		96.0	
	icentration by Dust Meter ( $\mu g/m^3$ )	(Fg.III)	40.0		
Measureing time				60.0	
Set Correlation 1				00.0	
	h Volume Sampler / Dust Meter, (μ	ug/m3) ]	2.4		

In-house method in according to the instruction manual:

The Dust Monitor was compared with a calibrated High Volume Sampler and The result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Those filter papers are weighted by HOKLAS laboratory (Wellab Litimed)

Calibrated by: Wong Shing Kwai



#### File No. MA16034/05/0024

Project No.	AM1 - Tin Ha	u Temple				
Date:	9-J	un-20	Next Due Date:	9-Aug-20	Operator:	SK
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1	

Orifice Transfer Standard Information							
Serial No.	Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	17-Jan-21	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					

		Calibration of	TSP Sampler		
Calibration		Orfice		HVS	
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)] <sup>1/</sup> Y-axis
1	12.8	3.55	60.36	8.6	2.91
2	9.4	3.04	51.79	6.3	2.49
3	7.5	2.71	46.31	4.8	2.17
4	4.8	2.17	37.14	3.1	1.75
5	2.5	1.57	26.93	1.8	1.33
Correlation	coefficient* =	0.9983	_		
	Coefficient < 0.99	0, check and recalibrate.			
	Coefficient < 0.99	0, check and recalibrate. Set Point C	alculation		
If Correlation			alculation		
Tf Correlation	ield Calibration C	Set Point C	alculation		
*If Correlation	ield Calibration C	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to		98/Ta)] <sup>1/2</sup>	
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Surve, take Qstd = 43 CFM	x (Pa/760) x (29		
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
*If Correlation From the TSP F From the Regre	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
If Correlation From the TSP Form the Regree Therefore, S	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		
From the TSP F From the Regre Therefore, S	ield Calibration C ssion Equation, th	Set Point C Curve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW y	x (Pa/760) x (29		Date: 9 June 2020



#### File No. MA16034/08/0024

Project No.	AM2 - Sai Tso	Wan Recreation					
Date:	9-J	un-20	Next Due Date:	9-Aug-2	20 Operator:	SK	
Equipment No.:	A-	01-08	Model No.:	GS231	0 Serial No.	1287	
	Ambient Condition						
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1		

Orifice Transfer Standard Information								
Serial No.	Serial No.         3746         Slope, mc         0.0592         Intercept, bc         -0.02740							
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$						
Next Calibration Date:	17-Jan-21	21 $Qstd = \{ [\Delta H \ x \ (Pa/760) \ x \ (298/Ta) ]^{1/2} - bc \} / mc$						

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$\frac{\left[\Delta W \ge (Pa/760) \le (298/Ta)\right]^{1}}{\mathbf{Y}\text{-}\mathbf{axis}}$
1	12.8	3.55	60.36	8.4	2.87
2	9.8	3.10	52.87	6.1	2.45
3	7.8	2.77	47.22	4.8	2.17
4	4.8	2.17	37.14	3.0	1.72
5	2.6	1.60	27.46	1.9	1.37
	0.0456 coefficient* = Coefficient < 0.99	0.9964 0, check and recalibrate.	Intercept, bw = -	0.063	1
		Set Point C	alculation		
man the TCD D		117Ve 14ke USIO – 45 U FIVI			
From the TSP F		-			
from the Regre	ssion Equation, th	e "Y" value according to <b>mw x Qstd + bw = [<math>\Delta W</math> x</b> w x Qstd + bw ) <sup>2</sup> x (760 / Pa) x (			
rom the Regre: Therefore, S	ssion Equation, th	e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{y}]$			
rom the Regre	ssion Equation, th	e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{y}]$			Date: 9 June 2020

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#### File No. MA16034/03/0024

Project No.	AM3 - Yau Lai Estate, Bik Lai House					
Date:	9-J	Jun-20	Next Due Date:	9-Aug	g-20 Operator:	SK
Equipment No.:	A-	01-03	Model No.:	GS23	S10 Serial No.	10379
			Ambient Condit	ion		
Temperatu	re, Ta (K)	303	Pressure, Pa (mml	Hg)	759.1	

Orifice Transfer Standard Information					
Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740					
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	17-Jan-21	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc			

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H \text{ (orifice)},$ in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	12.8	3.55	60.36	8.5	2.89
2	9.3	3.02	51.52	6.5	2.53
3	7.8	2.77	47.22	5.1	2.24
4	5.2	2.26	38.64	3.4	1.83
5	2.6	1.60	27.46	2.0	1.40
3v Linear Regi	ression of Y on X	<u>C</u>			
Slope, mw =	0.0462		Intercept, bw =	0.095	3
Correlation	coefficient* =	0.9969			
If Correlation (	Coefficient < 0.99	00, check and recalibrate.			
		0 · P · · 0			
From the TOD E	iald Calibratian (	Set Point C Curve, take Qstd = 43 CFM	alculation		
		e "Y" value according to			
Tom the Regres	ssion Equation, in	le i value accoluing to			
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W}\mathbf{x}]$	x (Pa/760) x (29	$(8/Ta)]^{1/2}$	
	/	w x Qstd + bw) <sup>2</sup> x ( $760 / Pa$ ) x (	$T_{-}$ (200) –	4.41	
Thoroforo S	at Doint: $W = (m)$				
Therefore, Se	et Point; W = ( m	$W \times Qstd + bW ) \times (7007 Pa) \times ($	1a / 298 =	4.41	
Therefore, Se	et Point; W = ( m	w x Qstd + bw ) x (7007 Pa) x (	Ta / 298 ) =	4.41	
	et Point; W = ( m	$\mathbf{w} \mathbf{x} \mathbf{Q} \mathbf{s} \mathbf{t} \mathbf{d} + \mathbf{b} \mathbf{w} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{z} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} \mathbf{x} x$	1a/298)=	4.41	
	et Point; W = ( m	w x Qstd + bw ) x ( 7007 Pa) x (	1a / 298 ) =	4.41	
	et Point; W = ( m	w x Qstd + bw ) x ( 7007 Pa) x (	1a / 298 ) =	4.41	
Remarks:				4.41	Date: 9 June 2020
Remarks: Conducted by:				4.41	Date: 9 June 2020

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#### File No. MA16034/54/0024

Project No.	AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office					
Date:	9-J	un-20	Next Due Date:	9-Aug-20	Operator:	SK
Equipment No.:	A-	01-54	Model No.:	TE-5170	Serial No.	1536
	Ambient Condition					
Temperatu	ure, Ta (K) 303 Pressure, Pa (mmHg)			759.1		

Orifice Transfer Standard Information						
Serial No. 3746 Slope, mc 0.0592 Intercept, bc -0.02740						
Last Calibration Date:	17-Jan-20	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	17-Jan-21	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc				

		Calibration of	TSP Sampler		
Calibration		Orfice			HVS
Point	$\Delta H$ (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	$\Delta W$ (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$
1	12.9	3.56	60.59	8.5	2.89
2	9.8	3.10	52.87	6.3	2.49
3	7.5	2.71	46.31	5.0	2.22
4	5.2	2.26	38.64	3.2	1.77
5	2.9	1.69	28.97	1.9	1.37
Correlation	coefficient* =	0.9988	-	-0.059	
If Correlation	Coefficient < 0.99	0, check and recalibrate.			
		Set Point C	alculation		
From the TSP F	ield Calibration C	Set Point C Surve, take Qstd = 43 CFM	alculation		
From the TSP F	ield Calibration C	Set Point C	alculation		
From the TSP F	ield Calibration C	Set Point C Surve, take Qstd = 43 CFM		98/Ta)] <sup>1/2</sup>	
From the TSP F From the Regree	ield Calibration C ssion Equation, th	Set Point C Furve, take Qstd = 43 CFM e "Y" value according to	x (Pa/760) x (29		
From the TSP F From the Regree Therefore, Se	ield Calibration C ssion Equation, th	Set Point C furve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW x	x (Pa/760) x (29		
From the TSP F	ield Calibration C ssion Equation, th	Set Point C furve, take Qstd = 43 CFM e "Y" value according to mw x Qstd + bw = [ΔW x	x (Pa/760) x (29		Date: 9 June 2020



0022999

			the second se
Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 :SVAN957 SLMSerial No. /Ref. No. :23851 / N-08-12Object 2 :MicrophoneSerial No. /Ref. No. :43676	
Customer Code : SVEC09005		Manufacturer : Svantek	
Date of calibration: Date of the recommended re-calibration:	19/12/2019 19/12/2020	Certificate No.:         0022999           Handle by:         E0002	

#### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object	
Г	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1	
	114.0dB	114.0dB	0.0dB	+/- 1.5dB	1	

#### Measuring equipment

index	dex Calibrator / Master Tracea	
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.	
Performed by	Approved by
Calibration Technician	Quality Manager

Equipment no.: N-12-02



## **Calibration Certificate**

0022522

Customer		Object 1 : BSWA 308 SLM
Cinotech Consultants Limited		Serial No. /Ref. No. : 570187 / 550841
RM 1710, Technology Park,		Object 2 :
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.
Hong Kong		
Customer Code : SVEC09005		Manufacturer : BSWAtech
Date of calibration:	23/09/2019	Certificate No.: 0022522
Date of the recommended re-calibration:	23/09/2020	Handle by: E0002

#### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	94.0dB	0.0dB	+/- 1.5dB	1
	114.0dB	113.9dB	-0.1dB	+/- 1.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

E The collingations contificate as

Measured value(s) within the allowable deviation.		
Performed by	Approved by	
Calibration Technician	Quality Manager	



**ATTN:** 

WELLAB LIMITED Rms 1214, 1502, 1516, 1701 & 1716, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

1 of 1

#### **TEST REPORT**

#### **APPLICANT: Cinotech Consultants Limited** Test Report No.: 32151 Date of Issue: Room 1710, Technology Park, 2019-09-27 2019-09-26 Date Received: 18 On Lai Street, Shatin, NT, Hong Kong Date Tested: 2019-09-26 Date Completed: 2019-09-27 Next Due Date: 2020-09-26

Mr. Henry Leung

#### **Certificate of Calibration**

#### Item for calibration:

Description Manufacturer Model No. Serial No. Microphone No. Equipment No.

#### **Test conditions:**

Room Temperatre Relative Humidity : 'SVANTEK' Integrating Sound Level Meter : SVANTEK : SVAN 957 : 21455 : 43730 : N-08-07

: 17-22 degree Celsius : 40-70%

Page:

#### **Test Specifications:**

Performance checking at 94 and 114 dB

#### **Methodology:**

In-house method, according to manufacturer instruction manual

#### **Results:**

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY: For and On Behalf of **WELLAB Ltd.** 

PATRICK TSE Laboratory Manager



0023002

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong	Object 1 :SV30A sound calibratorSerial No. /Ref. No. :10965 / N-09-02Object 2 :Serial No. /Ref. No. :
Customer Code : SVEC09005	Manufacturer : Svantek
Date of calibration:19/12/2019Date of the recommended re-calibration:19/12/2020	Certificate No.:         0023002           Handle by:         E0002

#### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.9dB	-0.1dB	+/- 0.3dB	1
Γ	114.0dB	114.2dB	+0.2dB	+/- 0.3dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

#### **Uncertainty**

+/- 0.2 dB for probability not less than 95%.

#### **Conformity**

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

leasured value(s) within the allowable deviation.	
Performed by	Approved by
Any	No col
Calibration Technician	Quality Manager



0022673

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 : Serial No. /Ref. No. : Object 2 : Serial No. /Ref. No. :	ST-120 sound calibrator 181001608
Customer Code : SVEC09005		Manufacturer : Sou	ndtek
Date of calibration: Date of the recommended re-calibration:	24/10/2019 24/10/2020	Certificate No.: Handle by:	0022673 E0002

#### **Measuring results**

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	94.0dB	0.0dB	+/- 0.3dB	1
Г	114.0dB	114.1dB	$\pm 0.1$ dB	+/- 0.5dB	1

#### Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949, sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be reproduced.

Measured value(s)	within	the allowable deviation.
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Performed by

Calibration Technician

Approved by

**Quality Manager** 



0022676

Customer :		Object 1 : ST-120	sound calibrator
Cinotech Consultants Limited		Serial No. /Ref. No. : 181001	636
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : Soundtek	
Date of calibration:	24/10/2019	Certificate No.: 002267	6
Date of the recommended re-calibration:	24/10/2020	Handle by: E0002	

#### Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
Γ	114.0dB	113.7dB	-0.3dB	+/- 0.5dB	1

#### **Measuring equipment**

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

#### **Ambient conditions**

Temperature (20...26)°C

Humidity (20...60)%RH

#### Measuring procedure

Calibrated by Type 1 Sound Level Meter and 1kHz Sound Source .

#### Uncertainty

+/- 0.2 dB for probability not less than 95%.

#### Conformity

1. The resulted values were those obtained at the time of test and applies only to the item calibrated.

2.The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains

the uncertainty of the measuring procedure and the uncertainty of the measuring system.

3.The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.

5. The calibrations certificate may not be		
Measured value(s) within	the allowable deviation.	
Performed by		Approved by
Calibration Technician		Quality Manager



#### MSA Hong Kong Ltd.

25/F Jupiter Tower, 9 Jupiter Street, Hong Kong Tel 852-22587588 Fax 25478780 Email info.hk@msasafety.com Website www.msasafety.com

Date: 22-May-20

## Ref.2020/05/008CustomerLeighton China State Joint Venture

#### CERTIFICATE FOR CALIBRATION CHECK TEST

Model	Serial No.	Calibration Check Gas	Regulator	Full Scale	Response
		1.45% Methane,	4	100% LEL	29%LEL
	152097	15% Oxygen		30% Vol	15% O2
Altair 5X		60ppm Carbon Monoxide	.25litre/min	1999 ppm	60ppm CO
Altair 3A		20ppm Hydrogen Sulfide	1	200 ppm	20ppm H2S
		2.5% Carbon Dioxide	-1	10% Vol	2.5% CO2
	3	25ppm Ammonia	Demand	100 ppm	25ppm NH3

#### Remarks: Regular inspection completed. Calibration passed

MSA Hong Kong Ltd. certify that instrument/s listed above has/have been calibrated check tested on: 22-May-20

This instrument was calibrated in accordance with all requirements of the specifications of MSA.

This instrument must be calibration checked prior to use in accordance with the instruction manual.

This instrument was calibrated using NIST traceable equipment and was in accordance with all requirements of the drawings and specifications of MSA.

For and on behalf of MSA Hong Kong Ltd.

Authorised Signature



RECALIBRATION DUE DATE:

January 17, 2021

n m e n t a l Dertificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 17	January 17, 2020 Rootsmeter S/N: 438320			Ta:	295	°К	
Operator:	Jim Tisch					Pa:	744.2	mm Hg
Calibration	Model #:	TE-5025A	Cali	brator S/N:	3746			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4340	3.2	2.00	
	2	3	4	1	1.0180	6.4	4.00	
	3	5	6	1	0.9080	7.9	5.00	
	4	7	8	1	0.8700	8.7	5.50	
	5	9	10	1	0.7150	12.6	8.00	
			[	Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$	)( <u>Tstd</u> )		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax		Va	(x-axis)	(y-axis)	
	0.9849	0.6868	1.40		0.9957	0.6944	0.8904	
	0.9807	0.9633	1.98		0.9914	0.9739	1.2592	
	0.9787	1.0779	2.22		0.9894	1.0896	1.4078	
	0.9776	1.1237 1.3601	2.33		0.9883	1.1360	1.4765	
	0.3724	1.3001 m=	2.813		0.9831	1.3749 <b>m=</b>	1.7808 <b>1.31010</b>	
	QSTD	b=	-0.027		QA	b=	-0.01759	
	QJID	r=	0.999		QA	r=	0.99994	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP)	/Pstd)(Tstd/Ta	a)	Va=	ΔVol((Pa-ΔF	P)/Pa)	
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time		
			For subsequ	ent flow ra	te calculation	e calculations:		
	Qstd=	$1/m\left(\sqrt{\Delta H}\right)$	Pa Pstd / Tstd Ta	) -b)	Qa=	$1/m \left( \sqrt{\Delta H} \right)$	(Та/Ра))-b)	
		Conditions						
Tstd:	298.15	°K		[		RECAI	IBRATION	
Tstd: Pstd:	298.15 760	°K mm Hg			US FPA reco			n ner 1000
Pstd:	298.15 760	°K mm Hg <b>Key</b>	n H2Q)			ommends ar	nual recalibratio	
Pstd: \H: calibrate	298.15 760 kor manomet	°K mm Hg K <b>ey</b> Ser reading (in			40 Code	ommends ar of Federal R	nual recalibratio	50 to 51,
Pstd: \H: calibrate \P: rootsme	298.15 760 or manomet ter manomet	°K mm Hg <b>Key</b>			40 Code Appendix E	ommends ar of Federal R 3 to Part 50,	nual recalibratio egulations Part 5 Reference Meth	50 to 51, od for the
Pstd:	298.15 760 r manomet eter manome psolute tem	°K mm Hg K <b>ey</b> ter reading (in ter reading)	(mm Hg)		40 Code Appendix E Determinat	ommends ar of Federal R 3 to Part 50, ion of Suspe	nual recalibratio	50 to 51, od for the Matter in

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

<u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

### **Cerificate of Calibration - Wind Monitoring Station**

Yau Lai Estate, Bik Lai House
Davis Instruments
Davis7440
<u>MC01010A44</u>
<u>SA-03-04</u>
<u>21-Feb-2020</u>
<u>21-Aug-2020</u>

#### 1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V1)	D = V1 - V2
0.0	0.0	0.0
1.2	1.3	-0.1
2.0	2.1	-0.1
3.0	3.2	-0.2

#### 2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (V1)	Marine Compass Value (V1)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

**Test Specification:** 

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

2. Performance Wind Direction Test - The wind meter was on-site calibrated against the marine compass at four direction

Calibrated by: Kwai Approved by: Henry Leung

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature (°C) <sup>1</sup>	Mean Relative Humidity	Precipitation (mm) <sup>3</sup>
		(%) <sup>2</sup>	
1-Jul-20	30.2	78	1.1
2-Jul-20	30.2	79	9.3
3-Jul-20	29.2	84	29.5
4-Jul-20	29.8	80	8.3
5-Jul-20	30.0	77	1.3
6-Jul-20	30.1	76	4.1
7-Jul-20	30.1	77	0.7
8-Jul-20	30.0	79	0.6
9-Jul-20	30.1	79	Trace
10-Jul-20	30.3	75	0.0
11-Jul-20	30.4	76	0.0
12-Jul-20	30.4	75	0.0
13-Jul-20	30.5	74	0.0
14-Jul-20	30.6	75	0.0
15-Jul-20	30.5	74	0.0
16-Jul-20	30.4	76	2.4
17-Jul-20	30.3	75	2.5
18-Jul-20	30.4	75	2.2
19-Jul-20	30.3	75	0.0
20-Jul-20	29.9	77	3.1
21-Jul-20	30.4	76	0.0
22-Jul-20	30.0	79	2.5
23-Jul-20	31.0	73	Trace
24-Jul-20	30.8	74	0.0
25-Jul-20	30.7	75	0.0
26-Jul-20	30.8	74	Trace
27-Jul-20	30.5	75	2.3
28-Jul-20	30.8	73	3.0
29-Jul-20	30.5	77	2.6
30-Jul-20	30.2	75	13.3
31-Jul-20	27.9	84	36.6

### Appendix C - Weather Conditions During Impact Monitoring Period

### (Reporting Month: July 2020) Remarks:

Source - Hong Kong Observatory

<sup>1-3</sup>Retrieved from Manned Weather Station (Hong Kong Observatory) (22°18'07" N, 114°10'27" E)

July 2020						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
1 Jul 2020	1:00 AM	0				
1 Jul 2020	2:00 AM	0	SSW			
1 Jul 2020	3:00 AM	0	SSW			
1 Jul 2020	4:00 AM	0	S			
1 Jul 2020	5:00 AM	0	WSW			
1 Jul 2020	6:00 AM	0.4	SW			
1 Jul 2020	7:00 AM	0.9	S			
1 Jul 2020	8:00 AM	0.4	SSW			
1 Jul 2020	9:00 AM	1.3	SW			
1 Jul 2020	10:00 AM	0.9	WSW			
1 Jul 2020	11:00 AM	0.9	SW			
1 Jul 2020	12:00 PM	0.9	SSW			
1 Jul 2020	1:00 PM	0.9	SSW			
1 Jul 2020	2:00 PM	0.4	WSW			
1 Jul 2020	3:00 PM	0.4	WSW			
1 Jul 2020	4:00 PM	0.4	WSW			
1 Jul 2020	5:00 PM	0.4	SW			
1 Jul 2020	6:00 PM	0.4	ESE			
1 Jul 2020	7:00 PM	0.4	SSW			
1 Jul 2020	8:00 PM	0.4	S			
1 Jul 2020	9:00 PM	0.4	SW			
1 Jul 2020	10:00 PM	0.9	SW			
1 Jul 2020	11:00 PM	0.4	SSW			
2 Jul 2020	12:00 AM	0.4	SSE			
2 Jul 2020	1:00 AM	0.4	Е			
2 Jul 2020	2:00 AM	0.9	Е			
2 Jul 2020	3:00 AM	0.4	E			
2 Jul 2020	4:00 AM	0.4	E			
2 Jul 2020	5:00 AM	0.9	ESE			
2 Jul 2020	6:00 AM	0.9	E			
2 Jul 2020	7:00 AM	0.4	ESE			
2 Jul 2020	8:00 AM	0.9	ESE			
2 Jul 2020	9:00 AM	0.9	E			
2 Jul 2020	10:00 AM	0.9	ESE			
2 Jul 2020	11:00 AM	0.9	E			
2 Jul 2020	12:00 PM	0.9	SE			
2 Jul 2020	1:00 PM	0.9	SE			
2 Jul 2020	2:00 PM	0.9	ESE			
2 Jul 2020	3:00 PM	0.4	SE			
2 Jul 2020	4:00 PM	0	ESE			
2 Jul 2020	5:00 PM	0	SW			
2 Jul 2020	6:00 PM	0	SW			
2 Jul 2020	7:00 PM	0.4	SE			

July 2020					
Wind Speed and Directions					
Date	Time	Wind Speed m-s	Direction		
2 Jul 2020	8:00 PM	0.4	E		
2 Jul 2020	9:00 PM	0.4	Е		
2 Jul 2020	10:00 PM	0.4	Е		
2 Jul 2020	11:00 PM	0.4	ESE		
3 Jul 2020	12:00 AM	0.4	ESE		
3 Jul 2020	1:00 AM	0.4	ESE		
3 Jul 2020	2:00 AM	0	ESE		
3 Jul 2020	3:00 AM	0.4	S		
3 Jul 2020	4:00 AM	0.4	SSW		
3 Jul 2020	5:00 AM	0.4	SW		
3 Jul 2020	6:00 AM	0.4	E		
3 Jul 2020	7:00 AM	1.3	SE		
3 Jul 2020	8:00 AM	0.9	SE		
3 Jul 2020	9:00 AM	1.3	ESE		
3 Jul 2020	10:00 AM	1.8	Е		
3 Jul 2020	11:00 AM	1.8	ESE		
3 Jul 2020	12:00 PM	1.8	Е		
3 Jul 2020	1:00 PM	0.9	SW		
3 Jul 2020	2:00 PM	0.4	ESE		
3 Jul 2020	3:00 PM	0	S		
3 Jul 2020	4:00 PM	0.4	SSE		
3 Jul 2020	5:00 PM	0.4	S		
3 Jul 2020	6:00 PM	0	S		
3 Jul 2020	7:00 PM	0	SSE		
3 Jul 2020	8:00 PM	0			
3 Jul 2020	9:00 PM	0	S		
3 Jul 2020	10:00 PM	0	SE		
3 Jul 2020	11:00 PM	0	SSW		
4 Jul 2020	12:00 AM	0	SE		
4 Jul 2020	1:00 AM	0	SE		
4 Jul 2020	2:00 AM	0	SE		
4 Jul 2020	3:00 AM	0.4	ESE		
4 Jul 2020	4:00 AM	0.4	ESE		
4 Jul 2020	5:00 AM	0.4	Е		
4 Jul 2020	6:00 AM	0.9	ESE		
4 Jul 2020	7:00 AM	0.4	ESE		
4 Jul 2020	8:00 AM	1.3	ESE		
4 Jul 2020	9:00 AM	1.3	ESE		
4 Jul 2020	10:00 AM	0.4	ESE		
4 Jul 2020	11:00 AM	1.3	ESE		
4 Jul 2020	12:00 PM	0.9	Е		
4 Jul 2020	1:00 PM	1.3	SE		
4 Jul 2020	2:00 PM	0.9	ESE		

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
4 Jul 2020	3:00 PM	0.9	SE	
4 Jul 2020	4:00 PM	0.4	ESE	
4 Jul 2020	5:00 PM	0.9	SE	
4 Jul 2020	6:00 PM	0.4	SE	
4 Jul 2020	7:00 PM	0.4	ESE	
4 Jul 2020	8:00 PM	0.9	SE	
4 Jul 2020	9:00 PM	0.9	SE	
4 Jul 2020	10:00 PM	0.9	SE	
4 Jul 2020	11:00 PM	0.4	ESE	
5 Jul 2020	12:00 AM	0.4	SE	
5 Jul 2020	1:00 AM	0.4	ESE	
5 Jul 2020	2:00 AM	0.4	ESE	
5 Jul 2020	3:00 AM	0.4	SE	
5 Jul 2020	4:00 AM	0.9	SE	
5 Jul 2020	5:00 AM	0.9	SE	
5 Jul 2020	6:00 AM	1.8	ESE	
5 Jul 2020	7:00 AM	1.8	SW	
5 Jul 2020	8:00 AM	1.8	SW	
5 Jul 2020	9:00 AM	1.8	ESE	
5 Jul 2020	10:00 AM	1.8	SSW	
5 Jul 2020	11:00 AM	2.2	SSW	
5 Jul 2020	12:00 PM	1.8	ESE	
5 Jul 2020	1:00 PM	1.8	ESE	
5 Jul 2020	2:00 PM	1.8	ESE	
5 Jul 2020	3:00 PM	1.8	SW	
5 Jul 2020	4:00 PM	1.3	SE	
5 Jul 2020	5:00 PM	0.9	ESE	
5 Jul 2020	6:00 PM	0.9	SE	
5 Jul 2020	7:00 PM	1.3	ESE	
5 Jul 2020	8:00 PM	1.3	ESE	
5 Jul 2020	9:00 PM	0.9	ESE	
5 Jul 2020	10:00 PM	1.8	SE	
5 Jul 2020	11:00 PM	1.3	ESE	
6 Jul 2020	12:00 AM	1.3	SSW	
6 Jul 2020	1:00 AM	0.9	ESE	
6 Jul 2020	2:00 AM	0.9	SSW	
6 Jul 2020	3:00 AM	0.9	SW	
6 Jul 2020	4:00 AM	1.8	SSW	
6 Jul 2020	5:00 AM	1.8	SSW	
6 Jul 2020	6:00 AM	1.8	SSW	
6 Jul 2020	7:00 AM	1.8	SW	
6 Jul 2020	8:00 AM	1.3	SW	
6 Jul 2020	9:00 AM	2.2	ESE	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
6 Jul 2020	10:00 AM	2.7	ESE	
6 Jul 2020	11:00 AM	2.2	SSW	
6 Jul 2020	12:00 PM	1.8	SW	
6 Jul 2020	1:00 PM	1.8	ESE	
6 Jul 2020	2:00 PM	2.2	ESE	
6 Jul 2020	3:00 PM	1.8	ESE	
6 Jul 2020	4:00 PM	1.8	ESE	
6 Jul 2020	5:00 PM	1.8	SE	
6 Jul 2020	6:00 PM	1.3	ESE	
6 Jul 2020	7:00 PM	1.3	SE	
6 Jul 2020	8:00 PM	1.3	ESE	
6 Jul 2020	9:00 PM	1.8	ESE	
6 Jul 2020	10:00 PM	1.3	ESE	
6 Jul 2020	11:00 PM	1.3	SW	
7 Jul 2020	12:00 AM	1.3	ESE	
7 Jul 2020	1:00 AM	1.3	SSW	
7 Jul 2020	2:00 AM	1.3	SSW	
7 Jul 2020	3:00 AM	1.3	SSW	
7 Jul 2020	4:00 AM	1.3	SSW	
7 Jul 2020	5:00 AM	1.3	SSW	
7 Jul 2020	6:00 AM	1.8	ESE	
7 Jul 2020	7:00 AM	2.2	SSW	
7 Jul 2020	8:00 AM	2.2	ESE	
7 Jul 2020	9:00 AM	2.7	ESE	
7 Jul 2020	10:00 AM	2.7	SSW	
7 Jul 2020	11:00 AM	2.2	ESE	
7 Jul 2020	12:00 PM	2.2	ESE	
7 Jul 2020	1:00 PM	1.8	ESE	
7 Jul 2020	2:00 PM	1.8	SSW	
7 Jul 2020	3:00 PM	1.3	ESE	
7 Jul 2020	4:00 PM	1.3	SSW	
7 Jul 2020	5:00 PM	1.8	SSW	
7 Jul 2020	6:00 PM	1.3	SSW	
7 Jul 2020	7:00 PM	1.8	SSW	
7 Jul 2020	8:00 PM	1.3	ESE	
7 Jul 2020	9:00 PM	1.8	SSW	
7 Jul 2020	10:00 PM	1.8	SSW	
7 Jul 2020	11:00 PM	1.8	SW	
8 Jul 2020	12:00 AM	1.3	SW	
8 Jul 2020	1:00 AM	1.8	SSW	
8 Jul 2020	2:00 AM	2.2	S	
8 Jul 2020	3:00 AM	2.2	SSW	
8 Jul 2020	4:00 AM	2.2	SW	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
8 Jul 2020	5:00 AM	3.1	SW	
8 Jul 2020	6:00 AM	3.1	SSW	
8 Jul 2020	7:00 AM	2.7	SSW	
8 Jul 2020	8:00 AM	2.7	SW	
8 Jul 2020	9:00 AM	3.1	SSW	
8 Jul 2020	10:00 AM	3.1	SSW	
8 Jul 2020	11:00 AM	3.6	SSW	
8 Jul 2020	12:00 PM	3.6	SSW	
8 Jul 2020	1:00 PM	3.6	SSW	
8 Jul 2020	2:00 PM	3.1	SSW	
8 Jul 2020	3:00 PM	3.1	SSW	
8 Jul 2020	4:00 PM	3.1	SSW	
8 Jul 2020	5:00 PM	2.7	SW	
8 Jul 2020	6:00 PM	2.7	SW	
8 Jul 2020	7:00 PM	2.7	SSW	
8 Jul 2020	8:00 PM	2.2	SSW	
8 Jul 2020	9:00 PM	2.7	SW	
8 Jul 2020	10:00 PM	2.2	SSW	
8 Jul 2020	11:00 PM	2.7	SW	
9 Jul 2020	12:00 AM	2.2	SW	
9 Jul 2020	1:00 AM	3.1	SW	
9 Jul 2020	2:00 AM	2.7	SSW	
9 Jul 2020	3:00 AM	3.1	SW	
9 Jul 2020	4:00 AM	2.2	SSW	
9 Jul 2020	5:00 AM	3.1	SSW	
9 Jul 2020	6:00 AM	3.6	SSW	
9 Jul 2020	7:00 AM	4	SW	
9 Jul 2020	8:00 AM	3.6	SSW	
9 Jul 2020	9:00 AM	3.6	SSW	
9 Jul 2020	10:00 AM	3.6	SSW	
9 Jul 2020	11:00 AM	3.1	SW	
9 Jul 2020	12:00 PM	3.6	SSW	
9 Jul 2020	1:00 PM	2.7	ESE	
9 Jul 2020	2:00 PM	2.2	ESE	
9 Jul 2020	3:00 PM	3.1	ESE	
9 Jul 2020	4:00 PM	2.7	SE	
9 Jul 2020	5:00 PM	2.7	ESE	
9 Jul 2020	6:00 PM	2.7	SE	
9 Jul 2020	7:00 PM	2.2	ESE	
9 Jul 2020	8:00 PM	2.7	ESE	
9 Jul 2020	9:00 PM	2.2	S	
9 Jul 2020	10:00 PM	2.2	SW	
9 Jul 2020	11:00 PM	2.2	SW	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
10 Jul 2020	12:00 AM	1.8	SW	
10 Jul 2020	1:00 AM	2.2	ESE	
10 Jul 2020	2:00 AM	2.2	ESE	
10 Jul 2020	3:00 AM	2.2	ESE	
10 Jul 2020	4:00 AM	2.2	ESE	
10 Jul 2020	5:00 AM	2.7	ESE	
10 Jul 2020	6:00 AM	2.7	ESE	
10 Jul 2020	7:00 AM	2.7	ESE	
10 Jul 2020	8:00 AM	3.1	ESE	
10 Jul 2020	9:00 AM	3.6	ESE	
10 Jul 2020	10:00 AM	3.1	SE	
10 Jul 2020	11:00 AM	3.1	SE	
10 Jul 2020	12:00 PM	2.7	SE	
10 Jul 2020	1:00 PM	2.7	ESE	
10 Jul 2020	2:00 PM	2.2	ESE	
10 Jul 2020	3:00 PM	1.8	ESE	
10 Jul 2020	4:00 PM	1.8	ESE	
10 Jul 2020	5:00 PM	1.8	ESE	
10 Jul 2020	6:00 PM	1.8	ESE	
10 Jul 2020	7:00 PM	0.9	Е	
10 Jul 2020	8:00 PM	1.3	ESE	
10 Jul 2020	9:00 PM	1.8	ESE	
10 Jul 2020	10:00 PM	1.8	ESE	
10 Jul 2020	11:00 PM	2.2	ESE	
11 Jul 2020	12:00 AM	2.2	ESE	
11 Jul 2020	1:00 AM	2.2	Е	
11 Jul 2020	2:00 AM	1.8	Е	
11 Jul 2020	3:00 AM	2.2	ESE	
11 Jul 2020	4:00 AM	2.7	ESE	
11 Jul 2020	5:00 AM	2.7	ESE	
11 Jul 2020	6:00 AM	1.8	Е	
11 Jul 2020	7:00 AM	3.6	ESE	
11 Jul 2020	8:00 AM	2.7	ESE	
11 Jul 2020	9:00 AM	2.7	ESE	
11 Jul 2020	10:00 AM	2.7	ESE	
11 Jul 2020	11:00 AM	2.7	Е	
11 Jul 2020	12:00 PM	2.2	ESE	
11 Jul 2020	1:00 PM	1.8	SE	
11 Jul 2020	2:00 PM	1.3	SE	
11 Jul 2020	3:00 PM	1.3	ESE	
11 Jul 2020	4:00 PM	1.3	Е	
11 Jul 2020	5:00 PM	1.3	ESE	
11 Jul 2020	6:00 PM	0.9	ESE	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
11 Jul 2020	7:00 PM	0.4	S	
11 Jul 2020	8:00 PM	0.9	SE	
11 Jul 2020	9:00 PM	1.3	ESE	
11 Jul 2020	10:00 PM	1.3	SE	
11 Jul 2020	11:00 PM	0.9	ESE	
12 Jul 2020	12:00 AM	0.9	ESE	
12 Jul 2020	1:00 AM	1.3	ESE	
12 Jul 2020	2:00 AM	1.3	ESE	
12 Jul 2020	3:00 AM	0.9	SSW	
12 Jul 2020	4:00 AM	0.9	SSW	
12 Jul 2020	5:00 AM	0.9	SSW	
12 Jul 2020	6:00 AM	0.9	SSW	
12 Jul 2020	7:00 AM	0.9	ESE	
12 Jul 2020	8:00 AM	1.3	SSW	
12 Jul 2020	9:00 AM	1.3	SE	
12 Jul 2020	10:00 AM	1.8	ESE	
12 Jul 2020	11:00 AM	1.3	ESE	
12 Jul 2020	12:00 PM	1.3	ESE	
12 Jul 2020	1:00 PM	0.9	Е	
12 Jul 2020	2:00 PM	0.4	SE	
12 Jul 2020	3:00 PM	0.9	ESE	
12 Jul 2020	4:00 PM	0.4	SE	
12 Jul 2020	5:00 PM	0.4	SE	
12 Jul 2020	6:00 PM	0.4	ESE	
12 Jul 2020	7:00 PM	0.9	ESE	
12 Jul 2020	8:00 PM	0.4	SE	
12 Jul 2020	9:00 PM	0.4	SE	
12 Jul 2020	10:00 PM	0.4	SSW	
12 Jul 2020	11:00 PM	0.4	SE	
13 Jul 2020	12:00 AM	0.4	SE	
13 Jul 2020	1:00 AM	0.4	SSE	
13 Jul 2020	2:00 AM	0	SSE	
13 Jul 2020	3:00 AM	0.4	SSW	
13 Jul 2020	4:00 AM	0.4	WSW	
13 Jul 2020	5:00 AM	0.4	SSW	
13 Jul 2020	6:00 AM	0.4	SW	
13 Jul 2020	7:00 AM	1.3	SW	
13 Jul 2020	8:00 AM	1.3	WSW	
13 Jul 2020	9:00 AM	1.3	SSW	
13 Jul 2020	10:00 AM	1.3	SW	
13 Jul 2020	11:00 AM	1.8	SSW	
13 Jul 2020	12:00 PM	1.8	SSW	
13 Jul 2020	1:00 PM	1.8	SW	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
13 Jul 2020	2:00 PM	1.8	SSW	
13 Jul 2020	3:00 PM	0.9	SSW	
13 Jul 2020	4:00 PM	1.3	SSW	
13 Jul 2020	5:00 PM	1.3	SSW	
13 Jul 2020	6:00 PM	1.3	SSW	
13 Jul 2020	7:00 PM	2.2	SSW	
13 Jul 2020	8:00 PM	2.2	SSW	
13 Jul 2020	9:00 PM	1.8	SSW	
13 Jul 2020	10:00 PM	2.2	SW	
13 Jul 2020	11:00 PM	2.7	WSW	
14 Jul 2020	12:00 AM	2.2	WSW	
14 Jul 2020	1:00 AM	1.8	WSW	
14 Jul 2020	2:00 AM	2.2	WSW	
14 Jul 2020	3:00 AM	1.8	WSW	
14 Jul 2020	4:00 AM	1.8	WSW	
14 Jul 2020	5:00 AM	1.8	WSW	
14 Jul 2020	6:00 AM	1.3	WSW	
14 Jul 2020	7:00 AM	1.3	WSW	
14 Jul 2020	8:00 AM	1.3	S	
14 Jul 2020	9:00 AM	1.3	WSW	
14 Jul 2020	10:00 AM	1.8	WSW	
14 Jul 2020	11:00 AM	1.8	W	
14 Jul 2020	12:00 PM	1.8	SSW	
14 Jul 2020	1:00 PM	1.8	SSW	
14 Jul 2020	2:00 PM	2.2	SSW	
14 Jul 2020	3:00 PM	2.2	SSW	
14 Jul 2020	4:00 PM	2.2	SSW	
14 Jul 2020	5:00 PM	3.1	SW	
14 Jul 2020	6:00 PM	2.2	SSW	
14 Jul 2020	7:00 PM	2.2	WSW	
14 Jul 2020	8:00 PM	2.2	SSW	
14 Jul 2020	9:00 PM	2.7	WSW	
14 Jul 2020	10:00 PM	2.7	WSW	
14 Jul 2020	11:00 PM	2.7	WSW	
15 Jul 2020	12:00 AM	2.7	WSW	
15 Jul 2020	1:00 AM	2.7	WSW	
15 Jul 2020	2:00 AM	3.6	SW	
15 Jul 2020	3:00 AM	3.6	SW	
15 Jul 2020	4:00 AM	3.6	SW	
15 Jul 2020	5:00 AM	3.6	SW	
15 Jul 2020	6:00 AM	2.7	WSW	
15 Jul 2020	7:00 AM	2.7	WSW	
15 Jul 2020	8:00 AM	1.8	WSW	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
15 Jul 2020	9:00 AM	1.8	SW	
15 Jul 2020	10:00 AM	2.2	SSW	
15 Jul 2020	11:00 AM	3.6	SSW	
15 Jul 2020	12:00 PM	4	SSW	
15 Jul 2020	1:00 PM	2.7	SSW	
15 Jul 2020	2:00 PM	2.2	SSW	
15 Jul 2020	3:00 PM	2.2	SSW	
15 Jul 2020	4:00 PM	2.7	SSW	
15 Jul 2020	5:00 PM	1.8	SW	
15 Jul 2020	6:00 PM	1.3	SW	
15 Jul 2020	7:00 PM	1.3	SSW	
15 Jul 2020	8:00 PM	1.8	SSW	
15 Jul 2020	9:00 PM	1.3	SSW	
15 Jul 2020	10:00 PM	1.8	SSW	
15 Jul 2020	11:00 PM	2.2	ESE	
16 Jul 2020	12:00 AM	2.2	ESE	
16 Jul 2020	1:00 AM	2.7	SSW	
16 Jul 2020	2:00 AM	2.7	SW	
16 Jul 2020	3:00 AM	2.2	SW	
16 Jul 2020	4:00 AM	1.8	WSW	
16 Jul 2020	5:00 AM	1.8	SW	
16 Jul 2020	6:00 AM	2.2	SSW	
16 Jul 2020	7:00 AM	2.7	SSW	
16 Jul 2020	8:00 AM	2.2	SSW	
16 Jul 2020	9:00 AM	2.2	SW	
16 Jul 2020	10:00 AM	2.7	SSW	
16 Jul 2020	11:00 AM	3.1	SW	
16 Jul 2020	12:00 PM	2.7	SSW	
16 Jul 2020	1:00 PM	2.7	SSW	
16 Jul 2020	2:00 PM	2.2	ESE	
16 Jul 2020	3:00 PM	1.8	SSW	
16 Jul 2020	4:00 PM	1.8	ESE	
16 Jul 2020	5:00 PM	2.2	ESE	
16 Jul 2020	6:00 PM	1.8	SSW	
16 Jul 2020	7:00 PM	1.3	SSW	
16 Jul 2020	8:00 PM	1.3	SW	
16 Jul 2020	9:00 PM	1.3	ESE	
16 Jul 2020	10:00 PM	0.9	SSW	
16 Jul 2020	11:00 PM	0.9	SSW	
17 Jul 2020	12:00 AM	1.3	S	
17 Jul 2020	1:00 AM	1.3	SSW	
17 Jul 2020	2:00 AM	1.3	SSW	
17 Jul 2020	3:00 AM	1.3	SSW	

July 2020			
Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction
17 Jul 2020	4:00 AM	0.9	SSW
17 Jul 2020	5:00 AM	1.8	SW
17 Jul 2020	6:00 AM	1.3	SSW
17 Jul 2020	7:00 AM	1.3	S
17 Jul 2020	8:00 AM	2.2	SW
17 Jul 2020	9:00 AM	2.7	SSW
17 Jul 2020	10:00 AM	2.7	SW
17 Jul 2020	11:00 AM	2.7	SSW
17 Jul 2020	12:00 PM	1.8	ESE
17 Jul 2020	1:00 PM	2.2	ESE
17 Jul 2020	2:00 PM	1.8	ESE
17 Jul 2020	3:00 PM	1.3	ESE
17 Jul 2020	4:00 PM	1.3	SE
17 Jul 2020	5:00 PM	0.9	Е
17 Jul 2020	6:00 PM	0.9	Е
17 Jul 2020	7:00 PM	1.3	ESE
17 Jul 2020	8:00 PM	0.9	E
17 Jul 2020	9:00 PM	1.3	E
17 Jul 2020	10:00 PM	1.8	ESE
17 Jul 2020	11:00 PM	1.8	SW
18 Jul 2020	12:00 AM	2.2	ESE
18 Jul 2020	1:00 AM	2.2	SW
18 Jul 2020	2:00 AM	1.8	SW
18 Jul 2020	3:00 AM	1.8	SSW
18 Jul 2020	4:00 AM	1.8	SW
18 Jul 2020	5:00 AM	1.8	SW
18 Jul 2020	6:00 AM	1.8	SW
18 Jul 2020	7:00 AM	2.2	SSW
18 Jul 2020	8:00 AM	1.8	SW
18 Jul 2020	9:00 AM	2.7	SW
18 Jul 2020	10:00 AM	2.2	SSW
18 Jul 2020	11:00 AM	2.2	SW
18 Jul 2020	12:00 PM	1.8	SSW
18 Jul 2020	1:00 PM	1.3	ESE
18 Jul 2020	2:00 PM	1.8	ESE
18 Jul 2020	3:00 PM	1.8	ESE
18 Jul 2020	4:00 PM	1.3	ESE
18 Jul 2020	5:00 PM	1.3	ESE
18 Jul 2020	6:00 PM	1.3	ESE
18 Jul 2020	7:00 PM	0.4	ESE
18 Jul 2020	8:00 PM	0.9	E
18 Jul 2020	9:00 PM	0.9	ESE
18 Jul 2020	10:00 PM	1.8	SSW

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
18 Jul 2020	11:00 PM	1.8	SE	
19 Jul 2020	12:00 AM	1.8	ESE	
19 Jul 2020	1:00 AM	2.2	SW	
19 Jul 2020	2:00 AM	1.8	SW	
19 Jul 2020	3:00 AM	1.8	SW	
19 Jul 2020	4:00 AM	1.8	SSW	
19 Jul 2020	5:00 AM	1.8	SSW	
19 Jul 2020	6:00 AM	2.2	SW	
19 Jul 2020	7:00 AM	1.8	SSW	
19 Jul 2020	8:00 AM	1.8	SSW	
19 Jul 2020	9:00 AM	2.2	ESE	
19 Jul 2020	10:00 AM	1.8	E	
19 Jul 2020	11:00 AM	1.8	E	
19 Jul 2020	12:00 PM	1.8	ESE	
19 Jul 2020	1:00 PM	1.8	ESE	
19 Jul 2020	2:00 PM	1.3	ESE	
19 Jul 2020	3:00 PM	1.3	ESE	
19 Jul 2020	4:00 PM	1.3	SE	
19 Jul 2020	5:00 PM	0.9	ESE	
19 Jul 2020	6:00 PM	0.9	ESE	
19 Jul 2020	7:00 PM	0.9	ESE	
19 Jul 2020	8:00 PM	0.9	SSW	
19 Jul 2020	9:00 PM	1.3	SSW	
19 Jul 2020	10:00 PM	0.9	SE	
19 Jul 2020	11:00 PM	0.9	ESE	
20 Jul 2020	12:00 AM	0.9	SE	
20 Jul 2020	1:00 AM	0.9	ESE	
20 Jul 2020	2:00 AM	0.4	S	
20 Jul 2020	3:00 AM	0	SSE	
20 Jul 2020	4:00 AM	0.4	SSE	
20 Jul 2020	5:00 AM	0.9	SSW	
20 Jul 2020	6:00 AM	0.9	SE	
20 Jul 2020	7:00 AM	1.3	SSW	
20 Jul 2020	8:00 AM	1.3	ESE	
20 Jul 2020	9:00 AM	1.3	SSW	
20 Jul 2020	10:00 AM	1.3	SSW	
20 Jul 2020	11:00 AM	0.9	ESE	
20 Jul 2020	12:00 PM	1.3	SE	
20 Jul 2020	1:00 PM	1.3	ESE	
20 Jul 2020	2:00 PM	0.9	ESE	
20 Jul 2020	3:00 PM	0.4	ESE	
20 Jul 2020	4:00 PM	0.4	SE	
20 Jul 2020	5:00 PM	0.4	SE	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
20 Jul 2020	6:00 PM	0.4	SE	
20 Jul 2020	7:00 PM	0	SSE	
20 Jul 2020	8:00 PM	0	SE	
20 Jul 2020	9:00 PM	0	S	
20 Jul 2020	10:00 PM	0	ESE	
20 Jul 2020	11:00 PM	0	SE	
21 Jul 2020	12:00 AM	0	SE	
21 Jul 2020	1:00 AM	0	SE	
21 Jul 2020	2:00 AM	0	SE	
21 Jul 2020	3:00 AM	0	SSW	
21 Jul 2020	4:00 AM	0	S	
21 Jul 2020	5:00 AM	0	S	
21 Jul 2020	6:00 AM	0.4	SSW	
21 Jul 2020	7:00 AM	0.4	SSW	
21 Jul 2020	8:00 AM	0.9	SW	
21 Jul 2020	9:00 AM	0.9	SSW	
21 Jul 2020	10:00 AM	0.9	SW	
21 Jul 2020	11:00 AM	0.9	SSW	
21 Jul 2020	12:00 PM	0.9	SW	
21 Jul 2020	1:00 PM	0.9	SSW	
21 Jul 2020	2:00 PM	0.4	SW	
21 Jul 2020	3:00 PM	0.4	S	
21 Jul 2020	4:00 PM	0	S	
21 Jul 2020	5:00 PM	0	SSW	
21 Jul 2020	6:00 PM	0	S	
21 Jul 2020	7:00 PM	0	S	
21 Jul 2020	8:00 PM	0.4	S	
21 Jul 2020	9:00 PM	0.4	S	
21 Jul 2020	10:00 PM	0.4	SW	
22 Jul 2020	11:00 PM	0.9	WSW	
22 Jul 2020	12:00 AM	0.4	ESE	
22 Jul 2020	1:00 AM	0	NE	
22 Jul 2020	2:00 AM	0	NE	
22 Jul 2020	3:00 AM	0	ENE	
22 Jul 2020	4:00 AM	0.4	NE	
22 Jul 2020	5:00 AM	0.4	ENE	
22 Jul 2020	6:00 AM	0.4	ENE	
22 Jul 2020	7:00 AM	0.4	NE	
22 Jul 2020	8:00 AM	0.4	ENE	
22 Jul 2020	9:00 AM	0.9	E	
22 Jul 2020	10:00 AM	0.9	WSW	
22 Jul 2020	11:00 AM	1.3	E	
22 Jul 2020	12:00 PM	1.3	E	
	12.001101	1.5		

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
22 Jul 2020	1:00 PM	0.9	E	
22 Jul 2020	2:00 PM	0.9	E	
22 Jul 2020	3:00 PM	0.9	NNE	
22 Jul 2020	4:00 PM	0.4	S	
22 Jul 2020	5:00 PM	0.4	WSW	
22 Jul 2020	6:00 PM	0.4	SW	
22 Jul 2020	7:00 PM	0.4	WSW	
22 Jul 2020	8:00 PM	0.4	SSW	
22 Jul 2020	9:00 PM	0.4	S	
22 Jul 2020	10:00 PM	0.4	SSW	
22 Jul 2020	11:00 PM	0.4	S	
23 Jul 2020	12:00 AM	0	SE	
23 Jul 2020	1:00 AM	0.4	SE	
23 Jul 2020	2:00 AM	0	SE	
23 Jul 2020	3:00 AM	0	S	
23 Jul 2020	4:00 AM	0	S	
23 Jul 2020	5:00 AM	0.4	SSW	
23 Jul 2020	6:00 AM	0.4	SSW	
23 Jul 2020	7:00 AM	0.4	SSE	
23 Jul 2020	8:00 AM	0.9	E	
23 Jul 2020	9:00 AM	0.9	Е	
23 Jul 2020	10:00 AM	1.3	E	
23 Jul 2020	11:00 AM	1.3	Е	
23 Jul 2020	12:00 PM	1.3	Е	
23 Jul 2020	1:00 PM	0.9	Е	
23 Jul 2020	2:00 PM	0.9	S	
23 Jul 2020	3:00 PM	0.4	S	
23 Jul 2020	4:00 PM	0.4	SSW	
23 Jul 2020	5:00 PM	0.4	SSE	
23 Jul 2020	6:00 PM	0.4	ESE	
23 Jul 2020	7:00 PM	0.9	SSW	
23 Jul 2020	8:00 PM	1.3	SSW	
23 Jul 2020	9:00 PM	1.3	SSW	
23 Jul 2020	10:00 PM	0.4	SSW	
23 Jul 2020	11:00 PM	0.9	SW	
24 Jul 2020	12:00 AM	0.9	WSW	
24 Jul 2020	1:00 AM	0.9	SSW	
24 Jul 2020	2:00 AM	0.4	SSW	
24 Jul 2020	3:00 AM	0.4	SW	
24 Jul 2020	4:00 AM	0.4	WSW	
24 Jul 2020	5:00 AM	0.9	SW	
24 Jul 2020	6:00 AM	0.4	SSW	
24 Jul 2020	7:00 AM	1.3	SW	
24 Jul 2020	7.00 AW	1.3	110	

July 2020				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
24 Jul 2020	8:00 AM	0.9	WSW	
24 Jul 2020	9:00 AM	0.9	WSW	
24 Jul 2020	10:00 AM	1.3	S	
24 Jul 2020	11:00 AM	1.3	S	
24 Jul 2020	12:00 PM	1.3	SSW	
24 Jul 2020	1:00 PM	1.8	SSW	
24 Jul 2020	2:00 PM	1.8	SSW	
24 Jul 2020	3:00 PM	1.3	SSW	
24 Jul 2020	4:00 PM	1.8	SSW	
24 Jul 2020	5:00 PM	1.8	SSW	
24 Jul 2020	6:00 PM	1.8	SSW	
24 Jul 2020	7:00 PM	2.7	SSW	
24 Jul 2020	8:00 PM	1.8	SSW	
24 Jul 2020	9:00 PM	1.8	SW	
24 Jul 2020	10:00 PM	2.2	WSW	
24 Jul 2020	11:00 PM	2.2	WSW	
25 Jul 2020	12:00 AM	2.2	WSW	
25 Jul 2020	1:00 AM	1.8	WSW	
25 Jul 2020	2:00 AM	1.8	WSW	
25 Jul 2020	3:00 AM	1.8	WSW	
25 Jul 2020	4:00 AM	2.2	WSW	
25 Jul 2020	5:00 AM	2.2	WSW	
25 Jul 2020	6:00 AM	1.8	WSW	
25 Jul 2020	7:00 AM	1.8	WSW	
25 Jul 2020	8:00 AM	1.3	SSW	
25 Jul 2020	9:00 AM	1.3	WSW	
25 Jul 2020	10:00 AM	1.3	SSW	
25 Jul 2020	11:00 AM	1.3	SSW	
25 Jul 2020	12:00 PM	1.3	SW	
25 Jul 2020	1:00 PM	1.8	SW	
25 Jul 2020	2:00 PM	1.8	SSW	
25 Jul 2020	3:00 PM	2.2	SSW	
25 Jul 2020	4:00 PM	1.8	SSW	
25 Jul 2020	5:00 PM	2.2	SSW	
25 Jul 2020	6:00 PM	1.8	SSW	
25 Jul 2020	7:00 PM	1.8	SSW	
25 Jul 2020	8:00 PM	1.8	SSW	
25 Jul 2020	9:00 PM	1.3	SSW	
25 Jul 2020	10:00 PM	1.8	SSW	
26 Jul 2020	11:00 PM	1.8	SSW	
26 Jul 2020	12:00 AM	1.8	SW	
26 Jul 2020	1:00 AM	1.8	SSW	
26 Jul 2020	2:00 AM	1.8	SSW	

July 2020 Wind Speed and Directions				
26 Jul 2020	3:00 AM	2.2	SSW	
26 Jul 2020	4:00 AM	2.2	SSW	
26 Jul 2020	5:00 AM	2.2	SW	
26 Jul 2020	6:00 AM	2.7	WSW	
26 Jul 2020	7:00 AM	1.8	WSW	
26 Jul 2020	8:00 AM	2.2	WSW	
26 Jul 2020	9:00 AM	2.2	WSW	
26 Jul 2020	10:00 AM	2.2	W	
26 Jul 2020	11:00 AM	1.8	SSW	
26 Jul 2020	12:00 PM	2.2	ESE	
26 Jul 2020	1:00 PM	1.8	SE	
26 Jul 2020	2:00 PM	2.2	SSW	
26 Jul 2020	3:00 PM	1.8	SSW	
26 Jul 2020	4:00 PM	1.3	SSW	
26 Jul 2020	5:00 PM	2.2	SSW	
26 Jul 2020	6:00 PM	1.3	SSW	
26 Jul 2020	7:00 PM	1.3	SSW	
26 Jul 2020	8:00 PM	1.3	SSW	
26 Jul 2020	9:00 PM	1.8	SSW	
26 Jul 2020	10:00 PM	1.3	SSW	
26 Jul 2020	11:00 PM	1.3	SSW	
27 Jul 2020	12:00 AM	1.3	SSW	
27 Jul 2020	1:00 AM	1.8	SSW	
27 Jul 2020	2:00 AM	1.3	SW	
27 Jul 2020	3:00 AM	1.3	ESE	
27 Jul 2020	4:00 AM	0.9	SSW	
27 Jul 2020	5:00 AM	1.3	SSW	
27 Jul 2020	6:00 AM	1.8	ESE	
27 Jul 2020	7:00 AM	1.8	SW	
27 Jul 2020	8:00 AM	1.8	SSW	
27 Jul 2020	9:00 AM	1.8	ESE	
27 Jul 2020	10:00 AM	1.8	SSW	
27 Jul 2020	11:00 AM	1.8	ESE	
27 Jul 2020	12:00 PM	2.2	ESE	
27 Jul 2020	1:00 PM	1.8	SE	
27 Jul 2020	2:00 PM	1.8	ESE	
27 Jul 2020	3:00 PM	1.3	SSW	
27 Jul 2020	4:00 PM	0.9	SE	
27 Jul 2020	5:00 PM	0.9	ESE	
27 Jul 2020	6:00 PM	0.4	SSW	
27 Jul 2020	7:00 PM	0.9	SSW	
27 Jul 2020	8:00 PM	1.3	SSW	
27 Jul 2020	9:00 PM	0.9	SSW	

July 2020 Wind Speed and Directions				
27 Jul 2020	10:00 PM	0.9	ESE	
27 Jul 2020	11:00 PM	0.4	ESE	
28 Jul 2020	12:00 AM	0.4	ESE	
28 Jul 2020	1:00 AM	0.4	SSW	
28 Jul 2020	2:00 AM	0.9	SSW	
28 Jul 2020	3:00 AM	0.4	S	
28 Jul 2020	4:00 AM	0.4	SW	
28 Jul 2020	5:00 AM	0.4	WSW	
28 Jul 2020	6:00 AM	0.9	WSW	
28 Jul 2020	7:00 AM	0.9	WSW	
28 Jul 2020	8:00 AM	1.3	WSW	
28 Jul 2020	9:00 AM	1.3	SW	
28 Jul 2020	10:00 AM	1.3	WSW	
28 Jul 2020	11:00 AM	1.8	Е	
28 Jul 2020	12:00 PM	1.8	ESE	
28 Jul 2020	1:00 PM	1.8	ESE	
28 Jul 2020	2:00 PM	1.8	SSW	
28 Jul 2020	3:00 PM	1.3	SSW	
28 Jul 2020	4:00 PM	0.9	ESE	
28 Jul 2020	5:00 PM	0.4	SSW	
28 Jul 2020	6:00 PM	0.9	SSW	
28 Jul 2020	7:00 PM	0.9	SSW	
28 Jul 2020	8:00 PM	0.9	SSW	
28 Jul 2020	9:00 PM	0.4	SSW	
28 Jul 2020	10:00 PM	1.3	SSW	
28 Jul 2020	11:00 PM	0.9	SSW	
29 Jul 2020	12:00 AM	0.9	SSW	
29 Jul 2020	1:00 AM	0.9	WSW	
29 Jul 2020	2:00 AM	0.9	WSW	
29 Jul 2020	3:00 AM	0.9	SW	
29 Jul 2020	4:00 AM	0.4	SW	
29 Jul 2020	5:00 AM	0.4	SW	
29 Jul 2020	6:00 AM	0.4	SSW	
29 Jul 2020	7:00 AM	0.4	S	
29 Jul 2020	8:00 AM	0.9	SW	
29 Jul 2020	9:00 AM	0.4	WSW	
29 Jul 2020	10:00 AM	0.9	S	
29 Jul 2020	11:00 AM	1.3	SSW	
29 Jul 2020	12:00 PM	1.3	SSW	
29 Jul 2020	1:00 PM	0.9	SSW	
29 Jul 2020	2:00 PM	0.9	S	
29 Jul 2020	3:00 PM	0.4	S	
29 Jul 2020	4:00 PM	0.4	WSW	

	July 2020											
	Wind Speed a	and Directions										
Date	Time	Wind Speed m-s	Direction									
29 Jul 2020	5:00 PM	0.4	SSW									
29 Jul 2020	6:00 PM	0.9	SW									
29 Jul 2020	7:00 PM	1.3	SSW									
29 Jul 2020	8:00 PM	0.9	SW									
29 Jul 2020	9:00 PM	0.9	SW									
29 Jul 2020	10:00 PM	0.9	NE									
29 Jul 2020	11:00 PM	0.9	ENE									
30 Jul 2020	12:00 AM	0.9	NE									
30 Jul 2020	1:00 AM	0.9	NE									
30 Jul 2020	2:00 AM	0.9	NE									
30 Jul 2020	3:00 AM	0.4	ENE									
30 Jul 2020	4:00 AM	0.9	NE									
30 Jul 2020	5:00 AM	0.9	ENE									
30 Jul 2020	6:00 AM	1.3	NE									
30 Jul 2020	7:00 AM	0.9	ENE									
30 Jul 2020	8:00 AM	1.3	ENE									
30 Jul 2020	9:00 AM	1.8	ENE									
30 Jul 2020	10:00 AM	1.8	ENE									
30 Jul 2020	11:00 AM	1.8	Е									
30 Jul 2020	12:00 PM	0.9	NE									
30 Jul 2020	1:00 PM	1.8	SW									
30 Jul 2020	2:00 PM	1.3	SW									
30 Jul 2020	3:00 PM	0.9	SSW									
30 Jul 2020	4:00 PM	0.4	Е									
30 Jul 2020	5:00 PM	0.9	ENE									
30 Jul 2020	6:00 PM	0.9	NE									
30 Jul 2020	7:00 PM	1.3	NE									
30 Jul 2020	8:00 PM	0.9	NE									
30 Jul 2020	9:00 PM	0.9	NE									
30 Jul 2020	10:00 PM	1.3	NE									
30 Jul 2020	11:00 PM	1.3	NNE									
31 Jul 2020	12:00 AM	1.3	NNE									
31 Jul 2020	1:00 AM	1.3	NE									
31 Jul 2020	2:00 AM	0.9	S									
31 Jul 2020	3:00 AM	1.8	NE									
31 Jul 2020	4:00 AM	3.1	WSW									
31 Jul 2020	5:00 AM	2.2	SW									
31 Jul 2020	6:00 AM	1.8	E									
31 Jul 2020	7:00 AM	2.2	NE									
31 Jul 2020	8:00 AM	1.3	SW									
31 Jul 2020	9:00 AM	0.9	ENE									
31 Jul 2020	10:00 AM	1.3	NE									
31 Jul 2020	11:00 AM	2.7	NE									

	July	2020										
	Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction									
31 Jul 2020	12:00 PM	1.8	NE									
31 Jul 2020	1:00 PM	1.3	NE									
31 Jul 2020	2:00 PM	2.2	ENE									
31 Jul 2020	3:00 PM	3.1	WSW									
31 Jul 2020	4:00 PM	3.1	WSW									
31 Jul 2020	5:00 PM	2.7	SW									
31 Jul 2020	6:00 PM	3.1	WSW									
31 Jul 2020	7:00 PM	2.7	WSW									
31 Jul 2020	8:00 PM	3.1	SW									
31 Jul 2020	9:00 PM	2.7	WSW									
31 Jul 2020	10:00 PM	2.7	W									
31 Jul 2020	11:00 PM	2.2	W									

# Appendix D - Weather Conditions

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

## Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (July 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Jul	2-Jul	3-Jul	4-Jul
				1-hr TSP X3 Noise		
5-Jul	6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul
			1-hr TSP X3 Noise			
	24-hrs TSP					24-hrs TSP
12-Jul	13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul
		1-hr TSP X3 Noise				
					24-hrs TSP	
19-Jul	20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul
	1-hr TSP X3 Noise				1-hr TSP X3	
				24-hrs TSP		
26-Jul	27-Jul	` 28-Jul	29-Jul	30-Jul	31-Jul	
				1-hr TSP X3 Noise		
			24-hrs TSP			

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

#### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)</sup> - Cha Kwo Ling Public Cargo Working Area Administrative Office

#### Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

## Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (August 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Aug
2-Aug	3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug
		1-hr TSP X3 Noise				
	24-hrs TSP					24-hrs TSP
9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug
7 Hug		11 / 145	12 1145	15 1145		15 //ug
	1-hr TSP X3				1-hr TSP X3	
	Noise					
					24-hrs TSP	
					21 m5 151	
16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug	22-Aug
				1.1 TOD X2		
				1-hr TSP X3 Noise		
				Noise		
			24-hrs TSP			
					<b>1</b> 0 4	
23-Aug	24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug
			1-hr TSP X3 Noise			
		24-hrs TSP				
30-Aug	31-Aug					
	24-hrs TSP					

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

#### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)</sup> - Cha Kwo Ling Public Cargo Working Area Administrative Office

#### Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

## Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (September 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Sep	2-Sep	3-Sep	4-Sep	5-Sep
		1-hr TSP X3 Noise				
						24-hrs TSP
6-Sep	7-Sep	8-Sep	9-Sep	10-Sep	11-Sep	12-Sep
	1-hr TSP X3 Noise				1-hr TSP X3	
				24-hrs TSP		
13-Sep	14-Sep	15-Sep	16-Sep	17-Sep	18-Sep	19-Sep
				1-hr TSP X3 Noise		
			24-hrs TSP			
20-Sep	21-Sep	22-Sep	23-Sep	24-Sep	25-Sep	26-Sep
			1-hr TSP X3 Noise			
		24-hrs TSP				
27-Sep	28-Sep	29-Sep	30-Sep			
		1-hr TSP X3 Noise				
	24-hrs TSP					

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

#### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)</sup> - Cha Kwo Ling Public Cargo Working Area Administrative Office **Noise Monitoring Station** 

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

## Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (October 2020)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Oct	2-Oct	3-Oct
						24-hrs TSP
4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct
	1-hr TSP X3				1-hr TSP X3	
	Noise					
				24-hrs TSP		
				21 110 101		
11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
			2111151151			
18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
		21 m3 101				
25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct
		1-hr TSP X3				
		Noise				
	24-hrs TSP					
	27-113 151					

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

#### Air Quality Monitoring Station

*1-hr TSP / 24-hrs TSP* AM1 - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4<sup>(1)</sup> - Sitting-out Area at Cha Kwo Ling Village AM4(A)<sup>(2)</sup> - Cha Kwo Ling Public Cargo Working Area Administrative Office **Noise Monitoring Station** 

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong CM4 - Tin Hau Temple, Cha Kwo Ling CM5 - CCC Kei Faat Primary School, Yau Tong

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

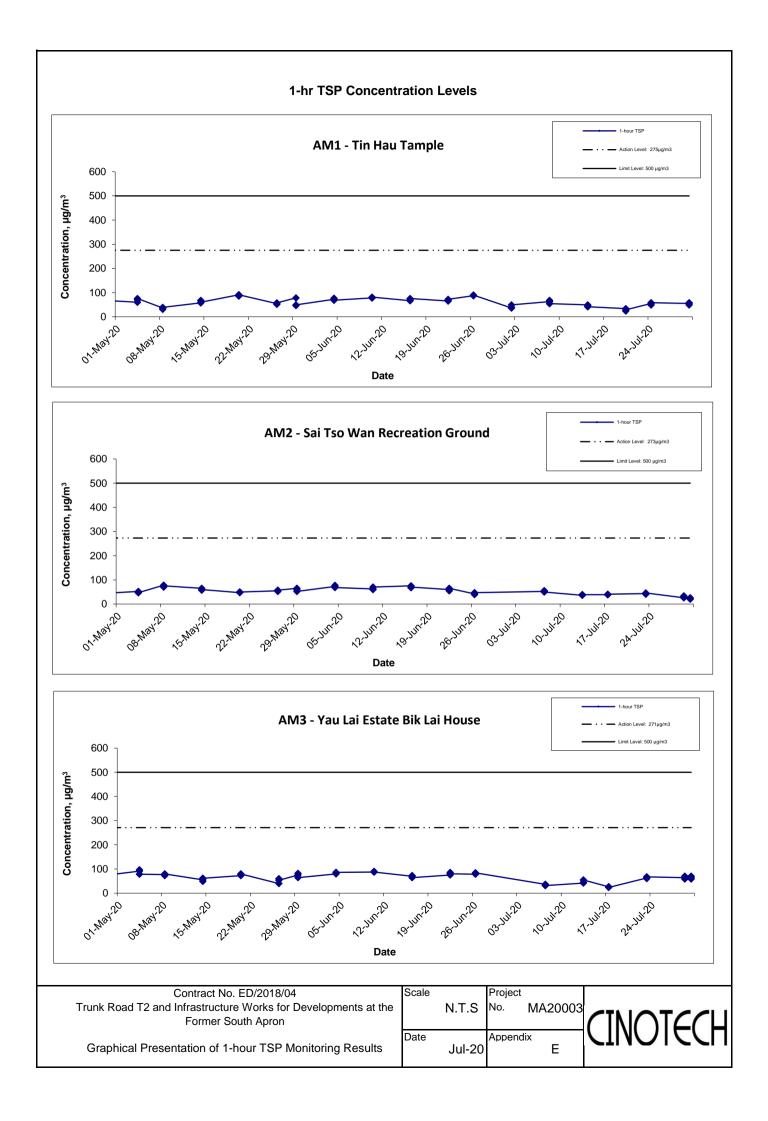
## APPENDIX E - 1-HOUR TSP MONITORING RESULTS

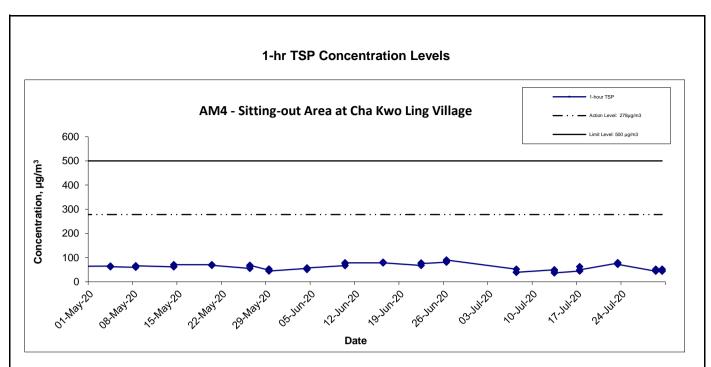
Location AM1 -	Tin Hau Ten	nple	
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
2-Jul-20	16:00	Sunny	36.4
2-Jul-20	17:00	Sunny	39.0
2-Jul-20	18:00	Sunny	49.4
8-Jul-20	13:00	Fine	62.4
8-Jul-20	14:00	Fine	67.6
8-Jul-20	15:00	Fine	54.6
14-Jul-20	13:00	Fine	49.4
14-Jul-20	14:00	Fine	46.8
14-Jul-20	15:00	Fine	41.6
20-Jul-20	9:00	Sunny	33.6
20-Jul-20	10:00	Sunny	24.0
20-Jul-20	11:00	Sunny	28.8
24-Jul-20	13:00	Sunny	55.1
24-Jul-20	14:00	Sunny	49.3
24-Jul-20	15:00	Sunny	58.0
30-Jul-20	13:00	Sunny	55.1
30-Jul-20	14:00	Sunny	49.3
30-Jul-20	15:00	Sunny	58.0
		Average	47.7
		Maximum	67.6
		Minimum	24.0

Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
2-Jul-20	9:00	Sunny	52.2
2-Jul-20	10:00	Sunny	55.1
2-Jul-20	11:00	Sunny	49.3
8-Jul-20	16:00	Sunny	36.0
8-Jul-20	17:00	Sunny	38.4
8-Jul-20	18:00	Sunny	38.4
14-Jul-20	13:00	Sunny	38.4
14-Jul-20	14:00	Sunny	38.4
14-Jul-20	15:00	Sunny	40.8
20-Jul-20	9:00	Fine	43.2
20-Jul-20	10:00	Fine	40.8
20-Jul-20	11:00	Fine	45.6
24-Jul-20	9:00	Sunny	26.0
24-Jul-20	10:00	Sunny	31.2
24-Jul-20	11:00	Sunny	33.8
30-Jul-20	9:00	Sunny	20.8
30-Jul-20	10:00	Sunny	20.8
30-Jul-20	11:00	Sunny	26.0
		Average	37.5
	ľ	Maximum	55.1
		Minimum	20.8

Date	Time	Weather	Particulate Concentration ( µg/m 3)
2-Jul-20	9:00	Sunny	36.4
2-Jul-20	10:00	Sunny	31.2
2-Jul-20	11:00	Sunny	31.2
8-Jul-20	9:00	Fine	41.6
8-Jul-20	10:00	Fine	44.2
8-Jul-20	11:00	Fine	54.6
14-Jul-20	9:00	Fine	26.0
14-Jul-20	10:00	Fine	26.0
14-Jul-20	11:00	Fine	23.4
20-Jul-20	13:00	Sunny	62.4
20-Jul-20	14:00	Sunny	60.0
20-Jul-20	15:00	Sunny	67.2
24-Jul-20	16:00	Sunny	63.8
24-Jul-20	17:00	Sunny	58.0
24-Jul-20	18:00	Sunny	69.6
30-Jul-20	16:00	Sunny	63.8
30-Jul-20	17:00	Sunny	58.0
30-Jul-20	18:00	Sunny	69.6
		Average	49.3
		Maximum	69.6
		Minimum	23.4

Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup>
2-Jul-20	13:00	Sunny	52.0
2-Jul-20	14:00	Sunny	39.0
2-Jul-20	15:00	Sunny	39.0
8-Jul-20	16:00	Fine	49.4
8-Jul-20	17:00	Fine	44.2
8-Jul-20	18:00	Fine	36.4
14-Jul-20	16:00	Fine	44.2
14-Jul-20	17:00	Fine	62.4
14-Jul-20	18:00	Fine	49.4
20-Jul-20	16:00	Sunny	76.8
20-Jul-20	17:00	Sunny	79.2
20-Jul-20	18:00	Sunny	72.0
24-Jul-20	9:00	Sunny	43.5
24-Jul-20	10:00	Sunny	52.2
24-Jul-20	11:00	Sunny	46.4
30-Jul-20	9:00	Sunny	43.5
30-Jul-20	10:00	Sunny	52.2
30-Jul-20	11:00	Sunny	46.4
		Average	51.6
	Γ	Maximum	79.2
		Minimum	36.4





Notes:

- 1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2. The weather conditions during the reporting month are presented in Appendix C.
- 3. Other factors which might affect the monitoring results are presented in Section 2.17.

Contract No. ED/2018/04	Scale		Project		
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron		N.T.S	No.	MA20003	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Date	Jul-20	Append	ix E	

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

## Appendix F - 24-hour TSP Monitoring Results

## Location AM1 - Tin Hau Temple

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Otart Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Jul-20	Sunny	303.1	757.2	3.4746	3.5452	0.0706	7038.6	7062.6	24.0	1.19	1.19	1.19	1719.2	41.1
11-Jul-20	Sunny	303.4	756.7	3.5215	3.5727	0.0512	7062.6	7086.6	24.0	1.19	1.19	1.19	1717.6	29.8
17-Jul-20	Sunny	303.4	757.3	3.4491	3.7212	0.2721	7086.6	7110.6	24.0	1.22	1.22	1.22	1749.9	155.5
23-Jul-20	Sunny	303.5	757.5	3.4440	3.4891	0.0451	7110.6	7134.6	24.0	1.22	1.21	1.22	1749.7	25.8
29-Jul-20	Sunny	303.4	756.2	3.4527	3.4960	0.0433	7134.6	7158.6	24.0	1.21	1.21	1.21	1748.7	24.8
													Min	24.8
													Max	155.5
													Average	55.4

#### Location AM2 - Sai Tso Wan Recreation Ground

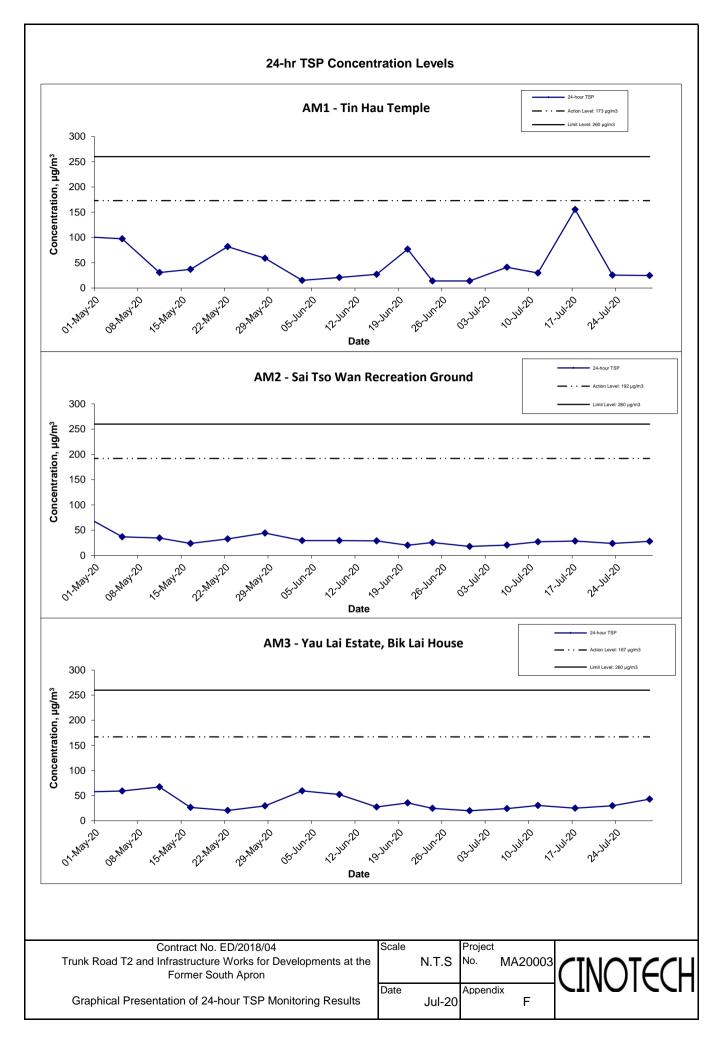
Start Date	Weather	Air	Air Atmospheric		'eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
6-Jul-20	Sunny	303.1	757.2	3.4972	3.5328	0.0356	28144.8	28168.8	24.0	1.20	1.20	1.20	1722.0	20.7
11-Jul-20	Sunny	303.4	756.7	3.4853	3.5320	0.0467	28168.8	28192.8	24.0	1.19	1.19	1.19	1720.4	27.1
17-Jul-20	Sunny	303.4	757.3	3.4223	3.4724	0.0501	28192.8	28216.8	24.0	1.21	1.21	1.21	1749.1	28.6
23-Jul-20	Sunny	303.5	757.5	3.5066	3.5486	0.0420	28216.8	28240.8	24.0	1.22	1.21	1.21	1749.0	24.0
29-Jul-20	Sunny	303.4	756.2	3.4616	3.5109	0.0493	28240.8	28264.8	24.0	1.21	1.21	1.21	1747.9	28.2
									-			-	Min	20.7
													Max	28.6
													Average	25.7

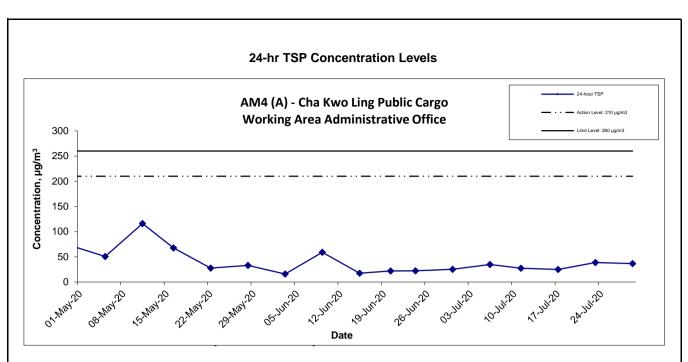
#### Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Air	Atmospheric	Filter W	Filter Weight (g) Par		Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu q/m^3)$
6-Jul-20	Sunny	303.1	757.2	3.4275	3.4687	0.0412	2092.3	2116.3	24.0	1.19	1.19	1.19	1717.7	24.0
11-Jul-20	Sunny	303.4	756.7	3.5094	3.5614	0.0520	2116.3	2140.3	24.0	1.19	1.19	1.19	1715.9	30.3
17-Jul-20	Sunny	303.4	757.3	3.5010	3.5450	0.0440	2140.3	2164.3	24.0	1.21	1.21	1.21	1748.6	25.2
23-Jul-20	Sunny	303.5	757.5	3.4586	3.5105	0.0519	2164.3	2188.3	24.0	1.22	1.21	1.21	1748.4	29.7
29-Jul-20	Sunny	303.4	756.2	3.4680	3.5430	0.0750	2188.3	2212.3	24.0	1.21	1.21	1.21	1747.3	42.9
													Min	24.0
													Max	42.9
													Average	30.4

#### Location AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	$(\mu g/m^3)$
6-Jul-20	Sunny	303.1	757.2	3.4223	3.4825	0.0602	13369.2	13393.2	24.0	1.20	1.20	1.20	1723.5	34.9
11-Jul-20	Sunny	303.4	756.7	3.4878	3.5352	0.0474	13393.2	13417.2	24.0	1.20	1.20	1.20	1721.9	27.5
17-Jul-20	Sunny	303.4	757.3	3.5017	3.5454	0.0437	13417.2	13441.2	24.0	1.22	1.21	1.21	1749.3	25.0
23-Jul-20	Sunny	303.5	757.5	3.4707	3.5385	0.0678	13441.2	13465.2	24.0	1.22	1.21	1.21	1749.2	38.8
29-Jul-20	Sunny	303.4	756.2	3.4398	3.5041	0.0643	13465.2	13489.2	24.0	1.21	1.21	1.21	1748.2	36.8
													Min	25.0
													Max	38.8
													Average	32.6





Notes:

- 1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2. The weather conditions during the reporting month are presented in Appendix C.
- 3. Other factors which might affect the monitoring results are presented in Section 2.17.

Contract No. ED/201	8/04	Scale		Project			
Trunk Road T2 and Infrastructure Works Former South Apro	•		N.T.S	No.	MA20003	CINOTEC	Ъ
Graphical Presentation of 24-hour TS		Date	Jul-20	Appendi	F		-11

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

## Appendix G - Noise Monitoring Results

## (0700-1900 hrs on Normal Weekdays)

Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong													
					Unit	: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Level	Baseline Level	Construction Noise Level						
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>						
2-Jul-20	11:00	Sunny	72.2	74.3	69.0	65.5	71						
8-Jul-20	11:30	Sunny	69.8	71.1	67.9	65.5	68						
14-Jul-20	9:00	Fine	72.6	75.9	67.6	65.5	72						
20-Jul-20	11:15	Fine	72.3	74.9	68.1	65.5	71						
30-Jul-20	15:45	Sunny	71.9	74.6	67.1	65.5	71						

## Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

					Unit:	dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level						
Date	Time	weather											
			L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>						
2-Jul-20	11:30	Sunny	72.1	74.5	68.4	63.6	71						
8-Jul-20	10:30	Sunny	71.4	73.8	68.5	63.6	71						
14-Jul-20	9:45	Fine	73.2	76.1	69.2	63.6	73						
20-Jul-20	10:15	Fine	72.5	74.7	70.1	63.6	72						
30-Jul-20	15:45	Sunny	72.3 75.4		68.0	63.6	72						

## Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

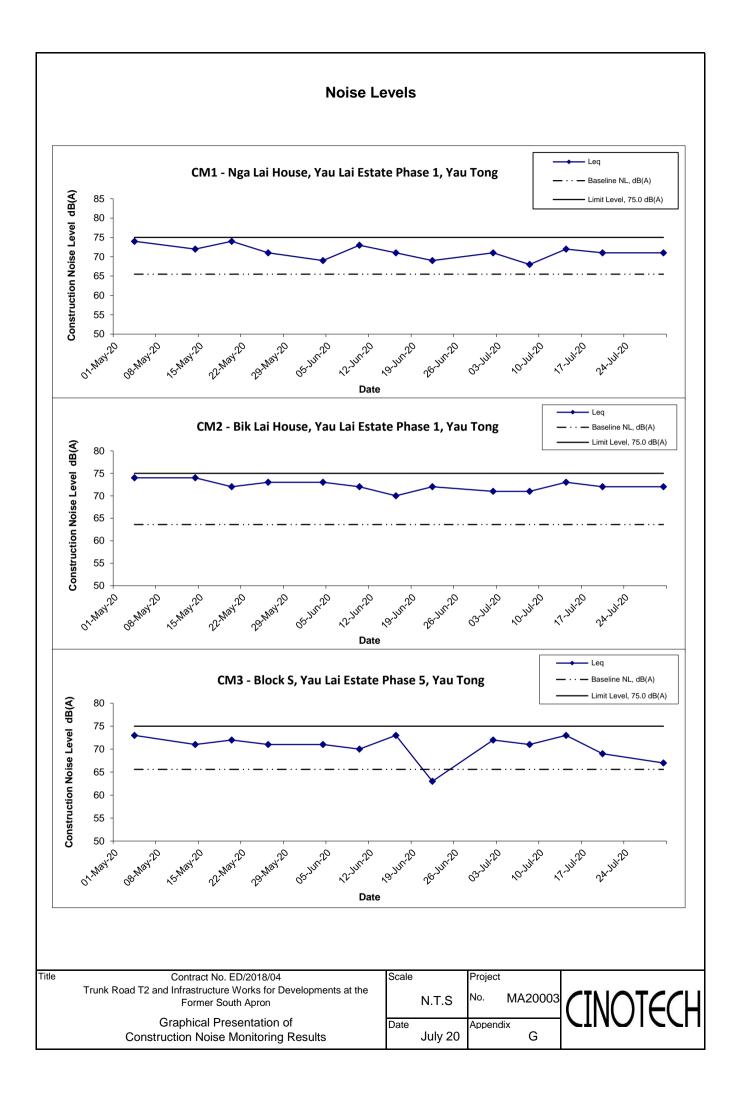
					Unit:	dB (A) (30-min)	
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level
Duit		Weather	L <sub>eq</sub> L <sub>10</sub>		L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jul-20	16:15	Sunny	72.8	74.7	70.5	65.6	72
8-Jul-20	13:45	Sunny	71.8	73.5	69.6	65.6	71
14-Jul-20	10:30	Sunny	73.4	76.5	70.1	65.6	73
20-Jul-20	13:30	Fine	70.4	72.4	67.8	65.6	69
30-Jul-20	16:15	Sunny	69.5 71.5		66.8	65.6	67

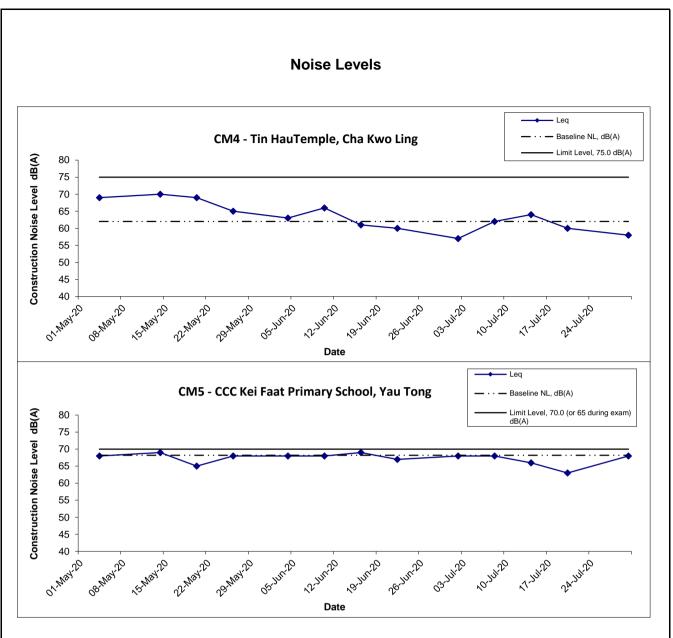
## Location CM4 - Tin Hau Temple, Cha Kwo Ling

					Unit:	dB (A) (30-min)	
Date	Time	Weather	Measured Noise Level		Baseline Level	Construction Noise Level	
Date	Time	Weather	L <sub>eq</sub>	L <sub>eq</sub> L <sub>10</sub>		L <sub>eq</sub>	L <sub>eq</sub>
2-Jul-20	17:15	Sunny	63.2	65.3	72.2	62.0	57
8-Jul-20	15:15	Sunny	61.8	64.5	56.2	62.0	62 Measured $\leq$ Baseline
14-Jul-20	13:00	Sunny	65.9	69.6	60.3	62.0	64
20-Jul-20	15:05	Fine	60.0	62.8	53.8	62.0	60 Measured $\leq$ Baseline
30-Jul-20	11:00	Sunny	63.5 67.8		60.2	62.0	58

## Location CM5 - CCC Kei Faat Primary School, Yau Tong

					Unit	: dB (A) (30-min)	
Date	Date Time Wea		Meas	sured Noise I	Level	Baseline Level	Construction Noise Level
Duto	Time	Weather	L <sub>eq</sub> L <sub>10</sub>		L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
2-Jul-20	14:15	Sunny	67.7	69.2	66.3	68.2	68 Measured $\leq$ Baseline
8-Jul-20	14:30	Sunny	68.0	70.0	65.4	68.2	68 Measured $\leq$ Baseline
14-Jul-20	11:30	Sunny	65.8	69.4	62.8	68.2	66 Measured $\leq$ Baseline
20-Jul-20	14:15	Fine	69.4	71.6	66.4	68.2	63
30-Jul-20	11:30	Sunny	71.3 73.6		68.3	68.2	68





Notes:

- 1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2. The weather conditions during the reporting month are presented in Appendix C.
- 3. Other factors which might affect the monitoring results are presented in Section 3.13.

Title	Contract No. ED/2018/04	Scale		Project		
	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron		N.T.S	No.	MA20003	
	Graphical Presentation of Construction Noise Monitoring Results	Date	July 20	Append	<sup>dix</sup> G	

APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Contract No. ED/2018/04

Name of Department: CEDD Monthly Summary Waste Flow Table for 2020 (CKL)

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual C	Quantities of	C&D Wastes	s Generated	Monthly
Month	a.Total Quantity Generated (a=b+c+d+e )	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
January											
February											
March											
April											
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009
June	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.005
Sub-total	0.002	0.000	0.000	0.000	0.002	0.000	0.000	0.000	0.000	0.000	0.014
July	0.024	0.000	0.000	0.000	0.024	0.000	0.000	0.000	0.000	0.000	0.002
August											
September											
October											
November											
December										<u> </u>	
Total	0.025	0.000	0.000	0.000	0.025	0.000	0.000	0.000	0.000	0.000	0.016

Total C&D waste generated = a+b+f+g+h+i+j+k

Total C&D waste generated (excluded excavated material) = g+h+i+j+k

Total C&D waste recycled = c+d+g+h+i

Monthly Summary Waste Flow Table

APPENDIX I SITE AUDIT SUMMARY

## Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

# Weekly Site Inspection Record Summary Inspection Information 200702 Checklist Reference Number 200702 Date 02 July 2020 (Thursday) Time 09:30 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li><i>B. Water Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>C. Air Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
200702 - O1	<ul> <li><i>D. Construction Noise Impact</i></li> <li>Air compressor operate with door opened is observed.</li> </ul>	D9
	<ul><li><i>E. Waste/Chemical Management</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>I. Others</i></li><li>Follow-up on previous audit session (Ref No.:200623), all item has been rectified.</li></ul>	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	02 July 2020
Checked by	Karina Chan	Zalle	02 July 2020

## Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

# Weekly Site Inspection Record Summary Inspection Information 200709 Checklist Reference Number 200709 Date 09 July 2020 (Thursday) Time 09:30 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit session (Ref No.:200702), all item has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	10 July 2020
Checked by	Karina Chan	Julle	10 July 2020

# Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

# Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	200716
Date	16 July 2020 (Thursday)
Time	09:30 - 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
200716 – R1	<ul> <li>B. Water Quality</li> <li>Manhole in which located nearby the site entrance are likely to be contaminated by muddy water generated from site. Contractor was reminded to seal on /around the manhole to prevent the muddy water flowing through it.</li> <li>C. Air Quality</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	<i>B</i> 8
	<ul><li><i>D. Construction Noise Impact</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>E. Waste/Chemical Management</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>I. Others</i></li><li>No environmental deficiency was identified on previous audit session (Ref No.:200709),</li></ul>	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	17 July 2020
Checked by	Karina Chan	Julle	17 July 2020

# Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

## Weekly Site Inspection Record Summary Inspection Information

Peerion	
Checklist Reference Number	200723
Date	23 July 2020 (Thursday)
Time	09:30 - 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	<ul><li><i>B. Water Quality</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
200723 – R2	<ul><li><i>C. Air Quality</i></li><li>Watering regularly within the work area enclosed by the blast door was recommended to avoided dust generation.</li></ul>	C1, C15
200723 - R1	<ul><li><i>D. Construction Noise Impact</i></li><li>Moveable noise barrier shall be provided to reduce the noise nuisance generated from the breaker.</li></ul>	D7
	<ul><li><i>E. Waste/Chemical Management</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>F. Visual and Landscape</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>G. Permits/Licences</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>H. Marine Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	<ul><li><i>I. Others</i></li><li>Follow-up on previous audit session (Ref No.:200716), all item has been rectified.</li></ul>	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	24 July 2020
Checked by	Karina Chan	Jull	24 July 2020

# Environmental Team for Trunk Road T2 and Infrastructure Works at the Former South Apron

## Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	200730			
Date	30 July 2020 (Thursday)			
Time	09:30 – 12:00			

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
200730 - R1	• Still water was observed near the Bar Bending Yard.	B9
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit session (Ref No.:200730), item (200723 – R2) has been rectified and the follow-up action are required for item (200723 – R1).	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	31 July 2020
Checked by	Karina Chan	Julle	31 July 2020

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

# App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

## Table I - Recommended Mitigation Measures stipulated in EM&A Manual for the Project

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
\$3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
\$3.8.7	<ul> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</li> <li>Use of frequent watering for particularly dusty construction areas and areas close to ASRs</li> <li>Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines.</li> <li>Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs.</li> <li>Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.</li> <li>Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.</li> <li>Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.</li> <li>Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit.</li> <li>Imposition of speed controls for vehicles on site haul roads.</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be at the maximum possible distance from ASRs</li> <li>Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides.</li> <li>Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.</li> </ul>	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
/	<ul> <li>Emission from Vehicles and Plants</li> <li>All vehicles shall be shut down in intermittent use.</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke.</li> <li>All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD)</li> </ul>	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
Noise Impact (Const	ruction Phase)					
S4.8	• Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump.	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	<ul> <li>Good Site Practice</li> <li>Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program</li> <li>Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impa	et (Construction Phase)			•		
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m <sup>3</sup> , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m <sup>3</sup> (i.e. 1,000 m <sup>3</sup> per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	<ul> <li>Silt curtains should be deployed properly to surround the works area.</li> <li>Maintenance of silt curtain should be provided.</li> <li>Sufficient stock of silt curtain should be provided on site.</li> </ul>	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	<ul> <li>Other good site practices should be undertaken during filling operations include:</li> <li>all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea;</li> <li>floating single silt curtain shall be employed for all marine works;</li> <li>all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash;</li> <li>all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;</li> <li>excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved;</li> <li>adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action;</li> <li>loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation;</li> <li>any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes;</li> <li>construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and</li> <li>before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.</li> </ul>	Control potential impacts from filling activities and marine–based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	<ul> <li>To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: <ul> <li>Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall)</li> <li>The temporary barrier fully enclosing the dredging and underwater filling works.</li> <li>Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier.</li> <li>Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation.</li> </ul> </li> </ul>	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
\$5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: <ul> <li>use of sediment traps; and</li> </ul>	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.8	<ul> <li>adequate maintenance of drainage systems to prevent flooding and overflow.</li> </ul>					
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m <sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m <sup>3</sup> should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO

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	• chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and					
	<ul> <li>storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.</li> </ul>					
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	<ul> <li>Measures to Minimize Disturbance</li> <li>Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible.</li> <li>Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers;</li> <li>Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities</li> </ul>	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A
S6.8.5	<ul> <li>Standard Good Site Practice</li> <li>Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats.</li> <li>Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works.</li> <li>Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner.</li> <li>General drainage arrangements should include sediment and oil traps to collect and control construction site run-off.</li> <li>Open burning on works sites is illegal, and should be strictly prohibited.</li> <li>Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.</li> </ul>	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
\$6.8.6	<ul> <li>Measure to Minimize Groundwater Inflow</li> <li>The drained tunnel construction method with groundwater inflow control measures would generally be adopted.</li> <li>During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements.</li> </ul>	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
	<ul> <li>Measure to Minimize Impact on Corals</li> <li><u>Coral translocation</u> <ul> <li>It is recommended to translocate the affected coral colonies, except the locally common <i>Oulastrea crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable.</li> <li>The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October).</li> </ul> </li> </ul>					

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S6.8.8	<ul> <li>A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage.</li> <li>The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation.</li> </ul>	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A
	<ul> <li>Post translocation Monitoring</li> <li>A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities</li> <li>Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.</li> </ul>					
S6.8.9 S6.8.10	<ul> <li>Measure to Control Water Quality Impact</li> <li>Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.</li> <li>Diverting of the site runoff to silt trap facilities before discharging into storm drain;</li> <li>Proper waste and dumping management; and</li> <li>Standard good-site practice for land-based construction.</li> </ul>	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
S6.8.11	<ul> <li>Compensation for Vegetation Loss</li> <li>Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.</li> </ul>	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact  Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management	Construction Phase)					
S8.6.3	<ul> <li>Good Site Practices and Waste Reduction Measures</li> <li>Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <li>Training of site personnel in site cleanliness, proper waste management and chemical handling procedures;</li> <li>Provision of sufficient waste disposal points and regular collection of waste;</li> <li>Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and</li> </ul>	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)

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	<ul> <li>Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.</li> </ul>					
	<ul> <li>Good Site Practices and Waste Reduction Measures (con't)</li> <li>Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;</li> </ul>					Waste Disposal Ordinance (Cap. 354)
S8.6.4	<ul> <li>Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce;</li> <li>Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and</li> <li>Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.6	Good Site Practices and Waste Reduction Measures (con't) <ul> <li>C&amp;D materials would be reused in the project and other local concurrent projects as far as possible.</li> </ul>	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
\$8.6.7	<ul> <li>Storage, Collection and Transportation of Waste</li> <li>Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: <ul> <li>Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution;</li> <li>Maintain and clean storage areas routinely;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and</li> <li>Different locations should be designated to stockpile each material to enhance reuse.</li> </ul> </li> </ul>	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
	<ul> <li>Storage, Collection and Transportation of Waste (con't)</li> <li>Remove waste in timely manner;</li> <li>Waste collectors should only collect wastes prescribed by their permits;</li> <li>Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers;</li> </ul>					

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58.6.8/ Waste Management Plan	<ul> <li>Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28);</li> <li>Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and</li> <li>Maintain records of quantities of waste generated, recycled and disposed.</li> </ul>	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
8.6.9/ Waste Management Plan	<ul> <li>Storage, Collection and Transportation of Waste (con't)</li> <li>Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction &amp; Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed.</li> </ul>	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	<ul> <li>Sorting of C&amp;D Materials</li> <li>Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site.</li> <li>Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials.</li> <li>The C&amp;D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills</li> </ul>	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	<ul> <li>Sediments (con't) <ul> <li>Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment.</li> <li>A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).</li> <li>In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.</li> <li>In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.</li> </ul> </li> </ul>	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005
	<ul> <li>Sediments (con't)</li> <li>The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excaveted sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002.</li> </ul>					

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S8.6.24 - S8.6.28/ Waste Management Plan	<ul> <li>Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO).</li> <li>In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment shury to the surrounding water.</li> <li>The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic selfmonitoring devices as specified by the DEP.</li> <li>In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.</li> <li>Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containment method is a method whereby the sediments</li></ul>	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	Chemical Wastes. <ul> <li>If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. </li></ul>	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

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S8.6.27/ Waste Management Plan	• General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
\$9.6.4	<ul> <li>Dust and visual impacts</li> <li>Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided;</li> <li>The open yard in front of the temple should be kept as usual for annual Tin Hau festival;</li> <li>Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.</li> </ul>	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
\$9.6.4	<ul> <li>Indirect vibration impact</li> <li>Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings;</li> <li>Monitoring of vibration should be carried out during construction phase.</li> <li>Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well.</li> <li>A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.</li> </ul>	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	<ul> <li>Established Alert, Alarm and Action Level for the monitoring parameters.</li> <li>To increase the instrumentation monitoring and reporting frequency.</li> <li>To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded.</li> </ul>	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.

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Landscape and Visua	Landscape and Visual Impact (Construction Phase)									
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification				
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A				
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A				

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazard	(Design and Construction Phase)					
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	Safety Measures					
	<ul> <li>For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards.</li> <li>An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out.</li> <li>No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed.</li> <li>Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking.</li> <li>Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation.</li> <li>Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person).</li> <li>The permit to work procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas.</li> </ul>					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$11.5.10 \$11.5.25	• Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air.	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space
	<ul> <li>Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day.</li> </ul>					
	<ul> <li>During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site.</li> <li>Fire drills should be organized at not less than six monthly intervals.</li> <li>The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow.</li> </ul>					
	<ul> <li>All personnel who work on the site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards.</li> </ul>					
	• Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong).					
	• Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person.					

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.26 - S11.5.31	<ul> <li>Monitoring</li> <li>Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area.</li> <li>For excavations deeper than 1m, measurements should be carried out: <ul> <li>at the ground surface before excavation commences;-</li> <li>immediately before any worker enters the excavation;</li> <li>at the beginning of each working day for the entire period the excavation remains open; and</li> <li>periodically throughout the working day whilst workers are in the excavation.</li> <li>For excavations between 300mm and 1m deep, measurements should be carried out:</li> <li>directly after the excavation has been completed; and</li> <li>periodically whilst the excavation remains open.</li> <li>For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person.</li> <li>Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person.</li> <li>The exact frequency of monitoring should be determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system.</li> </ul></li></ul>	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

## Table II - Observation / Reminder / Non-compliance made during Site Audit

Key: ✓ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

X Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit

# Follow up action will be reported in next reporting month

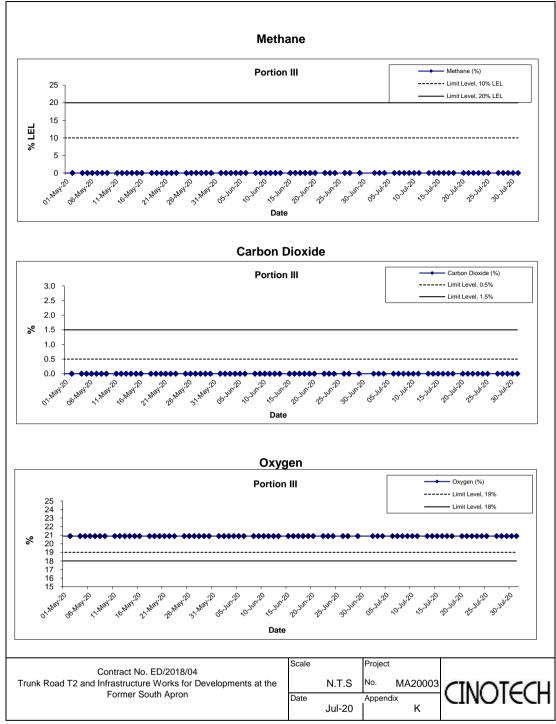
\* Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	<b>Recorded Date</b>	Status
Air Quality				
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	by on active works areas, exposed areas and Watering regularly within thw work area enclosed by blast door was recommended to avoided dust generation.		$\checkmark$
<b>Construction</b> N	Noise Impact			
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	Moveable noise barrier shall be provided to reduce the noise nuisance generated from the breaker.	23 Jul 2020	#
Water Quality	Impact			
<b>Ecological Imp</b>	pact			
<b>Fisheries Impa</b>	let			
Waste Manage	ement			
Landscape and	l Visual Impact			
Landfill Gas H	lazards			

APPENDIX K RECORD OF LANDFILL GAS MONITORING BY CONTRACTOR

# APPENDIX K - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR



#### APPENDIX K - RECORD OF LANDFILL GAS MONITORING BY THE CONTRACTOR

Location	Date of Measurement	Sampling time	Weather Condition	Temperature (°C)	Methane (%)	Carbon dioxide (%)	Oxygen (%)
Portion III	2-Jul-20	8:05	Cloudy	27	0	0	20.9
Portion III	2-Jul-20	13:20	Cloudy	28	0	0	20.9
Portion III	3-Jul-20	8:10	Sunny	20	0	0	20.9
Portion III	3-Jul-20	13:50	Cloudy	28	0	0	20.9
Portion III	4-Jul-20	8:15	Sunny	29	0	0	20.9
Portion III	4-Jul-20	13:30	Cloudy	30	0	0	20.9
Portion III	6-Jul-20	8:10	Sunny	30	0	0	20.9
Portion III	6-Jul-20	13:10	Cloudy	31	0	0	20.9
Portion III	7-Jul-20	8:10	Sunny	29	0	0	20.9
Portion III	7-Jul-20	13:05	Cloudy	30	0	0	20.9
Portion III	8-Jul-20	8:15	Sunny	30	0	0	20.9
Portion III	8-Jul-20	13:05	Rainy	31	0	0	20.9
Portion III	9-Jul-20	8:10	Cloudy	29	0	0	20.9
Portion III	9-Jul-20	13:15	Cloudy	30	0	0	20.9
Portion III	10-Jul-20	8:20	Cloudy	30	0	0	20.9
Portion III	10-Jul-20	13:10	Cloudy	31	0	0	20.9
Portion III	11-Jul-20	8:10	Rainy	30	0	0	20.9
Portion III	11-Jul-20	13:15	Sunny	31	0	0	20.9
Portion III	13-Jul-20	8:10	Rainy	30	0	0	20.9
Portion III	13-Jul-20	13:15	Cloudy	31	0	0	20.9
Portion III	14-Jul-20	8:10	Cloudy	30	0	0	20.9
Portion III	14-Jul-20	13:10	Sunny	30	0	0	20.9
Portion III	14-Jul-20	8:10		30	0	0	20.9
Portion III			Cloudy	30	0	0	20.9
Portion III	15-Jul-20 16-Jul-20	13:15 8:05	Sunny	30	0	0	20.9
Portion III	16-Jul-20	13:10	Cloudy	30	0	0	20.9
Portion III	17-Jul-20	8:10	Sunny	30	0	0	20.9
Portion III			Cloudy	30	0	0	
Portion III	17-Jul-20 18-Jul-20	13:15 8:15	Sunny	30	0	0	20.9
Portion III	18-Jul-20	13:20	Cloudy	30	0	0	20.9
Portion III	20-Jul-20	8:10	Rainy Rainy	29	0	0	20.9
Portion III	20-Jul-20 20-Jul-20	13:15	Cloudy	30	0	0	20.9
Portion III	20-Jul-20 21-Jul-20	8:15	Sunny	30	0	0	20.9
Portion III	21-Jul-20 21-Jul-20	13:15	Sunny	33	0	0	20.9
Portion III	21-Jul-20 22-Jul-20	8:05		30	0	0	20.9
Portion III	22-Jul-20	13:10	Sunny Sunny	31	0	0	20.9
Portion III	22-Jul-20 23-Jul-20	8:30	Sunny	30	0	0	20.9
Portion III	23-Jul-20 23-Jul-20	13:25		30	0	0	20.9
Portion III	23-Jul-20 24-Jul-20	8:10	Sunny Sunny	29	0	0	20.9
Portion III	24-Jul-20 24-Jul-20	13:15	Sunny	31	0	0	20.9
Portion III	24-Jul-20 25-Jul-20	8:10	Cloudy	30	0	0	20.9
Portion III	25-Jul-20	13:15	Sunny	31	0	0	20.9
Portion III	23-Jul-20 27-Jul-20	8:10	Cloudy	30	0	0	20.9
Portion III	27-Jul-20 27-Jul-20	13:10	Sunny	30	0	0	20.9
Portion III	27-Jul-20 28-Jul-20	8:10	Sunny	30	0	0	20.9
Portion III	28-Jul-20 28-Jul-20	13:10	Sunny	30	0	0	20.9
Portion III	28-Jul-20 29-Jul-20	8:10	Sunny	30	0	0	20.9
Portion III	29-Jul-20 29-Jul-20	13:10	Sunny Sunny	30	0	0	20.9
Portion III	29-Jul-20 30-Jul-20	8:10	Sunny	31	0	0	20.9
Portion III	30-Jul-20	13:15	Sunny	32	0	0	20.9
Portion III	30-Jul-20 31-Jul-20	8:10	Sunny	29	0	0	20.9
Portion III	31-Jul-20	13:15		30	0	0	20.9
r oruon m	31-JUI-20	13:13	Sunny	30	U	U	20.9

APPENDIX L EVENT AND ACTION PLANS

### **Event and Action Plan for Air Quality (Dust)**

		ACT	TION	
EVENT	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling	<ol> <li>Identify source, investigate the causes of complaint and propose remedial measures;</li> <li>Inform IEC and ER;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method.</li> </ol>	1. Notify Contractor.	<ol> <li>Rectify any unacceptable practice;</li> <li>Amend working methods if appropriate.</li> </ol>
Action level being exceeded by two or more consecutive sampling	<ol> <li>Identify source;</li> <li>Inform IEC and ER;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER;</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET on the effectiveness of the proposed remedial measures;</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>

		ACT	TION	
EVENT	ET	IEC	ER	CONTRACTOR
	8. If exceedance stops, cease additional monitoring.			
Limit level being exceeded by one sampling	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform Contractor ,IEC, ER, and EPD;</li> <li>Repeat measurement to confirm finding;</li> <li>Increase monitoring frequency to daily;</li> <li>Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ER on the effectiveness of the proposed remedial measures;</li> <li>Supervise implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>Ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> <li>Amend proposal if appropriate.</li> </ol>
Limit level being exceeded by two or more consecutive sampling	<ol> <li>Notify IEC, ER, Contractor and EPD;</li> <li>Identify source;</li> <li>Repeat measurement to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> </ol>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> </ol>	<ol> <li>Confirm receipt of notification of exceedance in writing;</li> <li>Notify Contractor;</li> <li>In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> </ol>	<ol> <li>Take immediate action to avoid further exceedance;</li> <li>Submit proposals for remedial actions to IEC within three working days of notification;</li> <li>Implement the agreed proposals;</li> </ol>

	ACTION													
EVENT		ET		IEC		ER	CONTRACTOR							
	5.	Carry out analysis of Contractor's	3.	Supervise the implementation of	4.	Ensure remedial measures	4.	Resubmit proposals if problem still						
		working procedures to determine		remedial measures.		properly implemented;		not under control;						
		possible mitigation to be			5.	If exceedance continues, consider	5.	Stop the relevant portion of works						
		implemented;				what portion of the work is		as determined by the ER until the						
	6.	Arrange meeting with IEC and				responsible and instruct the		exceedance is abated.						
		ER to discuss the remedial actions				Contractor to stop that portion of								
		to be taken;				work until the exceedance is								
	7.	Assess effectiveness of				abated.								
		Contractor's remedial actions and												
		keep IEC, EPD and ER informed												
		of the results;												
	8.	If exceedance stops, cease												
		additional monitoring.												

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

EVENT				АСТ	ION			
		ET		IEC		ER		CONTRACTOR
Action Level	1.	Notify IEC and Contractor;	1.	Review the analysed results submitted by the ET;	1.	Confirm receipt of notification of failure in	1. 5	Submit noise mitigation proposals to IEC;
	2.	Carry out investigation;	2.	Review the proposed remedial measures by the		writing;	2. 1	Implement noise mitigation proposals.
	3.	Report the results of investigation to the IEC, ER		Contractor and advise the ER accordingly;	2.	Notify Contractor;		
		and Contractor;	3.	Supervise the implementation of remedial	3.	Require Contractor to propose remedial measures		
	4.	Discuss with the Contractor and formulate		measures.		for the analysed noise problem;		
		remedial measures;			4.	Ensure remedial measures are properly		
	5.	Increase monitoring frequency to check mitigation				implemented.		
		effectiveness.						
Limit Level	1.	Identify source;	1.	Discuss amongst ER, ET, and Contractor on the	1.	Confirm receipt of notification of failure in	1.	Take immediate action to avoid further
	2.	Inform IEC, ER, EPD and Contractor;		potential remedial actions;		writing;		exceedance;
	3.	Repeat measurements to confirm findings;	2.	Review Contractors remedial actions whenever	2.	Notify Contractor;	2.	Submit proposals for remedial actions
	4.	Increase monitoring frequency;		necessary to assure their effectiveness and advise	3.	Require Contractor to propose remedial measures		to IEC within 3 working days of notification;
	5.	Carry out analysis of Contractor's working		the ER accordingly;		for the analysed noise problem;	3.	Implement the agreed proposals;
		procedures to determine possible mitigation to be	3.	Supervise the implementation of remedial	4.	Ensure remedial measures properly implemented;	4.	Resubmit proposals if problem still not under
		implemented;		measures.	5.	If exceedance continues, consider what portion of		control;
	6.	Inform IEC, ER and EPD the causes and actions				the work is responsible and instruct the Contractor	5.	Stop the relevant portion of works as determined
		taken for the exceedances;				to stop that portion of work until the exceedance is		by the ER until the exceedance is abated.
	7.	Assess effectiveness of Contractor's remedial				abated.		
		actions and keep IEC, EPD and ER informed of						
		the results;						
	8.	If exceedance stops, cease additional monitoring.						

Limit Levels and Action Plan for Landfill Gas

Parameter	Limit Level	Action				
	<19%	• Ventilate to restore oxygen to >19%				
Owngon		• Stop works				
Oxygen	<18%	• Evacuate personnel/prohibit entry				
		• Increase ventilation to restore oxygen to >19%				
	> 100/ LEL (i.e. $> 0.50/$ by volume)	Prohibit hot works				
	>10% LEL (i.e. > 0.5% by volume)	• Ventilate to restore methane to <10% LEL				
Methane		• Stop works				
	>20% LEL (i.e. > 1% by volume)	• Evacuate personnel / prohibit entry				
		• Increase ventilation to restore methane to <10% LEL				
	>0.5%	• Ventilate to restore carbon dioxide to $< 0.5\%$				
Carbon		• Stop works				
Dioxide	>1.5%	• Evacuate personnel / prohibit entry				
		• Increase ventilation to restore carbon dioxide to <0.5%				

APPENDIX M SUMMARIES OF ENVIRONMENTAL COMPLAINT, WARNING, SUMMON AND NOTIFICATION OF SUCCESSFUL PROSECUTION

# Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

 $\label{eq:spectral_system} \begin{array}{l} \textbf{Appendix} \ \textbf{M} - \textbf{Summary of environmental complaint, warning, summon and notification of successful prosecution} \end{array}$ 

**Reporting Month:** July 2020

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A

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

APPENDIX N SUMMARY OF EXCEEDANCE

### Contract No. ED/2018/04

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron

# **Appendix N – Summary of Exceedance**

# **Reporting Period: July 2020**

- (A) Exceedance Report for Air Quality (NIL in the reporting month)
- (B) Exceedance Report for Construction Noise (NIL in the reporting month)
- (C) Exceedance Report for Landfill Gas (NIL in the reporting month)

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name		01V2 Start	t 01V2 Finish	2020 2021
	Dur	1		January         February         March         April         May         June         July         August         September         October         November         December         January         February           9         05         12         19         26         02         09         16         23         01         08         15         22         29         05         12         19         26         02         09         16         23         30         06         13         20         27         04         11         18         25         01         08         15         22         29         06         13         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         23         30         06         13         20         27         04         11         18         25         01         08         15         22         29         06         13         20         27         04         11         18         25         01         08         15         22         29         06         13         20 </th
ED/2018/04 TRUNK ROAD T2	442	02-Dec-19	02-Jun-21	
DESIGN SUBMISSION & APPROVAL	369	09-Dec-19	09-Mar-21	
GENERAL	355		24-Feb-21	
Project Design Plan	355 94	12-Dec-19 23-Dec-19	24-Feb-21 21-Apr-20	Project Design Plan
			-	
Project Design Plan - 2nd Sub	68	23-Dec-19	17-Mar-20	Project Design Plan - 2nd Sub
Project Design Plan - 2nd Review	35	18-Mar-20	21-Apr-20	Project Design Plan, - 2nd Review ◆ Project Design Plan, - Approval
Project Design Plan - Approval	0 57	10 Doc 10	21-Apr-20	
Design Memorandum		19-Dec-19	02-Mar-20	The Memorandum 1 at Sub
Design Memorandum - 1st Sub	0		19-Dec-19	bri Memorandum - 1st Sub
Design Memorandum - Review	28	20-Dec-19	16-Jan-20	Deisign Memorandum Review
Design Memorandum - 2nd Sub	12	17-Jan-20	03-Feb-20	Design Memorandum - 2nd Slub
Design Memorandum - Final Review	28	04-Feb-20	02-Mar-20	Design Memorandum - Final Review
Design Memorandum - Approval	0	02-Mar-20	02-Mar-20	Crowd Investigation
Ground Investigation Report - Kai Tak Area	237	02-Jan-20	19-Oct-20	Ground Investigation
Ground Investigation - Mobilization	24	02-Jan-20	01-Feb-20	Ground Investigation - Mobilization
Ground Investigation - South Apron Area	72	03-Feb-20	02-May-20	Ground Investigation - South Apron Area
Ground Investigation Report Vol 1 - Prepare & submit 1st draft	48	04-May-20	29-Jun-20	Ground Investigation Report Vol 1 - Prepare & submit 1st draft
Ground Investigation Report Vol 1 - 1st Sub	0	29-Jun-20	29-Jun-20	Ground (nvestigation Report Vol 1 -: 1st Sub
Ground Investigation Report Vol 1 - Review	28	30-Jun-20	27-Jul-20	Ground Investigation Report Vol 1 -: Review
Ground Investigation Report Vol 1 - Resubmission	48	28-Jul-20	21-Sep-20	Ground Investigation Report Vol 1 - Resubmission
Ground Investigation Report Vol 1 - 2nd Sub	0		21-Sep-20	Ground Investigation Report Vol 1 - 2nd Sub
Ground Investigation Report Vol 1 - 2nd Sub Review	28	22-Sep-20	19-Oct-20	Ground Investigation Report Vol 1 - 2nd Sub Review
Ground Investigation Report Vol 1 - Approval	0	20 A - 20	19-Oct-20	◆ Ground Investigation Report Vol 1 - Approval
Ground Investigation Report - Tunnel	143		17-Oct-20	
Ground Investigation - Marine Gl	85	28-Apr-20	08-Aug-20	Ground Investigation - Marine Gl
Ground Investigation Report Vol 2 - Prepare & submit 1st draft	12	10-Aug-20	22-Aug-20	Grbund Investigation Report Vol 2 - Prepare & submit 1st draft
Ground Investigation Report Vol 2 - 1st Sub	0		22-Aug-20	♦ Ground Investigation Report Vol 2 - 1st Sub
Ground Investigation Report Vol 2 - Review 1st Sub	28	23-Aug-20	19-Sep-20	Ground Investigation Report Vol 2 - Review 1st Sub
Ground Investigation Report Vol 2 - 2nd Sub	0	1	19-Sep-20	♦ Ground Investigation Report Vol 2 - 2nd Sub
Ground Investigation Report Vol 2 - Review 2nd Sub	28	20-Sep-20	17-Oct-20	Ground Investigation Report Vol 2 - Review 2nd Sub
Ground Investigation Report Vol 2 - Approval	0	1	17-Oct-20	Ground Investigation: Report Vol 2 - Approval
Construction Traffic Impact Assessment - Kai Tak Area	162		04-Aug-20	Construction Traffic Impact Assessment - Kai Tak Area
CTIA Kai Tak Area - Prepare & submit 1st draft	90	16-Jan-20	09-May-20	CTIA/Kai Tak Area - Prepare & submit 1st diaft
CTIA Kai Tak Area - 1st Sub	0		09-May-20	◆ CTIA:KaiTak Area - 1st Sub
CTIA Kai Tak Area - Review	28	10-May-20	06-Jun-20	CTIA Kai Tak Area - Bever
CTIA Kai Tak Area - Resubmission	24	08-Jun-20	07-Jul-20	CTIA Kai Tak Area - Resubmission
CTIA Kai Tak Area - 2nd Sub	0	07-Jul-20	07-Jul-20	CTIA Kaji Tak Area - 2nd Sub
CTIA Kai Tak Area - Approval	28	08-Jul-20	04-Aug-20	CTI/A Kai Ták Area - Approva
CTIA Kai Tak Area - Approval	0		04-Aug-20	◆ CTIA Kai Tak Area - Approva
Construction Traffic Impact Assessment - Lam Tin Area	86	16-Mar-20	02-Jul-20	V Construction Traffic Impact Assessment - Lam Tin Area
CTIA Lam Tin Area - Prepare & submit 1st draft	30	16-Mar-20	23-Apr-20	CTI/A Lam Tin Area - Prepare & submit 1st draft
CTIA Lam Tin Area - 1st Sub	0		23-Apr-20	◆ C∏A Lam Tin Area - 1st Sub
CTIA Lam Tin Area - Review	28	24-Apr-20	21-May-20	CTIA Lam Tin Area - Review
CTIA Lam Tin Area - Resubmission	12	22-May-20	04-Jun-20	CTIA Lam Tin Area - Resubmission
CTIA Lam Tin Area - 2nd Sub	0		04-Jun-20	◆ CTIA Lam Tin Area - 2nd Sub
CTIA Lam Tin Area - Approval	28	05-Jun-20	02-Jul-20	CTiA Liam Tin Area - Approval
CTIA Lam Tin Area - Approval	0	02-Jul-20	02-Jul-20	CTIA Lam Tin Area - Approval
Durability Assessment Report	71	11-Mar-20	09-Jun-20	v terreta ter
Durability Assessment Report - 1st Sub	0		11-Mar-20	Durability Assessment Report - 1st Sub
Durability Assessment Report - Review	28	12-Mar-20	08-Apr-20	Durability Assessment Report - Review
Durability Assessment Report - Resubmission	24	09-Apr-20	12-May-20	Durability Assessment Report - Resubnission
Durability Assessment Report - 2nd Sub	0		12-May-20	◆ Durability Assessment Report - 2nd Sup
Durability Assessment Report - Approval	28	13-May-20	09-Jun-20	Durability Assessment Report - Approval
Durability Assessment Report - Approval	0	09-Jun-20	09-Jun-20	Durability Assessment Report - Approval
Page 1 of 26    Milestone				Date Revision Checked Approved

- Data Date: 26-Jul-20
- Critical Activity Progress Milestone

Progress Bar Summary

Planned Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V1	SPa/LLo	WYu

BOUYGUES TRAVAUX PUBLICS

Activity Name	Dur	01V2 Start	01V2 Finish				2020			• • • •	·		2021
				January 9   05   12   19   26	February March	April May 29 105 12 19 26 103 10 17 24 13	June   31   07   14   21   28   05	July 5   12   19   26	August September C		ember Decen		
ACABAS - Western Tunnel Portal and Concrete Finishes for Reta	170	13-Mar-20	08-Oct-20										nel Portal and Concre
DDA - Draft - Preparation by Designer	72	13-Mar-20	11-Jun-20				DDA - Draft -	- Preparation	by Designer				
DDA - Draft - Final Review and prepare for 1st Sub	24	12-Jun-20	11-Jul-20					DDA Dr	aft - Final Review and prepare for 1st S	ub	· · · · · · · · · · · · · · · · · · ·		
DDA - 1st Sub	0	11-Jul-20	11-Jul-20		T			🔶 DDA 1s	t Sub				
DDA - Review by SO	28	12-Jul-20	08-Aug-20						DDA - Review by SO				
DDA - Review by IP / DC	28	12-Jul-20	08-Aug-20						DDA - Review by SO DDA - Review by IP / DC				
DDA - Further information required by SO	22	10-Aug-20	03-Sep-20						DDA - Further into	rmation required by	/ SO		
DDA - 2nd Sub	0		03-Sep-20						◆ DDA - 2nd Sub				
DDA - 2nd Review by SO	35	04-Sep-20	08-Oct-20							DDA - 2nd Reviev	vbySO		
DDA - SO Consent for Construction	0		08-Oct-20						•	DDA - SO Conser	nt for Construction		
ACABAS- Footbridge FB-02	99	09-Oct-20	05-Feb-21								V		
DDA - Draft - Preparation by Designer	48	09-Oct-20	04-Dec-20							I I I I I		- Draft - Preparatio	
DDA - Draft - Final Review and prepare for 1st Sub	12	05-Dec-20	18-Dec-20									DDA - Draft - Fi	nal Review and prepa
DDA - 1st Sub	0		18-Dec-20									DDA - 1st Sub	
DDA - Review by SO	28	19-Dec-20	15-Jan-21										DDA - Review by SO
DDA - Review by IP / DC	28	19-Dec-20	15-Jan-21										DDA - Review by IP /
DDA - Further information required by SO	18	16-Jan-21	05-Feb-21	· · · · ·									DDA - Fur
CLP Substation - Earth Mat Design	69	30-Jan-20	23-Apr-20			CLP Substation - Ea	arth Mat Design						
DDA - Draft - Final Review and prepare for 1st Sub	18	30-Jan-20	19-Feb-20			eview and prepare for 1st Sub							
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DDA - Review by SO	28	20-Feb-20	18-Mar-20			- Review by SO							
DDA - Review by IP / DC	28	20-Feb-20	18-Mar-20			- Review by IP / DC							
DDA - Further information required by SO	1	19-Mar-20	19-Mar-20			- Further information required by S	SO			· · · · · · · · · · · · · · · · · · ·			
DDA - 2nd Sub	0		19-Mar-20		◆ DDA	-2nd Sub							
DDA - 2nd Review by SO	35	20-Mar-20	23-Apr-20			DDA - 2nd Review b							
DDA - SO Consent for Construction	0		23-Apr-20			DDA - SO Consent					· · · · · · · · · · · · · · · · · · ·		
CLP Substation - Structural Design	72	05-Mar-20	03-Jun-20		▼		CLP Substatio	on - Structura	Design				
DDA - Draft - Final Review and prepare for 1st Sub	21	05-Mar-20	28-Mar-20			DDA - Draft - Final Review and pro	epare for 1st Sub						
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DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20			DDA + Review by	P/DC						
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CLP Substation - GBP	73	20-Feb-20	21-May-20					Substatior - 0	BP	· · · · · · · · · · · · · · · · · · ·			
DDA - Draft - Final Review and prepare for 1st Sub	21	20-Feb-20	14-Mar-20		+	Draft - Final Review and prepare fo	r 1st Sub						
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DDA - Review by SO	28	15-Mar-20	11-Apr-20			DDA - Review by SO							
DDA - Review by IP / DC	28	15-Mar-20	11-Apr-20			DDA - Review by IP / DC							
DDA - Further information required by SO	3	14-Apr-20	16-Apr-20			DDA - Further informati	on; required by; SO;			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
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DDA - SO Consent for Construction	0	20 Eab 20	21-May-20				A - SO Consent for C		▼ CLP Substation - Building Services		Itilitico Decido		
CLP Substation - Building Services and Underground Utilities De	73	20-Feb-20	21-May-20									+	
DDA - Draft - Final Review and prepare for 1st Sub	21	20-Feb-20	14-Mar-20			Draft - Final Review and prepare fo							
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DDA - Review by SO DDA - Review by IP / DC	28	15-Mar-20 15-Mar-20	11-Apr-20			DDA - Review by SO					<u>.</u>		
·	28		11-Apr-20										
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DDA - Draft - Final Review and prepare for 1st Sub	36	20-Feb-20	01-Apr-20										
Page 2 of 26    Milestone				<b>T</b> ! !		Lafaa 1 1				Date	Revision	Checked	Approved
Data Date: 26-Jul-20 Planned Bar		ED/20	J18/04	Irunk	Road 12 and	Infrastructure	e vvorks			05-Nov-19	00V0	WYu	
Critical Activity			for		opments at S	outh Anron			BOUYGUES	18-Dec-19	00V1	WYu	
<ul> <li>Progress Milestone</li> </ul>			101		opinionio al O				TRAVAUX PUBLICS	22-Feb-20	01V0	SPa/LLo	WYu
Progress Bar		1	<b>-</b>			<b>-</b>				09-Apr-20	01V1	SPa/LLo	WYu
Summary		Ιh	ее Мо	nths Rolling I	rogramme				17-Jul-20	01V1	SPa/LLo	WYu	
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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021
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DDA - 1st Sub	0		01-Apr-20	♦ DDA - 1st Şub
DDA - Review by SO	28	02-Apr-20	29-Apr-20	DDA - Review by SO
DDA - Review by IP / DC	28	02-Apr-20	29-Apr-20	DDA - Review by IP / DC
DDA - Further information required by SO	3	02-May-20	05-May-20	DDA - Further information required by \$0
DDA - 2nd Sub	0	05-May-20	05-May-20	DDA - 2nd Sub DDA - 2nd Review by SO
DDA - 2nd Review by SO	35	06-May-20	09-Jun-20	
DDA - SO Consent for Construction	0	09-Jun-20	09-Jun-20	DDA - SO Consent for Construction V CLP:Substation - E&M Design
CLP Substation - E&M Design	104	27-Feb-20	06-Jul-20	
DDA - Draft - Final Review and prepare for 1st Sub	48	27-Feb-20	27-Apr-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0	20. 4 == 20.	27-Apr-20	DDA - 1st Sµb → DDA - Review by SO
DDA - Review by SO DDA - Review by IP / DC	28 28	28-Apr-20 28-Apr-20	25-May-20 25-May-20	DDA - Review by P/ DC
DDA - Review by IP / DC DDA - Further information required by SO	6	26-May-20	23-iviay-20 01-Jun-20	DDA - Further information required by SO
DDA - 2 nd Sub	0	01-Jun-20	01-Jun-20	DDA - 2nd Sub
DDA - 2nd Review by SO	35	02-Jun-20	06-Jul-20	DDA - 2nd Review by SD
DDA - SO Consent for Construction	0	06-Jul-20	06-Jul-20	DDA - SD Consent for Construction
AIP Project Alignment	61	12-Dec-19	27-Feb-20	
AIP - Draft - Final Review and prepare for 1st Sub	12	12-Dec-19		AIP - Draft - Final Review, and prepare for 1st Sub
AIP - 1st Sub	0			AIP - 1st Şub
AIP - Review by SO	28	28-Dec-19	24-Jan-20	AIP - Review by SO
AIP - Review by IP / DC	28	28-Dec-19	24-Jan-20	AIP - Review by IP / DC
AIP - 2nd Sub	6	25-Jan-20	30-Jan-20	AIP - 2nd Sub
AIP - Further information required by SO	0		30-Jan-20	AIP - Further information required by SO
AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		27-Feb-20	♦ AIP - SO Conseptifor DDA Submission
DDA Project Alignment	109	28-Dec-19	14-May-20	V DDA Project Alignment
DDA - Draft - Preparation by Designer	36	28-Dec-19	12-Feb-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	13-Feb-20	26-Feb-20	DDA - Draft - Final:Review and prepare for 1st Sub
DDA - 1st Sub	0		26-Feb-20	◆ DDA - 1st \$ub
DDA - Review by SO	28	27-Feb-20	25-Mar-20	DDA - Review by SO
DDA - Review by IP / DC	28	27-Feb-20	25-Mar-20	DDA - Review by IP / DC
DDA - Further information required by SO	12	26-Mar-20	09-Apr-20	DDA - Further information required by SO
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DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	DDA - 2nd Review by SO DDA - \$0 Corisent for Construction
DDA - SO Consent for Construction	0	14-May-20	14-May-20	
AIP Roadworks and Street Furniture	120	02-Jul-20	21-Nov-20	✓ AllP Roadworks and Street Furniture:
AIP - Draft - Preparation by Designer	36	02-Jul-20	12-Aug-20	AIP - Draft + Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	18	13-Aug-20	02-Sep-20	AIP - Draft- Final Review and prepare for 1st Sub
AIP - 1st Sub AIP - Review by SO	0 28	03-Sep-20	02-Sep-20 30-Sep-20	AIP - 1\$t Sub AIP - Review by SO
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AIP - SO Consent for DDA Submission	0		21-Nov-20	◆ AiP -:SO Consent for DDA Sµbmission
DDA Roadworks and Street Furniture	75	23-Nov-20	24-Feb-21	
DDA - Draft - Preparation by Designer	36	23-Nov-20	06-Jan-21	DDA - Drafij - Preparation b
DDA - Draft - Final Review and prepare for 1st Sub	18	07-Jan-21	27-Jan-21	DDA - Draft - Fi
DDA - 1st Sub	0		27-Jan-21	● DDA - 1st \$ub
DDA - Review by SO	28	28-Jan-21	24-Feb-21	
DDA - Review by IP / DC	28	28-Jan-21	24-Feb-21	
AIP Traffic Sign, Road Marking & Sign Gantry	75	23-Nov-20	24-Feb-21	▼ AIP Traffic Sign, Road Marking & Sign 🤇
AIP - Draft - Preparation by Designer	36	23-Nov-20	06-Jan-21	AIP - Draft Preparation by
AIP - Draft - Final Review and prepare for 1st Sub	18	07-Jan-21	27-Jan-21	AIP - Draft- Fit
AIP - 1st Sub	0		27-Jan-21	AIP - 1şt Sμb
Page 3 of 26 <ul> <li>Milestone</li> <li>Planned Bar</li> <li>Critical Activity</li> <li>Progress Milestone</li> <li>Progress Bar</li> </ul>		ED/20	for	Trunk Road T2 and Infrastructure Works Developments at South Apron Approved BOUYGUES TRAVAUX PUBLICS
Summary			IN	ree Months Rolling Programme

Activity Name		01V2 Start	01V2 Finish	2020										2021	
					nuary February 12 19 26 02 09 16 1	March	April	May	June	July	August         September         October         No           19         26         02         09         16         23         30         06         13         20         27         04         11         18         25         01         0		ecember 6 13 20 27 1	January 03 10 17 24	Februa
AIP - Review by SO	28	28-Jan-21	24-Feb-21						4 01 0						
AIP - Review by IP / DC	28	28-Jan-21	24-Feb-21							1					
AIP Street Lighting (AGR/ DPR/ S20/ L10/ L18)	93	01-Aug-20	20-Nov-20						Y		AIP Street Lighting (AGR/ DPR/ S2	0/L10/L18)			
AIP - Draft - Preparation by Designer	24	01-Aug-20	28-Aug-20								AIP - Draft - Preparation by Designer				·
AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20					++-		· · · · · · · · · · · · · · · · · · ·	AlP - Draft - Final Review and p	repare for 1st S	Sub		4 4 4
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AIP - Review by SO	28	12-Sep-20	09-Oct-20					++++-			AIP - Review by	SO	+++-++		· -¦
AIP - Review by IP / DC	28	12-Sep-20	09-Oct-20		- J			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	AIP - Review by				· -l +l 
AIP - Further information required by SO	12	10-Oct-20	23-Oct-20								AIP - Fu	ther information	n required by	SO	
AIP - 2nd Sub	0		23-Oct-20					++++-			AIP - 2n	l Sub	-+		· - <mark>-</mark>
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20									all a state and a set of a	d Review by	60	
AIP - SO Consent for DDA Submission	0		20-Nov-20					++++-		+++++++++++		♦ AIP - SC	O Consent for	DDA Submiss	sion
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	66	21-Nov-20	09-Feb-21							· +	······································	DDA :	Street Lighting	(AGR/DPR/	\$20/L10/I
DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21					· · · · · · · · · · · · · · · · · · ·					<u></u>		Draft - Prer
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21												
DDA Permanent Utility Design	93	22-Oct-20	15-Feb-21									DDA Pe	rmanent Utility	/ Desian	
DDA - Draft - Preparation by Designer	48	22-Oct-20	17-Dec-20					+						Draft - Prepara	ation by De
DDA - Draft - Final Review and prepare for 1st Sub	24	18-Dec-20	18-Jan-21					+							)A - Diraft - F
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DDA - Review by SO DDA - Review by IP / DC	20	19-Jan-21	15-Feb-21 15-Feb-21												· - ;
AIP Structural Health Monitoring System (SHMS)	95	31-Aug-20	22-Dec-20					++			······································	<u></u>		Structural Hea	alth Monitor
											AlP - Draft - Preparatio		·		
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AIP - Review by SO	28	14-Oct-20						·····				AIP - Review t			
AIP - Review by IP / DC	28	14-Oct-20	10-Nov-20					· · · · · · · · · · · · · · · · · · ·					Further inform	ation required	hu so
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AIP - SO Consent for DDA Submission	0	22 Dec 20	22-Dec-20											- SO Consent	
DDA Structural Health Monitoring System (SHMS)	36	23-Dec-20	05-Feb-21	l								÷			
DDA - Draft - Preparation by Designer	36	23-Dec-20	05-Feb-21	l						; ;   ; ; ; ; ; 					DDA
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AIP - Draft - Preparation by Designer	24	01-Aug-20	28-Aug-20	<u> </u>							AIP - Draft - Preparation by Designer				
AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20	<b> </b>	·						AIP - Draft - Final Review and p	repare for 1st S	Sub		
AIP - 1st Sub	0		11-Sep-20	<b> </b>							◆ AIP - 1st \$ub				
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AIP - Review by IP / DC	28	12-Sep-20	09-Oct-20	ļ						· · · · · · · · · · · · · · · · · · ·	AIP - Review by				
AIP - Further information required by SO	12	10-Oct-20	23-Oct-20									ther information	n required by	SO	
AIP - 2nd Sub	0		23-Oct-20	<b> </b>				· · · · · · · · · · · · · · · · · · ·			◆ AIP - 2n				
AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20							· · · · · · · · · · · · · · · · · · ·			d Review by S		
AIP - SO Consent for Construction	0		20-Nov-20	<b> </b>								◆ AIP - SC	Consent for	Construction	·
DDA Landscape Design	66	21-Nov-20	09-Feb-21										-+		DI V
DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21	L.				ļ						DDA -	Draft - Prep
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21												DI
MISC. TEMP WORKS	181	14-Dec-19	28-Jul-20								WISC TEMP WORKS				
Temporary works and Dewatering Measures for Excavation < 7m	114	14-Dec-19	08-May-20								Temporary works and Dewatering Measures for Exca	/ation < 7m			
DDA - Draft - Preparation by Designer	21	14-Dec-19	10-Jan-20		DDA - Draft - Preparat	ion by Designer							-+		
DDA - Draft - Final Review and prepare for 1st Sub	12	11-Jan-20	24-Jan-20		DDA - Draft - F	inal Review and pr	epare for 1st Sub								
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DDA - Review by IP / DC	28	25-Jan-20	21-Feb-20	- <u>-</u>		DDA - Review by		++++-		· · · · · · · · · · · · · · · · · · ·					
DDA - Further information required by SO	36	22-Feb-20	03-Apr-20				DDA - Furthe	r information i	equired by S	)					
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- Miles
- Data Date: 26-Jul-20
- Critical Activity

  Progress Milestone
  Progress Bar

Summary

Planned Bar

# ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme

Date	Revision	Checked	Approved
05-Nov-19	00V0	WYu	
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V1	SPa/LLo	WYu

Activity Name		01V2 Start	01V2 Finish	
				January February March April May June July August September October November December January February 9 05 12 19 26 02 09 16 23 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 2
DDA - 2nd Sub	0		03-Apr-20	
DDA - 2nd Review by SO	35	04-Apr-20	08-May-20	
DDA - SO Consent for Construction	0	08-May-20	08-May-20	DDA - SO Consent for Construction
Typical Design of Formworks and Falseworks	100	16-Mar-20	18-Jul-20	🗸 🗸 Typical Design of Formworks and Falseworks
DDA - Draft - Preparation by Designer	24	16-Mar-20	16-Apr-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	17-Apr-20	02-May-20	
DDA - 1st Sub	0		02-May-20	♦ DDA + 1st Sub
DDA - Review by SO	28	03-May-20	30-May-20	
DDA - Review by IP / DC	28	03-May-20	30-May-20	DDA; Review py IP // DC
DDA - Further information required by SO	12	01-Jun-20	13-Jun-20	
DDA - 2nd Sub	0		13-Jun-20	
DDA - 2nd Review by SO	35	14-Jun-20	18-Jul-20	DDA 2nd Review by SO
DDA - SO Consent for Construction	0	18-Jul-20	18-Jul-20	DDA SQ Consent for Construction
Seawall checkings for temporary cases (Loading / Unloading)	123	07-Feb-20	08-Jul-20	V Seawall checkings for temporary cases (Loading / Unicading)
DDA - Draft - Preparation by Designer	36	07-Feb-20	19-Mar-20	DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub
DDA - Draft - Final Review and prepare for 1st Sub	16	20-Mar-20	08-Apr-20	
DDA - 1st Sub	0	00 4	08-Apr-20	♦ DDA - 1st Sub DDA - Review by SO
DDA - Review by SO	28	09-Apr-20	06-May-20	
DDA - Review by IP / DC	28 24	09-Apr-20	06-May-20 03-Jun-20	
DDA - Further information required by SO DDA - 2nd Sub	24	07-May-20 03-Jun-20	03-Jun-20 03-Jun-20	
DDA - 2nd Sub DDA - 2nd Review by SO	35	03-Jun-20	03-Jul-20	DDA - 2nd Review/by \$0
DDA - SO Consent for Construction	0	04-Jul-20	08-Jul-20	◆ DDA - \$O Consent for;Construction
Barging Point design at Portion P	140	07-Feb-20	28-Jul-20	V Baroint Point design at Portion P
	48	07-Feb-20	02-Apr-20	DDA - Draft - Preparation by Designer
DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub	18	07-Feb-20 03-Apr-20	28-Apr-20	DDA - Draft - Frieparation by Designer
DDA - Drait - Thai Keview and prepare for ist Sub	0	03-Api-20	28-Apr-20	◆ DDA - 1st Sub
DDA - Review by SO	28	29-Apr-20	26-May-20	
DDA - Review by IP / DC	28	29-Apr-20	26-May-20	
DDA - Further information required by SO	20	27-May-20	23-Jun-20	
DDA - 2nd Sub	0	23-Jun-20	23-Jun-20	
DDA - 2nd Review by SO	35	24-Jun-20	28-Jul-20	DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		28-Jul-20	DDA - SO Consentifor Construction
DEPRESSED ROAD [DPR]	354	09-Dec-19	19-Feb-21	
AIP DPR - ELS & PCRA	64	09-Dec-19	27-Feb-20	AIP DPR-ELS & PCRA
AIP - Draft - Final Review and prepare for 1st Sub	12	09-Dec-19	21-Dec-19	
All - Ist Sub	0	05-000-15	21-Dec-19	
AIP - Review by SO	28	22-Dec-19	18-Jan-20	
AIP - Review by GEO via SO	28	22-Dec-19	18-Jan-20	
AIP - Review by IP / DC	28	22-Dec-19	18-Jan-20	
AIP - Update & prepare for 2nd Sub	7	20-Jan-20	30-Jan-20	
AIP - 2nd Sub	0		30-Jan-20	
AIP - 2nd Review by SO	28	31-Jan-20	27-Feb-20	
AIP - SO Consent for DDA Submission	0		27-Feb-20	AIP - SO Consent for DDA Submission
AIP DPR - Permanent Structure	87	13-Jan-20	04-May-20	▼ AP DPR - Permainent Structure
AIP - Draft - Final Review and prepare for 1st Sub	24	13-Jan-20	12-Feb-20	AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0		12-Feb-20	
AIP - Review by SO	28	13-Feb-20	11-Mar-20	AIP - Reviéw by SQ
AIP - Review by GEO via SO	28	13-Feb-20	11-Mar-20	AIP - Review by GEO via SO
AIP - Review by IP / DC	28	13-Feb-20	11-Mar-20	AIP - Review by IP / DC
AIP - Prepare for 2nd Sub	24	12-Mar-20	04-Apr-20	AIP - Prepare for 2nd Sub
AIP - 2nd Review by SO	28	06-Apr-20	03-May-20	
AIP - 2nd Sub	0		06-Apr-20	♦ AIP - 2nd Suib
AIP - SO Consent for DDA Submission	0		04-May-20	
DDA DPR - ELS Design (Sheet Pile)	106	23-Dec-19	07-May-20	▼ DDA DPR - ELS Design (Sheet Pile)
Page 5 of 26   Milestone				Date Revision Checked Approved
Planned Bar		FD/20	)18/04	Trunk Road T2 and Infrastructure Works
Data Date: 26-Jul-20				
Critical Activity ♦ ♦ Progress Milestone Progress Bar			for	r Developments at South Apron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
				TRAVAUX PUBLICS 0110 0110 0100 0100 0100 0100 0100 01
			Th	hree Months Rolling Programme
Summary			111	

Activity Name Dur	01V2 Start	01V2 Finish	2020 2021 January February March April May June July August September October November December January February
		9 0	5 12 19 26 02 09 16 23 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 2
DDA - Draft - Preparation by Designer 24	23-Dec-19	22-Jan-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub 16	23-Jan-20	13-Feb-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub 0	00 5 1 00	27-Feb-20	◆ DDA - 1st Sub: DDA - Review:bySO
DDA - Review by SO 28 DDA - Review by GEO via SO 28	28-Feb-20	26-Mar-20 26-Mar-20	DDA - Review by SO
DDA - Review by GEO via SO 28 DDA - Review by IP / DC 28	28-Feb-20 28-Feb-20	26-Mar-20 26-Mar-20	DDA - Review.by/BC / Via SO
DDA - Review by IF / DC 23 DDA - Further information required by SO 6	20-Feb-20 27-Mar-20	02-Apr-20	DDA - Further information required by SO
DDA - 2nd Sub 0	21-11101-20	02-Apr-20	♦ DDA - 2nd:Sub
DDA - 2nd Review by SO 35	03-Apr-20	07-May-20	DDA - 2nd Review by SO
DDA - SO Consent for Construction 0		07-May-20	◆ DDA - SO Corisent for Construction
DDA DPR - ELS Design (Deep section + Perm. + Foundation) 117	23-Dec-19	20-May-20	DDA DPR + ELS Design (Deep section + Perm. + Foundation)
DDA - Draft - Preparation by Designer 36	23-Dec-19	08-Feb-20	DDA + Draft - Preparation, by Designer
DDA - Draft - Final Review and prepare for 1st Sub 24	10-Feb-20	07-Mar-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub 0		07-Mar-20	◆ DDA÷1st \$ub
DDA - Review by SO 28	08-Mar-20	04-Apr-20	DDA - Review by SO
DDA - Review by GEO via SO 28	08-Mar-20	04-Apr-20	DDA - Review by GEO via Store in the second se
DDA - Review by IP / DC 28	08-Mar-20	04-Apr-20	DDA - Review by IP / DC
DDA - Further information required by SO 6	06-Apr-20	15-Apr-20	DDA - Further information required by SD
DDA - 2nd Sub 0	40 4 00	15-Apr-20	♦ DDA - 2nd Sub: DDA - 2nd Review;by \$0
DDA - 2nd Review by SO 35	16-Apr-20	20-May-20	DDA - 2nd Reviewiby SO ◆ DDA - SO Consent fpr/Construction
DDA - SO Consent for Construction 0 DDA DPR - Horizontal Element + Pump Test + DCRA 125	28-Feb-20	20-May-20 31-Jul-20	DDA - SO Consent IDr.Construction
DDA Drn - Honzontal Element + Pump Test + DChA 123 DDA - Draft - Preparation by Designer 36	28-Feb-20	14-Apr-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub 18	15-Apr-20	07-May-20	DDA - Draft - Final Review and prepare fo 1st Sub
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DDA - Review by IP / DC 28	08-May-20	04-Jun-20	DDA - Reviewby IP / DC
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DDA - 2nd Sub 0	26-Jun-20	26-Jun-20	PDA -2nd Sub
DDA - 2nd Review by SO 35	27-Jun-20	31-Jul-20	DDA - (2nd Review by SO)
DDA - SO Consent for Construction 0		31-Jul-20	DDA - SO Consent for Construction
Technical Note - King Post 127	13-Feb-20	18-Jul-20	V Technical Note + King Post
DDA - Draft - Preparation by Designer 37	13-Feb-20	26-Mar-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub 18	27-Mar-20	21-Apr-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - Review by SO 28	04-May-20	31-May-20	DDA- Rèview bý SO
DDA - 1st Sub 0		04-May-20	◆ DDA'- 1st Sub
DDA - Review by IP / DC 28	04-May-20	31-May-20	
DDA - Further information required by SO 12 DDA - 2nd Sub 0	01-Jun-20	13-Jun-20 13-Jun-20	DDA + Futther information required by SO ◆ DDA + 2nd Sub
DDA - 2nd Review by SO 35	14-Jun-20	18-Jul-20	DDA- 2nd Réview bý SQ
DDA - SO Consent for Construction 0		18-Jul-20	◆ DDA - SO Cansent for Construction
DDA DPR - Permanent Structure 111	21-May-20	29-Sep-20	DDA DPR - Permanent Structure
DDA - Draft - Preparation by Designer 24	21-May-20	17-Jun-20	DDA- Øraft - Prep <mark>a</mark> ration by Designer
DDA - Draft - Final Review and prepare for 1st Sub 21	18-Jun-20	14-Jul-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub 0	14-Jul-20	14-Jul-20	DDA - 1st Sub
DDA - Review by SO 28	15-Jul-20	11-Aug-20	DDA - Review by SO
DDA - Review by IP / DC 28	15-Jul-20	11-Aug-20	DDA - Review by IP / DC
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DDA - 2nd Sub 0	00.4 00	25-Aug-20	◆ DDA - 2nd Sub
DDA - 2nd Review by SO 35 DDA - SO Consent for Construction 0	26-Aug-20	29-Sep-20 29-Sep-20	DDA - 2nd Review by SO
DDA - SO Consent for Construction 0 DDA DPR - Portal Structure 114	30-Sep-20	29-Sep-20 19-Feb-21	
DDA - Draft - Preparation by Designer 30	30-Sep-20	06-Nov-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub 24	07-Nov-20	04-Dec-20	DDA - Draft - Final Review and prepare for 1s
DDA - Drait - Thian Keview and prepare for 1st Sub 224	0. 1107 20	04-Dec-20	◆ DDA - 1st/Sub
	1		
Page 6 of 26 <ul> <li>Milestone</li> </ul>		10/04 T.	Date Revision Checked Approved
Data Date: 26-Jul-20	ED/20	10/04 II	runk Road T2 and Infrastructure Works
Critical Activity		for D	Developments at South Apron BOUYGUES BO
Progress Milestone			
Progress Bar		Thra	
▼ Summary		IIIE	e Months Rolling Programme
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Activity Name	Dur	01V2 Start	01V2 Finish					2020				2021
				January 9 05 12 19 26	February	March 01 08 15 22	April May June	July	August   September   9 26 02 09 16 23 30 06 13 20 27		ecember Januar 6 13 20 27 03 10 17	<del> </del>
DDA - Review by SO	28	05-Dec-20	01-Jan-21								DDA - R	eview by SO
DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21					· · · · · · · · · · · · · · · · · · ·	·		DDA - R	eview by IP / DC
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21									DDA - Further informa
DDA - 2nd Sub	0		15-Jan-21		++++							DDA - 2nd Sub
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21		+++	++						
WEST VENTILATION BUILDING [WVB]	287	12-Mar-20	01-Mar-21		V		; -  ;;;;;;;;;;;;;;;;;;; -	· <del>;</del>		· _ · · · · · · · · · · · · · · · · · ·	-++-+-++-++-++-++-++-+++-++++++++++++	
AIP WVB - ELS Design & PCRA	82	23-Mar-20	04-Jul-20		++++++			V	AIP WVB - ELS Desig	in & PCRA		
AIP - Draft - Preparation by Designer	36	23-Mar-20	09-May-20				AP - Draft - Preparation	by Designer	······································	·		
AIP - Draft - Final Review and prepare for 1st Sub	24	11-May-20	06-Jun-20		· · · · · · · · · · · · · · · · · · ·				w and prepare for 1st Sub	• • • • • • • • • • • • • • • • • • • •		
AIP - 1st Sub	0	TT May 20	06-Jun-20				◆ A!P - 1s	· • -li •				
AIP - Review by SO	28	07-Jun-20	04-Jul-20		ļ				eview by \$O	• • • • • • • • • • • • • • • • • • • •		
AIP - Review by GEO via SO	28	07-Jun-20	04-Jul-20		· · · · · · · · · · · · · · · · · · ·				eview by GEO via SO			
AIP - Review by IP / DC	28	07-Jun-20	04-Jul-20		+++++				eview by IP / DC	• • • • • • • • • • • • • • • • • • • •	- +	
AIP - SO Consent for DDA Submission	0	04-Jul-20	04-Jul-20		· · · · · · · · · · · · · · · · · · ·				D Consent for DDA Submission	• • • • • • • • • • • • • • • • • • • •		
AIP WVB - Permanent Structure	99	12-Mar-20	14-Jul-20		· · · · · · · · · · · · · · · · · · ·			· +	✓ AIP WVB - Permanent S	tructure		
AIP - Draft - Final Review and prepare for 1st Sub	24	12-Mar-20	09-Apr-20				AIP - Draft - Final Review and prepare for	r:1st:Sub		· · · · · · · · · · · · · · · · · · ·	-+++++++++++++-	
AIP - 1st Sub	0	12-101-20	09-Apr-20				♦ AIP - 1st Sub		•	• <del>{</del>		
AIP - Review by SO	28	10-Apr-20	03-Api-20 07-May-20				AIP - Review by SO	+				
AIP - Review by IP / DC	28	10-Apr-20	07-May-20		+		AIP - Review by IP / DC	· <del> </del> - <del> </del> - <del> </del> <u> </u> -		╶╁╌╌┼╌╴┼╌╴┼╴╴┼╴╴┼╴╴┼		
All - Prepare for 2nd Sub	40	08-May-20	16-Jun-20		i			- Prepare for 2	2rd \$ub			
AIP - 2nd Sub	-+0	55 may 20	16-Jun-20					P:- 2nd Sub				
AIP - 2nd Review by SO	28	17-Jun-20	14-Jul-20		····				P - 2nd Review by SO			
AIP - SO Consent for DDA Submission	0	14-Jul-20	14-Jul-20		+++++				P-SOConsent for DDA Submission			
DDA WVB - ELS Design (DCRA + Dewatering & Pumping Test)	140	08-Jun-20	23-Nov-20		++++++					· · · · · · · · · · · · · · · · · · ·	DDA WVB - ELS I	Desian (DCRA + Dew
DDA - Draft - Preparation by Designer	39	08-Jun-20	24-Jul-20				· · · · · · · · · · · · · · · · · · ·		DDA - Draft - Preparation by Design	er	-+++++++++++++-	
DDA - Draft - Final Review and prepare for 1st Sub	24	25-Jul-20	24-5ul-20 21-Aug-20		·					teview and prepare for 1st Sub		
DDA - Drait - Mainteview and prepare for 1st Sub	0	23-341-20	21-Aug-20 21-Aug-20					· · · · · · · · · · · · · · · · · · ·	DDA - 1st:Sub			
DDA - Review by SO	28	22-Aug-20	18-Sep-20						DDA	- Review by SO		
DDA - Review by GEO via SO	28	22-Aug-20 22-Aug-20	18-Sep-20							- Review by GEO via SO		
DDA - Review by OLO Via SO DDA - Review by IP / DC	28	22-Aug-20 22-Aug-20	18-Sep-20					· • • • • • • • • • • • • • • • • • • •		- Review by IP / DC		
DDA - Further information required by SO	20	19-Sep-20	19-Oct-20							DDA - Further information	required by SO	
DDA - 2nd Sub	0	13-000-20	19-Oct-20					·		DDA - 2nd Sub		
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20				╞╶╞╶╌╞╌╌╞╌╶╞╌╞╌╞╌╞╌┊╴╡╴╴╞╴╴		•		2nd Review by SO	
DDA - SO Consent for Construction	0	20-001-20	23-Nov-20								SO Consent for Constru	uction
DDA WVB - Accommodation (SoA)	156	17-Jul-20	21-Jan-21					· • • • • • • • • • • • • • • • • • • •	/			
DDA - Draft - Preparation by Designer	52	17-Jul-20	15-Sep-20					····/		Draft - Preparation by Designer		
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Sep-20	15-Oct-20							DDA - Draft - Final Review a	nd prepare for 1st Sub	
DDA - Drait - mail Review and prepare for 1st Sub	0	10-3ep-20	15-Oct-20		÷			· • - • - • • • • • • • • • • • • • • •	······································	◆ DDA - 1st Sub		
DDA - Review by SO	28	16-Oct-20	12-Nov-20				╞╌╞╶╌┊╌╴┇╌╴╬╌╴╬╌╴╬╌╴╬╌╴╬╌╴╣╌╴╬╌╴╬╌╴		• • • • • • • • • • • • • • • • • • • •	DDA - Revie	why SO	
DDA - Review by 30 DDA - Review by IP / DC	28	16-Oct-20	12-Nov-20					· · · · · · · · · · · · · · · · · · ·		DDA - Revie		
DDA - Review by IF / DC DDA - Further information required by SO	30	13-Nov-20	12-100V-20 17-Dec-20		+		╞┼╧╍┊╍┊╍┊╴┼┊╴╴╴┊╴╴┊╴╴┤╴╴╴╴	+				formation required by
DDA - 2nd Sub	0	10 110 1-20	17-Dec-20		·		╞╌╞╌╌╞╌╴╡╌╴┝╴╴╡╡╴╴╞╴╴╞╴╴╡╴╴╞╴╴				◆ DDA 2nd Sub	
DDA - 2nd Review by SO	35	18-Dec-20	21-Jan-21					· + -	•			DDA - 2nd Review
DDA - SO Consent for Construction	0	.0 200 20	21-Jan-21		<u>.</u>					╶╌┊╌┊╴┊╴┊╴┊╴┊╴┊╴┊╴┊		DDA - SO Consen
DDA WVB - Permanent Structure	108	16-Oct-20	26-Feb-21					· • -     +				
DDA - Draft - Preparation by Designer	45	16-Oct-20	08-Dec-20					+			DDA - Draft - Prepara	tion by Desigher
DDA - Draft - Final Review and prepare for 1st Sub	12	09-Dec-20	22-Dec-20		+			· +	•	· · · · · · · · · · · · · · · · · · ·		Final Review and pre
DDA - Drait - mail Review and prepare for 1st Sub	0	00 D00-20	22-Dec-20 22-Dec-20		·		╞╶╞╴╧╌╌┡╌╴┩╌╌┡╴╴┤┇╴╴╡╌╴┡╶╴┩╴╴╣╴╴╞╶╴┩╴╴	· • • • • • • • • • • • • • • • • • • •			<ul> <li>DDA - 1st Sub</li> </ul>	
DDA - Ist Sub DDA - Review by SO	28	23-Dec-20	19-Jan-21					· + -				DDA - Review by S(
DDA - Review by 30 DDA - Review by IP / DC	28	23-Dec-20 23-Dec-20	19-Jan-21		ļ			· • • • • • • • • • • • • • • • • • • •				DDA - Review by IP
DDA - Further information required by SO	30	20-Jan-21	26-Feb-21					· •				
DDA VVB - ABWF	45	23-Dec-20	19-Feb-21		+			• +	····			
DDA - Draft - Preparation by Designer	45	23-Dec-20	19-Feb-21					· •	•	• • • • • • • • • • • • • • • • • • • •		
DDA - Diait - Freparation by Designer DDA WVB - General Building Plan	30	23-Dec-20 22-Jan-21	01-Mar-21									
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DDA - Draft - Preparation by Designer	30	22-Jan-21	01-Mar-21						1			
Page 7 of 26				- ·	-					Date Revision		Approved
Data Date: 26-Jul-20		ED/20	118/04	Irunk	Road	12 and	I Infrastructure Wor	KS   🥖		05-Nov-19 00V0	WYu	
Critical Activity			for	Devol	nmon	te at C	South Apron		BOUYGUES	18-Dec-19 00V1	WYu	
<ul> <li>Progress Milestone</li> </ul>			101	DEVEN	ohinei	is al C			TRAVAUX PUBLICS	22-Feb-20 01V0	SPa/LLo	WYu
Progress Bar			<b>—</b> .		–		5			09-Apr-20 01V1	SPa/LLo	WYu
Summary			Thi	ree Mo	nths R	olling	Programme			17-Jul-20 01V1	SPa/LLo	WYu
						0	~					

Activity Name	Dur	01V2 Start	01V2 Finish								2	020	2021
				Janu	-	February	March	April	M	Aay	June	July	August September October November December January February
SOUTH APRON ADIT	219	08-Jun-20	02-Mar-21	9 05 12	19	26 02 09 16 2	3 01 08 15 22			) 1/ 24 3	1 0/ 14 21	28 05 12 1	9 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21
AIP South Apron Adit - ELS & PCRA	103	08-Jun-20	09-Oct-20										AllP South Apron Adit + ELS & PCRA
AIP - Draft - Preparation by Designer	33	08-Jun-20	17-Jul-20									<u> </u>	AlP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12	18-Jul-20	31-Jul-20										AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0	10-501-20	31-Jul-20										AIP - 1st Sub
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All - Review by GO AIP - Review by GEO via SO	28	01-Aug-20	28-Aug-20										AIP - Review by GEO via SO
AIP - Review by IP / DC	28	01-Aug-20	28-Aug-20										AIP - Review by IP / DC
AIP - Update & prepare for 2nd Sub	12	29-Aug-20	11-Sep-20										AIP - Update & prepare for 2rid Sub
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AIP - Draft - Final Review and prepare for 1st Sub	12	12-Aug-20	25-Aug-20										AIP - Draft - Final Review and prepare for 1st Sub
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AIP - Review by IP / DC	28	26-Aug-20	22-Sep-20			·		-+					AIP:- Review by IP / DC
AIP - Prepare for 2nd Sub	12	23-Sep-20	04-Oct-20										AIP - Prepare for 2nd Sub
AIP - 2nd Review by SO	28	05-Oct-20	01-Nov-20						+++++++++++++++++++++++++++++++++++++++				AIP - 2nd Review by SO;
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DDA South Apron Adit - ELS Design / Pumping Test	102	12-Sep-20	15-Jan-21					-+-+-++++++++++++					
DDA - Draft - Preparation by Designer	36	12-Sep-20	27-Oct-20			+ +		-+-+-++++++++++++					DDA - Draft - Preparation by Designer
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DDA - Further information required by SO	6	05-Dec-20	11-Dec-20										DDA - Further information required by SO
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DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21										DDA - 2nd Review by
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DDA South Apron Adit - DCRA	36	16-Jan-21	02-Mar-21										
DDA - Draft - Preparation by Designer	36	16-Jan-21	02-Mar-21		1								
DDA South Apron Adit - Permanent Structure	84	02-Nov-20	10-Feb-21										
DDA - Draft - Preparation by Designer	36	02-Nov-20	12-Dec-20										DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	14-Dec-20	13-Jan-21		] [								DDA - Draft - Final:Rev
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SOUTH APRON ROAD WORKS	342	10-Dec-19	03-Feb-21	V									
DDA Road S20 - Permanent Utility Design	94	16-Jan-20	14-May-20				V				· · · · · ·		▼ DDA Road \$20 + Permanent Utility Design
DDA - Draft - Final Review and prepare for 1st Sub	30	16-Jan-20	22-Feb-20				DDA - Draft - Fi	nal Review and	prepare for '	1st Sub			
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DDA - SO Consent for Construction	0	14-May-20	14-May-20		ļĨ					DDA - \$	O Consent for	Construction	
AIP Road S20 - Alignment, Traffic Sign, Road Marking and Traffic	110	24-Feb-20	09-Jul-20										AIP Road S20 - Alignment, Traffic Sign Road Marking and Traffic Light
Page 8 of 26				-								1	Date Bevision Checked Approved

Page 8 of 26

- Data Date: 26-Jul-20
- - Progress Milestone
     Progress Bar
     Summary

Milestone

Planned Bar

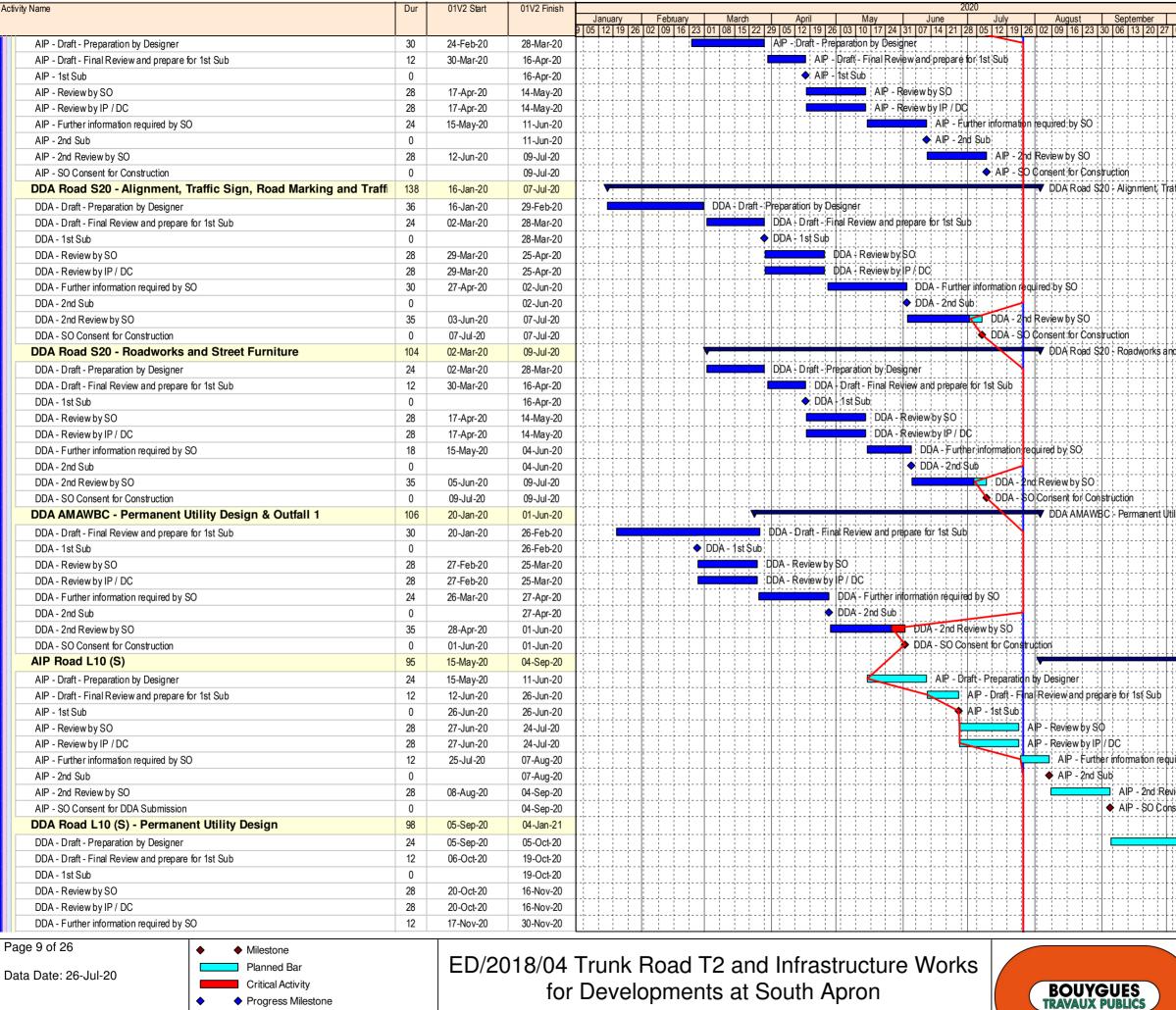
Critical Activity

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



Three Months Rolling Programme

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V1	SPa/LLo	WYu



Progress Bar

Summary

Three Months Rolling Programme

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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021
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DDA - 2nd Review by SO	35	01-Dec-20	04-Jan-21	DDA- 2hd Review by SD
DDA - SO Consent for Construction	0		04-Jan-21	◆ DDA - SO Consent for Cons
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking and T	98	05-Sep-20	04-Jan-21	
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Oct-20	19-Oct-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		19-Oct-20	◆ DDA - 1st Sub
DDA - Review by SO	28	20-Oct-20	16-Nov-20	DDA - Review by SQ
DDA - Review by IP / DC	28	20-Oct-20	16-Nov-20	DDA - Review by IP// DC
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DDA Road L10 (S) - Roadworks and Street Furniture	98	05-Sep-20	04-Jan-21	
DDA - Draft - Preparation by Designer	24	05-Sep-20	05-Oct-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Oct-20	19-Oct-20	DDA - Draft - Final Review and prepare for 1st Sub
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AIP Foot Bridge FB-02	102	25-May-20	22-Sep-20	▼ AIP Foot Bridge FB-02
AIP - Draft - Preparation by Designer	30	25-May-20	29-Jun-20	AIP - Dráft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12	30-Jun-20	14-Jul-20	AIP - Draft - Final Review and prepare for 1st Sub
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DDA - Draft - Preparation by Designer	12	23-Sep-20	08-Oct-20	DDA - Draft - Preparation by Designer
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DDA - Review by SO	28	23-Oct-20	19-Nov-20	DDA - Review/by\$O
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DDA - 2nd Review by SO	35	04-Dec-20	07-Jan-21	DDA - 2nd Review by SO
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DDA CUE Typical ELS	76	02-May-20	31-Jul-20	▼ DDA QUE Typidal ELS
DDA - Draft - Preparation by Designer	12	02-May-20	15-May-20	DDA - Dráft - Preparation by Designe
DDA - Draft - Final Review and prepare for 1st Sub	4	16-May-20	20-May-20	DDA - Draft - Final Review; and prepare for 1st Sub
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DDA - 2nd Sub	0	26-Jun-20	26-Jun-20	DDA - 2nd Sub
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DDA - Draft - Preparation by Designer	39	15-Jun-20	31-Jul-20	DDA - Draft - Preparation by Designer
Page 10 of 26   Milestone				Date Revision Checked Approved
Planned Bar		FD/20	18/04	Trunk Road T2 and Infrastructure Works
Data Date: 26-Jul-20				
Progress Milestone			tor	Developments at South Apron BOUYGUES TRAVAUX PUBLICS BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
Progress Bar				TRAVAUX PUBLICS 09-Apr-20 01V1 SPa/LLo WYu
Summary			Th	ree Months Rolling Programme
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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021
				January         February         March         April         May         June         July         August         September         October         November         December         January         Fel           9         05         12         19         26         03         10         17         24         31         07         14         21         28         05         12         19         26         03         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         13         20         27         03         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         13         20         27         03         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         13         20         27         04         11         18         25         01         08         15         22         29
DDA - Draft - Final Review and prepare for 1st Sub	12	01-Aug-20	14-Aug-20	DDA - Draft - Final Review and prepare for 1st Sub
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DDA - 2nd Review by SO	35	26-Sep-20	30-Oct-20	DDA -2nd Review by SO
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AIP CUE Permanent Works	162	10-Dec-19	02-Jul-20	▼ AIP CUE Permanent Works
AIP - Draft - Preparation by Designer	39	10-Dec-19	30-Jan-20	AIP - Draft - Preparation by Designer AIP - Draft - Final Review and prepare for 1st Sub
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DDA - Draft - Preparation by Designer	39	15-May-20	30-Jun-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	02-Jul-20	29-Jul-20	DDA - Draft - Final Review and prepare for 1st Sub
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[STE] AIP District Cooling System Permanent Works	86	02-May-20	12-Aug-20	AIP - Draft - Prepáration by Designer
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AIP - 2nd Sub	0	15-Jul-20	15-Jul-20	AIP - 2nd Sub
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DDA - Draft - Preparation by Designer	42	23-Jun-20	12-Aug-20	DDA - Draft - Preparation by Designer:
DDA - Draft - Final Review and prepare for 1st Sub	12	13-Aug-20	26-Aug-20	DDA - Draft - Final Review and prepare for 1st Sub
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DDA - Review by SO	28	27-Aug-20	23-Sep-20	DDA - Review by SO
DDA - Review by IP / DC	28	27-Aug-20	23-Sep-20	DDA - Review by IP / DC
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Page 11 of 26    Milestone				Truvels Deed TO and Infractive Marke
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Critical Activity			for	Developments at South Apron BOUYGUES BO
<ul> <li>Progress Milestone</li> </ul>				
Progress Bar		1		09-Apr-20 01V1 SPa/LLo WYu

Progress Bar Summary

Three Months Rolling Programme

17-Jul-20

01V1

WYu WYu

SPa/LLo

Activity Name		01V2 Start	01V2 Finish													2021									
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AIP - SO Consent for DDA Submission	0		14-Aug-20												♦ AIP -	SO Consent	for DDA	Submission							
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Page 12 of 26   Milestone																			)ate	Re	vision	Che	ecked	Appro	ved
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Data Date: 26-Jul-20											2							18-De	ec-19	00V1		WYu			
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Activity Name		01V2 Start	01V2 Finish	2020														2021		
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[STE] AIP Slip Road S5	57	12-Nov-20	20-Jan-21							++							····			[STE] AIP Slip Roa
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DDA - Draft - Final Review and prepare for 1st Sub	6	28-Jan-21	03-Feb-21																	DDA - Draft
[STE] DDA Slip Road S5 - Alignment, Traffic Sign, Road Marking	12	21-Jan-21	03-Feb-21																~	▼ [STE] DDA
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[STE] DDA Slip Road S5 - Street Lighting	12	21-Jan-21	03-Feb-21																	▼ [STE] DDA
DDA - Draft - Preparation by Designer	6	21-Jan-21	27-Jan-21																	DDA - Draft - P
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Inspection Report of Existing SUS	48	02-Mar-20	02-Feb-21 02-May-20						Inspection	Perort of F	victing SLIS					, , , , , , , , , , , , , , , , , , , ,				
	40	02-Mar-20	02-May-20				· · · · · · · · · · · · · · · · · · ·				spection Rep		· · · · · · · · · · · · · · · · · · ·			   +  				
Prepare & Submit Inspection Report Submit Inspection Report	40	02-10181-20	02-May-20						Submit In	+ + + +	4		+ + + + -							
AIP SUS - Internal Structure	144	04-May-20	22-Oct-20										· · · · · · · · · · · · · · · · · · ·						AIP SUS - Inte	rnal Structure
AIP - Draft - Preparation by Designer	72	04-May-20	28-Jul-20								·····		AIP - Draft - P	Preparation by	Designer					
AIP - Draft - Final Review and prepare for 1st Sub	14	29-Jul-20	13-Aug-20											- Draft - Final		prepare for	1st:Sub			
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AIP - Review by SO	28	14-Aug-20	10-Sep-20		++- ++ 					+					P - Review b	y SO				
AIP - Review by IP / DC	28	14-Aug-20	10-Sep-20												P - Review b	y IP / DC				
AIP - Update & prepare for 2nd Sub	12	11-Sep-20	24-Sep-20								· · · · · · · · · · · · · · ·						pare for 2nd Su	ıb		
AIP - 2nd Sub	0		24-Sep-20										· · · · · · · · · · · · · · · · · · ·		◆ AIP - 2	·				
AIP - 2nd Review by SO	28	25-Sep-20	22-Oct-20												· · · · · · · · · ·		P - 2nd Review			
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DDA - Review by IP / DC	28	06-Jan-21	02-Feb-21																	DDA - Revié
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	360	09-Dec-19	26-Feb-21													· · · · ·				
AIP - C&C/LS ELS & PCRA	64	09-Dec-19	27-Feb-20			<b>-</b>	AIP - C&C/LS ELS	& PCRA												
AIP - Draft - Final Review and prepare for 1st Sub	12	09-Dec-19	21-Dec-19		J I 4 -	iew and prep	are for 1st Sub									· · · · · · · · · · · · · · · · · · ·				
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AIP - Review by SO	28	22-Dec-19	18-Jan-20	<u>-</u>	h	Review by \$C														
AIP - Review by GEO via SO	28	22-Dec-19	18-Jan-20	· -i +		Review by GE Review by IP				+						1 1 1 1 1 1 +1 1 1				
AIP - Review by IP / DC AIP - Update & prepare for 2nd Sub	28	22-Dec-19 20-Jan-20	18-Jan-20 30-Jan-20		<u> </u>		& prepare for 2nd	Sub		++										
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Page 13 of 26    Milestone																Da			Checked	Approved
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- Data Date: 26-Jul-20
- Critical Activity Progress Milestone

Summary

Progress Bar

ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



Three Months Rolling Programme

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V1	SPa/LLo	WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021									
				January         February         March         April         May         June         July         August         September           05         12         19         26         02         09         16         23         01         05         12         19         26         02         09         16         23         30         06         13         20         27	October Nove								
AIP - SO Consent for DDA Submission	0		27-Feb-20	AIP - SO Consent: for DDA Submission	04 11 10 23 01 00		20 21 03 10 17	24 31 07 14 21					
AIP - C&C/LS Permanent Structure	71	09-Jan-20	06-Apr-20	AIP - C&C/LS Permanent Structure									
AIP - Draft - Final Review and prepare for 1st Sub	18	09-Jan-20	01-Feb-20	AlP - Draft - Final Review and prepare for 1st Sub									
AIP - 1st Sub	0		01-Feb-20	◆ AIP - 1st Sub									
AIP - Review by SO	28	02-Feb-20	29-Feb-20	♦ AlP -:1st Sub									
AIP - Review by GEO via SO	28	02-Feb-20	29-Feb-20	AIP - Review by GEO via SO									
AIP - Review by IP / DC	28	02-Feb-20	29-Feb-20	AlP - Review by IP / DC									
AIP - Prepare for 2nd Sub	7	01-Mar-20	07-Mar-20	AlP - Prepare for 2nd Sub									
AIP - 2nd Sub	0		07-Mar-20	♦ AIP - 2nd Sub									
AIP - 2nd Review by SO	28	08-Mar-20	04-Apr-20	AlP - 2nd Review by SO ♦ AlP - SO Consent for DDA Slubmission									
AIP - SO Consent for DDA Submission	0	02 D 40	06-Apr-20	♥ AIP - SU Consent for DDA Submission ♥ DDA - C&C/LS Ground Improvement Works - EBS									
DDA - C&C/LS Ground Improvement Works - EBS	102	23-Dec-19	02-May-20										
DDA - Draft - Preparation by Designer	36	23-Dec-19	08-Feb-20	DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub									
DDA - Draft - Final Review and prepare for 1st Sub DDA - 1st Sub	12 0	10-Feb-20	22-Feb-20 22-Feb-20										
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DDA - Further information required by SO	6	23-Mar-20	28-Mar-20	DDA - Further information required by SO									
DDA - 2nd Sub	0		28-Mar-20	DDA - 2nd Sub									
DDA - 2nd Review by SO	35	29-Mar-20	02-May-20	DDA + 2nd Review by SO									
DDA - SO Consent for Construction	0		02-May-20	DDA - SQ Consent for Construction									
DDA - C&C/LS ELS Dwall (Temp Dwall)	118	23-Dec-19	21-May-20	V DDA - C&C/LS ELS Dwail (Temp,Dw <mark>a</mark> ll)									
DDA - Draft - Preparation by Designer	36	23-Dec-19	08-Feb-20	DDA - Draft - Preparation by Designer									
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DDA - SO Consent for Construction	0		21-May-20	◆ DDA - SO Consent for Construction									
DDA - C&C/LS Foundation (Perm. Dwall + Foundation within Sha	105	03-Feb-20	10-Jun-20	▼ DDA - ¢&C/LS Foundation (Perm. Dwall + Foundation within Shaf	t)								
DDA - Draft - Preparation by Designer	24	03-Feb-20	29-Feb-20	DDA - Draft - Preparation by Designer									
DDA - Draft - Final Review and prepare for 1st Sub	12	02-Mar-20	14-Mar-20	DDA - Draft - Final Review and prepare for 1st Sub									
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DDA - Review by SO	28	15-Mar-20	11-Apr-20	DDA - Review by SO									
DDA - Review by GEO via SO	28	15-Mar-20	11-Apr-20	DDA + Review by GEO via SO									
DDA - Review by IP / DC	28	15-Mar-20	11-Apr-20	DDA - Review by IP / DC									
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DDA - C&C/LS Ground Treatment for TBM Break-in	89	23-Dec-19	15-Apr-20	✓ DDA - C&C/LS, Ground Treatment for TBM Break-in									
DDA - Draft - Preparation by Designer	18	23-Dec-19	15-Jan-20	DDA - Draft - Preparation by Designer									
DDA - Draft - Final Review and prepare for 1st Sub	6	16-Jan-20	22-Jan-20	DDA - Draft - Final Review and prepare for 1st Sub									
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DDA - Review by SO	28	23-Jan-20	19-Feb-20	DDA Paview by SO									
DDA - Review by GEO via SO	28	23-Jan-20	19-Feb-20	DDA - Review by GEO via SO									
DDA - Review by IP / DC	28	23-Jan-20	19-Feb-20	DDA - Review by IP / DC									
DDA - Further information required by SO	18	20-Feb-20	11-Mar-20	DDA - Further information required by SO									
DDA - 2nd Sub	0		11-Mar-20	◆ DDA - 2rd Sub									
DDA - 2nd Review by SO	35	12-Mar-20	15-Apr-20	DDA - 2nd Review by \$0									
DDA - SO Consent for Construction	0		15-Apr-20	◆ DDA - \$O Consent for Construction									
Page 14 of 26   Milestone					Date	Revision	Checked	Approved					
Planned Bar		ED/20	18/04	Frunk Road T2 and Infrastructure Works	05-Nov-19	00V0	WYu						
Data Date: 26-Jul-20													

Data Date: 26-Jul-20

Critical Activity

Progress Milestone Progress Bar Summary

2018/04 Trunk Road 12 and Intrastructure works for Developments at South Apron

Three Months Rolling Programme



	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
١	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V1	SPa/LLo	WYu

Activity Name	Dur	01V2 Start	01V2 Finish		2020				2021
				January February March 9 05 12 19 26 02 09 16 23 01 08 15 22 29 0	April May June July	August   September 19 26 02 09 16 23 30 06 13 20	October Novembe	r December 22 29 06 13 20 27	January February 03 10 17 24 31 07 14 21
TN - C&C/LS King Post	76	16-Apr-20	17-Jul-20		v		C&C/L\$ King Post		
DDA - Draft - Preparation by Designer	14	16-Apr-20	04-May-20		DDA - Draft Preparation by Designer				<u></u>
DDA - Draft - Final Review and prepare for 1st Sub	4	05-May-20	08-May-20		DDA - Draft - Final Review and prepa	re f <mark>o</mark> r 1st Sub			
DDA - 1st Sub	0		08-May-20		♦ DDA - 1st Sub				
DDA - Review by SO	28	09-May-20	05-Jun-20		DDA - Review by SO				
DDA - Review by GEO via SO	28	09-May-20	05-Jun-20		DDA - Review by SO	) via SO			
DDA - Review by IP / DC	28	09-May-20	05-Jun-20		DDA - Review by IP / I				
DDA - Further information required by SO	6	06-Jun-20	12-Jun-20		DDA - Further info	rmation required by SO			
DDA - 2nd Sub	0	12-Jun-20	12-Jun-20		DDA - 2nd Sub				$\begin{array}{cccccccccccccccccccccccccccccccccccc$
DDA - 2nd Review by SO	35	13-Jun-20	17-Jul-20			DDA 2nd Review by \$0 DDA SO Consent for Construction			
DDA - SO Consent for Construction	0	17-Jul-20 11-Jun-20	17-Jul-20					SELS \$trutting & Dew	atoring (DCPA)
DDA - C&C/LS ELS Strutting & Dewatering +DCRA	84		18-Sep-20			Department by Decigner			
DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub	12 6	11-Jun-20 26-Jun-20	24-Jun-20 03-Jul-20			- Preparation by Designer Draft - Final Review and prepare for 1s	+ Sub		
DDA - Drait - Frital Review and prepare for 1st Sub	0	20-Juli-20	03-Jul-20		◆ DDA -				
DDA - Review by SO	28	04-Jul-20	31-Jul-20	╶╧╌╴┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴╡╴╴╴╴╴╴┊╴╴┊╴╴┊╴╴		DDA - Review by SO			
DDA - Review by GEO via SO	28	04-Jul-20	31-Jul-20			DDA - Review by GEO via SO			
DDA - Review by IP / DC	28	04-Jul-20	31-Jul-20			DDA - Review by IP / DC			$\frac{1}{2}$
DDA - Further information required by SO	12	01-Aug-20	14-Aug-20			DDA - Further informa	tion required by SO		
DDA - 2nd Sub	0	<u> </u>	14-Aug-20			DDA - 2nd Sub			
DDA - 2nd Review by SO	35	15-Aug-20	18-Sep-20				A - 2nd Review by SO		
DDA - SO Consent for Construction	0		18-Sep-20			♦ DD	A - SO Cohsent for Construction	n	
DDA - C&C/LS Base Slab & Associated Cast-in for TBM Launchin	<b>g</b> 103	15-Aug-20	16-Dec-20						DDA - C&C/LS B
DDA - Draft - Preparation by Designer	25	15-Aug-20	12-Sep-20				Draft - Preparation by Designe		
DDA - Draft - Final Review and prepare for 1st Sub	12	14-Sep-20	26-Sep-20				DDA - Draft - Final Review ar	id prepare for 1st Sub	
DDA - 1st Sub	0		26-Sep-20			•	DDA - 1st Sub		
DDA - Review by SO	28	27-Sep-20	24-Oct-20				DDA - Review	vby\$O	
DDA - Review by GEO via SO	28	27-Sep-20	24-Oct-20					v by GEO via SO	
DDA - Review by IP / DC	28	27-Sep-20	24-Oct-20				DDA - Review		
DDA - Further information required by SO	14	27-Oct-20	11-Nov-20					A - Further information	required by SO
DDA - 2nd Sub	0	40 No. 00	11-Nov-20				• • • • • • • • • • • • • • • • • • •	A-2hd Sub	
DDA - 2nd Review by SO DDA - SO Consent for Construction	35 0	12-Nov-20	16-Dec-20 16-Dec-20						2nd Review by \$0 \$0 Consent for Construction
DDA - SO Consent for Construction DDA - LS Tympanum Structure for TBM Launching	146	15-Aug-20	08-Feb-21						
DDA - Draft - Preparation by Designer	63	15-Aug-20	30-Oct-20					ft - Preparation by Des	inner
DDA - Draft - Final Review and prepare for 1st Sub	24	31-Oct-20	27-Nov-20						a Review and prepare for 1st Su
DDA - 1st Sub	0	01 00(20	27-Nov-20					DDA - 1st Sub	
DDA - Review by SO	28	28-Nov-20	25-Dec-20						DA - Review by \$O
DDA - Review by GEO via SO	28	28-Nov-20	25-Dec-20					D	DA - Review by GEO via SO
DDA - Review by IP / DC	28	28-Nov-20	25-Dec-20						DA - Review by IP / DC
DDA - Further information required by SO	36	28-Dec-20	08-Feb-21						DDA - Fi
DDA - C&C/LS Permanent Structure	72	28-Nov-20	26-Feb-21						V
DDA - Draft - Preparation by Designer	48	28-Nov-20	26-Jan-21						DDA - Draft - Pr
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Jan-21	26-Feb-21						
DDA - LS Thrust Frame / Blocks for TBM Launching	126	14-Sep-20	17-Feb-21						
DDA - Draft - Preparation by Designer	30	14-Sep-20	20-Oct-20					eparation by Desigher	
DDA - Draft - Final Review and prepare for 1st Sub	9	21-Oct-20	31-Oct-20					ft - Final Review and c	prepare for 1st Sub
DDA - 1st Sub	0	0111 0-	31-Oct-20				◆ DDA - 1st		
DDA - Review by SO	28	01-Nov-20	28-Nov-20						
DDA - Review by IP / DC	28	01-Nov-20	28-Nov-20					DDA - Review b	
DDA - Further information required by SO DDA - 2nd Sub	36 0	30-Nov-20	13-Jan-21 13-Jan-21						DDA - Further informati
DDA - 2nd Sub DDA - 2nd Review by SO	35	14-Jan-21	13-Jan-21 17-Feb-21						
SUB-SEA TBM TUNNEL	328	08-Jan-20	16-Feb-21				<u>+</u>		
AIP - Sub-sea Tunnel & PCRA	75	08-Jan-20	08-Apr-20		V AIP - Sub-sea Tu	Innel&PCRA			
	13		00-hpi-20					Povision C	hockod Approved
Page 15 of 26    Milestone				Trunk Deed TO and h					hecked Approved
Data Date: 26-Jul-20			JIØ/U4	Trunk Road T2 and I				)V0 WYı )V1 WYı	
Critical Activity			for	Developments at So	uth Apron	BOUYGUES			J VLLo WYu
Progress Milestone						TRAVAUX PUBLICS			VLLO WYU VLLo WYu
Progress Bar			Th	ee Months Rolling Pr	rogramme				/LLo WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021
				January         February         March         April         May         June         July         August         September         October         November         December         January         February           9         05         12         19         26         02         09         16         23         30         06         13         20         27         03         10         17         24         31         07         14         21         28         05         12         19         26         02         09         16         23         30         06         13         20         12         10         11         18         25         01         08         15         22         29         06         13         20         27         14         21         14         21         14         21         14         21         14         21         26         02         09         16         23         30         06         13         20         10         17         24         31         07         14         21         14         21         24         25         14         11         18         25         10 </td
AIP - Draft - Final Review and prepare for 1st Sub	18	08-Jan-20	31-Jan-20	P 05 12 19 26 02 09 16 23 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21 07 14 14 14 07 14 14 07 14 14 07 14 14 07 14 14 14 07 14 14 07 14 14 14 07 14 14 14 14 14 14 14 14 14 14 14 14 14
AIP - 1st Sub	0		31-Jan-20	♦ AIP - 1st Sub
AIP - Review by SO	28	01-Feb-20	28-Feb-20	AIP - Review by SO
AIP - Review by GEO via SO	28	01-Feb-20	28-Feb-20	AIP - Review by GEO via SO
AIP - Review by IP / DC	28	01-Feb-20	28-Feb-20	AIP - Review by IP / DC
AIP - Prepare for 2nd Sub	12	29-Feb-20	11-Mar-20	AIP - Prepare for 2nd Sub
AIP - 2nd Sub	0		11-Mar-20	♦ AIP - 2hd Şub
AIP - 2nd Review by SO	28	12-Mar-20	08-Apr-20	AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		08-Apr-20	♦ AIP - SO Consent for DDA Submission
DDA - Sub-sea Tunnel - Precast Segment Lining + DCRA	146	01-Feb-20	29-Jul-20	▼ DDA- Sub-sea Tunnel - Precast Segment Linning + DCRA
DDA - Draft - Preparation by Designer	54	01-Feb-20	03-Apr-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	06-Apr-20	22-Apr-20	DDA - Draft - Final:Review; and prepare for 1st Sub
DDA - 1st Sub	0		22-Apr-20	◆ DDA - 1st Şub
DDA - Review by SO	28	23-Apr-20	20-May-20	DDA - Review by SQ
DDA - Review by GEO via SO	28	23-Apr-20	20-May-20	DDA - Review by GEO via SO
DDA - Review by IP / DC	28	23-Apr-20	20-May-20	DDA - Review by IP / DC
DDA - Further information required by SO	30	21-May-20	24-Jun-20	DDA - Further information required by SO
DDA - 2nd Sub	0	24-Jun-20	24-Jun-20	DD/A - 2nd Sub
DDA - 2nd Review by SO	35	25-Jun-20	29-Jul-20	DDA - 2nd Review by \$O
DDA - SO Consent for Construction	0		29-Jul-20	DDA - \$0 Consent for Construction
DDA - Special Segment for CP construction	140	30-Jul-20	15-Jan-21	
DDA - Draft - Preparation by Designer	36	30-Jul-20	09-Sep-20	DD'A - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		09-Oct-20	◆ DDA -1stSub
DDA - Review by SO	28	10-Oct-20	06-Nov-20	
DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	
DDA - Further information required by SO	30	07-Nov-20	11-Dec-20	DDA - Further information required by SO
DDA - 2nd Sub	0	40 D 00	11-Dec-20	● DĎA - 2nd Sub DĎA - 2nd Réview by
DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	DDA - SO Consent foi
DDA - SO Consent for Construction DDA - Sub-sea Tunnel - TBM Confinement	0 36	02 log 04	15-Jan-21 16-Feb-21	
		02-Jan-21	16-Feb-21 16-Feb-21	
DDA - Draft - Preparation by Designer DDA - Sub-sea Tunnel - Internal Structure	36	02-Jan-21 26-Jun-20	16-Feb-21 23-Nov-20	DDA - Sub-sea Turinel - Interna
DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub	36	26-Jun-20 08-Aug-20	07-Aug-20 21-Aug-20	DDA - Draft - Preparation by Designer
DDA - Drart - Final Review and prepare for 1st Sub DDA - 1st Sub	12	00-Aug-20	21-Aug-20 21-Aug-20	● DDA - 1st Sub
DDA - Tst Sub DDA - Review by SO	28	22-Aug-20	21-Aug-20 18-Sep-20	
DDA - Review by SO DDA - Review by IP / DC	28	22-Aug-20 22-Aug-20	18-Sep-20	DDA - Review by SO
DDA - Further information required by SO	20	19-Sep-20	19-Oct-20	DDA - Further information required by SO
DDA - 2nd Sub	0		19-Oct-20	◆ DDA - 2nd Sub
DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	DDA-2hd Reviewby SD
DDA - SO Consent for Construction	0		23-Nov-20	DDA - SO Consent for Construction
CROSS PASSAGE	122	10-Oct-20	09-Mar-21	
DDA - Cross Passage - CP Tympanum	42	16-Jan-21	09-Mar-21	DDA - Cross Passage - CP Tympanum
DDA - Draft - Preparation by Designer	42	16-Jan-21	09-Mar-21	
DDA - Cross Passage - CP TBM Jacking Pipes	96	10-Oct-20	03-Feb-21	
DDA - Draft - Preparation by Designer	48	10-Oct-20	05-Dec-20	DDA + Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Dec-20	06-Jan-21	DDA - Draft - Final Review;
DDA - 1st Sub	0		06-Jan-21	DDA - 1st \$ub
DDA - Review by SO	28	07-Jan-21	03-Feb-21	
DDA - Review by GEO via SO	28	07-Jan-21	03-Feb-21	DDA - Revi
DDA - Review by IP / DC	28	07-Jan-21	03-Feb-21	DDA - Revi
DDA - Cross Passage - CP TBM Confinement	36	07-Jan-21	20-Feb-21	
DDA - Draft - Preparation by Designer	36	07-Jan-21	20-Feb-21	
Page 16 of 26				Date Revision Checked Approved

Page 16 of 26

- Data Date: 26-Jul-20
- ♦ Milestone
   Planned Bar

Critical Activity

 Progress Milestone

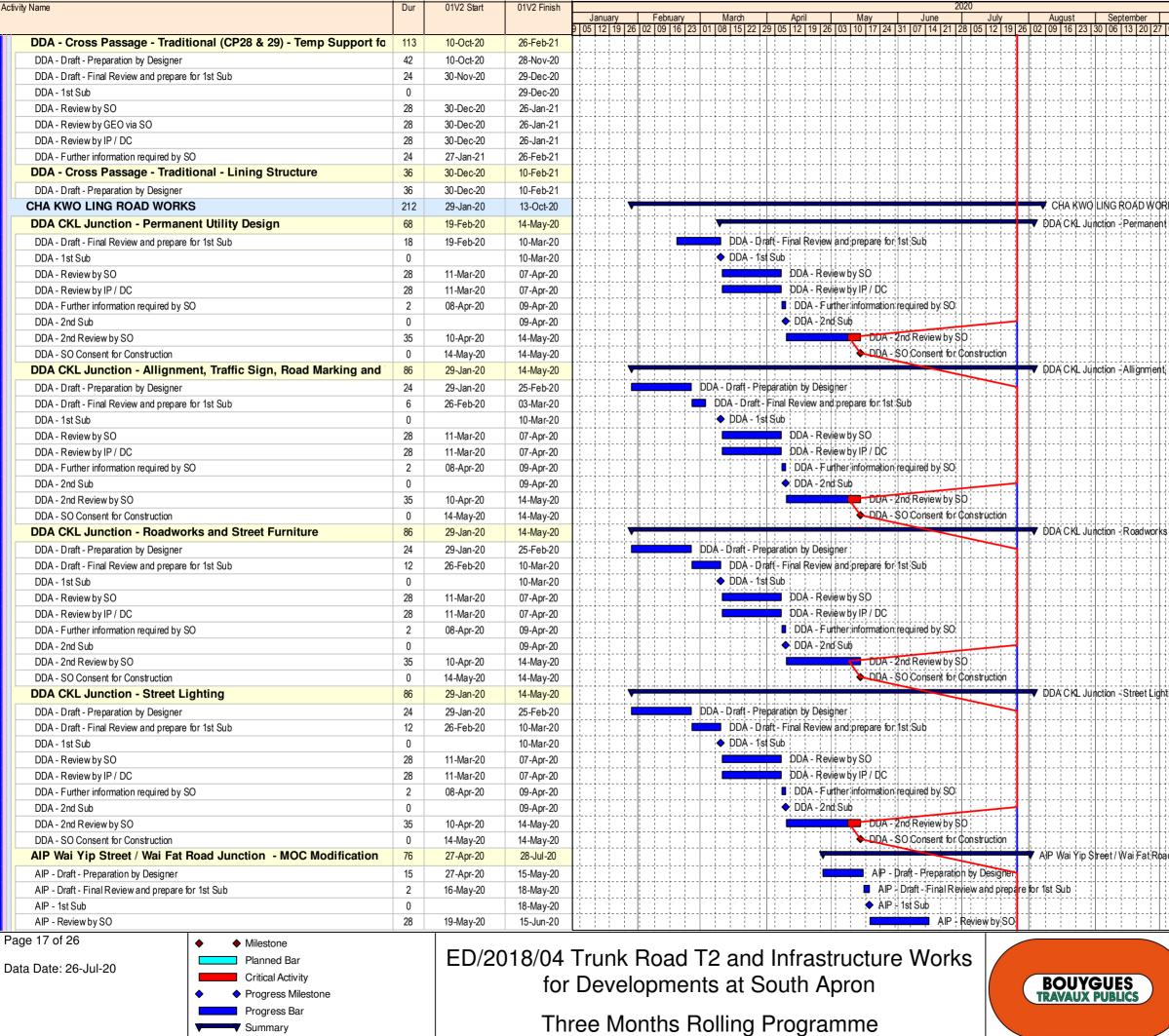
Progress Bar

## ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



Three Months Rolling Programme

Date	Revision	Checked	Approved
05-Nov-19	00V0	WYu	
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V1	SPa/LLo	WYu



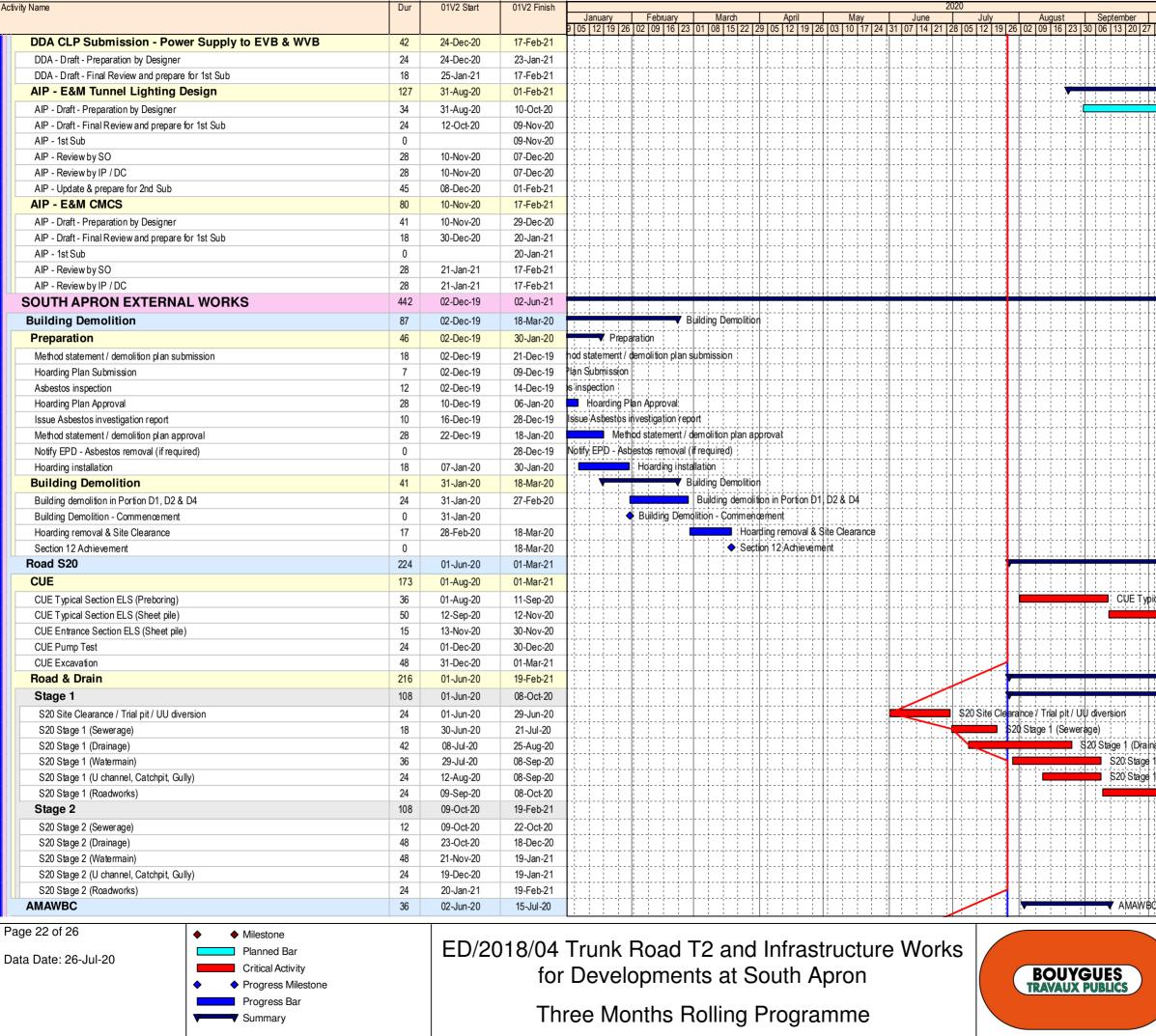
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Activity Name	Dur	01V2 Start	01V2 Finish	2020	2021
				January February March April May June July August September October November Decemb 9 05 12 19 26 02 09 16 23 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 2	er January February 0 27 03 10 17 24 31 07 14 21
AIP - Review by IP / DC	28	19-May-20	15-Jun-20	AIP - Review by IP / DC	
AIP - Further information required by SO	12	16-Jun-20	30-Jun-20	AIP - Further information required by SD	
AIP - 2nd Sub	0		30-Jun-20	AIP-2nd Sib	
AIP - 2nd Review by SO	28	01-Jul-20	28-Jul-20	AIP;- 2nd Review by SQ	
AIP - SO Consent for Construction	0		28-Jul-20	AIP - SO Consent for Construction	
DDA Wai Yip Street / Wai Fat Road Junction - MOC Modification	147	18-Apr-20	13-Oct-20	DDA Wai Mip Street / Wai Fat Road Junction - MOC Modification	
DDA - Draft - Preparation by Designer	18	18-Apr-20	11-May-20	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	6	22-Jul-20	28-Jul-20	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		28-Jul-20	DDA - 1/st Sub	· · · · · · · · · · · · · · · · · · ·
DDA - Review by SO	28	29-Jul-20	25-Aug-20	DDA - Review by SO	
DDA - Review by IP / DC	28	29-Jul-20	25-Aug-20	DDA - Revièw by IP / DC	
DDA - Further information required by SO	12	26-Aug-20	08-Sep-20	DDA - Further information required by \$O	
DDA - 2nd Sub	0		08-Sep-20	◆ DDA - 2nd \$ub	· · · · · · · · · · · · · · · · · · ·
DDA - 2nd Review by SO	35	09-Sep-20	13-Oct-20	DDA - 2nd Review by SO	· · · · · · · · · · · · · · · · · · ·
DDA - SO Consent for Construction	0		13-Oct-20	DDA - SO Consent for Construction	
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	228	16-Dec-19	22-Sep-20		AK [D&BR] / DRILL & BLAST TUNN
AIP - D&BR / D&BL Tunnel & PCRA (with Temp. Support)	70	16-Dec-19	12-Mar-20	▼ AIP - D&BR / D&BL Tunnel & PCRA (with Temp. Support	
AIP - Draft - Final Review and prepare for 1st Sub	18	16-Dec-19	08-Jan-20	AIP - Draft - Final Review and prepare for 1st Sub	
AIP - 1st Sub	0		08-Jan-20	le AIP - 1st Sub	
AIP - Review by SO	28	09-Jan-20	05-Feb-20	AIP - Review by SQ	
AIP - Review by IP / DC	28	09-Jan-20	05-Feb-20	AIP Review by IP:/ DC	
AIP - Update & prepare for 2nd Sub	7	06-Feb-20	13-Feb-20	AIP - Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		13-Feb-20	◆ AIP - 2nd Sub	
AIP - 2nd Review by SO	28	14-Feb-20	12-Mar-20	AIP - 2nd Review by SO	
AIP - SO Consent for DDA Submission	0		12-Mar-20	◆ AIP - ŞO Çonsent for DDA Submission	
AIP - D&BR / D&BL Permanent Structure	115	09-Jan-20	01-Jun-20	▼ AIP - D&BR //D&BL Permanent:Structure	
AIP - Draft - Preparation by Designer	41	09-Jan-20	28-Feb-20	AlP - Draft - Preparation by Designer	
AIP - Draft - Final Review and prepare for 1st Sub	18	29-Feb-20	20-Mar-20	AIP - Draft - Final Review and prepare for 1st Sub	
AIP - 1st Sub	0		20-Mar-20	◆ AIP - 1st Sub	
AIP - Review by SO	28	21-Mar-20	17-Apr-20	AlP - Řeview by SO	
AIP - Review by IP / DC	28	21-Mar-20	17-Apr-20	AIP - Review by IP / DC	
AIP - Update & prepare for 2nd Sub	12	18-Apr-20	04-May-20	AIP + Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		04-May-20	li AIP + 2nd Sub	· · · · · · · · · · · · · · · · · · ·
AIP - 2nd Review by SO	28	05-May-20	01-Jun-20	All 2nd Réview by SO	
AIP - SO Consent for DDA Submission	0	01-Jun-20	01-Jun-20	AIP - SO Consent for DDA Submission	
DDA - Construction Blasting Assessment Report	81	11-Jan-20	22-Apr-20	V DDA - Construction Blasting Assessment Report	
CBAR - Draft - Final Review and prepare for 1st Sub	6	11-Jan-20	17-Jan-20	CBAR - Draft - Final Review and prepare for 1st Sub	
CBAR - 1st Sub	0		17-Jan-20	🗢 CBAR - 1st Sub	
CBAR - Review by MinesD	28	18-Jan-20	14-Feb-20	CBAR - Review by MinesD	
CBAR - Prepare for 2nd Sub	28	15-Feb-20	18-Mar-20	CBAR - Prepare for 2hd Sub	
CBAR - 2nd Sub	0	40.14	18-Mar-20	◆ CBAR ÷ 2nd Sub	
CBAR - 2nd Review by MinesD	35	19-Mar-20	22-Apr-20	CDMP Competitor DMC Systematics	
CBAR - Consent for BMS Submission	0	22-Apr-20	22-Apr-20	CBAR + Consent for BMS Submission	k Rolt Docion at Tunnel Partal
DDA - D&BR / D&BL Tunnel - Rock Bolt Design at Tunnel Portal	110	03-Feb-20	16-Jun-20		ר ישטוג'שכאועזו מנ זעווזופו דיסוזמין 
DDA - Draft - Preparation by Designer	36	03-Feb-20	14-Mar-20	DDA - Dráft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	16-Mar-20	28-Mar-20	DDA - Draft - Final Réview and prepare for 1st Sub	
DDA - 1st Sub	0	20 Mar 00	28-Mar-20	DDA - 1st Sub DDA - Review by SO	
DDA - Review by SO	28	29-Mar-20	25-Apr-20	DDA - Review by GEO via SO	
DDA - Review by GEO via SO	28	29-Mar-20	25-Apr-20	DDA - Review by GED via SO	
DDA - Review by IP / DC	28	29-Mar-20	25-Apr-20	DDA - Review by IP /, DQ DDA - Further information required by SO	
DDA - F urther information required by SO DDA - 2nd Sub	12 0	27-Apr-20	12-May-20 12-May-20	DDA - Furner information required by sO ◆ DDA - 2nd Sub	
DDA - 2nd Sub DDA - 2nd Review by SO	35	13-May-20	12-iviay-20 16-Jun-20	DDA - 2nd Review by \$0	
DDA - SO Consent for Construction	0	10-1vid y-20	16-Jun-20	◆ DDA SO Consent for Construction	
DDA - D&BR / D&BL Tunnel - Temp Support for Excavation + DCF	-	18-Jan-20	24-Jun-20	V DDA - D&BR / D&BL Tunnel - Temp Support for Excavation + DCRA	
	121	10-0411-2.0	27 001-20		
Page 18 of 26				Date Revision	Checked Approved
Data Date: 26-Jul-20		ED/20	18/04		WYu
Critical Activity			for		WYu
<ul> <li>Progress Milestone</li> </ul>			101		SPa/LLo WYu
Progress Bar			<b></b> 1	09-Apr-20 01V1	SPa/LLo WYu
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Activity Name	Dur	01V2 Start	01V2 Finish	2020 2021 January February March April May June July August September October November December January February
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DDA - Draft - Preparation by Designer	60	18-Jan-20	31-Mar-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	6	01-Apr-20	08-Apr-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0	00 4 00	08-Apr-20	♦ DDA - 1st Sub DDA - Review by SO
DDA - Review by SO	28	09-Apr-20	06-May-20	DDA - Review by GEO via SO
DDA - Review by GEO via SO	28	09-Apr-20	06-May-20	DDA - Review by GEO via SO
DDA - Review by IP / DC DDA - Further information required by SO	28 12	09-Apr-20	06-May-20 20-May-20	DDA - Further information required by SO
DDA - 2nd Sub	0	07-May-20	20-May-20 20-May-20	◆ DDA - 2nd Sub
DDA - 2nd Sub DDA - 2nd Review by SO	35	21-May-20	20-iviay-20 24-Jun-20	DDA - 2nd Review by SO
DDA - SO Consent for Construction	0	24-Jun-20	24-Jun-20 24-Jun-20	DDA - SO Consent for Construction
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	136	09-Apr-20	22-Sep-20	DDA - D&BR / D&BL Tunnel - Lining & Internal Str.
DDA - Draft - Preparation by Designer	42	09-Apr-20	02-Jun-20	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	18	03-Jun-20	23-Jun-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0	23-Jun-20	23-Jun-20	DDA - 1st Sub
DDA - Review by SO	28	24-Jun-20	21-Jul-20	DDA - Review by SO
DDA - Review by GEO via SO	28	24-Jun-20	21-Jul-20	DDA - Revièw by GEO via SO
DDA - Review by IP / DC	28	24-Jun-20	21-Jul-20	DDA - Review by IP/DC
DDA - Further information required by SO	24	22-Jul-20	18-Aug-20	DDA - Further information required by \$0
DDA - 2nd Sub	0		18-Aug-20	◆ DDA- 2nd \$ub
DDA - 2nd Review by SO	35	19-Aug-20	22-Sep-20	DDA - 2nd Review by SO
DDA - SO Consent for Construction	0		22-Sep-20	DDA - SO Consent for Construction
DDA - Temporary Blast Door	73	13-Feb-20	14-May-20	V DDA - Temporary Blast Door
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Feb-20	04-Mar-20	DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		04-Mar-20	♦ DDA - 1st Şub
DDA - Review by SO	28	05-Mar-20	01-Apr-20	DDA - Review by SO
DDA - Review by IP / DC	28	05-Mar-20	01-Apr-20	DDA - Review by IP / DC
DDA - Further information required by SO	6	02-Apr-20	09-Apr-20	DDA - Further information required by SO
DDA - 2nd Sub	0		09-Apr-20	◆ DDA - 2nd/Sub
DDA - 2nd Review by SO	35	10-Apr-20	14-May-20	DDA - 2nd Review by SD
DDA - SO Consent for Construction	0		14-May-20	◆ DDA - \$O Consent for Construction
EAST VENTILATION BUILDING [EVB]	332	09-Jan-20	22-Feb-21	V EAST VENTILATIÓN BUILDING [€
AIP EVB - Permanent Structure	212	09-Jan-20	24-Sep-20	V AlP EVB - Permanent Structure
AIP - Draft - Preparation by Designer	42	09-Jan-20	29-Feb-20	AIP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	12	02-Mar-20	14-Mar-20	AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0		14-Mar-20	♦ AIP11st Sub;
AIP - Review by SO	28	15-Mar-20	11-Apr-20	AIP - Review by \$0
AIP - Review by GEO via SO	28	15-Mar-20	11-Apr-20	AIP - Review by GEO via SO
AIP - Review by IP / DC	28	15-Mar-20	11-Apr-20	AlP - Review by IP / DC
AIP - Update & prepare for 2nd Sub	113	14-Apr-20	27-Aug-20	AIP - Update & prépare fot 2nd Sub
AIP - 2nd Sub	0	20. 4.1.7. 20.	27-Aug-20	▲ AIP - 2nd Sub
AIP - 2nd Review by SO	28	28-Aug-20	24-Sep-20	Air - Ziti Review by 30 ◆ AIP - SO Consent for DDA Submission
AIP - SO Consent for DDA Submission DDA - EVB - General Building Plan	0	25-Sep-20	24-Sep-20 08-Feb-21	Air - 30 Consent for DDA Submission ▼ DDA - EVB- General Building Plan
DDA - EVB - General Building Plan DDA - Draft - Preparation by Designer			08-Feb-21 09-Nov-20	DDA - E vB - General Building Plant
DDA - Draft - Preparation by Designer DDA - Draft - Final Review and prepare for 1st Sub	36 24	25-Sep-20 10-Nov-20	09-Nov-20 07-Dec-20	DDA - Draft - Frihal Review and prepare for
DDA - Drait - Final Review and prepare for 1st Sub	0	10-1107-20	07-Dec-20 07-Dec-20	DDA - Diait - Fhankeview and prepare of
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DDA - Further information required by SO	30	05-Jan-21	04-5an-21 08-Feb-21	DDA - F
DDA - EVB - Permanent Structure (including Foundation)	60	08-Dec-20	22-Feb-21	v→v DDA - EVB - Permanent Structure
DDA - Draft - Preparation by Designer	36	08-Dec-20	21-Jan-21	DDA - Draft - Prepi
DDA - Draft - Final Review and prepare for 1st Sub	24	22-Jan-21	21-5an-21 22-Feb-21	
TUNNEL E&M INSTALLATION & COMMISSIONING	349	02-Jan-20	06-Mar-21	
AIP - Overall E&M Design	204	02-Jan-20	08-Sep-20	▼ AIP - Overall E&M De\$ign
AIP - Draft - Preparation by Designer	97	02-Jan-20	00-Gep-20 04-May-20	AIP - Draft - Preparation by Designer
Dana 10 of 00	31	02-001-20	07-111a y-20	
Page 19 of 26			10/04	Trunk Road T2 and Infrastructure Works
Data Date: 26-Jul-20 Planned Bar			10/04	
Critical Activity			for	Developments at South Apron BOUYGUES BO
<ul> <li>Progress Milestone</li> </ul>			101	
Progress Bar			тμ	09-Apr-20 01V1 SPa/LLo WYu
Summary			IN	ree Months Rolling Programme

AIP - Draft - Final Review and prepare for 1st Sub         AIP - 1st Sub         AIP - Review by SO         AIP - Review by IP / DC         AIP - Update & prepare for 2nd Sub         AIP - 2nd Sub         AIP - 2nd Review by SO	24 0 28 28 36 0 28 0 28 0	05-May-20 02-Jun-20 02-Jun-20 30-Jun-20	01-Jun-20 01-Jun-20 29-Jun-20 29-Jun-20	January February March 9 05 12 19 26 02 09 16 23 01 08 15 22 25	April         May         June         July         August         September         October         November         December         January         Februa           05         12         19         26         03         10         17         24         31         07         14         21         28         05         12         19         26         03         10         17         24         31         07         14         21         28         05         12         19         26         03         10         17         24         31         07         14         21         28         05         12         19         26         02         70         04         11         18         25         01         08         15         22         29         06         13         20         27         14         17         24         31         07         14           14         24         24         25         01         108         15         22         29         06         13         20         27         04         11         18         25         14         14         14         14         14 <td< th=""></td<>
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AIP - Update & prepare for 2nd Sub AIP - 2nd Sub	36 0 28		20 1 20	<b>.</b>	AIP - Review by SO:
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AIP - SO Consent for DDA Submission		00 1 00	08-Sep-20		♦ AIP - SO Consent for DDA Submission ✓ AIP - E&M Tupnel Ventilation Design
AIP - E&M Tunnel Ventilation Design	214	02-Jan-20	19-Sep-20		
AIP - Draft - Preparation by Designer	108	02-Jan-20	16-May-20		AIP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	24	18-May-20	13-Jun-20		AIP - Draft - Final Review and prepare for 1st Sub
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AIP - 2nd Review by SO	28	23-Aug-20	19-Sep-20		AlP -:2nd; Review by SO
AIP - SO Consent for DDA Submission	0		19-Sep-20		◆ A/P -/SO /Conisent for DDA Submission
DDA - E&M Tunnel Ventilation Design	135	21-Sep-20	06-Mar-21		
DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20		DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20		DDA - Draft - Final Review; and pi
DDA - 1st Sub	0		16-Dec-20		◆ DDA - 1st Sub
DDA - Review by SO	28	17-Dec-20	13-Jan-21		DDA - Review by
DDA - Review by IP / DC	28	17-Dec-20	13-Jan-21		DDA - Review by
DDA - Further information required by SO	42	14-Jan-21	06-Mar-21		
AIP - E&M Air Purification System (WVB)	223	02-Jan-20	03-Oct-20		AIP ⊱ E&M Air Purificatión System (WVB)
AIP - Draft - Preparation by Designer	118	02-Jan-20	28-May-20		AIP - Draft - Preparation by Designer
AIP - Draft - Final Review and prepare for 1st Sub	24	29-May-20	26-Jun-20		AIP - Draft - Final Review and prepare for 1st Sub
AIP - 1st Sub	0		26-Jun-20		▲ AIP - 1st \$ub
AIP - Review by SO	28	27-Jun-20	24-Jul-20		AIP - Review by SQ
AIP - Review by IP / DC	28	27-Jun-20	24-Jul-20		AIP - Review by IP / DC
AIP - Update & prepare for 2nd Sub	36	25-Jul-20	04-Sep-20		AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		04-Sep-20		AIP - 2nd Sub
AIP - 2nd Review by SO	28	05-Sep-20	02-Oct-20		AlP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		03-Oct-20		◆ AIP - SO Consent for DDA Submission
DDA - E&M Air Purification System (WVB)	123	03-Oct-20	03-Mar-21		
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20		DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	12	30-Nov-20	12-Dec-20		DDA - Draft - Final Réview and prer
DDA - 1st Sub	0	40.5.00	12-Dec-20		◆ DDA + 1 st Sub
DDA - Review by SO	28	13-Dec-20	09-Jan-21		
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	+	
DDA - Further information required by SO AIP - E&M Fire Services Installation	42	11-Jan-21 15-Jun-20	03-Mar-21 04-Dec-20	<b>.</b>	AIP - E&M Fire Services Installation
					AIP - Draft - Preparation by Designer
AIP - Draft - Preparation by Designer AIP - Draft - Final Review and prepare for 1st Sub	48 24	15-Jun-20 12-Aug-20	11-Aug-20 08-Sep-20		AIP - Draft - Final Review and prepare for 1st Sub
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AIP - Review by 50 AIP - Review by IP / DC	28	09-Sep-20	06-Oct-20		AIP:- Review by IP / DC
AIP - Update & prepare for 2nd Sub	26	07-Oct-20	06-Nov-20		AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub	0		06-Nov-20		◆ AIP - 2nd \$ub
AIP - 2nd Review by SO	28	07-Nov-20	04-Dec-20		AIP - 2nd Review by SO
AIP - SO Consent for DDA Submission	0		04-Dec-20		♦ AIP - SO Çonşent for DDA Submission
DDA - E&M Fire Services Installation	48	05-Dec-20	02-Feb-21		₩ <mark>₩</mark> ₩₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽₽
DDA - Draft - Preparation by Designer	30	05-Dec-20	12-Jan-21		DDA - Draft - Prep
DDA - Draft - Final Review and prepare for 1st Sub	18	13-Jan-21	02-Feb-21		
Page 20 of 26 <ul> <li>Milestone</li> <li>Planned Bar</li> <li>Critical Activity</li> <li>Progress Milestone</li> <li>Progress Bar</li> <li>Summary</li> </ul>		ED/20	for	Trunk Road T2 and Developments at So ree Months Rolling F	BOUYGUES TRAVAUX PUBLICS18-Dec-1900V1WYu22-Feb-2001V0SPa/LLoWYu09-Apr-2001V1SPa/LLoWYu

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AIP - E&M MVAC	132	15-Jun-20	20-Nov-20						Y		AIP - E&M MVAC					
AIP - Draft - Preparation by Designer	48	15-Jun-20	11-Aug-20								AIP:- Draft - Preparation by Designer					
AIP - Draft - Final Review and prepare for 1st Sub	20	12-Aug-20	03-Sep-20								AIP - Draft - Final Review and prepare for 1st Sub					
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AIP - Review by SO	28	04-Sep-20	01-Oct-20								AIP - Review by SO					
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AIP - Update & prepare for 2nd Sub	18	03-Oct-20	23-Oct-20								AIP - Update & prepare for 2nd Sub					
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AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20					· · · · · · · · · · · · · · · · · · ·			Al⊫ - 2nd Review by SO					
AIP - SO Consent for DDA Submission	0		20-Nov-20								♦ AlP - SO Consent for DDA Submission					
DDA - E&M MVAC	70	21-Nov-20	17-Feb-21								DDA -					
DDA - Draft - Preparation by Designer	32	21-Nov-20	30-Dec-20					· · · · · · · · · · · · · · · · · · ·			DD'A - Draft - Preparation by					
DDA - Draft - Final Review and prepare for 1st Sub	17	31-Dec-20	20-Jan-21								DDA - Draft - Fin					
DDA - 1st Sub	0		20-Jan-21					+			◆ DDA - 1st \$ub					
DDA - Review by SO	28	21-Jan-21	17-Feb-21					· +								
DDA - Review by IP / DC	28	21-Jan-21	17-Feb-21													
AIP - E&M Plumbing & Drainage System	133	15-Jun-20	21-Nov-20								▼ AIP - E&M Plumbing & Drainage System					
AIP - Draft - Preparation by Designer	46	15-Jun-20	08-Aug-20					++++++++++++++++++++++++++++++++			AIP - Draft - Preparation by Designer					
AIP - Draft - Final Review and prepare for 1st Sub	18	10-Aug-20	29-Aug-20								AlP - Draft - Final Review and prepare for 1st Sub					
AIP - 1st Sub	0	00 A 00	29-Aug-20						4		AIP - 1st Sub     AIP - Review:by \$0     AIP - Review:by \$0					
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DDA - E&M Plumbing & Drainage System	65	23-Nov-20	09-Feb-21					+			◆ AlP - SO Consent for DDA Submission ▼					
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AIP - E&M Electrical Installation	101	24-Aug-20	22-Dec-20					+			AIP - E&M Electrical Installatio					
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AIP - Update & prepare for 2nd Sub	18	04-Nov-20	24-Nov-20								AIP - Update & prepare for 2nd Sub					
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AIP - SO Consent for DDA Submission	0		22-Dec-20								◆ AIP - SQ Consent for DDA Subm					
DDA - E&M Electrical Installation	43	23-Dec-20	17-Feb-21													
DDA - Draft - Preparation by Designer	25	23-Dec-20	23-Jan-21								DDA + Draft - P					
DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21					++								
AIP CLP Submission - Power Supply to EVB & WVB	91	05-Sep-20	23-Dec-20								AlP CLP Submission - Power Supp					
AIP - Draft - Preparation by Designer	18	05-Sep-20	25-Sep-20					+	4		AIP - Draft - Preparation by Designer					
AIP - Draft - Final Review and prepare for 1st Sub	12	26-Sep-20	12-Oct-20						4		AIP + Draft - Final Review and prepare for 1st Sub					
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AIP - Update & prepare for 2nd Sub	14	10-Nov-20	25-Nov-20					+	4		AIP - Update & prepare for 2nd Sub ♦ AIP - 2nd Sub					
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Page 21 of 26				<b>-</b>		То			147 1		Date Revision Checked Approved					
Data Date: 26-Jul-20		ED/20	18/04	Irun	k Road	12 and	i Intrast	ructur	e Works	S   🦯	05-Nov-19 00V0 WYu					
Critical Activity			for	Πον	elopmer	nte at C	South A	nron			BOUYGUES 18-Dec-19 00V1 WYu					
<ul> <li>Progress Milestone</li> </ul>			101	Dev	eichillei	no al C		pion			BOUYGUES TRAVAUX PUBLICS 22-Feb-20 01V0 SPa/LLo WYu					
Progress Bar			<b></b> -		4 I	N - 11'					09-Apr-20 01V1 SPa/LLo WYu					
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Activity Name	Dur	01V2 Start	01V2 Finish	
				January February March April May June July August September October November December January February 9 05 12 19 26 02 09 16 23 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 06 13 20 27 03 10 17 24 31 07 14 21
Drainage & Sewerage	36	02-Jun-20	15-Jul-20	
Section B (Drainage & Sewerage)	36	02-Jun-20	15-Jul-20	Section B (Drainage & Sewerage)
[STE] District Cooling System for AMAWBC Section 6B	240	10-Aug-20	02-Jun-21	
DCS Section 6B	240	10-Aug-20	02-Jun-21	
DCS - Material Procurement for Section 6B	96	10-Aug-20	02-Dec-20	DCS - Material Procurement for Section 6B
DCS - Section D	78	03-Dec-20	10-Mar-21	
DCS - Section C	144	03-Dec-20	02-Jun-21	
[STE] District Cooling System - Remaining Section 7B	96	17-Dec-20	19-Apr-21	
Road L10S	96	17-Dec-20	19-Apr-21	
DCS - Material Procurement for Section 7B	96	17-Dec-20	19-Apr-21	
DCS - Pipe Installation under DPR	21	21-Jan-21	17-Feb-21	
Foot Bridge FB-02	72	02-Jan-21	30-Mar-21	
Temporary Ramp provision	72	02-Jan-21	30-Mar-21	
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road Junct	60	19-Jan-21	01-Apr-21	
HBR/CYS/WCR TTA Phase 1	60 144	19-Jan-21 20-Jul-20	01-Apr-21 09-Jan-21	
AT-GRADE ROAD [AGR]				
Permanent Structure	144	20-Jul-20	09-Jan-21	
AGR - Formation to required level + SRT	18	20-Jul-20	08-Aug-20	
AGR - Sub-base + SRT AGR - Drainage & Gully Installation part 1	18 24	10-Aug-20 31-Aug-20	29-Aug-20 26-Sep-20	
AGR - Drainage & Gully Installation part 1 AGR - Drainage & Gully Installation part 2	24	28-Sep-20	28-Oct-20	AGR - Drainage & Guly installation part 2
AGR - Base Slab Structure part 1	60	28-Sep-20	09-Dec-20	AGR - Başe Slab Structure part 1
AGR - Base Slab Structure part 2	60	29-Oct-20	09-Jan-21	AGR + Başe Slab/Structur
Stage 2B Completion	0		09-Jan-21	◆ Stage 2B Completion
DEPRESSED ROAD [DPR]	279	06-Mar-20	10-Feb-21	
ELS system & Foundation	167	06-Mar-20	25-Sep-20	V ELS system & Foundation
Mobilization	24	06-Mar-20	02-Apr-20	Mobilization
DPR - Predrill for H-piles foundation	24	04-May-20	30-May-20	DPR - Prèdrill for H-piles foundation
DPR - Sheet pile Installation 50% complete	42	21-May-20	10-Jul-20	DPR-Sheet pile Installation 50% complete
DPR - Sheet pile Installation 100% complete	42	11-Jul-20	28-Aug-20	
DPR - H-pile Drilling / Installation / Grouting	24	01-Aug-20	28-Aug-20	DPR-H-pile Drilling / Installation / Grouting
DPR - Pile Load Test	10	29-Aug-20	09-Sep-20	
DPR - King Post for ELS	24	29-Aug-20	25-Sep-20	DPR - King Post for ELS
Excavation & Strutting	126	10-Sep-20	10-Feb-21	
DPR - Pump wells & Pump test DPR - CH5962-6008 - Excavation S1	36	10-Sep-20 24-Oct-20	23-Oct-20 21-Nov-20	DPR-Pump wells & Pump test
DPR - CH5902-0000 - Excavation S1 DPR - CH6008-6080 - Excavation to Strut S1	24 21	24-Oct-20 24-Oct-20	21-NOV-20 18-Nov-20	
DPR - CH6080-6150 - Excavation to S1	18	24-Oct-20	14-Nov-20	
DPR - CH6080-6150 - Strut S1 Installation	12	16-Nov-20	28-Nov-20	
DPR - CH6008-6080 - Strut S1 Installation	12	19-Nov-20	02-Dec-20	DPR-CH6008-6080 - Strut S1 Installation
DPR - CH6080-6150 - Excavation to S2	12	30-Nov-20	12-Dec-20	DPR - CH6080-6150 - Excavation to S2
DPR - CH6008-6080 - Excavation to Strut S3	20	03-Dec-20	28-Dec-20	
DPR - CH6080-6150 - Strut S2 Installation	12	14-Dec-20	29-Dec-20	DPR - CH6080-6150 - Strut S2
DPR - CH6008-6080 - Strut S3 Installation	12	29-Dec-20	12-Jan-21	
DPR - CH6080-6150 - Excavation to S3	12	30-Dec-20	13-Jan-21	
DPR - CH6008-6080 - Excavation to FEL DPR - CH6080-6150 - Strut S3 Installation	7 12	13-Jan-21 14-Jan-21	20-Jan-21 27-Jan-21	DPR - CH6008-608
DPR - CH6080-6150 - Strut S3 Installation DPR - CH6080-6150 - Excavation to S4	12	28-Jan-21	10-Feb-21	
WEST VENTILATION BUILDING [WVB]	122	23-Oct-20	22-Mar-21	
ELS system & Foundation	122	23-Oct-20	22-Mar-21	
Mobilization & Predrilling for H-piles Foundation	48	23-Oct-20	18-Dec-20	Mobilization & Predrilling for H-piles F
WVB - Sheet Piles Installation 50% completion	48	24-Nov-20	21-Jan-21	WVB-Sheet Piles
WVB - H-piles Drilling / Installation / Grouting 50% completion	66	19-Dec-20	12-Mar-21	
WVB - Sheet Piles Installation 100% completion	48	22-Jan-21	22-Mar-21	
Page 23 of 26   Milestone				Date Revision Checked Approved
Planned Bar		ED/20	)18/04	Trunk Road T2 and Infrastructure Works
Data Date: 26-Jul-20				
Progress Milestone			tor	or Developments at South Apron BOUYGUES TRAVAUX PUBLICS BOUYGUES CONTRACT OF CONTRACTOR OF CONTRACT OF CONTRACTO OF CONTRACT OF CONTRACT OF CONTRACTO OF CONTRACT
Progress Bar				09-Apr-20 01V1 SPa/LLo WYu
V Summary			Th	hree Months Rolling Programme

Activity Name		01V2 Start	01V2 Finish	2020 2021
				January February March April May June July August September October November December January February
SUPPORTING UNDERGROUND STRUCTURE [SUS]	48	02-Jan-20	29-Feb-20	9       10       10       10       15       22       29       05       12       19       26       03       10       17       24       31       07       14       21       19       26       02       09       16       23       30       06       13       20       27       03       10       17       24       31       07       14       21       19       26       02       09       16       23       30       06       13       20       27       03       10       17       24       31       07       14       21       14       21       14       21       14       21       12       19       26       02       09       16       23       30       06       13       20       27       03       10       17       24       31       07       14       21       14       21       14       21       14       14       21       14       14       21       14       14       14       21       14       14       14       21       14       14       14       14       14       14       14       14       14       14       14
Site Inspection	10	02-Jan-20	29-Feb-20	▼ Site Inspection
	40			Condition Sutvey to verify SUS as-built
Condition Survey to verify SUS as-built		02-Jan-20	29-Feb-20 10-Mar-21	
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	358	23-Dec-19		
Dwall & Ground Treatment	358	23-Dec-19	10-Mar-21	
Site Establishment	118	23-Dec-19	21-May-20	v Sité Establishment
Procurement process for Dwall / Ground Treatment	72	23-Dec-19	21-Mar-20	Procuremient process for Dwall / Ground Treatment
Tentative KL/2014/03 Contract completion	0		31-Dec-19	Tentative KL/2014/03 Contract completion
Site Investigation & Existing UU identification	36	02-Jan-20	15-Feb-20	Site Investigation & Existing (JU identification
Existing UU Diversion / Removal	36	17-Feb-20	28-Mar-20	Existing UU Diversion / Removal
Grout Curtain along Public Lab - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	Grout Curtain along Public Lab - Site Setup & Rig mobilization
CSM - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	CSM Site Setup & Rig mobilization
Dwall - Site Setup & Rig mobilization	18	23-Mar-20	16-Apr-20	Dwall + Site Setup & Rig mobilization
Dwall Pre-drilling - Stage 1	12	30-Mar-20	16-Apr-20	Dwall Pre-drilling - Stage 1
Dwall Pre-drilling - Stage 2	28	17-Apr-20	21-May-20 22-Jun-20	Grout Curtain along Public Lab
Grout Curtain along Public Lab		17-Apr-20		li i i i i i i i i i i i i i i i i i i
Rig mobilization at Portion N1,N2,N3	12	17-Apr-20	02-May-20	Rig mobilization at Portion N1, N2, N3
Grout Curtain along Public Lab	43	04-May-20	22-Jun-20	Grout Cùrtaib all ng Public Lab
Shaft Dwall	221	17-Apr-20	11-Jan-21	▼ Shaft;Dw;
C&C/LS - Guide Wall Construction - Stage 1	28	17-Apr-20	21-May-20	Bid mobilitatics of Police N1149-12
Rig mobilization at Portion N1,N2,N3	28	17-Apr-20	21-May-20	Rig móbilization at Portion N1/N2/N3
C&C/LS - Dwall & Barrettes 20%	42	22-May-20	11-Jul-20	C&C/LS Dwall & Barrettes 20%
C&C/LS - Guide Wall Construction - Stage 2 C&C/LS - Dwall & Barrettes 40%	69 38	22-May-20 13-Jul-20	12-Aug-20	C&C/LS - Guide Wall Construction - Stage 2 C&C/LS - Dwall & Barréttes 40%
C&C/LS - Dwall & Barrettes 40% C&C/LS - Dwall & Barrettes 60%	38	26-Aug-20	25-Aug-20 10-Oct-20	C&C/LS - Dwall & Barrettes 40%
C&C/LS - Dwall & Barrettes 80%	38	26-Aug-20 12-Oct-20	25-Nov-20	C&C/LS - Dwall & Barrettes 80%
C&C/LS - Dwall & Barrettes 100%	30	26-Nov-20	11-Jan-21	C&C/LS - Dwall & Barrel
Break-in Plug	268	17-Apr-20	10-Mar-21	
B/I Plug - CSM	66	17-Apr-20	07-Jul-20	B/ Plug- QSM
B/I Plug - CSW B/I Plug - Perimeter Wall + Separation Wall	47	17-Apr-20 12-Jan-21	10-Mar-21	
Shaft Excavation & Strutting	30	12-Jan-21	18-Feb-21	
	30	12-Jan-21	18-Feb-21	
C&C / LS Capping Beam / Pump Test - Lead Time SUB-SEA TBM TUNNEL - WESTBOUND	30	12-Jan-21 29-Feb-20	23-Mar-21	
TBM Design / Fabrication / FAT / Delivery	312	29-Feb-20	18-Mar-21	
Place Order	72	29-Feb-20	29-May-20	Place Order
Design	72	30-May-20	24-Aug-20	Design
Fabrication	168	25-Aug-20	18-Mar-21	
Precast Fabrication	132	12-Sep-20	23-Feb-21	
Concrete Mix - Plant Trial	72	12-Sep-20	08-Dec-20	Conjorefe Mix - Plant Trial
Precast TBM Segment - Mould Fabrication & Setup	72	12-Sep-20	08-Dec-20	Precast TBM Segment - Mould Fabrication
Precast TBM Segment - Master Ring Erection & Inspection	24	09-Dec-20	08-Jan-21	Precast TBM Segment - N
Precast TBM Segment - Mass Production Start	0	09-Jan-21	22 Eab 04	♦ Precast TBM Segment - N
Precast TBM Segment - 3% Site Establishment	36	09-Jan-21	23-Feb-21	
	269	29-Apr-20	23-Mar-21	
Temporary CLP 132kV Substation	240	04-Jun-20	23-Mar-21	
Temp CLP 132kV Substation - Earth works & Civil works	72	04-Jun-20	28-Aug-20	Temp/CLP 1324V Substation - Earth works & Civil works
Temp CLP 132kV Substation - ABWF & E&M for CLP Access	72	29-Aug-20	24-Nov-20	Temp CLP 132kV Substation - ABWF & E&M for C ◆ Temp CLP 132kV Substation - CLP Access
Temp CLP 132kV Substation - CLP Access	0	25-Nov-20	22 Mar 04	v emp cLr 132kV Substation - CLP Access
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	96	25-Nov-20	23-Mar-21	
Precast Elements Storage Yard	72	18-Jun-20	11-Sep-20	▼ Precast Elements Storage Yard
Precast Storage - Preparation	36	18-Jun-20	31-Jul-20	
Precast Storage - Gantry Crane Setup	36	01-Aug-20	11-Sep-20	Precast Storage - Gantry Crane Setup  DG Store / Medical Lock
DG Store / Medical Lock	144	29-Apr-20	20-Oct-20	
Page 24 of 26				Date Revision Checked Approved
Page 24 of 26			110/04	
Data Date: 26-Jul-20 Planned Bar			110/04	
Critical Activity			for	BOUVELIES 18-Dec-19 00V1 WYu

Critical Activity Progress Milestone **◇** 

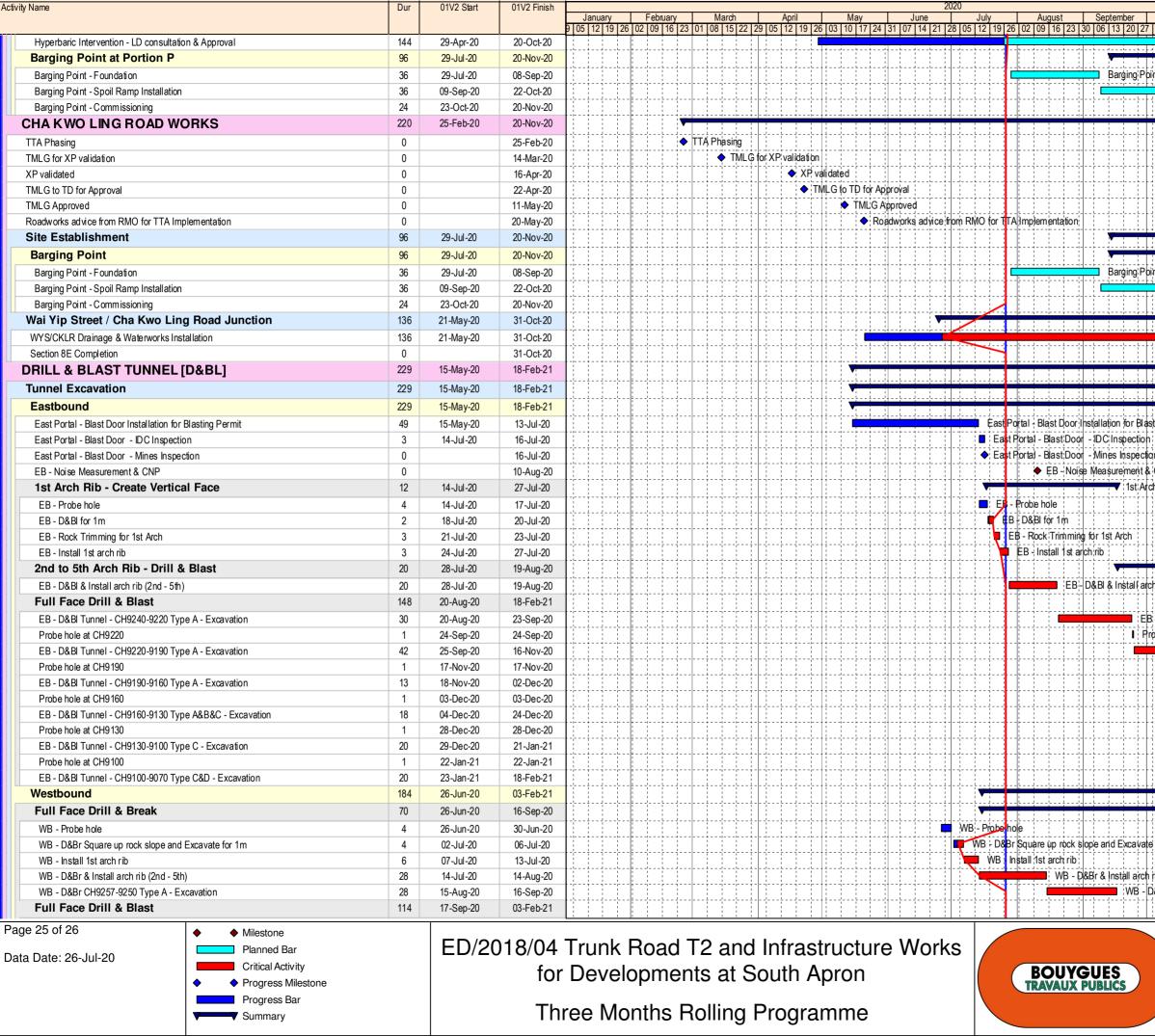
> Progress Bar Summary

## for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme

WYu 00V1 18-Dec-19 SPa/LLo WYu 22-Feb-20 01V0 09-Apr-20 01V1 SPa/LLo WYu 17-Jul-20 01V1 SPa/LLo WYu



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Activity Name	Dur	01V2 Start	01V2 Finish							2020						20	21
				January	February	March	n April	May	June	July	August	September	October	November Deo	ember	January	February
				9 05 12 19 2	6 02 09 16	23 01 08 15	22 29 05 12 1	9 26 03 10 17	24 31 07 14 2	1 28 05 12 19	26 02 09 16 23	3 30 06 13 20 2	27 04 11 18 25	01 08 15 22 29 06	13 20 27 0	03 10 17 24	31 07 14 21
WB- Blast Door Installation	24	17-Sep-20	16-Oct-20										WB-	Blast Door Installation			
WB- D&BI start	0		16-Oct-20										◆ WB-	D&Bl start			
WB - D&BI Tunnel - CH9250-9230 Type A - Excavation	31	17-Oct-20	23-Nov-20											WB - D&	3I Tunnel - C	CH9250-9230	Type A - Excava
Probe hole at CH9230	1	24-Nov-20	24-Nov-20											I Probe ho	le at CH923	0	
WB - D&BI Tunnel - CH9230-9200 Type A - Excavation	34	25-Nov-20	06-Jan-21													WB - D&B	l Tunnel - CH923
Probe hole at CH9200	1	07-Jan-21	07-Jan-21													Probe hole	e at CH9200
WB - D&BI Tunnel - CH9200-9170 Type A - Excavation	23	08-Jan-21	03-Feb-21														WB - D&BI
													• • • • •				

Page 26 of 26	♦ Milestone		
Data Date: 26-Jul-20	Planned Bar	ED/2018/04 Trunk Road T2 and Infrastructure Works	
	Critical Activity	for Developments at South Apron	BOUYGUES
	Progress Milestone		TRAVAUX PUBLICS
	Progress Bar	Three Months Rolling Programme	

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
/	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V1	SPa/LLo	WYu