Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

August 2021

(Version 1.0)

Approved By	-
	(Environmental Team Leader: Mr. KS Lee)

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

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17 September 2021

By Post and Email

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 (August 2021) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for August 2021 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 15 September 2021. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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 3.4 of EP-451/2013.

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

Y H Hui Independent Environmental Checker

c.c.

CEDD BTP Cinotech Attn.: Mr. Tommy Wong Attn.: Mr. Ivan Chau Attn.: Mr. K. S. Lee Fax: 2739 0076 By email Fax: 3107 1388

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TABLE OF CONTENTS

		Page
EX	XECUTIVE SUMMARY	1
	Introduction Summary of Main Works Undertaken and Key Measures Implemented	1
	Summary of Exceedances, Investigation and Follow-up Complaint Handling, Prosecution and Public Engagement	2
	Reporting Changes Future Key Issues	
	Review of Status and Location of Monitoring Stations	
1	INTRODUCTION	
	Background	
	Purpose of the Report Project Organizations	
	Construction Activities undertaken during the Reporting Month	
	Summary of EM&A Requirements	6
	Status of Environmental Licensing and Permitting	7
2	AIR QUALITY	
	Monitoring Requirement	
	Monitoring Locations	
	Monitoring Parameters and Frequency Monitoring Equipment	
	Monitoring Methodology	
	Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
3	NOISE	14
	Monitoring Requirements	14
	Monitoring Locations	
	Monitoring Parameters, Frequency and Duration Monitoring Equipment	
	Monitoring Methodology and QA/QC Procedure	
	Maintenance and Calibration	16
	Results and Observations	
	Comparison of EM&A Result with EIA Prediction	
4	WATER QUALITY	
	Monitoring Requirement	
5	MARINE ECOLOGY	
6	FISHERIES	
7	LANDSCAPE AND VISUAL	
8	CULTURAL HERITAGE	
9	WASTE MANAGEMENT	

10	ENVIRONMENTAL AUDIT	23
	Site Audits	
	Implementation Status of Environmental Mitigation Measures	
	Implementation Status of Event and Action Plans	24
	Status of Required Submission under Environmental Permit	
11	ENVIRONMENTAL NON-CONFORMANCE	26
	Summary of Complaint, Warning, Notification of any Summons and Successful I Summary of Exceedance	
12	FUTURE KEY ISSUES	
	Monitoring Schedule	
13	CONCLUSIONS AND RECOMMENDATIONS	27
	Conclusions	
	Recommendations	

LIST OF TABLES

Table I	Summary of Complaint/Summons/Prosecution in the Reporting Month
Table II	Summary Table for Site Activities in the next Reporting Period
Table III	Summary Table for Review of Status and Location of Monitoring Stations
Table 1.1	Key Project Contacts
Table 1.3	Summary of Environmental License and Permit
Table 2.1	Air Quality Monitoring Locations
Table 2.2	Frequency and Parameters of Air Quality Monitoring
Table 2.3	Air Quality Monitoring Equipment
Table 2.4	Major Dust Source during Air Quality Monitoring
Table 2.5	Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report (not used)
Table 2.6	Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report
Table 3.1	Noise Monitoring Stations
Table 3.2	Frequency and Parameters of Noise Monitoring
Table 3.3	Noise Monitoring Equipment
Table 3.4	Major Noise Source during Noise Monitoring
Table 3.5	Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6	Comparison of Noise Monitoring Data with Predictions in EIA Report
Table 3.7	Additional Noise Monitoring Results
Table 7.1	Construction Phase Landscape and Visual Mitigation Measures
Table 7.2	Construction Phase Audit Checklist for Landscape and Visual Mitigation Measures
Table 10.1	Observations and Recommendations of Site Audit
Table 10.2	Status of Required Submission under Environmental Permit

LIST OF FIGURES

Figure 1.1	Layout Plan of	of the Project Site
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- Figure 1.2
- Project Organisation for Environmental Monitoring and Audit Locations of Air Quality and Construction Noise Monitoring Stations Figure 2

LIST OF APPENDICES

- Appendix A Action and Limit Levels
- Appendix B Environmental Monitoring Schedules
- Appendix C Copies of Calibration Certificates for Air Quality Monitoring
- Appendix D Weather Information
- Appendix E 1-hour TSP Monitoring Results and Graphical Presentations (not used)
- Appendix F 24-hour TSP Monitoring Results and Graphical Presentations
- Appendix G Copies of Calibration Certificates for Noise Monitoring
- Appendix H Noise Monitoring Results and Graphical Presentations
- Appendix I Site Audit Summary
- Appendix J Event and Action Plans
- Appendix K Environmental Mitigation Implementation Schedule (EMIS)
- Appendix L Summaries of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
- Appendix M Summary of Exceedance
- Appendix N Tentative Construction Programme
- Appendix O Waste Generated in the Reporting Month

EXECUTIVE SUMMARY

Introduction

1. This is the 18th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of August 2021.

Summary of Main Works Undertaken and Key Measures Implemented

2. The main works undertaken during the reporting period are as follows:

Kai Tak:

- Launching shaft- Excavation, Cell1/2 Base Slab construction, Tympanum
- Hoi Bun Road Junction Road Improvement works
- Road S20 Road and Drain works
- Road L10 Excavation and ELS
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM delivery
- STP Civil works, Trenches, Tanks Erection and Assembly
- Segment Yard Civil Works
- Foot Bridge (FT-02) H pile installation and Temporary Ramp Construction
- Mortar Plant civil works and assembly, Aggregates Wall Construction
- District Cooling System works at Section 6B
- Depressed Road- Capping Beam, Excavation, Strut Installation, Base Slab, Drainage Installation, DCS Pipe Installation
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building- King post Installation, Wells Installation
- Section 6A Junction & Entrance Sheet Pile
- Workshop Civil Work
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Air Quality

- Water spraying regularly on construction site area to avoid dust generation.
- Excavated dusty materials were covered by impervious sheets.

Noise

- Air compressor was operated with door closed and have valid noise labels.
- Use of Quality Powered Mechanical Equipment (QPME)
- Erecting noise barriers on site to minimize noise impact generated from breaking activities.
- Wrapping up the breaker with acoustic insulation sheets.

Water Quality

• WetSep was constructed to treat the surface runoff prior to discharge.

Landscape and Visual

• Tree protection zone were fenced off to protect the existing tree.

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (August 2021) and the investigation results and/or follow-up actions:

Air Quality Monitoring

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

Construction Noise Monitoring

- No Limit Level exceedance for day time construction noise was recorded in this reporting month.
- No Action Level exceedance was recorded in this reporting month.

Landscape and Visual Monitoring and Audit

• No non-compliance of the landscape and visual impact was recorded in the reporting month. The implementation of landscape and visual and mitigation measures was checked by a Registered Landscape Architect (RLA) during the environmental site inspections.

Complaint Handling, Prosecution and Public Engagement

Table I Summary of Complaint/Summons/Prosecution in the Reporting Month

Event	Even	t Details	Follow-up/	Status/
Event	Number	Brief Description	Remedial Actions	Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

The key works or activities will be anticipated in the next reporting period are as follows: 6.

Table II Summary Table for Site Activities in the next Reporting Period

Site Activities (September 2021)	Key Environmental Issues
 Depressed Road- Road Slab, South Apron Adit Wall Launching shaft –Tympanum Westbound TBM Assembly Eastbound TBM Delivery and Assembly C&C Permanent Base Slab, S5 & S6 Removal Road L10 - RC Structure 	(A) / (B) / (C) / (D)
 CUE Section 6A Junction- RC structure Workshop Assembly Segment Yard- Gantry Crane Erection West Ventilation Building – Pumping Test, Steel Deck Erection, Excavation, Steel Strut Installation 	

(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.

Review of Status and Location of Monitoring Stations

7. According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in August 2021 and the review of status and location of monitoring stations are summarized as follow:

Table III	Sur	nmary Table	for Review	of Status	and Lo	ocation	of Monit	oring Stations

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2d	ET has reviewed the status and location	
KER1	of KER1, KTD 1, KTD2d, CKL1 and CKL2. To conclude, the environmental	
KTD 1	monitoring conducted at KER1, KTD 1,KTD2d, CKL 1 and CKL 2 are appropriate, and the monitoring results	N/A
CKL 1	reflect how the sensitive receiver(s) is/are impacted by the construction	
CKL 2	activities of the Project.	

N/A: Not Applicable

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 at Kai Tak area under this Contract is governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the T2 Main Works are shown in Figure 1 and the works to be executed under this Contract and corresponding EP is 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

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: () in EP2/K19/A/21 pt. 6 and () in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: () in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative

based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 3 May 2021 (EPD reference: () in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

Monitoring Works in Cha Kwo Ling under EP-451/2013

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 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

1.7 This is the 18th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in August 2021.

Project Organizations

- 1.8 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)

1.9 The key contacts of the Project are shown in **Table 1.1**.

	Party	Role	Contact Person	Phone No.		
	CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111		
	HMJV	Supervisor Representative	Mr. Joe Nam	5183 0830		
Cin	Circotool	Eurine numeritel Team	Mr. KS Lee (ETL)	2151 2091		
	Cinotech	Environmental Team	Ms. Karina Chan	2157 3880		

Table 1.1Key Project Contacts

Party	Role	Contact Person	Phone No.
Ramboll	Independent Environmental Checker		
BTP Contractor		Ms. Ality Chan	5185 4462

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

Construction Activities undertaken during the Reporting Month

1.11 The major site activities undertaken in the reporting month included:

Kai Tak:

- Launching shaft- Excavation, Cell1/2 Base Slab construction, Tympanum
- Hoi Bun Road Junction Road Improvement works
- Road S20 Road and Drain works
- Road L10 Excavation and ELS
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM delivery
- STP Civil works, Trenches, Tanks Erection and Assembly
- Segment Yard Civil Works
- Foot Bridge (FT-02) H pile installation and Temporary Ramp Construction
- Mortar Plant civil works and assembly, Aggregates Wall Construction
- District Cooling System works at Section 6B
- Depressed Road- Capping Beam, Excavation, Strut Installation, Base Slab, Drainage Installation, DCS Pipe Installation
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building- King post Installation, Wells Installation
- Section 6A Junction & Entrance Sheet Pile
- Workshop Civil Work

Summary of EM&A Requirements

- 1.12 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.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 1.14 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 August 2021.

Status of Environmental Licensing and Permitting

1.15 All permits/licenses obtained for the Project are summarized in Table 1.3.

	Valid		
Permit / License No.	From	То	Status
Environmental Permit (EP)			
EP-451/2013	19 Sep 2013	N/A	Valid
Notification pursuant to Air Pollution (Const	truction Dust) F	Regulation	
Ref. No.: 451120	20 Nov 2019	N/A	Valid
Billing Account for Construction Waste Disp	osal		
A/C No.: 7036016	09 Dec 2019	N/A	Valid
Billing Account for Vessel Disposal			
A/C No.:7037747 (Application No.: CEDD01108)	29 Jun 2021	25 Oct 2021	Valid
Construction Noise Permit	I	L	I
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0168-21	28 Feb 2021	22 Aug 2021	Expired on 22 Aug 2021
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0816-21	24 Aug 2021	23 Feb 2022	Valid
CNP No. (For Portion Depressed Road): PP- RE0004-21	5 Feb 2021	3 Aug 2021	Expired on 03 Aug 2021
CNP No. (For Launching Shaft and Barging Point): GW-RE0342-21	28 Apr 2021	27 Oct 2021	Valid
CNP No. (For Site Office and Support Area): GW-RE0534-21	16 Jun 2021	14 Dec 2021	Valid
CNP No. (For Launching Shaft and Kai Hing Road): GW-RE0602-21	1 Jul 2021	30 Nov 2021	Valid
CNP No. (For West Ventilation Building): PP-RE0023-21	3 Aug 2021	31 Jan 2022	Valid
Wastewater Discharge License			
WT00036183-2020 (For Depressed Road Area)	28 Jul 2020	31 Jul 2025	Valid
WT00036228-2020 (For Launching Shaft)	28 Jul 2020	31 Jul 2025	Valid
Chemical Waste Producer License			
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid

2 AIR QUALITY

Monitoring Requirement

2.1 According to the EM&A Manual (AEIAR-174/2013), 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 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. 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.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 2.1 Air Quality Monitoring Locations

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quanty Monitoring				
Monitoring Stations	Parameter	Period	Frequency	
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)	
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days	

Table 2.2 Frequency and Parameters of Air Quality Monitoring

Monitoring Equipment

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, 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.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Equipment	Model	Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723,	5
11 v S Sampler	1956, 10595, 1316, 5280)	5
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
wind Anemometer	(Serial no. MC01010A44)	1

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-3B/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

- 2.9 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

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was 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). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.11 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

- 2.12 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 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). 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 $0.3 \mu m$ 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 (High Precision Chemical Testing 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 ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

- 2.13 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

- 2.14 Impact air quality monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**.
- 2.15 No Action and Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month. Details of the exceedance are presented in **Appendix M**.
- 2.16 The air temperature, relative humidity, and the precipitation data were obtained from daily extracts of Hong Kong Observatory Climate Information Service. This weather information for the reporting month is summarized in **Appendix D**.
- 2.17 The monitoring data and graphical presentations of 24-hour TSP monitoring results are shown in **Appendix F**.
- 2.18 According to field observations observed in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source		
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	 Project related construction activities (i.e., Loading and unloading of C&D wastes, sheet piling, crushing of material); Vehicle movement in the site; 		
KER 1 – Future Residential Development at Kerry Godown	 Construction activities at the nearby construction sites of New Acute Hospital; and, Road traffic along Shing Fung Road, Shing Cheong Road, Cheung Yip Street, Kai Hing Road and Kwun Tong Bypass. 		
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	 Project related construction activities (i.e., Loading and unloading of C&D material, crushing of material); and, Vehicle movement in the site; 		
CKL1 - Flat 121 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road		
CKL2 - Flat 103 Cha Kwo Ling Village	Road Traffic along Cha Kwo Ling Road		

Table 2.4 Major Dust Source during Air Quality Monitoring

Comparison of EM&A Result with EIA Prediction

2.19 The air monitoring data was compared with the predictions in Table 4.14 of EIA Report, AEIAR-174/2013 (as approved in 2013) as summarised in **Table 2.6** for 24-hour TSP.

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 174/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (August 2021), µg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	36.3
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	49.1
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	167.3
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	127.7
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	84.1

Remarks:

(1) No 24-hr TSP concentration was predicted in EIA Report (AEIAR-174/2013)

2.20 In the reporting month the 24-hour TSP concentration at KER1 and KTD1were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

3 NOISE

Monitoring Requirements

3.1 According to the EM&A Manual (AEIAR-174/2013), 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 KTD1, KTD2d, KER1, CKL1 and CKL2 in the reporting period. **Table 3.1** and **Figure 2** show the locations of these stations.
- 3.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

Monitoring Stations	Location
KTD1	Centre of Excellence in Paediatrics (Children's Hospital)
KTD2d	Next to the SOR Office of Trunk Road T2 in Kai Tak Area
KER1	Future Residential Development at Kerry Godown
CKL1	Flat 121 Cha Kwo Ling Village
CKL2	Flat 103 Cha Kwo Ling Village

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

Table 5.2 Frequency and Farameters of Roise Monitoring					
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2d				L ₁₀ (30 min.) dB(A)	Free Field Measurement
KER1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Free Field Measurement
CKL1	weekdays			$L_{eq}(30 \text{ min.})$	Free Field Measurement
CKL2				dB(A)	Free Field Measurement

Table 3.2Frequency and Parameters of Noise Monitoring

Monitoring Equipment

3.5 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 within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 580156, 580287)	2
Calibrator	ST-120 (Serial no. 181001608, 181001636)	2

Monitoring Methodology and QA/QC Procedure

- 3.6 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_{eq} , L_{90} and L_{10} 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

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.9 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

- 3.10 Impact noise monitoring was conducted at five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix B**. No Action/ Limit Level exceedance was recorded for day time construction noise monitoring in the reporting month.
- 3.11 Noise monitoring results and graphical presentations are shown in Appendix H.
- 3.12 According to field observations observed in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Monitoring Stations	Major Noise Source
KTD 1	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; Road traffic along Shing Cheong Road; and, Non-project related construction activities at the nearby construction site of New Acute Hospital.
KTD 2d	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); and, Vehicle movement in the site
KER 1	 Road traffic along Kai Hing Road. Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)
CKL1	Road traffic along Cha Kwo Ling Road.
CKL2	Road traffic along Cha Kwo Ling Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

3.13 The baseline noise level and the Noise Limit Level at each designated noise monitoring station are presented in **Table 3.5**.

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)
KTD1	78	
KTD2d	64	
KER1	65	75
CKL1	72.4	
CKL2	71.4	

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 5.13 of EIA Report (AEIAR-174/2013) as summarised in **Table 3.6**.

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (August 2021), Leq (30min) dB(A)
KTD 1 - Centre of Excellence in Paediatrics		74	72.9
(Children's Hospital)	KTD1	74	73.8
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	74.8
KER 1 – Future Residential Development at Kerry Godown	KER1	75	72.4
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	72.9
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75.1

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Remarks:

(1): No Maximum Predicted Mitigated Construction Noise Levels was predicted in EIA Report (AEIAR-174/2013)

3.15 The results at CKL1 and CKL2 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-174/2013 (as approved in 2013), this may be due to fluctuations of traffic flow along Cha Kwo Ling Road throughout the day. Besides, the result at KER1 and KTD1 were lower than the maximum predicted mitigated construction noise level in the EIA Report. No Action/ Limit Level exceedance were recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

- 4.1 According to Section 4.3.1.1 of EM&A Manual (AEIAR-174/2013), no water quality monitoring is required during the construction phase.
- 4.2 According to Section 4.3.1.5 of EM&A Manual (AEIAR-174/2013), compliance site audits are to be undertaken by the Engineer and ET and escorted by the Contractor to ensure that a valid discharge license has been issued by the EPD prior to the discharge of the effluent from the construction activities of the Project site. Monitoring of the quality of the treated effluent from the works areas should be carried out in accordance with the Water Pollution Control Ordinance (WPCO) license. The audit results reflect whether the effluent quality is in compliance with the discharge license requirements, the summaries of site audits are attached in **Appendix I**.
- 4.3 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.

5 MARINE ECOLOGY

- 5.1 According to Section 5.3.1.1 of EM&A Manual (AEIAR-174/2013), ET will be required to undertake audit of good site practice for habitat protection as detailed below. The summaries of site audits are attached in **Appendix I**.
 - Avoid damage and disturbance to the remaining and surrounding natural habitat;
 - Ensure placement of equipment is within designated areas within the existing disturbed land;
 - Ensure construction activities are restricted to within the proposed works boundary;
 - Ensure spoil heaps are be covered at all times;
 - Ensure that disturbed areas are reinstated immediately after completion of the works; and
 - Ensure enhancement planting works undertaken.

6 FISHERIES

- 6.1 According to Section 6.3.1.2 of EM&A Manual (AEIAR-174/2013), no specific fisheries monitoring and audit programme is required during the construction phase.
- 6.2 The implementation of the water quality mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 6 of the EIA Report (AEIAR-174/2013)) will be audited as part of the EM&A procedures during the construction period and the details are presented in Section 4.2 of this Report. The summaries of site audits are attached in Appendix I.

7 LANDSCAPE AND VISUAL

7.1 According to the EM&A Manual (AEIAR-174/2013), a series of mitigation measures were recommended to ameliorate the landscape and visual impacts of the Project. The mitigation measures for construction stage are summarized in Table 7.1 below and provided in Appendix K:

ID No.	Landscape and Visual Mitigation Measure
CM1	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.
CM2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.
CM3	Not used.
CM4	Not used.
CM5	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.
CM6	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance
CM7	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.
CM8	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.

 Table 7.1
 Construction Phase Landscape and Visual Mitigation Measures

- 7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.
- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by

RLA in the reporting month.

- 7.4 According to Section 7.3.1.2 of the EM&A Manual (AEIAR-174/2013), site audits shall be undertaken at least once every two weeks throughout the construction period to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 7.5 The broad scope of the audit is detailed below but should also be undertaken with reference to the more specific checklist provided in **Table 7.2**. The summaries of site audits are attached in **Appendix I**:
 - The extent of the agreed works areas should be regularly checked during the construction phase. Any trespass by the Contractor outside the limit of the works, including any damage to existing trees and soft landscape areas shall be prohibited;
 - the progress of the engineering works should be regularly reviewed on site to identify the earliest practical opportunities for the landscape works to be undertaken;
 - all existing trees and vegetation within the study area which are not directly affected by the works are retained and protected;
 - the methods of protecting existing vegetation proposed by the Contractor are acceptable and enforced;
 - preparation, lifting transport and re-planting operations for any transplanted trees;
 - all landscaping works are carried out in accordance with the specifications;
 - the planting of new trees, shrubs, groundcover, climbers, ferns, grasses and other plans, together with the replanting of any transplanted trees are carried out properly and within the right season; and
 - all necessary horticultural operations and replacement planting are undertaken throughout the Establishment Period to ensure the healthy establishment and growth of both transplanted trees and all newly established plants.

Table 7.2Construction Phase Audit Checklist for Landscape and Visual Mitigation
Measures

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface erosion, etc.

-

Area of Works	Items to be Monitored
Protection of all trees and existing soft landscape areas to be retained	Identification and demarcation of trees / vegetation to be retained, erection of physical protection (e.g. fencing), monitoring against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Clearance of existing vegetation	Identification and demarcation of trees / vegetation to be cleared, checking of extent of works to minimise damage, monitoring of adjacent areas against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Pruning of trees	Identification and demarcation of trees / vegetation to be pruned, monitoring of extent of pruning to minimise damage, timing of operations, implementation of all stages of preparatory and pruning works, and maintenance of pruned vegetation, etc.
Plant supply	Monitoring of operations relating to the supply of specialist plant material (including the collecting, germination and growth of plants from seed) to ensure that plants will be available in time to be used within the construction works.
Soiling, planting, etc.	Monitoring of implementation and maintenance of soiling and planting works and against possible incursion, physical damage, fire, pollution, surface erosion, etc.
Site fencing and hoarding	Implementation and maintenance, to ensure compliance with agreed designs and check that it matches the surrounding environment and does not cause visual intrusion.
Architectural treatment of engineering works.	Implementation and maintenance of mitigation measures, to ensure compliance with agreed designs as applicable.
Establishment Works	Monitoring of implementation of maintenance operations during Establishment Period.

- 7.6 In the event of non-compliance the responsibilities of the relevant parties is detailed in the Event / Action plan attached in **Appendix J**.
- 7.7 In the reporting month, no non-compliance of the landscape and visual mitigation measures was recorded by RLA.

8 CULTURAL HERITAGE

- 8.1 According to Section 8.3.1.1 of EM&A Manual (AEIAR-174/2013), as a precautionary measure, it is recommended that if any antiquity or supposed antiquity is discovered during the course of the excavation works undertaken by the Contractor, the discovery shall be reported to the AMO immediately and all necessary measures taken to preserve it.
- 8.2 According to Section 8.3.1.2 of EM&A Manual (AEIAR-174/2013), no EM&A is required during the construction and operational phase.

9 WASTE MANAGEMENT

- 9.1 According to Section 9.3.1.1 of EM&A Manual (AEIAR-174/2013), the effective management of waste arisings during the construction phase will be monitored through the site audit programme. Regular audits and site inspections should be carried out by the Engineer, ET and Contractor to ensure that the recommended good site practices and other mitigation measures are implemented by the Contractor. The summaries of site audits are attached in **Appendix I**.
- 9.2 According to Sections 9.3.1.3 and 9.3.1.4 of EM&A Manual (AEIAR-174/2013), documents including licenses, permits, disposal and recycling records should be reviewed and audited during site audits for the compliance with the legislation and contract requirements to ensure proper records are being maintained and procedures undertaken in accordance with the Waste Management Plan.
- 9.3 With reference to the relevant handing records of this Project, the quantities of different types of waste generated in the reporting month are summarized and presented in the **Appendix O**.

10 ENVIRONMENTAL AUDIT

Site Audits

- 10.1 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**.
- 10.2 Site audits were conducted on 04, 13, 19 and 26 August 2021 in the reporting month. Site inspection of the IEC was conducted on 19 August 2021. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

- 10.3 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 K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Parameters	Date	Observations and Recommendations	Follow-up	
Air Quality	N/A	There was no observation in the reporting period.	N/A	
Noise	N/A	There was no observation in the reporting period.	N/A	
	29 July 2021		Mud was cleaned. The barging point has temporary decommissioned.	
Water Quality	13 August 2021	Oil stain flowed into public drainage system was observed. The contractor is reminded to provide enough bunds to surround the area of site for flood protection and surface runoff should be treated prior to discharge.	Sand bags were provided to surround the concerned area for flood protection.	
Ecology	N/A	There was no observation in the reporting period.	N/A	

Table 10.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up	
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A	
Waste / Chemical Management	13 August 2021	Oil stain flowed into public drainage system was observed. The contractor is reminded to provide enough bunds to surround the area of site for flood protection and surface runoff should be treated prior to discharge.	Oil stain was cleaned immediately. Besides, contractor was reminded to handle oil containers carefully to avoid leakage.	
Permits /Licences	N/A	There was no observation in the reporting period.	N/A	

Implementation Status of Event and Action Plans

10.5 The Event and Action Plans for air quality, construction noise, and landscape and visual are presented in **Appendix J**.

Air Quality Monitoring

• No Action and Limit Level exceedance for 24-hour TSP monitoring was recorded.

Construction Noise Monitoring

• No Action / Limit Level exceedance was recorded in the reporting month.

Landscape and Visual

• No landscape and visual non-conformity was recorded.

Status of Required Submission under Environmental Permit

10.6 According the Section 11.3.2.1 (c) of the EM&A Manual (AEIAR-174/2013), status of required submission under EP-451/2013 during the reporting period are summarized in **Table 10.2**.

Table 10.2 Status of Required Submission under Environmental Fermit			
EP Condition	Submission	Submission Date	
EP-451/2013			
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020	
Condition 2.4	Design Drawing of the Project	20 January 2020	
Condition 2.5	Landscape Mitigation Plan(s)	7 May 2020	
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015	
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016	
Condition 3.3	Updated Baseline Monitoring Report	03 November 2020	
Condition 3.4	Monthly EM&A Report (July 2021)	13 August 2021	

 Table 10.2
 Status of Required Submission under Environmental Permit

11 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

- 11.2 The summary of exceedance record in the reporting month is shown in Appendix M.
- 11.3 No non-conformity was recorded for landscape and visual inspections conducted in the reporting month.

12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in Appendix N.

- 12.1 Major site activities undertaken for the coming months are summarized as follows:
 - Depressed Road- Road Slab, South Apron Adit Wall
 - Launching shaft Tympanum
 - Westbound TBM Assembly
 - Eastbound TBM Delivery and Assembly
 - C&C Permanent Base Slab, S5 & S6 Removal
 - Road L10 RC Structure
 - CUE Section 6A Junction- RC structure
 - Workshop Assembly
 - Segment Yard- Gantry Crane Erection
 - West Ventilation Building Pumping Test, Steel Deck Erection, Excavation, Steel Strut Installation
- 12.2 Key environmental issues in the coming months include:
 - Wheel washing bay at site exits;
 - Temporary noise barriers for PMEs;
 - Sedimentation tank for settling muddy water; and
 - Make sure open stockpiles are covered during rainstorm.

Monitoring Schedule

12.3 The tentative environmental monitoring schedule for the next three months are shown in Appendix B.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 18th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

13.2 No Action and Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 13.3 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 13.4 No Action Level exceedance was recorded in the reporting month.

Site Audit

13.5 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

13.6 No environmental complaint was received in the reporting month. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

13.7 According to the environmental audit performed in the reporting month, the following recommendations was made:

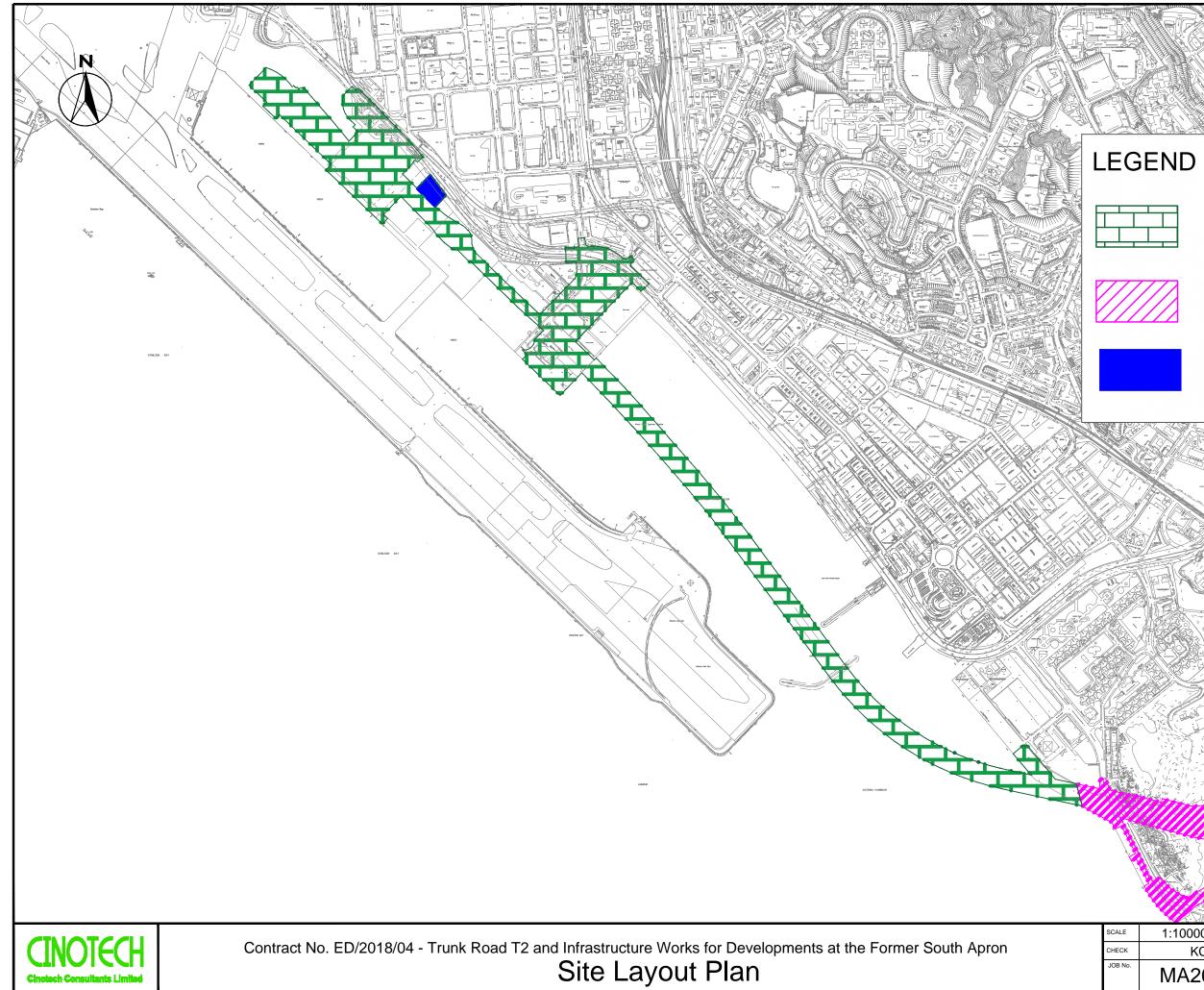
Water Quality

- Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water.
- Channels, earth bunds or sand bag barriers should be provided to divert the surface runoff to the silt removal facilities.

Waste / Chemical Management

• Waste oils, chemicals or solvents should not be disposed of to drain.

FIGURES



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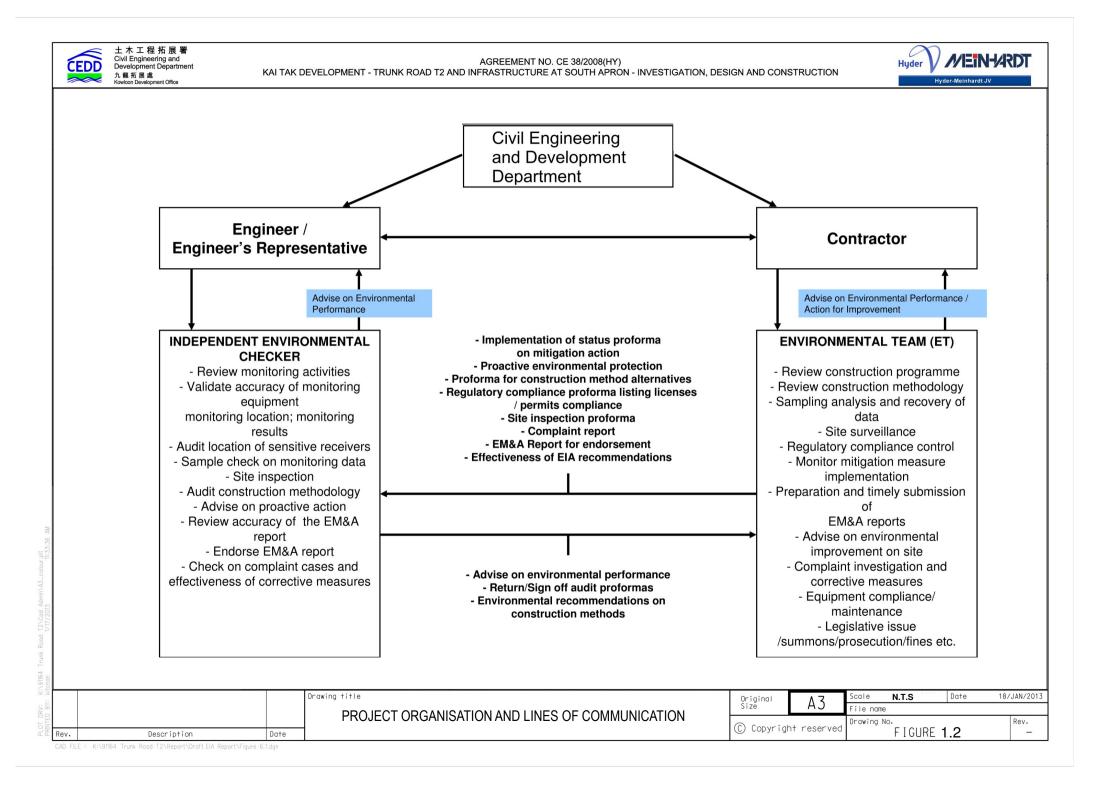
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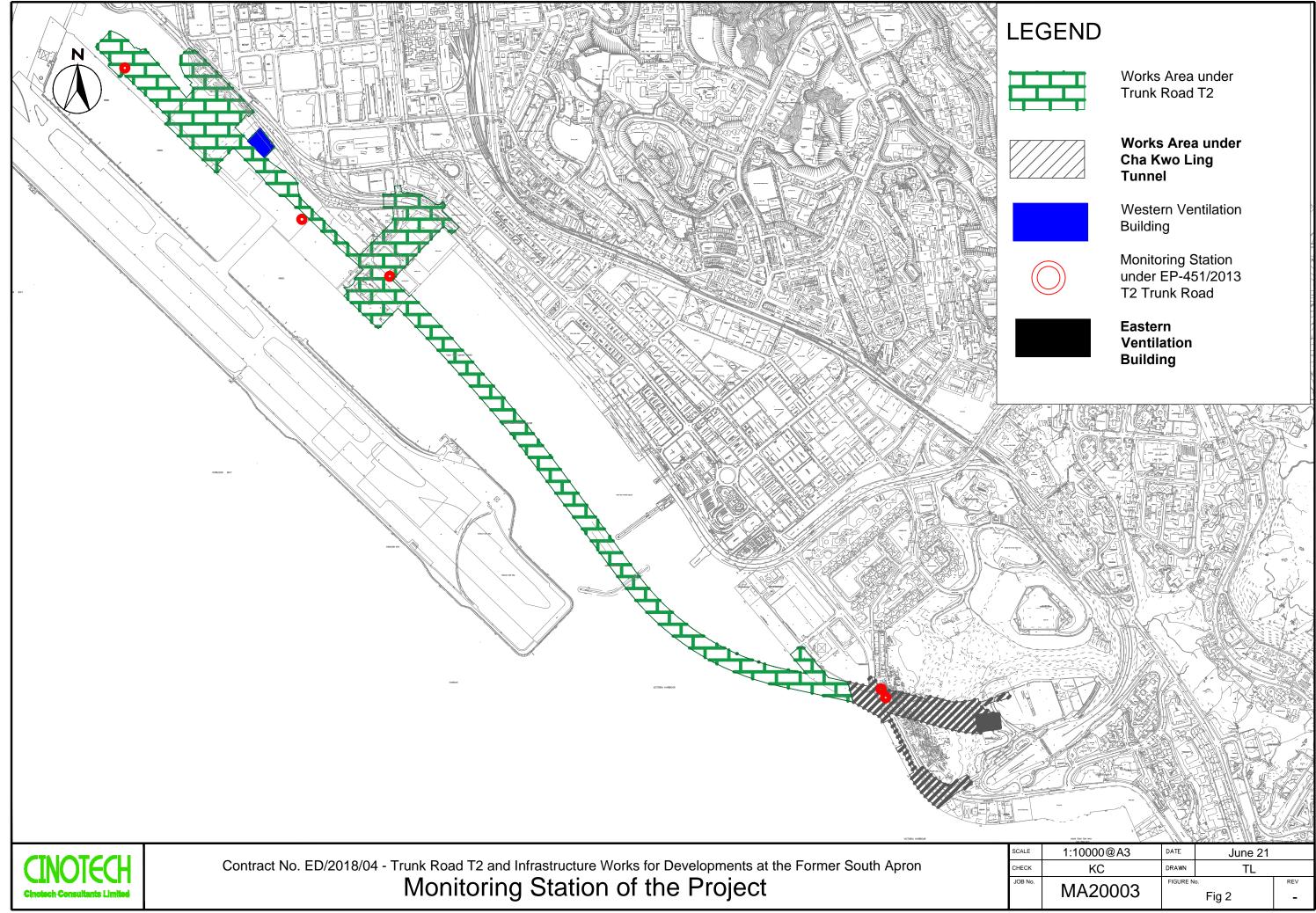
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

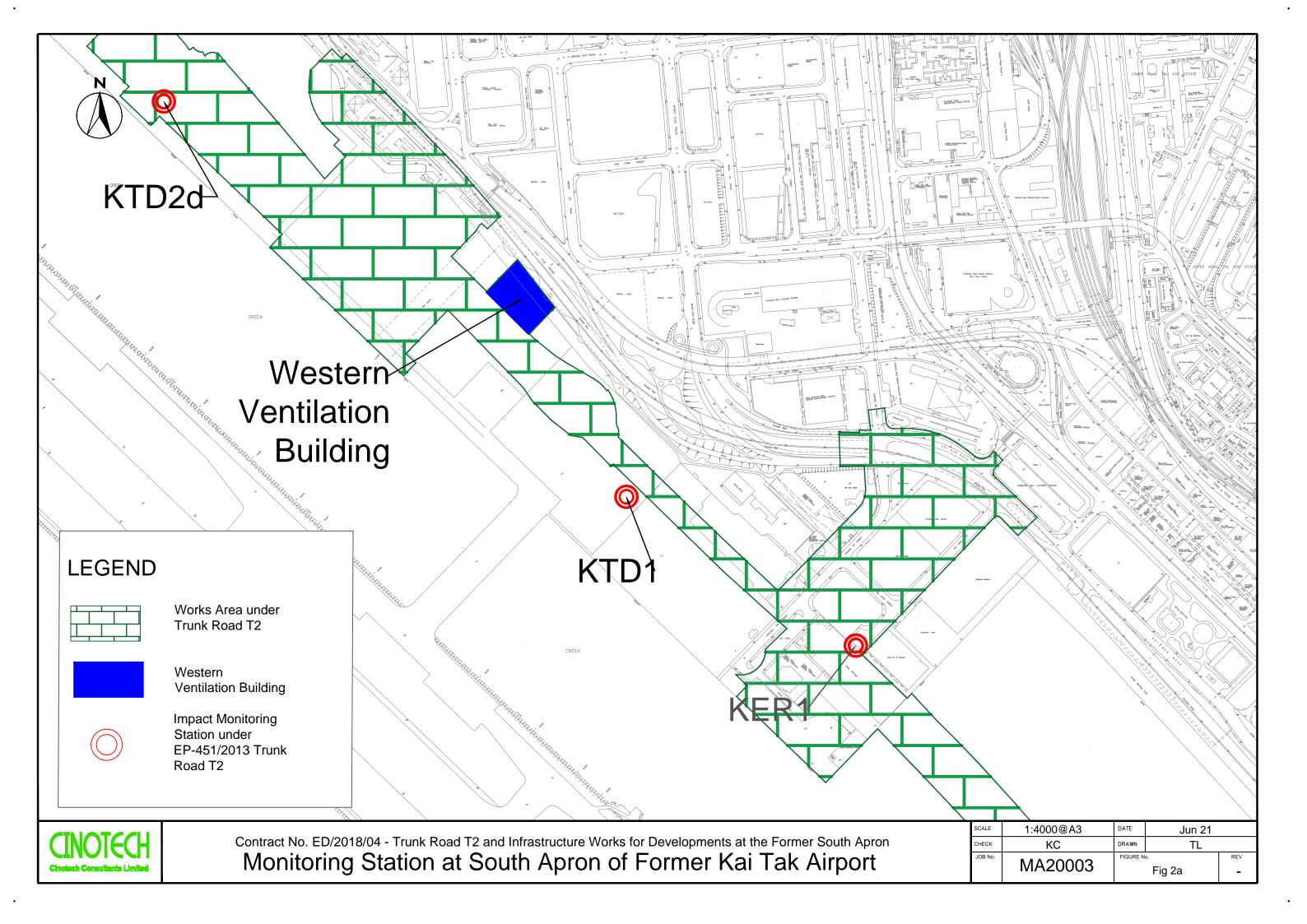
Ventilation Building

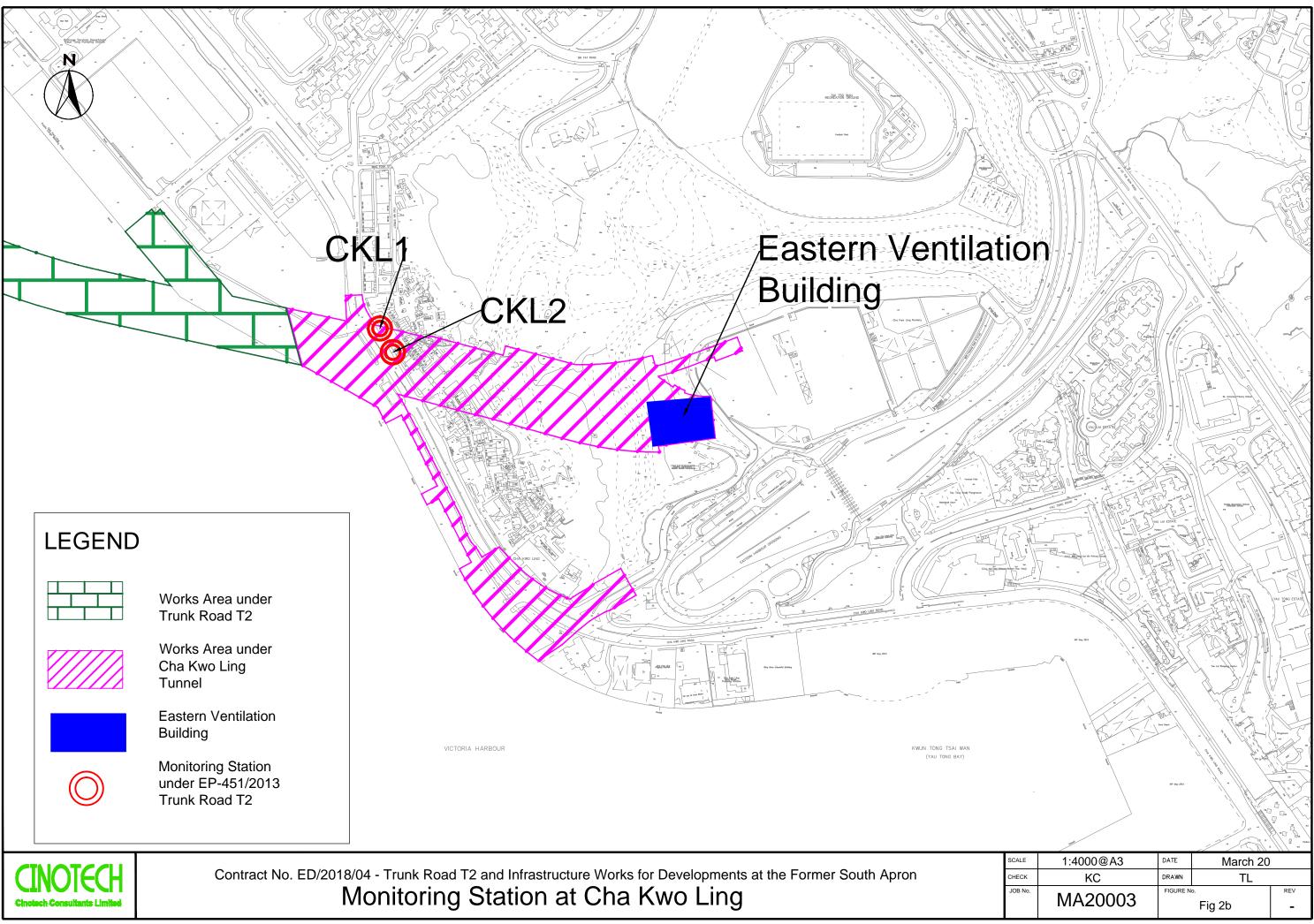
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APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Location	Action Level, μg/m ³	Limit Level, µg/m ³
KTD1	285	
KTD2d	279	
KER1	295	500
CKL1	323	
CKL2	327	

 Table A-1
 Action and Limit Levels for 1-hour TSP (in case of complaints)

Table A-2Action and Limit Levels for 24-hour TSP

Location	Action Level, µg/m ³	Limit Level, µg/m ³
KTD1	177	
KTD2d	157	
KER1	172	260
CKL1	191	
CKL2	183	

Table A-3 Action and Limit Levels for Noise during Construction Period

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

Note:

(1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Impact Air and Noise Monitoring Schedule (August 2021)

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatries (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

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 2021)

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

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

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 2021)				

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		•			1-Oct	2-Oct
3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	9-Oct
	24-hr TSP	Noise				24-hr TSP
10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	16-Oct
10-041	11 000	12 000	15 000	11 00	15 000	10 000
	Noise		24-hr TSP			
17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	23-Oct
17-00	18-001	19-001	20-001	21-00	22-001	25-001
		24-hr TSP	Noise			
21.0.1	25.0.1	26.0	27.0	20.0.1	20.0	20.0
24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	30-Oct
	24-hr TSP	Noise				24-hr TSP
31-Oct						

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

*Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP KTDI - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

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 (November 2021)	

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

The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.) *Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2) **24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

Air Quality Monitoring Station

24-hr TSP

KTD1 - Centre of Excellence in Paediatries (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area KER1 - Future Residential Development at Kerry Godown CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



Certificate of Calibration - Wind Monitoring Station

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.8	2.7	0.1
4.0	4.1	-0.1

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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



Certificate of Calibration - Wind Monitoring Station

Yau Lai Estate, Bik Lai House
Davis Instruments
<u>Davis7440</u>
<u>MC01010A44</u>
<u>SA-03-04</u>
<u>20-Feb-2021</u>
<u>20-Aug-2021</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)		
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2		
0.0	0.0	0.0		
1.5	1.6	-0.1		
2.5	2.5	0.0		
3.5	3.4	0.1		

2. Performance check of Wind Direction

Wind Di	rection (°)	Difference D (°)
Wind Direction Reading (W1)	Marine Compass Value (W2)	$\mathbf{D} = \mathbf{W1} - \mathbf{W2}$
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





Certificate of Calibration

			Calibration	Certificati	on Informat	tion			
Cal. Date:	January 11, 2021 Rootsmeter S/I			meter S/N:	438320 Ta: 297			°К	
Operator:	Jim Tisch					Pa:	750.1	mm Hg	
Calibration	Model #:	TE-5025A	Calil	brator S/N:	3864				
	· · · · · · · · · · · · · · · · · · ·							1	
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ		
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4470	3.2	2.00		
	2	3	4	1	1.0210	6.4	4.00		
	3	5	6	1	0.9140	8.0	5.00		
	4	, 7	8	1	0.8670	8.8	5.50		
	5	9	10	1	0.7140	12.9	8.00		
			[Data Tabula	tion]	
			/ / Pa	V Tetd)					
	Vstd	Qstd	√ ^{∆H} (Pstd)(<u>Tstd</u>)		Qa	√∆H(Ta/Pa)		
	(m3)	(x-axis)	y (y-ax		Va	(x-axis)	(y-axis)		
	0.9860	0.6814	1.40		0.9957	0.6881	0.8899		
	0.9818	0.9616	1.99	02	0.9915	0.9711	1.2585	1	
	0.9797	1.0719	2.22	51	0.9893	1.0824	1.4071	1	
	0.9786	1.1288	2.33	37	0.9883	1.1399	1.4757	1	
	0.9732	1.3630	2.814	46	0.9828	1.3765	1.7798		
		m=	2.065	566		m=	1.29348		
		b=	0.00315		QA	b=	0.00199		
		r=	0.999	96		r=	0.99996		
				Calculatio	lations				
	Vstd=	ΔVol((Pa-ΔP))/Pstd)(Tstd/Ta	a)	Va=				
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time			
			For subsequ	ent flow ra	te calculatio	ns:			
	Qstd=	1/m ((\\ \[\Delta H (Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa= $1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$				
	Standard	Conditions							
Tstd						RECA	LIBRATION		
Pstd	760	mm Hg						400	
A 1 1 . 1+1		Key	1120)				nnual recalibratio	-	
		ter reading (i					Regulations Part		
		eter reading perature (°K)					, Reference Meth		
		ressure (mm				1	ended Particulat		
b: intercept	the second s				tn tn	e Atmosphe	ere, 9.2.17, page	30	
m: slope									

isch Environmental, Inc. 45 South Miami Avenue illage of Cleves, OH 45002 <u>www.tisch-env.com</u> TOLL FREE: (877)263-7610 FAX: (513)467-9009

CIN@TECH 🤳

File No. MA20003/44/0008

Project No.	KTD1 - Centre	KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)						
Date:	2-A	ug-21	Next Due Date:	2-C	Oct-21	Operator:	SK	
Equipment No.:	: <u>A-01-44</u>		Model No.:	Model No.: TE-5		Serial No	1316	
Ambient Condition								
Temperatu	re, Ta (K)	302.7	Pressure, Pa (mmH	lg)		750		

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc 0.05846 Intercept, bc -0.00313					
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	11-Jan-22	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -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	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$					
1	13.8	3.66	62.69	9.2	2.99					
2	11.2	3.30	56.48	7.0	2.61					
3	8.3	2.84	48.63	5.4	2.29					
4	6.2	2.45	42.04	3.4	1.82					
5	3.2	1.76	30.21	1.8	1.32					
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = 0.0516 Intercept, bw = -0.2704 Correlation coefficient* = 0.9964 *If Correlation Coefficient < 0.990, check and recalibrate.									
		Set Point C	alculation							
		urve, take Qstd = 43 CFM								
From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = \left[\Delta \mathbf{W} \mathbf{x} \left(\mathbf{Pa}/760\right) \mathbf{x} \left(298/\mathbf{Ta}\right)\right]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 3.90										
Remarks:										
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	<u>у</u>	Date: 2-Aug-21					
Checked by:	Henry 1	Leung Signature	: \-lem	, Xory	Date: 2-Aug-21					

CIN@TECH &

File No. MA20003/04/0007

Project No.	KER 1 - Future								
Date:	2-A	Nug-21	Next Due Date:	2-Oct-21	Operator:	SK			
Equipment No.:	Io.: A-01-04		Model No.:	TE 5170	Serial No.	ial No. 10595			
Ambient Condition									
Temperatu	ure, Ta (K)	302.7	Pressure, Pa (mmH	Ig)	750				

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc 0.05846 Intercept, bc -0.00313					
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	11-Jan-22	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -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	ΔW (HVS), in. of water	$\frac{[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}}{Y-axis}$			
1	13.7	3.65	62.46	9.0	2.96			
2	11.4	3.33	56.98	7.0	2.61			
3	8.6	2.89	49.50	5.4	2.29			
4	5.2	2.25	38.50	3.2	1.76			
5	3.0	1.71	29.26	2.1	1.43			
Slope , mw = Correlation	ression of Y on X 0.0457 coefficient* = Coefficient < 0.99		Intercept, bw	0.048	3			
From the TSP Fi	eld Calibration C	Set Point C urve, take Qstd = 43 CFM	Calculation					
From the Regression Equation, the "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x} (\mathbf{Pa}/760) \mathbf{x} (298/\mathbf{Ta})]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =								
Remarks:								
Conducted by:	Wong Shi	ng Kwai Signature	: <u>k</u>	<u>у</u>	Date: 2-Aug-21			
Checked by:	Henry 1	Leung Signature	:_ \-len	J	Date: 2-Aug-21			



File No. MA20003/41/0007

Project No.	KTD 2D - Next	KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area						
Date:	26-Jul-21		Next Due Date:	26-	5-Sep-21 Operato		SK	
Equipment No.:	A-01	-41	Model No.:	TE	5170	Serial No.	5280	
Ambient Condition								
Temperatur	re, Ta (K)	302	Pressure, Pa	(mmHg)		751		
1								
		Or	ifice Transfer Star	ndard Informa	ation			
Serial	No.	3864	Slope, mc	0.05846	Intercep	t, bc	-0.00313	
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H x (Pa/760)]$)) x (298/Ta)]	1/2	
Next Calibra	ation Date:	11-Jan-22	($Qstd = \{[\Delta H x]\}$	(Pa/760) x (298/	$[\Gamma a)]^{1/2} - bc\} /$	mc	
	· · ·							
			Calibration of T	FSP Sampler				
Calibration		0	rfice			HVS		
Canoration	AU (orifice)			Octd (CEM)	AW (HVC) in		$7(0) = (208/T_{\odot})1^{1/2}$	

Calibration				I						
Point	ΔH (orifice), in. of water	$[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis					
1	13.7	3.65	62.57	8.8	2.93					
2	11.5	3.35	57.33	7.0	2.61					
3	8.2	2.83	48.42	5.5	2.32					
4	5.8	2.38	40.73	4.1	2.00					
5	2.9	1.68	28.82	2.3	1.50					
By Linear Regression of Y on X Slope , mw = <u>0.0412</u> Intercept, bw = <u>0.3131</u> Correlation coefficient* = 0.9978										
		0.9978 0, check and recalibrate.	_							
		o, oncek and recuriorate.								
		Set Point C	alculation							
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM								
From the Regres	sion Equation, the	e "Y" value according to								
			(D. 17(0)) (3)	1/2						
		$\mathbf{m}\mathbf{w} \ge \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W}]$	x (Pa/760) x (29	98/1a)]						
Therefore, Se	et Point; W = (mv	$(x = x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.45						
Remarks:										
Conducted by:	Wong Shi	ng Kwai Signature		<u>Д</u> .	Date: 26-Jul-21					
Checked by:	Henry I	Leung Signature	- lem	y May-	Date: 26-Jul-21					
			·							



File No. MA20003/55/0009

	Next Due Date:	6-Sep-21	Operator:	SK
				JIC
5	Model No.:	TE 5170	Serial No.	1956
	Ambient Condition	on		
302.4	Pressure, Pa (mmH	(g)	754.7	
	302.4	Ambient Condition	Ambient Condition	Ambient Condition

Orifice Transfer Standard Information							
Serial No.	3864	Slope, mc 0.05846 Intercept, bc -0.00313					
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
Next Calibration Date:	11-Jan-22	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -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	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} axis
1	13.5	3.63	62.23	9.6	3	.07
2	11.3	3.33	56.94	7.5	2	.71
3	8.3	2.85	48.80	5.9	2	.40
4	5.2	2.26	38.64	3.5	1	.85
5	3.0	1.71	29.36	1.9	1	.36
By Linear Regression of Y on X Slope , mw = 0.0506 Intercept, bw : -0.1120						
- ·	coefficient* =	0.9982	•			
*If Correlation C	Coefficient < 0.990	0, check and recalibrate.	-			
		Set Point C	alculation			
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
		mw x Qstd + bw = $[\Delta W]$	x (Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (mv	$(x + y)^2 x (760 / Pa) x ($	Ta / 298) =	4.36		
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date:	6-Jul-21
Checked by:	Henry I	Leung Signature:		N- Jang	Date:	6-Jul-21



File No. MA20003/18/0009

Project No.	Project No. CKL 1 - Flat 121 Cha Kwo Ling Village						
Date:	6-J	ul-21	Next Due Date:	6-S	ep-21	Operator:	SK
Equipment No.:	A-	01-18	Model No.:	TE	5170	Serial No.	0723
	Ambient Condition						
Temperatu	re, Ta (K)	302.4	Pressure, Pa (mml	Hg)		754.7	

Orifice Transfer Standard Information						
Serial No.	Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313					
Last Calibration Date:	11-Jan-21	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:	11-Jan-22	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc				

		Calibration of	f 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	ΔW (HVS), in. of water	$ \begin{bmatrix} \Delta W \ x \ (Pa/760) \ x \ (298/Ta) \end{bmatrix}^{1/2} \ Y-axis $	
1	13.2	3.59	61.53	10.6	3.22	
2	11.2	3.31	56.68	8.0	2.80	
3	8.3	2.85	48.80	6.1	2.44	
4	6.2	2.46	42.19	3.9	1.95	
5	3.4	1.82	31.26	1.9	1.36	
Slope, mw =	ression of Y on X 0.0603 coefficient* =		Intercept, bw :	-0.543	39	
			_			
*If Correlation C	_oefficient < 0.99	0, check and recalibrate.				
		Set Point (Calculation			
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
Therefore, Se	$mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 4.29					
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	k	火.	Date: 6-Jul-21	
Checked by:	Henry 1	Leung Signature:	- \-lem	j Xory_	Date: 6-Jul-21	

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity (%) ²	Precipitation (mm) ³
1-Aug-21	29.4	83	11.6
2-Aug-21	30.0	80	Trace
3-Aug-21	28.2	88	19.7
4-Aug-21	28.2	85	41.9
5-Aug-21	27.6	90	28.1
6-Aug-21	28.3	89	31.0
7-Aug-21	28.8	85	0.0
8-Aug-21	29.3	85	3.1
9-Aug-21	29.1	85	36.3
10-Aug-21	29.0	87	17.3
11-Aug-21	29.5	84	3.0
12-Aug-21	29.0	82	1.0
13-Aug-21	28.6	83	5.4
14-Aug-21	28.0	85	2.2
15-Aug-21	27.3	87	5.7
16-Aug-21	28.3	83	3.9
17-Aug-21	29.5	78	0.0
18-Aug-21	29.5	77	0.0
19-Aug-21	28.6	84	34.6
20-Aug-21	29.5	77	Trace
21-Aug-21	29.8	76	0.0
22-Aug-21	30.1	74	0.0
23-Aug-21	30.2	75	Trace
24-Aug-21	29.6	79	23.7
25-Aug-21	29.7	79	1.1
26-Aug-21	29.7	80	2.2
27-Aug-21	25.6	89	29.3
28-Aug-21	26.9	81	22.0
29-Aug-21	27.8	83	13.9
30-Aug-21	29.1	81	Trace
31-Aug-21	27.3	88	13.5

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month: August 2021)

Remarks:

Source - Hong Kong Observatory

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

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
1 Aug 2021	12:00 AM	W	1.0			
1 Aug 2021	1:00 AM	W	2.3			
1 Aug 2021	2:00 AM	WNW	2.8			
1 Aug 2021	3:00 AM	W	1.9			
1 Aug 2021	4:00 AM	W	1.9			
1 Aug 2021	5:00 AM	W	1.9			
1 Aug 2021	6:00 AM	NNW	2.3			
1 Aug 2021	7:00 AM	WNW	1.9			
1 Aug 2021	8:00 AM	W	1.9			
1 Aug 2021	9:00 AM	NW	1.9			
1 Aug 2021	10:00 AM	W	1.9			
1 Aug 2021	11:00 AM	WNW	1.4			
1 Aug 2021	12:00 PM	WNW	1.4			
1 Aug 2021	1:00 PM	W	1.4			
1 Aug 2021	2:00 PM	W	1.9			
1 Aug 2021	3:00 PM	W	1.4			
1 Aug 2021	4:00 PM	W	1.4			
1 Aug 2021	5:00 PM	W	1.9			
1 Aug 2021	6:00 PM	W	1.4			
1 Aug 2021	7:00 PM	W	1.4			
1 Aug 2021	8:00 PM	W	3.2			
1 Aug 2021	9:00 PM	W	2.3			
1 Aug 2021	10:00 PM	W	1.9			
1 Aug 2021	11:00 PM	W	2.3			
2 Aug 2021	12:00 AM	W	2.3			
2 Aug 2021	1:00 AM	W	1.0			
2 Aug 2021	2:00 AM	WNW	1.9			
2 Aug 2021	3:00 AM	W	1.9			
2 Aug 2021	4:00 AM	W	1.4			
2 Aug 2021	5:00 AM	W	1.4			
2 Aug 2021	6:00 AM	NNW	1.4			
2 Aug 2021	7:00 AM	WNW	1.9			
2 Aug 2021	8:00 AM	W	0.5			
2 Aug 2021	9:00 AM	NW	1.0			
2 Aug 2021	10:00 AM	W	1.0			
2 Aug 2021	11:00 AM	WNW	1.0			
2 Aug 2021	12:00 PM	WNW	1.4			
2 Aug 2021	1:00 PM	W	1.4			
2 Aug 2021	2:00 PM	NW	1.4			
2 Aug 2021	3:00 PM	WNW	1.4			
2 Aug 2021	4:00 PM	WNW	1.9			
2 Aug 2021	5:00 PM	WNW	1.4			
2 Aug 2021	6:00 PM	W	1.9			
21106 2021	0.001101	¥ Ŧ	1.7			

August 2021					
	Wind Speed a	nd Directions			
Date	Time	Wind Speed m-s	Direction		
2 Aug 2021	7:00 PM	WNW	1.4		
2 Aug 2021	8:00 PM	WNW	1.0		
2 Aug 2021	9:00 PM	WNW	1.4		
2 Aug 2021	10:00 PM	W	1.9		
2 Aug 2021	11:00 PM	WNW	1.9		
3 Aug 2021	12:00 AM	WNW	1.4		
3 Aug 2021	1:00 AM	W	1.0		
3 Aug 2021	2:00 AM	WNW	1.0		
3 Aug 2021	3:00 AM	W	1.0		
3 Aug 2021	4:00 AM	W	1.0		
3 Aug 2021	5:00 AM	W	0.5		
3 Aug 2021	6:00 AM	NW	1.0		
3 Aug 2021	7:00 AM	NW	1.0		
3 Aug 2021	8:00 AM	SE	0.5		
3 Aug 2021	9:00 AM	NW	1.0		
3 Aug 2021	10:00 AM	W	1.0		
3 Aug 2021	11:00 AM	W	0.5		
3 Aug 2021	12:00 PM	W	1.0		
3 Aug 2021	1:00 PM	ENE	0.1		
3 Aug 2021	2:00 PM	ENE	0.5		
3 Aug 2021	3:00 PM	NW	1.0		
3 Aug 2021	4:00 PM	W	1.4		
3 Aug 2021	5:00 PM	W	1.0		
3 Aug 2021	6:00 PM	W	1.4		
3 Aug 2021	7:00 PM	WNW	1.4		
3 Aug 2021	8:00 PM	WNW	1.0		
3 Aug 2021	9:00 PM	W	1.4		
3 Aug 2021	10:00 PM	WNW	1.4		
3 Aug 2021	11:00 PM	W	1.0		
4 Aug 2021	12:00 AM	W	1.0		
4 Aug 2021	1:00 AM	W	1.0		
4 Aug 2021	2:00 AM	WNW	1.0		
4 Aug 2021	3:00 AM	W	1.0		
4 Aug 2021	4:00 AM	SE	0.5		
4 Aug 2021	5:00 AM	W	0.5		
4 Aug 2021	6:00 AM	ESE	1.0		
4 Aug 2021	7:00 AM	ESE	0.5		
4 Aug 2021	8:00 AM	W	0.5		
4 Aug 2021	9:00 AM	W	0.5		
4 Aug 2021	10:00 AM	E	1.0		
4 Aug 2021	11:00 AM	WNW	0.5		
4 Aug 2021	12:00 PM	NW	1.4		
4 Aug 2021	1:00 PM	W	1.0		

August 2021						
	Wind Speed a	nd Directions				
Date	Time	Wind Speed m-s	Direction			
4 Aug 2021	2:00 PM	W	1.4			
4 Aug 2021	3:00 PM	W	1.4			
4 Aug 2021	4:00 PM	NW	1.4			
4 Aug 2021	5:00 PM	NNW	1.0			
4 Aug 2021	6:00 PM	NW	1.4			
4 Aug 2021	7:00 PM	NW	1.0			
4 Aug 2021	8:00 PM	NW	1.0			
4 Aug 2021	9:00 PM	NW	0.5			
4 Aug 2021	10:00 PM	W	1.4			
4 Aug 2021	11:00 PM	WNW	1.0			
5 Aug 2021	12:00 AM	WNW	1.4			
5 Aug 2021	1:00 AM	W	0.5			
5 Aug 2021	2:00 AM	NW	0.5			
5 Aug 2021	3:00 AM	WNW	0.5			
5 Aug 2021	4:00 AM	WNW	0.5			
5 Aug 2021	5:00 AM	WNW	0.5			
5 Aug 2021	6:00 AM	W	0.5			
5 Aug 2021	7:00 AM	WNW	0.5			
5 Aug 2021	8:00 AM	WNW	0.5			
5 Aug 2021	9:00 AM	WNW	1.0			
5 Aug 2021	10:00 AM	NW	1.0			
5 Aug 2021	11:00 AM	Е	1.0			
5 Aug 2021	12:00 PM	W	1.4			
5 Aug 2021	1:00 PM	W	1.4			
5 Aug 2021	2:00 PM	NW	1.9			
5 Aug 2021	3:00 PM	NW	2.8			
5 Aug 2021	4:00 PM	NW	3.7			
5 Aug 2021	5:00 PM	NW	4.6			
5 Aug 2021	6:00 PM	NW	3.2			
5 Aug 2021	7:00 PM	NW	1.9			
5 Aug 2021	8:00 PM	NW	1.0			
5 Aug 2021	9:00 PM	W	0.5			
5 Aug 2021	10:00 PM	NW	1.0			
5 Aug 2021	11:00 PM	NW	1.9			
6 Aug 2021	12:00 AM	NW	1.9			
6 Aug 2021	1:00 AM	NW	1.4			
6 Aug 2021	2:00 AM	NW	0.5			
6 Aug 2021	3:00 AM	W	0.5			
6 Aug 2021	4:00 AM	ESE	0.5			
6 Aug 2021	5:00 AM	ESE	0.5			
6 Aug 2021	6:00 AM	NE	1.0			
6 Aug 2021	7:00 AM	NNW	1.0			
6 Aug 2021	8:00 AM	NNW	1.4			

August 2021						
	Wind Speed a		1			
Date	Time	Wind Speed m-s	Direction			
6 Aug 2021	9:00 AM	WNW	1.0			
6 Aug 2021	10:00 AM	ESE	1.0			
6 Aug 2021	11:00 AM	SE	1.0			
6 Aug 2021	12:00 PM	ESE	1.0			
6 Aug 2021	1:00 PM	ESE	1.4			
6 Aug 2021	2:00 PM	E	1.9			
6 Aug 2021	3:00 PM	NW	1.4			
6 Aug 2021	4:00 PM	NW	2.3			
6 Aug 2021	5:00 PM	NW	4.6			
6 Aug 2021	6:00 PM	NW	1.4			
6 Aug 2021	7:00 PM	WNW	1.0			
6 Aug 2021	8:00 PM	W	0.5			
6 Aug 2021	9:00 PM	NW	1.4			
6 Aug 2021	10:00 PM	W	1.0			
6 Aug 2021	11:00 PM	WNW	1.0			
7 Aug 2021	12:00 AM	WNW	1.0			
7 Aug 2021	1:00 AM	W	1.0			
7 Aug 2021	2:00 AM	NW	1.4			
7 Aug 2021	3:00 AM	WNW	0.5			
7 Aug 2021	4:00 AM	WNW	0.5			
7 Aug 2021	5:00 AM	WNW	0.5			
7 Aug 2021	6:00 AM	W	1.0			
7 Aug 2021	7:00 AM	WNW	1.0			
7 Aug 2021	8:00 AM	WNW	1.0			
7 Aug 2021	9:00 AM	NW	1.4			
7 Aug 2021	10:00 AM	WNW	1.9			
7 Aug 2021	11:00 AM	WNW	1.4			
7 Aug 2021	12:00 PM	WNW	1.4			
7 Aug 2021	1:00 PM	W	1.4			
7 Aug 2021	2:00 PM	NW	2.3			
7 Aug 2021	3:00 PM	NW	4.6			
7 Aug 2021	4:00 PM	NW	5.0			
7 Aug 2021	5:00 PM	NW	4.6			
7 Aug 2021	6:00 PM	NW	5.0			
7 Aug 2021	7:00 PM	NW	3.7			
7 Aug 2021	8:00 PM	NW	2.8			
7 Aug 2021	9:00 PM	NW	2.8			
7 Aug 2021	10:00 PM	NW	1.9			
7 Aug 2021	11:00 PM	NW	1.4			
8 Aug 2021	12:00 AM	NW	1.9			
8 Aug 2021	1:00 AM	NW	1.0			
8 Aug 2021	2:00 AM	SE	0.5			
8 Aug 2021	3:00 AM	ESE	1.0			

August 2021						
	Wind Speed a	and Directions				
Date	Time	Wind Speed m-s	Direction			
8 Aug 2021	4:00 AM	SE	1.0			
8 Aug 2021	5:00 AM	ESE	0.5			
8 Aug 2021	6:00 AM	ESE	0.1			
8 Aug 2021	7:00 AM	ESE	0.5			
8 Aug 2021	8:00 AM	SE	1.0			
8 Aug 2021	9:00 AM	SE	1.0			
8 Aug 2021	10:00 AM	ESE	1.9			
8 Aug 2021	11:00 AM	SE	1.0			
8 Aug 2021	12:00 PM	SE	1.4			
8 Aug 2021	1:00 PM	SE	1.9			
8 Aug 2021	2:00 PM	SE	1.4			
8 Aug 2021	3:00 PM	SE	1.0			
8 Aug 2021	4:00 PM	NW	2.3			
8 Aug 2021	5:00 PM	NW	1.4			
8 Aug 2021	6:00 PM	SE	1.0			
8 Aug 2021	7:00 PM	SE	2.3			
8 Aug 2021	8:00 PM	ESE	2.3			
8 Aug 2021	9:00 PM	SE	2.3			
8 Aug 2021	10:00 PM	ESE	1.9			
8 Aug 2021	11:00 PM	ESE	1.9			
9 Aug 2021	12:00 AM	SE	1.0			
9 Aug 2021	1:00 AM	SE	1.0			
9 Aug 2021	2:00 AM	SE	1.0			
9 Aug 2021	3:00 AM	ESE	1.0			
9 Aug 2021	4:00 AM	SE	0.5			
9 Aug 2021	5:00 AM	ESE	1.0			
9 Aug 2021	6:00 AM	NW	0.5			
9 Aug 2021	7:00 AM	ESE	1.0			
9 Aug 2021	8:00 AM	SE	1.0			
9 Aug 2021	9:00 AM	ESE	0.5			
9 Aug 2021	10:00 AM	NNW	1.0			
9 Aug 2021	11:00 AM	ESE	1.4			
9 Aug 2021	12:00 PM	W	1.4			
9 Aug 2021	1:00 PM	WNW	1.4			
9 Aug 2021	2:00 PM	WNW	1.4			
9 Aug 2021	3:00 PM	W	1.4			
9 Aug 2021	4:00 PM	NW	1.4			
9 Aug 2021	5:00 PM	WNW	2.8			
9 Aug 2021	6:00 PM	WNW	3.2			
9 Aug 2021	7:00 PM	WNW	3.2			
9 Aug 2021	8:00 PM	W	2.8			
9 Aug 2021	9:00 PM	WNW	2.3			
9 Aug 2021	10:00 PM	SE	2.8			

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
9 Aug 2021	11:00 PM	SE	1.9	
10 Aug 2021	12:00 AM	SE	1.0	
10 Aug 2021	1:00 AM	SE	1.0	
10 Aug 2021	2:00 AM	NW	1.4	
10 Aug 2021	3:00 AM	NNW	1.0	
10 Aug 2021	4:00 AM	SE	1.0	
10 Aug 2021	5:00 AM	ESE	1.0	
10 Aug 2021	6:00 AM	SE	0.5	
10 Aug 2021	7:00 AM	SE	1.0	
10 Aug 2021	8:00 AM	NNE	1.0	
10 Aug 2021	9:00 AM	NNE	1.0	
10 Aug 2021	10:00 AM	Ν	1.0	
10 Aug 2021	11:00 AM	SE	1.9	
10 Aug 2021	12:00 PM	SE	1.4	
10 Aug 2021	1:00 PM	SE	2.3	
10 Aug 2021	2:00 PM	NNE	1.4	
10 Aug 2021	3:00 PM	SE	1.4	
10 Aug 2021	4:00 PM	ESE	1.4	
10 Aug 2021	5:00 PM	NNE	1.4	
10 Aug 2021	6:00 PM	NW	1.4	
10 Aug 2021	7:00 PM	Ν	1.4	
10 Aug 2021	8:00 PM	NW	1.4	
10 Aug 2021	9:00 PM	NNE	1.4	
10 Aug 2021	10:00 PM	NNW	1.4	
10 Aug 2021	11:00 PM	NNW	1.0	
11 Aug 2021	12:00 AM	Ν	1.4	
11 Aug 2021	1:00 AM	Ν	1.0	
11 Aug 2021	2:00 AM	Ν	1.4	
11 Aug 2021	3:00 AM	NNE	1.9	
11 Aug 2021	4:00 AM	NW	1.9	
11 Aug 2021	5:00 AM	NNW	1.9	
11 Aug 2021	6:00 AM	NNE	1.9	
11 Aug 2021	7:00 AM	NNW	1.4	
11 Aug 2021	8:00 AM	ESE	1.0	
11 Aug 2021	9:00 AM	SE	1.0	
11 Aug 2021	10:00 AM	ESE	1.0	
11 Aug 2021	11:00 AM	NNE	1.4	
11 Aug 2021	12:00 PM	Ν	1.4	
11 Aug 2021	1:00 PM	W	1.4	
11 Aug 2021	2:00 PM	WNW	1.4	
11 Aug 2021	3:00 PM	WNW	1.4	
11 Aug 2021	4:00 PM	W	1.4	
11 Aug 2021	5:00 PM	NW	1.4	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
11 Aug 2021	6:00 PM	WNW	1.4	
11 Aug 2021	7:00 PM	WNW	1.0	
11 Aug 2021	8:00 PM	WNW	1.0	
11 Aug 2021	9:00 PM	W	1.4	
11 Aug 2021	10:00 PM	WNW	1.4	
11 Aug 2021	11:00 PM	NNW	1.0	
12 Aug 2021	12:00 AM	NNW	1.0	
12 Aug 2021	1:00 AM	Ν	1.0	
12 Aug 2021	2:00 AM	NNW	1.0	
12 Aug 2021	3:00 AM	SE	1.0	
12 Aug 2021	4:00 AM	Ν	1.0	
12 Aug 2021	5:00 AM	Ν	1.0	
12 Aug 2021	6:00 AM	NE	1.0	
12 Aug 2021	7:00 AM	NNE	1.0	
12 Aug 2021	8:00 AM	Ν	1.0	
12 Aug 2021	9:00 AM	SE	1.0	
12 Aug 2021	10:00 AM	SE	1.4	
12 Aug 2021	11:00 AM	SE	2.3	
12 Aug 2021	12:00 PM	SE	2.8	
12 Aug 2021	1:00 PM	SE	3.2	
12 Aug 2021	2:00 PM	SE	3.2	
12 Aug 2021	3:00 PM	SE	3.2	
12 Aug 2021	4:00 PM	SE	2.8	
12 Aug 2021	5:00 PM	Е	1.4	
12 Aug 2021	6:00 PM	SE	1.4	
12 Aug 2021	7:00 PM	SE	1.0	
12 Aug 2021	8:00 PM	SE	1.4	
12 Aug 2021	9:00 PM	ESE	1.0	
12 Aug 2021	10:00 PM	ESE	1.0	
12 Aug 2021	11:00 PM	Ν	1.0	
13 Aug 2021	12:00 AM	Ν	1.4	
13 Aug 2021	1:00 AM	NNW	1.4	
13 Aug 2021	2:00 AM	Ν	1.0	
13 Aug 2021	3:00 AM	Ν	1.0	
13 Aug 2021	4:00 AM	NW	1.0	
13 Aug 2021	5:00 AM	NNW	1.0	
13 Aug 2021	6:00 AM	SE	0.5	
13 Aug 2021	7:00 AM	SE	0.5	
13 Aug 2021	8:00 AM	SE	1.4	
13 Aug 2021	9:00 AM	SE	1.4	
13 Aug 2021	10:00 AM	SE	1.9	
13 Aug 2021	11:00 AM	ESE	1.9	
13 Aug 2021	12:00 PM	NNE	1.4	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
13 Aug 2021	1:00 PM	SE	2.3	
13 Aug 2021	2:00 PM	SE	1.4	
13 Aug 2021	3:00 PM	NNE	1.4	
13 Aug 2021	4:00 PM	ESE	1.4	
13 Aug 2021	5:00 PM	ESE	1.4	
13 Aug 2021	6:00 PM	NW	1.4	
13 Aug 2021	7:00 PM	NNW	1.4	
13 Aug 2021	8:00 PM	Ν	1.4	
13 Aug 2021	9:00 PM	NNE	1.0	
13 Aug 2021	10:00 PM	NW	1.4	
13 Aug 2021	11:00 PM	SE	1.0	
14 Aug 2021	12:00 AM	NNW	1.4	
14 Aug 2021	1:00 AM	Ν	1.0	
14 Aug 2021	2:00 AM	NNE	1.0	
14 Aug 2021	3:00 AM	SE	1.0	
14 Aug 2021	4:00 AM	Ν	0.5	
14 Aug 2021	5:00 AM	NW	1.9	
14 Aug 2021	6:00 AM	W	0.1	
14 Aug 2021	7:00 AM	W	0.1	
14 Aug 2021	8:00 AM	SE	0.5	
14 Aug 2021	9:00 AM	SE	1.0	
14 Aug 2021	10:00 AM	SE	1.0	
14 Aug 2021	11:00 AM	SE	1.4	
14 Aug 2021	12:00 PM	SE	1.4	
14 Aug 2021	1:00 PM	SE	1.9	
14 Aug 2021	2:00 PM	SE	1.9	
14 Aug 2021	3:00 PM	SE	2.3	
14 Aug 2021	4:00 PM	SE	1.9	
14 Aug 2021	5:00 PM	ESE	1.4	
14 Aug 2021	6:00 PM	SE	1.4	
14 Aug 2021	7:00 PM	ESE	1.0	
14 Aug 2021	8:00 PM	SE	1.0	
14 Aug 2021	9:00 PM	NW	1.0	
14 Aug 2021	10:00 PM	Ν	1.0	
14 Aug 2021	11:00 PM	SE	1.0	
15 Aug 2021	12:00 AM	Ν	1.4	
15 Aug 2021	1:00 AM	NNE	1.0	
15 Aug 2021	2:00 AM	ESE	1.0	
15 Aug 2021	3:00 AM	Ν	1.0	
15 Aug 2021	4:00 AM	Ν	1.0	
15 Aug 2021	5:00 AM	NW	1.0	
15 Aug 2021	6:00 AM	NW	0.5	
15 Aug 2021	7:00 AM	NW	0.5	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
15 Aug 2021	8:00 AM	ESE	1.0	
15 Aug 2021	9:00 AM	SE	1.9	
15 Aug 2021	10:00 AM	SE	1.4	
15 Aug 2021	11:00 AM	SE	1.9	
15 Aug 2021	12:00 PM	SE	2.3	
15 Aug 2021	1:00 PM	SE	1.9	
15 Aug 2021	2:00 PM	SE	1.9	
15 Aug 2021	3:00 PM	NNE	1.4	
15 Aug 2021	4:00 PM	Ν	1.9	
15 Aug 2021	5:00 PM	Ν	1.9	
15 Aug 2021	6:00 PM	E	1.4	
15 Aug 2021	7:00 PM	ESE	1.4	
15 Aug 2021	8:00 PM	SE	1.4	
15 Aug 2021	9:00 PM	SE	1.4	
15 Aug 2021	10:00 PM	ESE	1.4	
15 Aug 2021	11:00 PM	SE	0.5	
16 Aug 2021	12:00 AM	Ν	1.0	
16 Aug 2021	1:00 AM	SE	1.4	
16 Aug 2021	2:00 AM	SE	1.0	
16 Aug 2021	3:00 AM	SE	1.0	
16 Aug 2021	4:00 AM	SE	1.4	
16 Aug 2021	5:00 AM	SE	1.4	
16 Aug 2021	6:00 AM	SE	1.0	
16 Aug 2021	7:00 AM	ESE	0.5	
16 Aug 2021	8:00 AM	SE	1.4	
16 Aug 2021	9:00 AM	Ν	1.4	
16 Aug 2021	10:00 AM	SE	1.4	
16 Aug 2021	11:00 AM	Ν	1.4	
16 Aug 2021	12:00 PM	SE	1.4	
16 Aug 2021	1:00 PM	SE	1.0	
16 Aug 2021	2:00 PM	SE	1.0	
16 Aug 2021	3:00 PM	NW	1.4	
16 Aug 2021	4:00 PM	NNE	1.0	
16 Aug 2021	5:00 PM	SE	1.0	
16 Aug 2021	6:00 PM	ESE	0.5	
16 Aug 2021	7:00 PM	NNE	1.0	
16 Aug 2021	8:00 PM	N	1.0	
16 Aug 2021	9:00 PM	NNW	1.0	
16 Aug 2021	10:00 PM	SE	1.4	
16 Aug 2021	11:00 PM	E	0.5	
17 Aug 2021	12:00 AM	ESE	0.5	
17 Aug 2021	1:00 AM	ENE	0.1	
17 Aug 2021	2:00 AM	NE	0.1	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
17 Aug 2021	3:00 AM	NNE	0.5	
17 Aug 2021	4:00 AM	SE	1.0	
17 Aug 2021	5:00 AM	SE	1.0	
17 Aug 2021	6:00 AM	SE	0.5	
17 Aug 2021	7:00 AM	SE	1.0	
17 Aug 2021	8:00 AM	SE	1.0	
17 Aug 2021	9:00 AM	SE	1.4	
17 Aug 2021	10:00 AM	SE	1.0	
17 Aug 2021	11:00 AM	SE	1.9	
17 Aug 2021	12:00 PM	NW	0.5	
17 Aug 2021	1:00 PM	NW	0.5	
17 Aug 2021	2:00 PM	N	0.5	
17 Aug 2021	3:00 PM	SE	1.9	
17 Aug 2021	4:00 PM	SE	1.9	
17 Aug 2021	5:00 PM	SE	1.0	
17 Aug 2021	6:00 PM	SE	1.0	
17 Aug 2021	7:00 PM	NW	1.0	
17 Aug 2021	8:00 PM	NW	1.0	
17 Aug 2021	9:00 PM	NNW	1.4	
17 Aug 2021	10:00 PM	NW	1.0	
17 Aug 2021	11:00 PM	SE	1.4	
18 Aug 2021	12:00 AM	SE	1.4	
18 Aug 2021	1:00 AM	SE	1.0	
18 Aug 2021	2:00 AM	SE	0.5	
18 Aug 2021	3:00 AM	SE	1.0	
18 Aug 2021	4:00 AM	SE	1.0	
18 Aug 2021	5:00 AM	SE	1.0	
18 Aug 2021	6:00 AM	SE	1.0	
18 Aug 2021	7:00 AM	SE	1.4	
18 Aug 2021	8:00 AM	SE	1.4	
18 Aug 2021	9:00 AM	SE	1.0	
18 Aug 2021	10:00 AM	SE	1.9	
18 Aug 2021	11:00 AM	SE	1.4	
18 Aug 2021	12:00 PM	SE	1.9	
18 Aug 2021	1:00 PM	SE	1.4	
18 Aug 2021	2:00 PM	N	1.4	
18 Aug 2021	3:00 PM	SE	1.9	
18 Aug 2021	4:00 PM	SE	1.4	
18 Aug 2021	5:00 PM	ESE	0.5	
18 Aug 2021	6:00 PM	WNW	0.1	
18 Aug 2021	7:00 PM	SE	0.5	
18 Aug 2021	8:00 PM	SE	1.0	
18 Aug 2021	9:00 PM	SE	1.0	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
18 Aug 2021	10:00 PM	SE	0.5	
18 Aug 2021	11:00 PM	SE	1.0	
19 Aug 2021	12:00 AM	SE	0.5	
19 Aug 2021	1:00 AM	SE	0.1	
19 Aug 2021	2:00 AM	SE	0.1	
19 Aug 2021	3:00 AM	SE	0.1	
19 Aug 2021	4:00 AM	SE	0.5	
19 Aug 2021	5:00 AM	SE	0.1	
19 Aug 2021	6:00 AM	ESE	0.5	
19 Aug 2021	7:00 AM	SE	0.1	
19 Aug 2021	8:00 AM	ESE	0.5	
19 Aug 2021	9:00 AM	SE	1.0	
19 Aug 2021	10:00 AM	SE	1.0	
19 Aug 2021	11:00 AM	SE	1.4	
19 Aug 2021	12:00 PM	SE	1.4	
19 Aug 2021	1:00 PM	NNW	2.3	
19 Aug 2021	2:00 PM	NNW	1.9	
19 Aug 2021	3:00 PM	NNW	2.8	
19 Aug 2021	4:00 PM	W	2.3	
19 Aug 2021	5:00 PM	WNW	2.8	
19 Aug 2021	6:00 PM	WNW	3.2	
19 Aug 2021	7:00 PM	W	1.9	
19 Aug 2021	8:00 PM	NW	1.4	
19 Aug 2021	9:00 PM	WNW	0.5	
19 Aug 2021	10:00 PM	WNW	1.4	
19 Aug 2021	11:00 PM	WNW	1.0	
20 Aug 2021	12:00 AM	W	1.0	
20 Aug 2021	1:00 AM	WNW	0.5	
20 Aug 2021	2:00 AM	NW	1.0	
20 Aug 2021	3:00 AM	NE	0.5	
20 Aug 2021	4:00 AM	Ν	0.5	
20 Aug 2021	5:00 AM	Ν	0.5	
20 Aug 2021	6:00 AM	Ν	0.1	
20 Aug 2021	7:00 AM	NW	0.5	
20 Aug 2021	8:00 AM	NNW	1.0	
20 Aug 2021	9:00 AM	WNW	1.4	
20 Aug 2021	10:00 AM	W	1.0	
20 Aug 2021	11:00 AM	WNW	1.0	
20 Aug 2021	12:00 PM	WNW	1.4	
20 Aug 2021	1:00 PM	NNW	1.0	
20 Aug 2021	2:00 PM	WNW	1.9	
20 Aug 2021	3:00 PM	WNW	1.4	
20 Aug 2021	4:00 PM	NW	1.9	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
20 Aug 2021	5:00 PM	NW	1.4	
20 Aug 2021	6:00 PM	NNW	1.4	
20 Aug 2021	7:00 PM	WNW	1.0	
20 Aug 2021	8:00 PM	W	1.0	
20 Aug 2021	9:00 PM	NW	0.5	
20 Aug 2021	10:00 PM	WNW	1.4	
20 Aug 2021	11:00 PM	NNW	1.0	
21 Aug 2021	12:00 AM	W	1.4	
21 Aug 2021	1:00 AM	W	1.0	
21 Aug 2021	2:00 AM	ESE	0.5	
21 Aug 2021	3:00 AM	NW	0.5	
21 Aug 2021	4:00 AM	NNW	2.3	
21 Aug 2021	5:00 AM	NNW	1.4	
21 Aug 2021	6:00 AM	W	0.5	
21 Aug 2021	7:00 AM	NW	1.0	
21 Aug 2021	8:00 AM	E	0.5	
21 Aug 2021	9:00 AM	WNW	0.5	
21 Aug 2021	10:00 AM	W	1.0	
21 Aug 2021	11:00 AM	W	1.0	
21 Aug 2021	12:00 PM	NNW	1.4	
21 Aug 2021	1:00 PM	W	1.4	
21 Aug 2021	2:00 PM	W	1.0	
21 Aug 2021	3:00 PM	NW	4.1	
21 Aug 2021	4:00 PM	NW	5.5	
21 Aug 2021	5:00 PM	NW	5.0	
21 Aug 2021	6:00 PM	NW	5.5	
21 Aug 2021	7:00 PM	NNW	2.8	
21 Aug 2021	8:00 PM	WNW	1.0	
21 Aug 2021	9:00 PM	NW	1.9	
21 Aug 2021	10:00 PM	NW	1.9	
21 Aug 2021	11:00 PM	NW	1.9	
22 Aug 2021	12:00 AM	NW	1.4	
22 Aug 2021	1:00 AM	NW	1.0	
22 Aug 2021	2:00 AM	NW	1.4	
22 Aug 2021	3:00 AM	NNW	0.5	
22 Aug 2021	4:00 AM	W	1.0	
22 Aug 2021	5:00 AM	WNW	0.5	
22 Aug 2021	6:00 AM	WNW	0.5	
22 Aug 2021	7:00 AM	W	0.1	
22 Aug 2021	8:00 AM	NW	1.4	
22 Aug 2021	9:00 AM	WNW	1.4	
22 Aug 2021	10:00 AM	WNW	1.0	
22 Aug 2021	11:00 AM	WNW	1.9	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
22 Aug 2021	12:00 PM	W	1.9	
22 Aug 2021	1:00 PM	WNW	3.2	
22 Aug 2021	2:00 PM	NW	3.2	
22 Aug 2021	3:00 PM	NW	2.8	
22 Aug 2021	4:00 PM	NW	3.2	
22 Aug 2021	5:00 PM	NW	2.8	
22 Aug 2021	6:00 PM	NW	3.2	
22 Aug 2021	7:00 PM	NNW	3.2	
22 Aug 2021	8:00 PM	NW	2.8	
22 Aug 2021	9:00 PM	NW	1.4	
22 Aug 2021	10:00 PM	NW	0.5	
22 Aug 2021	11:00 PM	ESE	1.0	
23 Aug 2021	12:00 AM	ESE	0.5	
23 Aug 2021	1:00 AM	NNW	1.0	
23 Aug 2021	2:00 AM	Ν	0.1	
23 Aug 2021	3:00 AM	NW	1.4	
23 Aug 2021	4:00 AM	NW	1.4	
23 Aug 2021	5:00 AM	NW	0.5	
23 Aug 2021	6:00 AM	ESE	0.5	
23 Aug 2021	7:00 AM	NNW	1.0	
23 Aug 2021	8:00 AM	NW	1.0	
23 Aug 2021	9:00 AM	WNW	0.5	
23 Aug 2021	10:00 AM	NW	1.0	
23 Aug 2021	11:00 AM	Е	1.4	
23 Aug 2021	12:00 PM	ESE	1.0	
23 Aug 2021	1:00 PM	SE	1.4	
23 Aug 2021	2:00 PM	NW	2.3	
23 Aug 2021	3:00 PM	NW	2.8	
23 Aug 2021	4:00 PM	NW	3.2	
23 Aug 2021	5:00 PM	NW	4.1	
23 Aug 2021	6:00 PM	NW	2.8	
23 Aug 2021	7:00 PM	NNW	1.9	
23 Aug 2021	8:00 PM	NW	1.0	
23 Aug 2021	9:00 PM	NW	0.1	
23 Aug 2021	10:00 PM	NW	0.1	
23 Aug 2021	11:00 PM		0.1	
24 Aug 2021	12:00 AM	NW	0.1	
24 Aug 2021	1:00 AM	ESE	0.1	
24 Aug 2021	2:00 AM	SE	1.0	
24 Aug 2021	3:00 AM	SE	0.5	
24 Aug 2021	4:00 AM	SE	1.0	
24 Aug 2021	5:00 AM	SE	2.3	
24 Aug 2021	6:00 AM	SE	2.3	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
24 Aug 2021	7:00 AM	SE	1.4	
24 Aug 2021	8:00 AM	SE	1.9	
24 Aug 2021	9:00 AM	E	1.4	
24 Aug 2021	10:00 AM	SE	1.9	
24 Aug 2021	11:00 AM	SE	1.0	
24 Aug 2021	12:00 PM	SE	1.9	
24 Aug 2021	1:00 PM	SE	2.3	
24 Aug 2021	2:00 PM	SE	1.4	
24 Aug 2021	3:00 PM	SE	1.4	
24 Aug 2021	4:00 PM	SE	1.9	
24 Aug 2021	5:00 PM	SE	1.4	
24 Aug 2021	6:00 PM	SE	1.4	
24 Aug 2021	7:00 PM	SE	1.9	
24 Aug 2021	8:00 PM	SE	1.4	
24 Aug 2021	9:00 PM	ESE	2.3	
24 Aug 2021	10:00 PM	ESE	1.9	
24 Aug 2021	11:00 PM	SE	0.5	
25 Aug 2021	12:00 AM	Е	0.5	
25 Aug 2021	1:00 AM	Ν	0.5	
25 Aug 2021	2:00 AM	ESE	0.5	
25 Aug 2021	3:00 AM	SSE	0.1	
25 Aug 2021	4:00 AM	SSE	0.5	
25 Aug 2021	5:00 AM	SE	1.0	
25 Aug 2021	6:00 AM	SE	0.1	
25 Aug 2021	7:00 AM	SE	1.0	
25 Aug 2021	8:00 AM	ESE	1.9	
25 Aug 2021	9:00 AM	SE	1.9	
25 Aug 2021	10:00 AM	SE	1.9	
25 Aug 2021	11:00 AM	SE	1.4	
25 Aug 2021	12:00 PM	SE	0.5	
25 Aug 2021	1:00 PM	SE	0.5	
25 Aug 2021	2:00 PM	SE	0.5	
25 Aug 2021	3:00 PM	SE	1.0	
25 Aug 2021	4:00 PM	SE	1.0	
25 Aug 2021	5:00 PM	SE	0.5	
25 Aug 2021	6:00 PM	SSE	0.5	
25 Aug 2021	7:00 PM	SE	0.5	
25 Aug 2021	8:00 PM	WNW	1.0	
25 Aug 2021	9:00 PM	SE	1.9	
25 Aug 2021	10:00 PM	SE	1.0	
25 Aug 2021	11:00 PM	ESE	1.0	
26 Aug 2021	12:00 AM	SE	0.5	
26 Aug 2021	1:00 AM	SE	1.0	

August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
26 Aug 2021	2:00 AM	SSE	0.1	
26 Aug 2021	3:00 AM	NNW	0.1	
26 Aug 2021	4:00 AM	NNW	0.5	
26 Aug 2021	5:00 AM	NNW	1.9	
26 Aug 2021	6:00 AM	NNW	1.0	
26 Aug 2021	7:00 AM	NNW	1.9	
26 Aug 2021	8:00 AM	W	1.0	
26 Aug 2021	9:00 AM	WNW	1.0	
26 Aug 2021	10:00 AM	WNW	1.0	
26 Aug 2021	11:00 AM	W	1.0	
26 Aug 2021	12:00 PM	NW	1.0	
26 Aug 2021	1:00 PM	WNW	0.5	
26 Aug 2021	2:00 PM	WNW	0.5	
26 Aug 2021	3:00 PM	WNW	0.5	
26 Aug 2021	4:00 PM	W	0.5	
26 Aug 2021	5:00 PM	WNW	0.5	
26 Aug 2021	6:00 PM	NNW	0.5	
26 Aug 2021	7:00 PM	NW	0.5	
26 Aug 2021	8:00 PM	NW	0.5	
26 Aug 2021	9:00 PM	NW	0.5	
26 Aug 2021	10:00 PM	NW	0.1	
26 Aug 2021	11:00 PM		0.1	
27 Aug 2021	12:00 AM		0.1	
27 Aug 2021	1:00 AM		0.1	
27 Aug 2021	2:00 AM	Е	0.5	
27 Aug 2021	3:00 AM	ESE	1.0	
27 Aug 2021	4:00 AM	ESE	0.5	
27 Aug 2021	5:00 AM	ESE	1.0	
27 Aug 2021	6:00 AM	Е	1.0	
27 Aug 2021	7:00 AM	Е	1.9	
27 Aug 2021	8:00 AM	ESE	1.9	
27 Aug 2021	9:00 AM	ESE	1.4	
27 Aug 2021	10:00 AM	Е	1.0	
27 Aug 2021	11:00 AM	ESE	1.0	
27 Aug 2021	12:00 PM	NNW	1.9	
27 Aug 2021	1:00 PM	NNW	3.2	
27 Aug 2021	2:00 PM	NNW	1.4	
27 Aug 2021	3:00 PM	NNW	1.9	
27 Aug 2021	4:00 PM	NNW	1.4	
27 Aug 2021	5:00 PM	WNW	1.4	
27 Aug 2021	6:00 PM	WNW	2.3	
27 Aug 2021	7:00 PM	W	1.0	
27 Aug 2021	8:00 PM	WNW	2.8	

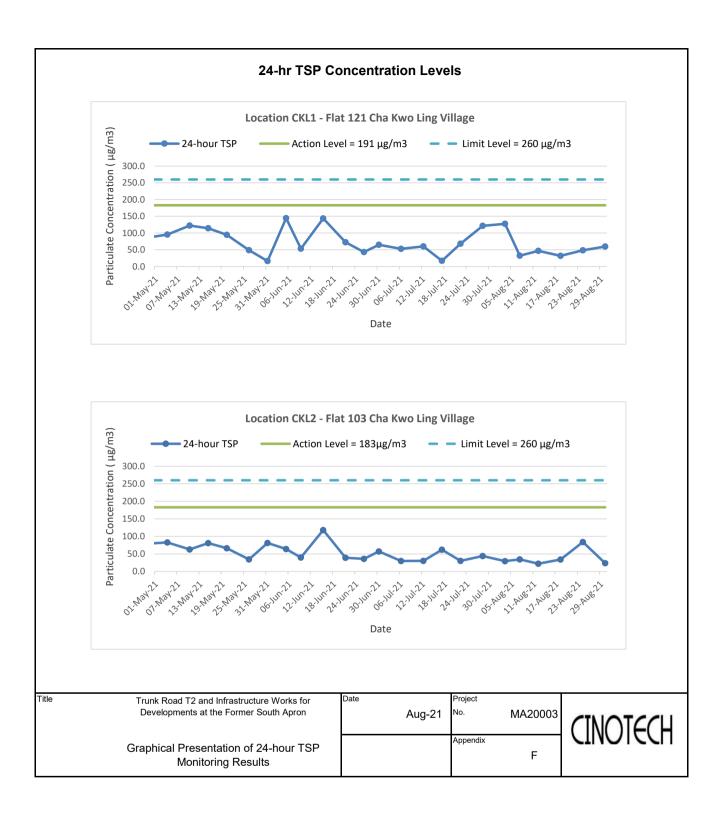
August 2021				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
27 Aug 2021	9:00 PM	WNW	2.3	
27 Aug 2021	10:00 PM	WNW	2.8	
27 Aug 2021	11:00 PM	W	2.8	
28 Aug 2021	12:00 AM	WNW	2.8	
28 Aug 2021	1:00 AM	W	2.8	
28 Aug 2021	2:00 AM	WNW	1.9	
28 Aug 2021	3:00 AM	WNW	1.9	
28 Aug 2021	4:00 AM	WNW	2.3	
28 Aug 2021	5:00 AM	WNW	1.9	
28 Aug 2021	6:00 AM	WNW	2.3	
28 Aug 2021	7:00 AM	WNW	2.3	
28 Aug 2021	8:00 AM	WNW	2.3	
28 Aug 2021	9:00 AM	WNW	1.9	
28 Aug 2021	10:00 AM	WNW	1.9	
28 Aug 2021	11:00 AM	NNW	1.9	
28 Aug 2021	12:00 PM	WNW	1.0	
28 Aug 2021	1:00 PM	WNW	1.4	
28 Aug 2021	2:00 PM	WNW	1.0	
28 Aug 2021	3:00 PM	W	1.0	
28 Aug 2021	4:00 PM	WNW	1.0	
28 Aug 2021	5:00 PM	W	1.0	
28 Aug 2021	6:00 PM	WNW	1.0	
28 Aug 2021	7:00 PM	NW	1.9	
28 Aug 2021	8:00 PM	NW	1.4	
28 Aug 2021	9:00 PM	W	0.5	
28 Aug 2021	10:00 PM	NW	1.0	
28 Aug 2021	11:00 PM	WNW	0.5	
29 Aug 2021	12:00 AM	NW	0.5	
29 Aug 2021	1:00 AM	NW	0.5	
29 Aug 2021	2:00 AM	WNW	1.0	
29 Aug 2021	3:00 AM	NNW	1.9	
29 Aug 2021	4:00 AM	NNW	1.0	
29 Aug 2021	5:00 AM	NW	1.0	
29 Aug 2021	6:00 AM	NW	1.9	
29 Aug 2021	7:00 AM	SE	1.0	
29 Aug 2021	8:00 AM	SE	0.5	
29 Aug 2021	9:00 AM	NW	1.0	
29 Aug 2021	10:00 AM	W	1.0	
29 Aug 2021	11:00 AM	WNW	1.9	
29 Aug 2021	12:00 PM	WNW	2.3	
29 Aug 2021	1:00 PM	W	2.3	
29 Aug 2021	2:00 PM	NW	2.8	
29 Aug 2021	3:00 PM	WNW	1.4	

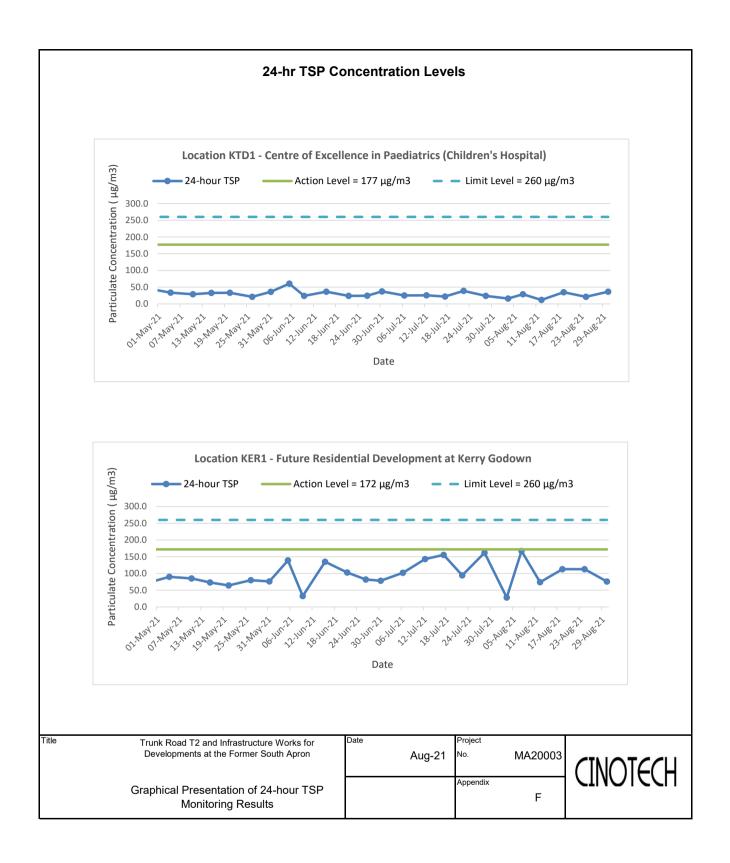
	Augus	st 2021	
	Wind Speed a	and Directions	
Date	Time	Wind Speed m-s	Direction
29 Aug 2021	4:00 PM	WNW	2.3
29 Aug 2021	5:00 PM	WNW	1.4
29 Aug 2021	6:00 PM	W	1.0
29 Aug 2021	7:00 PM	WNW	0.5
29 Aug 2021	8:00 PM	NNW	1.0
29 Aug 2021	9:00 PM	NW	0.5
29 Aug 2021	10:00 PM	W	1.0
29 Aug 2021	11:00 PM	NNW	2.3
30 Aug 2021	12:00 AM	NW	1.4
30 Aug 2021	1:00 AM	SE	0.5
30 Aug 2021	2:00 AM	ENE	0.5
30 Aug 2021	3:00 AM	NE	0.5
30 Aug 2021	4:00 AM	Е	0.5
30 Aug 2021	5:00 AM	NNW	1.4
30 Aug 2021	6:00 AM	NNW	1.0
30 Aug 2021	7:00 AM	NNW	1.4
30 Aug 2021	8:00 AM	W	1.4
30 Aug 2021	9:00 AM	W	1.0
30 Aug 2021	10:00 AM	WNW	1.0
30 Aug 2021	11:00 AM	WNW	1.9
30 Aug 2021	12:00 PM	NW	1.4
30 Aug 2021	1:00 PM	NW	1.0
30 Aug 2021	2:00 PM	WNW	1.4
30 Aug 2021	3:00 PM	WNW	1.4
30 Aug 2021	4:00 PM	WNW	1.4
30 Aug 2021	5:00 PM	W	1.9
30 Aug 2021	6:00 PM	WNW	1.4
30 Aug 2021	7:00 PM	WNW	1.4
30 Aug 2021	8:00 PM	W	1.4
30 Aug 2021	9:00 PM	W	1.4
30 Aug 2021	10:00 PM	WNW	1.4
30 Aug 2021	11:00 PM	W	1.0

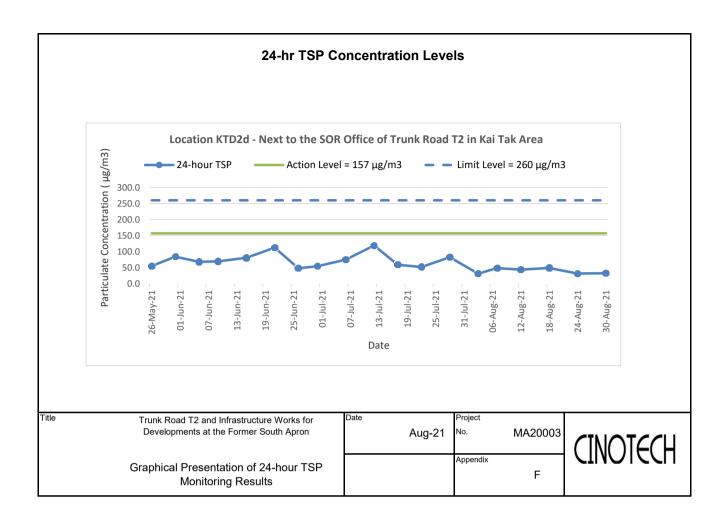
	Augus	st 2021	
	Wind Speed a	and Directions	
Date	Time	Wind Speed m-s	Direction
31 Aug 2021	12:00 AM	ESE	1.0
31 Aug 2021	1:00 AM	ESE	1.0
31 Aug 2021	2:00 AM	W	1.4
31 Aug 2021	3:00 AM	Е	1.4
31 Aug 2021	4:00 AM	ESE	1.0
31 Aug 2021	5:00 AM	ESE	1.4
31 Aug 2021	6:00 AM	Е	1.4
31 Aug 2021	7:00 AM	Е	1.4
31 Aug 2021	8:00 AM	Е	1.4
31 Aug 2021	9:00 AM	Е	1.9
31 Aug 2021	10:00 AM	W	2.8
31 Aug 2021	11:00 AM	WNW	2.8
31 Aug 2021	12:00 PM	WNW	2.8
31 Aug 2021	1:00 PM	W	2.8
31 Aug 2021	2:00 PM	W	2.3
31 Aug 2021	3:00 PM	W	2.3
31 Aug 2021	4:00 PM	WNW	2.8
31 Aug 2021	5:00 PM	W	2.3
31 Aug 2021	6:00 PM	WNW	2.8
31 Aug 2021	7:00 PM	W	2.3
31 Aug 2021	8:00 PM	SW	0.5
31 Aug 2021	9:00 PM	SSW	0.5
31 Aug 2021	10:00 PM	SSW	0.5
31 Aug 2021	11:00 PM	SW	1.0

Appendix D - Weather Conditions

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS







Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Destinutate	Elaps	e Time	Complian	Flow Rate	e (m ³ /min.)	Av. Flow	Total val	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	Particulate weight (g)	Initial	Final	Sampling Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Aug-21	Rainy	301.2	748.3	3.6535	3.8768	0.2233	2734.3	2758.3	24.0	1.22	1.21	1.21	1749.1	127.7		
7-Aug-21	Fine	302.1	753.1	3.6844	3.7407	0.0563	2758.3	2782.3	24.0	1.22	1.22	1.22	1751.6	32.1		
12-Aug-21	Sunny	301.8	756.7	3.6979	3.7801	0.0823	2922.7	2946.7	24.0	1.22	1.22	1.22	1755.5	46.9	191.0	260.0
18-Aug-21	Sunny	302.1	757.3	3.6844	3.7407	0.0563	2946.7	2970.8	24.0	1.22	1.22	1.22	1756.2	32.1	151.0	200.0
24-Aug-21	Sunny	302.7	757.3	3.6797	3.7647	0.0850	2970.8	2994.8	24.0	1.22	1.22	1.22	1754.1	48.5		
30-Aug-21	Sunny	301.2	759.4	3.7009	3.8058	0.1049	2994.8	3018.8	24.0	1.22	1.22	1.22	1759.4	59.6		
Note:	Bold Italic means A												Min	32.1		
	Bold Italic with und	lerline means l	Limit Level exceedance										Max	127.7		
													Average	57.8		

Location CKL2 - Flat 103 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition		Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)	
3-Aug-21	Rainy	301.2	748.3	3.6622	3.7138	0.0517	14915.4	14939.4	24.0	1.22	1.21	1.22	1750.0	29.5		
7-Aug-21	Sunny	302.1	753.1	3.6946	3.7553	0.0607	14939.4	14963.4	24.0	1.22	1.22	1.22	1753.0	34.6		
12-Aug-21	Sunny	301.8	756.7	3.7288	3.7682	0.0394	14963.4	14987.4	24.0	1.22	1.22	1.22	1757.6	22.4	183.0	260.0
18-Aug-21	Sunny	302.1	757.3	3.7010	3.7614	0.0604	14987.4	15011.4	24.0	1.22	1.22	1.22	1757.6	34.4	103.0	200.0
24-Aug-21	Sunny	302.7	757.3	3.6493	3.7969	0.1476	15011.4	15035.4	24.0	1.22	1.22	1.22	1755.9	84.1		
30-Aug-21	Sunny	301.2	759.4	3.7039	3.7457	0.0418	15035.4	15059.4	24.0	1.22	1.23	1.22	1762.3	23.7		
Note:	Bold Italic means /	Action Level exce	edance										Min	22.4		
	Bold Italic with un	derline means	Limit Level exceedance										Max	84.1	1	
													Average	38.1		

Appendix F - 24-hour TSP Impact Monitoring Results

Location KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	2	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Aug-21	Cloudy	301.2	748.3	3.6867	3.7146	0.0279	14463.1	14487.1	24.0	1.22	1.22	1.22	1752.9	15.9		
7-Aug-21	Sunny	302.1	753.1	3.6832	3.7339	0.0507	14487.1	14511.1	24.0	1.22	1.22	1.22	1755.7	28.9		
12-Aug-21	Cloudy	301.8	756.7	3.6735	3.6943	0.0208	14511.1	14535.0	24.0	1.22	1.22	1.22	1759.2	11.8	177.0	260.0
18-Aug-21	Sunny	302.1	757.3	3.6817	3.7432	0.0615	14535.0	14559.1	24.0	1.22	1.22	1.22	1760.7	34.9	177.0	200.0
24-Aug-21	Sunny	302.7	757.3	3.7084	3.7456	0.0372	14559.0	14583.0	24.0	1.22	1.22	1.22	1758.4	21.2		
30-Aug-21	Sunny	301.2	759.4	3.6664	3.7304	0.0640	14583.0	14607.0	24.0	1.22	1.23	1.23	1764.3	36.3		
Note:	Bold Italic means A	ction Level exce	edance										Min	11.8		
	Bold Italic with une	<i>terline</i> means l	Limit Level exceedance										Max	36.3	1	
													Average	24.8		

Location KER1 - Future Residential Development at Kerry Godown

	Weather	Air Temp.	Atmospheric	Filter W	/eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Aug-21	Cloudy	301.2	748.3	3.7067	3.7562	0.0494	12140.6	12164.6	24.0	1.22	1.22	1.22	1752.0	28.2		
7-Aug-21	Sunny	302.1	753.1	3.6793	3.9730	0.2936	12164.6	12188.6	24.0	1.22	1.22	1.22	1755.2	167.3		
12-Aug-21	Cloudy	301.8	756.7	3.6725	3.8024	0.1299	12198.5	12222.5	24.0	1.22	1.22	1.22	1760.2	73.8	172.0	260.0
18-Aug-21	Sunny	302.1	757.3	3.7115	3.9099	0.1984	12222.5	12246.5	24.0	1.22	1.22	1.22	1760.3	112.7	172.0	200.0
24-Aug-21	Sunny	302.7	757.3	3.6988	3.8977	0.1988	12246.5	12270.5	24.0	1.22	1.22	1.22	1758.4	113.1		
30-Aug-21	Sunny	301.2	759.4	3.6802	3.8139	0.1337	12270.5	12294.5	24.0	1.22	1.23	1.23	1765.4	75.8		
Note:	Bold Italic means /												Min	28.2		
	Bold Italic with un	derline means l	Limit Level exceedance										Max	167.3		
													Average	95.1		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

	Weather	Air Temp.	Atmospheric	Filter W	'eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol	Conc.	Action	Limit
Start Date	Condition	(K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)		Final	Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Aug-21	Cloudy	301.2	748.3	3.7042	3.7593	0.0550	12900.9	12924.9	24.0	1.22	1.21	1.22	1749.7	31.5		
7-Aug-21	Cloudy	302.1	753.1	3.7261	3.8113	0.0853	12924.9	12948.9	24.0	1.22	1.22	1.22	1753.4	48.6		
12-Aug-21	Cloudy	301.8	756.7	3.6842	3.7612	0.0769	12948.9	12972.9	24.0	1.22	1.22	1.22	1759.1	43.7	172.0	260.0
18-Aug-21	Sunny	302.1	757.3	3.6666	3.7531	0.0864	12972.9	12996.9	24.0	1.22	1.22	1.22	1759.1	49.1	172.0	200.0
24-Aug-21	Sunny	302.7	757.3	3.6935	3.7495	0.0560	12996.9	13020.9	24.0	1.22	1.22	1.22	1757.0	31.9		
30-Aug-21	Sunny	301.2	759.4	3.6754	3.7331	0.0577	13020.9	13044.9	24.0	1.22	1.23	1.23	1765.0	32.7		
Note:	Bold Italic means A												Min	31.5		
	Bold Italic with une	derline means	Limit Level exceedance										Max	49.1		
													Average	39.6		

APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



Calibration Certificate

0025249

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 181001636
Customer Code : SVEC09005 Date of calibration: 0)5/11/2020)5/11/2021	Manufacturer : Sour Certificate No.: Handle by:	ndtek 0025249 E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 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.	
Performed by		Approved by
ar		L
Calibration Technician	Mr. K.L. Ng	Quality Manager
Appleone Calibration Laboratory Ltd.	Rm1309, 13/F, No.77 Wing Hong S	t, KIn, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393



Calibration Certificate

0025247

Customer :		Object 1 :	ST-120 sound calibrator
Cinotech Consultants Limited		Serial No. /Ref. No. :	181001608
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. ::	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : Sour	ndtek
Date of calibration:	05/11/2020	Certificate No .:	0025247
Date of the recommended re-calibration:	05/11/2021	Handle by:	E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 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	e allowable deviation		
Performed by	1		Approved	ьу
	at		L	~ ``
Calibration Technicia	an	Mr. K.L. Ng	Quality Ma	nager
Appleone Calibration Lat	poratory Ltd. Rm	1309, 13/F, No.77 Wing Hor	ng St, Kln, HKSAR	Tel: +852 2370 4437 Fax: +852 2114 0393



APPLICANT: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street,

Test Report No.:	00122		
Date of Issue:	2021-05-12		
Date Received:	2021-05-07		
Test Period	2021-05-10 to		
	2021-05-10		
Next Due Date:	2022-05-10		

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

Description	Integrating Sound Level Meter		
Manufacturer	BSWA Technology		
Model No.	BSWA 308		
Serial No.	580156		
Microphone No.	580804		
Equipment No.	N-12-06		

Test conditions:

Room Temperature Relative Humidity : 22-25 degree Celsius : 35-70%

Method reference:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01



Test Report

Results:

Reference value, dBIndication value, dB		Deviation, dB	Allowed deviation, dB
94.0 94.0		0.0	± 1.5
114.0	114.0	+0.1	± 1.5

REMARK:

- 1. The indication value was obtained from the average of ten replicated measurement.
- 2. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC 17025.

-----End of Report-----

PREPARED AND CHECKED BY: For and On Behalf of **High Precision Chemical Testing Limited**

Laboratory Director (CHAN Hon-Fai)



APPLICANT: Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street,

Test Report No.:	00114
Date of Issue:	2021-05-07
Date Received:	2021-03-25
Test Period	2021-03-26 to
	2021-03-26
Next Due Date:	2022-03-26

ATTN: Mr. Henry Leung

Certificate of Calibration

Item for calibration

Description	Integrating Sound Level Meter		
Manufacturer	BSWA Technology		
Model No.	BSWA 308		
Serial No.	580287		
Microphone No.	590079		
Equipment No.	N-12-05		

Test conditions:

Room Temperature Relative Humidity : 22-25 degree Celsius : 35-70%

Method reference:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

Measuring equipment :

Description	Sound Calibrator
Manufacturer	Brüel & Kjær
Model No.	TYPE 4231
Serial No.	2326353
Equipment No.	N-02-01



Test Report

Results:

Reference value, dBIndication value, dB		Deviation, dB	Allowed deviation, dB
94.0 94.0		0.0	± 1.5
114.0	114.0	0.0	± 1.5

REMARK:

- 1. The indication value was obtained from the average of ten replicated measurement.
- 2. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC 17025.
- 3. This report supersedes the test report no. 00100 issued on 26 Mar 2021.

-----End of Report-----

PREPARED AND CHECKED BY: For and On Behalf of **High Precision Chemical Testing Limited**

Laboratory Director (CHAN Hon-Fai)

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1 - Flat 121 Cha Kwo Ling Village							
				Unit: dB	6 (A) (30-min)		
Date	Time	Time Weather	Measured Noise Level		Baseline Level	Construction Noise Level	
Duto	Date		1	1		1	1
			L _{eq}	L ₁₀	L 90	L eq	L _{eq}
4-Aug-21	10:50	Cloudy	72.9	76.6	60.5	72.4	63
9-Aug-21	15:00	Cloudy	69.3	71.4	67.1	72.4	69.3 Measured \leq Baseline
19-Aug-21	15:00	Fine	70.5	72.2	68.1	72.4	70.5 Measured \leq Baseline
25-Aug-21	13:30	Fine	70.1	71.7	67.4	72.4	70.1 Measured \leq Baseline
31-Aug-21	15:00	Cloudy	68.0	71.2	61.8	72.4	68 Measured ≦ Baseline

Location CKL2 - Flat 103 Cha Kwo Ling Village

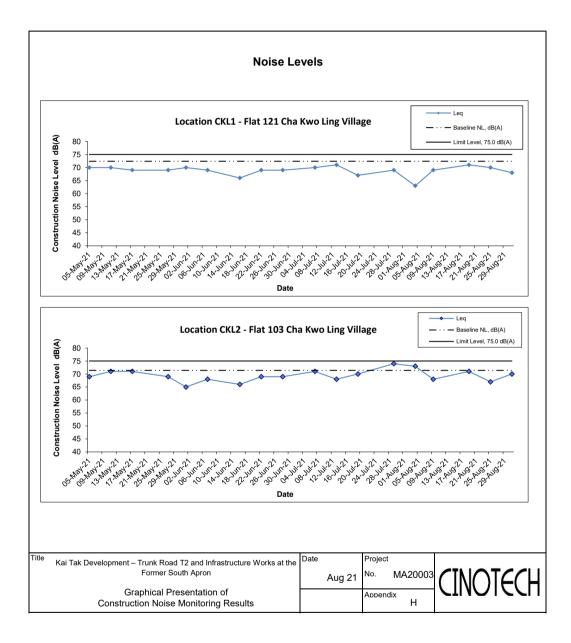
				Unit: dB	6 (A) (30-min)						
Date	Time	Weather	Meas	Measured Noise Level		Baseline Level	Construction Noise Level				
Date	TIME	vveatrier									
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
4-Aug-21	10:20	Rainy	75.1	78.7	61.7	71.4	73				
9-Aug-21	15:40	Cloudy	68.3	70.5	66.2	71.4	68.3 Measured \leq Baseline				
19-Aug-21	15:30	Fine	70.9	73.1	68.5	71.4	70.9 Measured \leq Baseline				
25-Aug-21	14:10	Fine	72.8	76.6	59.3	71.4	67				
31-Aug-21	15:30	Cloudy	70.2	72.4	68.3	71.4	70.2 Measured ≦ Baseline				

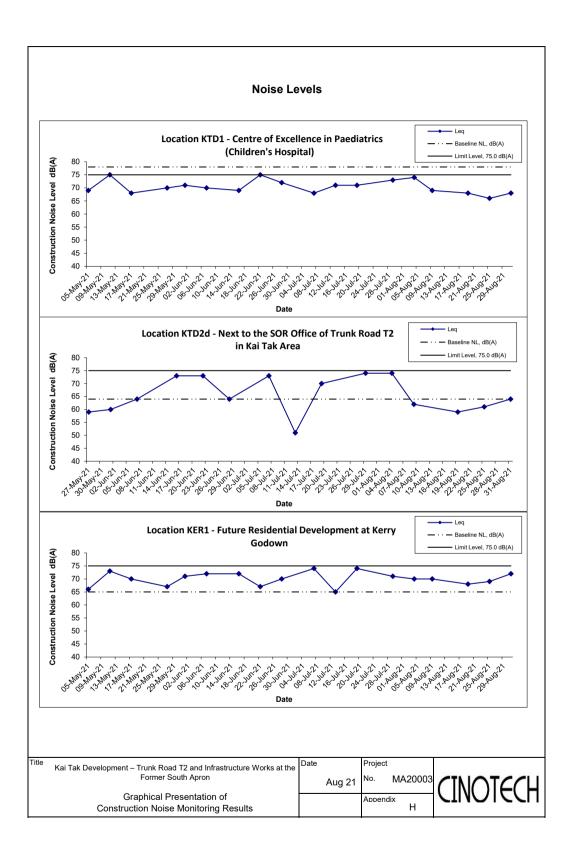
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)										
					Unit:	dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Date	TIME	Time	ine weather	I	L ₁₀	L 90	1	I		
			∟ _{eq}	└ 10	□ 90	∟ _{eq}	L _{eq}			
4-Aug-21	14:00	Fine	73.8	75.5	72.1	78.0	73.8 Measured ≦ Baseline			
9-Aug-21	13:30	Cloudy	69.2	72.3	66.1	78.0	69.2 Measured ≦ Baseline			
19-Aug-21	11:00	Sunny	67.9	67.9 70.1		78.0	67.9 Measured \leq Baseline			
25-Aug-21	11:00	Sunny	66.3	66.8	65.7	78.0	66.3 Measured ≦ Baseline			
31-Aug-21	11:00	Cloudy	67.8	70.1	65.7	78.0	67.8 Measured \leq Baseline			

Location KER1 - Future Residential Development at Kerry Godown									
				Unit: dB (A) (30-min)					
Date	Time	ïme Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Date	Date		1						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
4-Aug-21	16:00	Fine	71.2	73.1	67.4	65.0	70		
9-Aug-21	9:15	Cloudy	71.4	74.1	67.5	65.0	70		
19-Aug-21	10:00	Sunny	69.6	71.0	67.8	65.0	68		
25-Aug-21	10:00	Sunny	70.2	71.5	67.2	65.0	69		
31-Aug-21	9:45	Cloudy	72.4	74.0	68.8	65.0	72		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

					Unit:	dB (A) (30-min)			
Date	Time	Weather	Measured Noise Le		Measured Noise Level		_evel	Baseline Level	Construction Noise Level
Date	TIME	vveatrici							
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
4-Aug-21	15:00	Fine	74.8	77.3	61.2	64.0	74		
9-Aug-21	11:30	Cloudy	61.6	63.6	58.1	64.0	62 Measured ≦ Baseline		
19-Aug-21	9:00	Sunny	58.5	59.6	57.1	64.0	59 Measured ≦ Baseline		
25-Aug-21	9:00	Sunny	60.6	61.7	59.2	64.0	61 Measured ≦ Baseline		
31-Aug-21	13:30	Cloudy	63.8	65.8	61.1	64.0	64 Measured ≦ Baseline		





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 210804 Checklist Reference Number 210804 Date 04 Aug 2021 (Wednesday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210729), All items was rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	04 Aug 2021
Checked by	Karina Chan	Zalle	04 Aug 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210813
Date	13 August 2021 (Friday)
Time	10:00 - 11:00

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

Ref. No.	Remarks/Observations	Related Item No.
210813 – R1	<i>B. Water Quality</i>Contractor is reminded to prevent oil/grease leak into discharge system	B2
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
210813 - R1	<i>E. Waste/Chemical Management</i>Contractor is reminded to prevent oil/grease leak into discharge system	E6
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210804), no major environmental deficiency was identified during previous session. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	13 August 2021
Checked by	Karina Chan	Zelle	13 August 2021

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

Weekly Site Inspection Record Summary Inspection Information 210819 Checklist Reference Number 210819 Date 19 Aug 2021 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	<i>C. Air Quality</i>No environmental deficiency was identified during site inspection	
	<i>D. Construction Noise Impact</i>No environmental deficiency was identified during site inspection.	
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.	
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.	
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.	
 <i>H. Marine Ecology</i> No environmental deficiency was identified during site inspectively. 	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>Follow up on the previous session (Ref No.:210813), All items was rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	19 Aug 2021
Checked by	Karina Chan	Zalle	19 Aug 2021

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

Weekly Site Inspection Record Summary Inspection Information

Checklist Reference Number	210826
Date	26 August 2021 (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 <i>C. Air Quality</i> 				
	No environmental deficiency was identified during site inspection				
	 D. Construction Noise Impact No environmental deficiency was identified during site inspection. 				
	<i>E. Waste/Chemical Management</i>No environmental deficiency was identified during site inspection.				
	<i>F. Visual and Landscape</i>No environmental deficiency was identified during site inspection.				
	<i>G. Permits/Licences</i>No environmental deficiency was identified during site inspection.				
	<i>H. Marine Ecology</i>No environmental deficiency was identified during site inspection.				
	<i>I. Others</i>Follow up on the previous session (Ref No.:210819), no major environmental deficiency was identified during previous session.				

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	26 August 2021
Checked by	Karina Chan	Zelle	26 August 2021

APPENDIX J EVENT AND ACTION PLANS

.	Action				
Event	ET	IEC	ER	Contractor	
Action Level					
 Exceedance for one sample 	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods agreed with the ER as appropriate. 	
2. Exceedance by two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures if required; Advise the ER on the effectiveness of the proposed remedial measures; 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within three working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	

Table J-1Event/Action Plan for Air Construction Dust Monitoring

	Action					
Event	ET	IEC	ER	Contractor		
Limit level 1. Exceedance for one sample	 7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring. 1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; 	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; Implement the agreed proposals; Amend proposal if 		
	Contractor's remedial actions and keep IEC and ER informed of the results.	5. Supervise implementation of remedial measures.		appropriate.		
2. Exceedance for two or more	1. Notify IEC, ER and Contractor;	1. Discuss amongst ER, ET, and Contractor on the potential	1. Confirm receipt of notification of exceedance in	 Take immediate action to avoid further exceedance; 		
consecutive	2. Identify source;	remedial actions;	writing;	2. Submit proposals for remedial		

E	Action				
Event	ET	IEC	ER	Contractor	
samples	3. Repeat measurement to	2. Review Contractor's	2. Notify Contractor;	actions to ER and copy to the	
	confirm findings;	remedial actions whenever	3. In consolidation with the IEC	IEC and ET within three	
	4. Increase monitoring	necessary to assure their	and ET, agree with the	working days of notification;	
	frequency to daily;	effectiveness and advise the	Contractor on the remedial	3. Implement the agreed	
	5. Carry out analysis of	ER and ET accordingly;	measures to be implemented;	proposals;	
	Contractor's working	3. Supervise the	4. Ensure remedial measures	4. Resubmit proposals if	
	procedures with the ER to	implementation of remedial	properly implemented;	problem still not under	
	determine possible mitigation	measures.	5. If exceedance continues,	control;	
	to be implemented;		consider what portion of the	5. Stop the relevant portion of	
	6. Arrange meeting with IEC		work is responsible and	works as determined by the	
	and ER to discuss the		instruct the Contractor to	ER until the exceedance is	
	remedial actions to be taken;		stop that portion of work	abated.	
	7. Assess effectiveness of		until the exceedance is		
	Contractor's remedial actions		abated.		
	and keep IEC, EPD and ER				
	informed of the results;				
	8. If exceedance stops, cease				
	additional monitoring.				

Table J-2	Event/Action Fian for Construction Noise Monitoring					
Event	Action					
Event	ET	IEC	ER	Contractor		
Action Level	1. Notify IEC, ER and	1. Review the monitoring data	1. Notify Contractor;	1. Submit noise mitigation		
	Contractor;	submitted by the ET;	2. Require Contractor to propose	proposals to the ER and copy		
	2. Carry out investigation;	2. Review the construction	remedial measures for	to the IEC and ET;		
	3. Report the results of	methods and proposed redial	implementation if required.	2. Implement noise mitigation		
	investigation to the IEC and	measures by the Contractor,		proposals.		
	Contractor;	and advise the ET and ER if				
	4. Discuss jointly with the ER	the proposed remedial				
	and formulate remedial	measures would be				
	measures;	sufficient.				
	5. Increase monitoring					
	frequency to check					
	mitigation effectiveness.					
Limit Level	1. Notify IEC, ER and	1. Discuss amongst ER, ET, and	1. Confirm receipt of	1. Take immediate action to		
	Contractor;	Contractor on the potential	notification of failure in	avoid further exceedance;		
	2. Identify source;	remedial actions;	writing;	2. Submit proposals for		
	3. Repeat measurements to	2. Review the Contractor's	2. Notify Contractor;	remedial actions to the ER		
	confirm findings;	remedial actions whenever	3. Require Contractor to	and copy to the ET and IEC		
	4. Carry out analysis of	necessary to assure their	propose remedial measures	within 3 working days of		
	Contractor's working	effectiveness and advise the	for the analysed noise	notification;		

Table J-2Event/Action Plan for Construction Noise Monitoring

E		Act	tion	
Event	ET	IEC	ER	Contractor
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under
	taken for the exceedances;		consider what portion of the	control;
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of
	frequency;		instruct the Contractor to stop	works as determined by the
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is
	the Contractor's remedial		exceedance is abated.	abated.
	action with the ER and keep			
	the IEC informed of the			
	results;			
	8. If exceedance stops, cease			
	additional monitoring.			

Event	Action				
	ET	IEC	ER	Contractor	
Non-conformity	1. Identify Source;	1. Check report;	1. Notify Contractor;	1. Amend working methods;	
on one occasion	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake	
	3. Discuss remedial actions with	method;	are properly implemented.	any necessary replacement.	
	IEC, ER and Contractor	3. Discuss with ET and the			
	4. Monitor remedial actions until	Contractor on possible			
	rectification has been	remedial measures;			
	completed.	4. Advise ER on effectiveness			
		of proposed remedial			
		measures;			
		5. Check implementation of			
		remedial measures			

Table J-3Event/Action Plan for Landscape and Visual

Event	Action								
	ET	IEC	ER	Contractor					
Repeated	1. Identify source;	1. Check monitoring report;	1. Notify Contractor;	1. Amend working methods;					
Non-conformity	2. Inform the IEC and the ER;	2. Check Contractor's working	2. Ensure remedial measures	2. Rectify damage and undertake					
	3. Increase monitoring frequency;	method;	are properly implemented.	any necessary replacement.					
	4. Discuss remedial actions with	3. Discuss with ET and the							
	the IEC, the ER and the	Contractor on possible							
	Contractor;	remedial measures;							
	5. Monitor remedial actions until	4. Advise ER on effectiveness							
	rectification has been	of proposed remedial							
	completed;	measures;							
	6. If exceedance stops, cease	5. Check implementation of							
	additional monitoring.	remedial measures							

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement					Status
						D	C	0		
Air Quality Imp	act									
\$2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m ² for the respective watering frequency;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		٨	
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)	
	3-sided barriers around the stockpiling areas WA3 and WA4.								^	
\$2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice: Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		٨	
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								٨	
	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;								٨	
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								^	
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status	
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	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								٨
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;	-							N/A(1)
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								۸
	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;								٨
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status	
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Noise Impact						L		<u> </u>	
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		٨
\$3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m ² to screen noise from movable and stationary plant.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		٨
\$3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m ² to screen noise from generally static noisy plant such as air compressors.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		٨
\$3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
\$3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
	Mobile plant, if any, should be sited as far from NSRs as possible;								٨
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								٨
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								٨
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
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	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								٨
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality		ļ	I	I					
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		*
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								۸
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m^3 /s, a sedimentation basin of 30m^3 would be required and for a flow rate of 0.5m^3 /s the basin would be 150m^3 . All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		n Stages	Status
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	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the 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;								A
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								٨
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								^
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								^
	Open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;								^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			Status	
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	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;								^
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and 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;								N/A(1)
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								Λ
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								۸
	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	• 8			Status
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S4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other onsite activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)
\$4.2.1.1	Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub- contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A
	Uncontaminated discharge should pass through settlement tanks prior to discharge; If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;								N/A N/A
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
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	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
S4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion,	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		۸
	maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only; The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								^ N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								٨
	An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
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	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include: 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;	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								^ N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of 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.								*
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸

K-9

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
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	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	The Contractor must, also, register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	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.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	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:	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;								
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.							-	N/A(1)

EM&A Ref.	f. Recommended Mitigation Measures	· · · · · · · · · · · · · · · · · · ·	Relevant Standard or Requirement			n Stages	Status		
						D	С	0	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
Marine Ecology									
\$5.3.1.1	Good construction practice measures have been recommended to be implemented as follows: Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Placement of equipment in designated areas within the existing disturbed land;							-	N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)
Fisheries							-		
\$6.2.1.2	No fisheries specific mitigation measures.								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
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Landscape and V	Visual						<u> </u>		
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		۸
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A
\$7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		^
\$7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		٨
\$7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸
\$7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸
\$7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	nded A Main	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
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\$7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
\$7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritag	e							· · · · ·	
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
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Waste Managem	lent Implication								
\$9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
\$9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include: - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
\$9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
\$9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
\$9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		N/A
\$9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
\$9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
\$9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
\$9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	C	0	
\$9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows: - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. - Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		N/A(1)
\$9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		*

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Imple	nentatio	Status	
						D	C	0	
\$9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
\$9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		۸
\$9.2.1.2	All waste containers should be in a secure area on hardstanding.		All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^
\$9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	ientatio	n Stages	Status
						D	С	0	
\$9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)
\$9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	• •	All areas / throughout construction period	Contractor	EIAO TM		Y		^

Remarks: EM	Remarks: EM&A Programme under EP-451/2013											
D	Design											
С	Construction											
Y	Yes											
0	Operation											
^	Compliance of mitigation measure;											
N/A N/A(1)	Not applicable at this stage; Not observed;											
*	Recommendation was made during site audit but improved/retified by the contractor;											
#	Recommendation was made during site audit but not yet improved/retified by the contractor;											
Х	Non-compliance of mitigation measure;											
•	Non-compliance but rectified by the contractor.											

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

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

Appendix L – Summary of environmental complaint, warning, summon and notification of successful prosecution

Reporting Month: August 2021

Log Ref.	Location	Received Date	Details of Complaint/war ning/summon and prosecution	Investigation/Mitigation Action	Status
-	-	-	-	-	-

Remarks:

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

APPENDIX M SUMMARY OF EXCEEDANCE

Environmental Permit No.: EP-451/2013 Environmental Team for Trunk Road T2

Appendix M – Summary of Exceedance

Reporting Month: August 2021

(A) Exceedance Report for Air Quality No Action Level and Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

(B) Exceedance Report for Construction Noise

<u>Action Level for Construction Noise</u> No Action Level exceedance was recorded in this reporting month.

<u>Limit Level for Construction Noise</u> No Limit Level exceedance for daytime construction noise monitoring was recorded in the reporting month.

(C) Summary of Landscape and Visual Non-Conformity (NIL in the reporting month)

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

ctivity Name	Dur	r 02V0 Start	02V0 Finish	1 Start	Finish		endix A
						May June July August September October Nov	November
ED/2018/04 - Trunk Road T2	538	8 25 - Aug-20	21-Jun-22	25-Aug-20 A	A 19-Feb-22		
DESIGN SUBMISSION & APPROVAL	513	3 23-Sep-20	21-Jun-22	28-Oct-20 A	12-Jan-22		
GENERAL	359	9 06-Oct-20	20-Dec-21	30-Dec-20 A	A 14-Dec-21		
Design Memorandum	0	06-Oct-20	06-Oct-20				
Design Memorandum - Further Information required	0	,	,			Design Memorandum - Futther Information required	
Design Memorandum - 7th Sub	0	,	,)	16-May-21 A	Design Memorandum - 7th Sub	
Design Memorandum - Approval	0	· · · · · · · · · · · · · · · · · · ·	06-Oct-20		07-Jun-21 A	◆ Design Memorandum - Approval	
Design Memorandum - 7th Review	0	1	,	17-May-21 A	A 07-Jun-21 A	Design Memorandum - 7th Review	
Construction Traffic Impact Assessment - Kai Tak Area	0	06-Oct-20		-			
CTIA Kai Tak Area - Resubmission	0	,	,	03-May-21 A	A 19-Aug-21 A	CTIA Kại Tak Area - Resubmission	
CTIA Kai Tak Area - 6th Sub	0	7	7		19-Aug-21 A	◆ CTIA Kai Tak Area - 6th Sub	
CTIA Kai Tak Area - Approval	0	,	06-Oct-20		18-Sep-21	CTIA Kai Tak Area - Approval	
CTIA Kai Tak Area - 6th Review	0	1		20-Aug-21 A	A 18-Sep-21	CTIA Kai Tak Area - 6th Review	
ACABAS - Western Tunnel Portal	30	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A		
DDA - 2nd Review by SO	35	20-Nov-20	24-Dec-20		-	DDA-2nd Review by SO	
DDA - SO Consent for Construction	0		24-Dec-20	-	18-May-21 A	◆ DDA - SQ Consent for Construction	
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	01-Apr-21 A	10-Sep-21		
AIP - 3rd Review by SO	0	,				AIP - 3rd Review by SO	
AIP - Further information required by SO	0			06-May-21 A	A 28-May-21 A	AIP - Further information required by SO	
AIP - 4th Sub	0			+	28-May-21 A	▲ AIP - 4th Sub	
AIP - 4th Review by SO	0		'		A 29-Jun-21 A	AIP - 4th Review by SO	
AIP - Further information required by SO	0		'			AIP - Further information required by SO	
AIP - 5th Sub	0		'		31-Jul-21 A	◆ AIP - 5th Sub	
AIP - SO Consent for DDA Submission	0		16-Feb-21		10-Sep-21	◆ AIP - \$O Consent for DDA Submission	
AIP - 5th Review by SO	0	·	,	31-Jul-21 A	· · ·	AIP - 5th Review by \$O	
DDA Roadworks and Street Furniture	76		21-May-21		· ·	✓ DDA Roadworks and Street Furniture	
DDA - Draft - Preparation by Designer	36		29-Mar-21	11-Sep-21			reparation by Desig
DDA - Draft - Final Review and prepare for 1st Sub	18		23-Apr-21	27-Oct-21	16-Nov-21	<u>╭</u> ──┤──┤──┤─┤┼─┤──┤─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼──┤╌─┤╌─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤┼─┤	DDA - Draft
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DDA Traffic Sign, Road Marking & Sign Gantry DDA - Review by IP / DC	75 28			-			
DDA - Review by SO	20					DDA- Review by IF / DC	
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DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	0		22-Jan-21				
DDA - Further information required by SO	0	/	,	16-Apr-21 A	07-Jun-21 A	DDA - Further information required by SO	
	0	-		1	07-Jun-21 A	◆ DDA - 4th Sub	

Page 1 of 24 Data Date: 03-Sep-21

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Summary

Actual Milestone
 Actual Work

Baseline Bar

Activity

Baseline Milestor

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

BOUYGUES

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	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
/	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		M				lune			lubr		1	2021	4		Com	t one h o r			Ostabar		le comb e r
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DDA - 5th Review by SO	0			11-Sep-21	25-Oct-21					· · · · · · · · · · · · · · · · · · ·	 								****		4				DDA - 5th Revie	w by SO
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DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	24-Oct-21	27-Nov-21	 																				
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Page 2 of 24 Milestone	V	Summary																				Date	e	Revision	Checked	Approved
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2021
						May June June 02 09 16 23 30 06 13 20 27 04	July 4 11 18 25	August 01 08 15 22 29
DDA WVB - ELS Design (DC RA + Dewatering & Pumping T	0	08-Feb-21	08-Feb-21	02-Apr-21 A	27-Jul-21 A			
DDA - 4th Review by SO	0			02-Apr-21 A	04-May-21 A	DDA - 4th Review by SO		
DDA - Further information required by SO	0			05-May-21 A	11-May-21 A	DDA - Further information required by \$O		
DDA - 5th Sub	0				11-May-21 A	◆ DDA - 5th Sub		
DDA - 5th Review by SO	0			12-May-21 A	16-Jun-21 A	DDA - 5th Review b	y SO	
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DDA - 6th Review by SO	0			21-Jul-21 A	27-Jul-21 A			DA - 6th Review by SO
DDA WVB - Accommodation (SoA)	79	30-Dec-20	09-Apr-21	29-Oct-20 A	16-Sep-21	nodation (SoA)		
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 A		DDA - Further info	ormation required by SO
DDA - 3rd Sub	0				12-Jul-21 A		DDA - 3rd Sub	
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	29-Oct-20 A	09-Sep-21			
DDA - SO Consent for Construction	0		09-Apr-21		16-Sep-21			
DDA - 3rd Review by SO	0			13-Jul-21 A	16-Sep-21			
DDA WVB - Permanent Structure	78	11 - Mar-21	17-Jun-21	03-Feb-21 A	17-Jul-21 A	DDA WVB - Perma	anent Structure	
DDA - Further information required by SO	30	08-Apr-21	13-May-21	20-Mar-21 A	13-May-21 A	DDA - Further information required by SO		
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DDA - Review by IP / DC	28	11-Mar-21	07-Apr-21	03-Feb-21 A	13-May-21 A	DDA - Reviewby IP / DC		
DDA - SO Consent for Construction	0		17-Jun-21		17-Jul-21 A		DDA-SOC	onsent for Construction
DDA - 2nd Review by SO	35	14-May-21	17-Jun-21	14-May-21 A	17-Jul-21 A		DDA - 2nd F	eview by SO
DDA WVB - ABWF	151	11 - Mar-21	11-Sep-21	14-May-21 A	24-Dec-21			
DDA - Draft - Preparation by Designer	45	11-Mar-21	07-May-21	14-May-21 A	14-Aug-21 A			DDA - Draft - Prepara
DDA - Draft - Final Review and prepare for 1st Sub	24	08-May-21	05-Jun-21	16-Aug-21 A	17-Sep-21			
DDA - 1st Sub	0		05-Jun-21		17-Sep-21			
DDA - Review by SO	28	06-Jun-21	03-Jul-21	18-Sep-21	15-Oct-21			
DDA - Review by IP / DC	28	06-Jun-21	03-Jul-21	18-Sep-21	15-Oct-21			
DDA - Further information required by SO	30	05-Jul-21	07-Aug-21	16-Oct-21	19-Nov-21			
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DDA - 2nd Review by SO	35	08-Aug-21	11-Sep-21	20 - Nov - 21	24-Dec-21			
DDA WVB - General Building Plan	77	16-Jun-21	14-Sep-21	28-Oct-20 A	16-Sep-21	· · · · · · · · · · · · · · · · · · ·		
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 A		DDA - Further info	rmation required by SO
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DDA - SO Consent for Construction	0		14-Sep-21		16-Sep-21			
DDA - 3rd Review by SO	0			13-Jul-21 A	16-Sep-21			
DDA WVB - Aesthetic Design	199	14-Nov-20	20-Jul-21	18-Feb-21 A	20-Nov-21		DDA WVF	B - Aesthetic Design
DDA - Draft - Preparation by Designer	48	14-Nov-20	12-Jan-21	18-Feb-21 A	03-May-21 A	DDA - Draft - Preparation by Designer		
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	04-May-21 A	13-May-21 A	DDA - Draft - Final Review and prepare for 1st Sub		
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DDA - Review by SO	28	10-Feb-21	09-Mar-21	14-May-21 A	03-Jun-21 A	DDA - Review by SO		
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Page 3 of 24 Data Date: 03-Sep-21 Milestone
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Actual Milestone
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Baseline Bar

for Developments at South Apron Three Months Rolling Programme (Aug-21)

ED/2018/04 Trunk Road T2 and Infrastructure Works

BOUYGUES TRAVAUX PUBLICS

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17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
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AIP - SO Consent for DDA Submission	0		30-Oct-20		10-May-21 A		AIP - SO	Consent	for DDA Sub	mission														
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DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking	0	25-May-21	25-May-21	16-Apr-21 A	,						ent, Traffic Si	an. Road M	Aarking and	d Traffic Lig	nt:									;
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DDA Foot Bridge FB-02	0	09-Mar-21	09-Mar-21	01-Apr-21 A	25-Oct-21																			
DDA - Further information required by SO	0			01-Apr-21 A					ormation req	lifed by \$O														;
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DDA - Further information required by SO	0			21-Jul-21 A	10-Sep-21									-1					DDA - Further in	formation requ	ired by SO			
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[STE] DDA CUE L10 (N) Permanent Works	29	06-Oct-21	09-Nov-21	02-Apr-21 A	08-Oct-21	 																	▼ [STE] DD	A CUE
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Page 4 of 24 Data Date: 03-Sep-21

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

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Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August September October November 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14 21 22
DDA - Further information required by SO	0			15-May-21 A	28-May-21 A	A DDA - Further information required by SO
DDA - 3rd Sub	0				28-May-21 A	A DDA3rd Sub
DDA - 3rd Review by SO	0			28-May-21 A	23-Jun-21 A	DDA - 3rd Review by SO
DDA - Further information required by SO	0			23-Jun-21 A	26-Aug-21 A	A DDA - Further information required by SO
DDA - 4th Sub	0				26-Aug-21 A	A DDA - 4th Sub
DDA - SO Consent for Construction	0		09-Nov-21		08-Oct-21	◆ DDA - SQ Conser
DDA - 4th Review by SO	0			27-Aug-21 A	08-Oct-21	DDA - 4th Review by \$O
[STE] DDA District Cooling System Permanent Works	0	09-Dec-20	09-Dec-20	13-Apr-21 A	21-Sep-21	
DDA - 3rd Review by SO	0			13-Apr-21 A	06-May-21 A	DDA - 3rd Review by SO
DDA - Further information required by SO	0			07-May-21 A	02-Sep-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				02-Sep-21 A	A DDA - 4th Sub
DDA - SO Consent for Construction	0		09-Dec-20		21-Sep-21	DDA - \$Q Consent for Construction
DDA - 4th Review by SO	0			03-Sep-21 A	21-Sep-21	DDA - 4th Review by SO
[STE] AIP Kai Hing Road / Lam Chak Street Modification	24	03-Nov-21	30-Nov-21	03-Nov-21	30-Nov-21	
AIP - Draft - Preparation by Designer	24	03 - Nov-21	30-Nov-21	03-Nov-21*	30-Nov-21	
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	30-Apr-21 A	15-Jun-21 A	
DDA - Further information required by SO	0			30-Apr-21 A	27-May-21 A	DDA - Further information required by SO
DDA - 5th Sub	0				27-May-21 A	A DDA - 5th Sub
DDA - SO Consent for Construction	0		16-Dec-20		15-Jun-21 A	DDA - SQ Consent for Construction
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A	DDA - 5th Review by SQ
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22-Dec-20	22-Dec-20	03-May-21 A	27-Aug-21 A	
DDA - Further information required by SO	0			03-May-21 A	09-Jul-21 A	DDA - Further information required by SO
DDA - 4th Sub	0				09-Jul-21 A	
DDA - 4th Review by SO	0			10-Jul-21 A	26-Jul-21 A	DDA - 4th Review by SO
DDA - Further information required by SO	0			27-Jul-21 A	05-Aug-21 A	DDA - Further information required by SO
DDA - 5th Sub	0				05-Aug-21 A	A DDA - \$th Sub
DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A	◆ D₽A - SO Consent for Construction
DDA - 5th Review by SO	0			06-Aug-21 A	27-Aug-21 A	DDA -5th Review by SO
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	0	03-Dec-20	03-Dec-20	13-Apr-21 A	13-May-21 A	
DDA - SO Consent for Construction	0		03-Dec-20		13-May-21 A	A DDA - SO Consent for Construction
DDA - 4th Review by SO	0			13-Apr-21 A	13-May-21 A	DDA - 4th Review by \$O
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	21-Apr-21 A	15-Jul-21 A	
DDA - Further information required by SO	0			21-Apr-21 A	20-May-21 A	
DDA - 5th Sub	0				20-May-21 A	A DDA - 5th Sub
DDA - SO Consent for Construction	0		03-Dec-20		15-Jul-21 A	DDA - SO Consent for Construction
DDA - 5th Review by SO	0			21-May-21 A	15-Jul-21 A	DDA - 5th Review by \$O
[STE] AIP Road L10 (N)	69	24-Dec-21	21-Mar-22	01-Apr-21 A	15-Oct-21	
AIP - Review by SO	28	24-Dec-21	20-Jan-22	01-Apr-21 A	20-May-21 A	
AIP - Review by IP / DC	28	24-Dec-21	20-Jan-22	01-Apr-21 A	08-Jul-21 A	
AIP - Further information required by SO	0			20-May-21 A	08-Jul-21 A	AIP - Further information required by SO
AIP - 2nd Sub	0				08-Jul-21 A	AIP - 2ŋd Sub
AIP - 2nd Review by SO	0			08-Jul-21 A	21-Jul-21 A	AIP - 2nd Review by SO
AIP - Further information required by SO	24	21-Jan-22	21-Feb-22	22-Jul-21 A	10-Aug-21 A	
AIP - 3rd Sub	0		21-Feb-22		10-Aug-21 A	
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Page 5 of 24 Data Date: 03-Sep-21 Milestone
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Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS



Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Ju l -21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				1						2021			<u> </u>			<u> </u>		1	K 1 1	
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AIP - 3rd Review by SO	28	22-Feb-22	21-Mar-22	11-Aug-21 A	24-Aug-21 A	· · · · · · · · · · · · · · · · · · ·																			
AIP - Further information required by SO	0			25-Aug-21 A	17-Sep-21														AIP - Furth	er informati	ion requir	red by SO			
AIP - 4th Sub	0				17-Sep-21													•	AIP - 4th S	μb					
AIP - SO Consent for DDA Submission	0		21-Mar-22		15-Oct-21																•				
AIP - 4th Review by SO	0			18-Sep-21	15-Oct-21																— A	IP - 4th Rev	iew by SO		
[STE] DDA Road L10 (N) - Permanent Utility Design	72	22-Mar-22	21-Jun-22	12-Jul-21 A	16-Oct-21																				
DDA - Draft - Preparation by Designer	6	22-Mar-22	28-Mar-22	12-Jul-21 A	23-Jul-21 A																				
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	24-Jul-21 A	28-Jul-21 A																				
DDA - 1st Sub	0		04-Apr-22		28-Jul-21 A								•									, , , ,			
DDA - Review by SO	28	05-Apr-22	02 - May-22	29-Jul-21 A	28-Aug-21 A																				
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DDA - SO Consent for Construction	0		21-Jun-22		16-Oct-21																•				
DDA - 2nd Review by SO	35	18 - May-22	21-Jun-22	12-Sep-21	16-Oct-21	·					· · · · · · · · · · · · · · · · · · ·														
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Ma	60	05-Apr-22	21-Jun-22	19-Apr-21 A	15-Oct-21							 	1		· · · · · · · · · · · · · · · · · · ·				 						
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[STE] DDA Road L10 (N) - Roadworks and Street Furniture	60	05-Apr-22	21-Jun-22	19-Apr-21 A	29-Sep-21						+														
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Page 6 of 24 Data Date: 03-Sep-21		Summary		2010/0	\/ Т		- ام مر	то -	ا امم	ofra et.		~ \^/	orles						18-Dec-)V1	WY			
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Baseline Milestone				— ·		_		_		·	<pre>/ •</pre>	•							17-Jul-2 09-Oct-2		1V2 1V3		a/LLo a/LLo	WYu WYu	
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SUPPORTING UNDERGROUND STRUCTURE [SUS]	205	03-Oct-20	15-Jun-21	03-May-21 A	23-Dec-21		·····			V SUPPOR		RGROUNE	STRUCTUR	e [SUS]								
AIP SUS - Internal Structure	145	03-Oct-20	29-Mar-21	03-May-21 A	15-Oct-21																	
AIP - Draft - Preparation by Designer	72	03-Oct-20	29-Dec-20	03-May-21 A	12-Jun-21 A					AIP - Draft -	Preparation	by Designe	r									
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AIP - SO Consent for DDA Submission	0		29-Mar-21		15-Oct-21														♦ AIP	- SO Conse	nt for DDA Sub	mission
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DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	15-Oct-21	25-Nov-21		······															DD
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C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	133	17 - Nov-20	03-May-21	30-Nov-20 A	15-Oct-21	- ▼ C8	CTUNNEL / I	LAUNCHIN	G SHAFT [C	&C / L\$]												
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	0	22-Dec-20	22-Dec-20	24-Apr-21 A	14-Sep-21																	
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DDA - LS Tympanum Structure for TBM Launching	61	16-Feb-21	03-May-21	29-Jan-21 A	16-Jun-21 A		DA - LS Tympa	num Struc	ure for TBM	Launching	+											
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DDA - C&C/LS Temporary Structure (SG Scheme)	111	17-Nov-20	01-Apr-21	30-Nov-20 A	04-Oct-21	i ucture	(SG Scheme)				·										· · · · · · · · · · · · · · · · · · ·	
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Page 7 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

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

BOUYGUES

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Date	Revision	Checked	Approved
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22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2021								
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DDA - LS Thrust Frame / Blocks for TBM La unching	87	22-Nov-20	10-Mar-21	20-Feb-21 A	15-Oct-21		•																
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DDA - Special Segment for CP construction	81	13-Dec-20	28-Aug-21 24-Mar-21	20-Mar-21 A	30-Aug-21 A	uction																	
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Page 8 of 24 Data Date: 03-Sep-21	~	Summary	ED/2		4 Trur or Dev Mont	velo	pmen	ts at S	South	n Apro	on		rks		BO	UYGI Aux Pl	UES		Date 18-Dec-19 22-Feb-20 09-Apr-20 17-Jul-20 09-Oct-20 02-Jul-21	00V1 01V0	0 1 2 3	Checked WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo SPa/LLo	Approved WYu WYu WYu WYu WYu WYu
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FER - Fire Engineering Report (SG Scheme)	112	28-Jan-21	18-Jun-21	30-Mar-21 A	01-Nov-21					▼ FER	- Fire Er	gineering	Report (SG	Scheme)											
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DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (120	28-Jan-21	28-Jun-21	27-Jan-21 A	01-Nov-21							0A - Sub-se	a Tunnel - li	nternal Stru	ctuire (SG 8	& Parapet)	(SG Schem	ne)							
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Page 9 of 24 Data Date: 03-Sep-21 led Bar al Activity

Actual Work

Baseline Milestone
 Baseline Bar

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

BOUYGUES

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Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

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DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp	87	03-Oct-20	16-Jan-21	04-Sep-21	21-Dec-21														 		
DDA - Draft - Preparation by Designer	42	03-Oct-20	21-Nov-20	04-Sep-21	26-Oct-21																Preparation by Desig
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DDA - Cross Passage - Traditional - Lining Structure	36	21-Dec-20	03-Feb-21	24-Nov-21	07-Jan-22																
DDA - Draft - Preparation by Designer	36	21-Dec-20	03-Feb-21	24-Nov-21	07-Jan-22	 	+														
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	144	09-Oct-20	08-Apr-21	29-Mar-21 A	26-Aug-21 A	βR] / D	RILL & BLAS	T TUNNE	[D&B[_]												
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DDA - EVB - Aesthetic Design	148	03-Oct-20	02-Apr-21	28-Jun-21 A	17-Dec-21	g n	· · · · · · · · · · · · · · · · · · ·														
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AIP Foot Bridge FT-03 [NEW]	60	09-Oct-21	18-Dec-21	09-Oct-21	18-Dec-21																								
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DDA Foot Bridge FT-03 [NEW]	42	22-Nov-21	12-Jan-22	22-Nov-21	12-Jan-22														+										V
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DDA - E&M Tunnel Ventilation Design (SG Scheme)	163	29-Oct-20	20-May-21	30-Mar-21 A	21-Oct-21)A - E&N	/ Tunnel	Ventilatio	n Desian	(SG Sch	neme)													• 		
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Page 11 of 24 Data Date: 03-Sep-21 Milestone
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 Critical Activity

Actual Work

Baseline Bar

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

BOUYGUES

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	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
1	17-Jul-20	01V2	SPa/LLo	WYu
/	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
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DDA - Review by IP / DC	28	24-Jan-21	20-Feb-21	23-May-21 A	09-Sep-21	
DDA - Further information required by SO	42	22-Feb-21	15-Apr-21	08-Jun-21 A	16-Sep-21	
DDA - 2nd Sub	0		15-Apr-21		16-Sep-21	
DDA - 2nd Review by SO	35	16-Apr-21	20-May-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		20-May-21		21-Oct-21	↓ ◆
DDA - E&M Air Purification System (WVB)	91	10-Jan-21	05-May-21	15-Mar-21 A	21-Oct-21	
DDA - Review by SO	28	10-Jan-21	06-Feb-21	15-Mar-21 A	11-May-21 A	A DDA - Review by SO
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	09-Sep-21	
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	16-Sep-21	
DDA - 2nd Sub	0		31-Mar-21		16-Sep-21	
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		05-May-21		21-Oct-21	
DDA - E&M Fire Services Installation	133	28-Dec-20	11-Jun-21	30-Mar-21 A	02 - Nov-21	<u> </u>
DDA - Draft - Preparation by Designer	30	28-Dec-20	01-Feb-21	30-Mar-21 A	31-May-21 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	18	02-Feb-21	25-Feb-21	01-Jun-21 A	09-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
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DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	17-Aug-21 A	A DDA-Review
DDA - Review by SO	28	26-Feb-21	25-Mar-21	09-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	26-Mar-21	07 - May-21	18-Aug-21 A	28-Sep-21	
DDA - 2nd Sub	0		07 - May-21		28-Sep-21	1
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	29-Sep-21	02-Nov-21	
DDA - SO Consent for Construction	0		11-Jun-21		02-Nov-21	1
DDA - E&M MVAC	133	17-Dec-20	03-Jun-21	09-Apr-21 A	21-Oct-21	DDA - E&M MVAC
DDA - Draft - Preparation by Designer	32	17-Dec-20	26-Jan-21	09-Apr-21 A	22-May-21 A	A DDA + D raft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		18-Feb-21		02-Jun-21 A	
DDA - Review by SO	28	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A	A DÞA - Review by SO
DDA - Review by IP / DC	28	19-Feb-21	18-Mar-21	02-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	19 - Mar-21	29-Apr-21	30-Jun-21 A	16-Sep-21	
DDA - 2nd Sub	0		29-Apr-21		16-Sep-21	
DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	17-Sep-21	21-Oct-21	
DDA - SO Consent for Construction	0		03-Jun-21		21-Oct-21	
DDA - E&M Plumbing & Drainage System	122	22-Dec-20	26-May-21	19-Feb-21 A	19-Oct-21	DDA - E&M Plumbing & Drainage \$ystem
DDA - Draft - Preparation by Designer	24	22-Dec-20	21-Jan-21	19-Feb-21 A	03-Jun-21 A	A DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	17	22-Jan-21	10-Feb-21	03-Jun-21 A	25-Jun-21 A	A DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		10-Feb-21		25-Jun-21 A	A DDA 1st Sub
DDA - Review by SO	28	11-Feb-21	10-Mar-21	25-Jun-21 A	05-Jul-21 A	
DDA - Review by IP / DC	28	11-Feb-21	10-Mar-21	25-Jun-21 A	09-Sep-21	
DDA - Further information required by SO	32	11 - Mar-21	21-Apr-21	06-Jul-21 A	14-Sep-21	
DDA - 2nd Sub	0		21-Apr-21		14-Sep-21	
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	15-Sep-21	19-Oct-21	
DDA - SO Consent for Construction	0		26-May-21		19-Oct-21	
AIP - E&M Electrical Installation	62	17-Oct-20	02-Jan-21	15-Jan-21 A	23-Jun-21 A	
AIP - Update & prepare for 2nd Sub	18	14 - Nov-20	04-Dec-20	08-Feb-21 A	21-May-21 A	A AIP - Update & prepare for 2nd Sub
		1		1	1	

Page 12 of 24 Data Date: 03-Sep-21

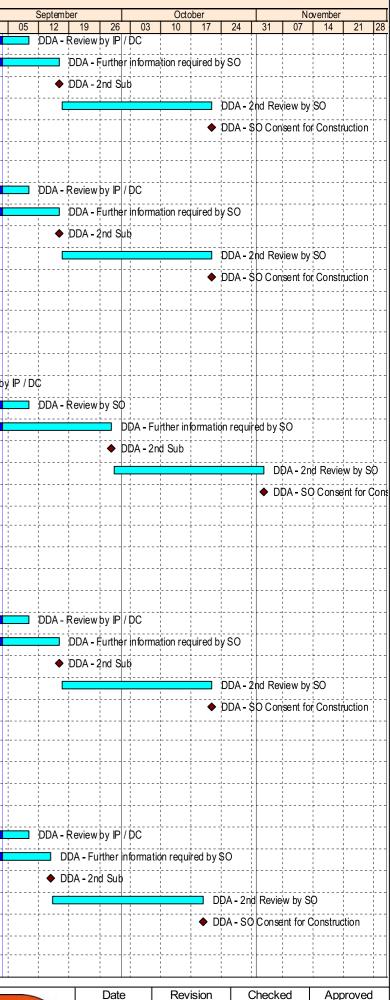
ilestone Value Ianned Bar rítical A divity

Actual Work Actual Work Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLIC



	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
s	17-Ju l -20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Ju l- 21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	
						May June July August September October November 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 05 12 19 26 03 10 17 24 31 07 14	21 28
AIP - 2nd Sub	0		04-Dec-20		21-May-21 A		
AIP - Review by IP / DC	28	17-Oct-20	13 - Nov-20	15-Jan-21 A	21-May-21 A	A AIP - Review by IP / DC	
AIP - 2nd Review by SO	28	05-Dec-20	01-Jan-21	21-May-21 A	23-Jun-21 A	AIP - 2nd Review by SO	
AIP - SO Consent for DDA Submission	0		02-Jan-21		23-Jun-21 A	▲ AIP - SQ Consent for DDA Submission	
DDA - E&M Electrical Installation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	13-Nov-21	▼ DDA - E&M Electrical Installation	
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Jul-21 A	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Jul-21 A	15-Jul-21 A	DDA - Draft - Final Review and prepare for 1st \$ub	
DDA - 1st Sub	0		24-Feb-21		15-Jul-21 A	◆ DDA - 1st Sub	
DDA - Review by SO	28	25-Feb-21	24-Mar-21	16-Jul-21 A	24-Aug-21 A	A DDA - Review by SO	
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	09-Sep-21	DDA - Review by IP / DC	
DDA - Further information required by SO	33	25-Mar-21	07-May-21	25-Aug-21 A	09-Oct-21	DDA - Further information required by SO	1 1 1
DDA - 2nd Sub	0		07 - May-21		09-Oct-21	◆ DDA - 2nd Sub	
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	10-Oct-21	13-Nov-21		- 2nd Revit
DDA - SO Consent for Construction	0		11-Jun-21		13-Nov-21	◆ DDA	SOCons
AIP CLP Submission - Power Supply to EVB & WVB	71	01 - Nov - 20	26-Jan-21		23-Jun-21 A		
AIP - Update & prepare for 2nd Sub	24	30 - Nov-20	29-Dec-20	09-Feb-21 A	21-May-21 A	A AIP - Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		29-Dec-20		21-May-21 A	A AIP - 2nd Sub	
AIP - Review by IP / DC	28	01 - Nov-20	28-Nov-20	15-Jan-21 A	21-May-21 A		
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	22-May-21 A	23-Jun-21 A	AIP - 2nd Review by SQ	
AIP - SO Consent for DDA Submission	0		26-Jan-21		23-Jun-21 A		
DDA CLP Submission - Power Supply to EVB & WVB	158	27-Jan-21	11-Aug-21	24-Jun-21 A	13-Nov-21	▼ DDA CLP Submission - Power Supply to EVB & WVB	
DDA - Draft - Preparation by Designer	48	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Jul-21 A		
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Jul-21 A		
DDA - 1st Sub	0		28-Apr-21		15-Jul-21 A		
DDA - Review by SO	28	29-Apr-21	26-May-21	16-Jul-21 A	24-Aug-21 A		
DDA - Review by IP / DC	28	29-Apr-21	26-May-21	16-Jul-21 A	09-Sep-21	DDA - Review by IP / DC	
DDA - Further information required by SO	34	27-May-21	07-Jul-21	25-Aug-21 A	09-Oct-21	DDA - Further information required by SO	
DDA - 2nd Sub	0		07-Jul-21		09-Oct-21	◆ DDA-2nd Sub	
DDA - 2nd Review by SO	35	08-Jul-21	11-Aug-21	10-Oct-21	13-Nov-21		2nd Revit
DDA - SO Consent for Construction	0		11-Aug-21		13-Nov-21	◆ DDA	- SO Cons
AIP - E&M Tunnel Lighting Design	91	03-Dec-20	25-Mar-21	23-Dec-20 A	09-Jun-21 A		
AIP - Update & prepare for 2nd Sub	45	31-Dec-20	25-Feb-21	13-Jan-21 A		A 🗖 AIP - Update & prepare for 2nd Sub	
AIP - 2nd Sub	0		25-Feb-21		,	A AIP - 2nd Şub	
AIP - Review by IP / DC	28	03-Dec-20	30-Dec-20	23-Dec-20 A		A AIP - Revièw by IP / DC	
AIP - 2nd Review by SO	28	26-Feb-21	25-Mar-21	03-May-21 A			
AIP - SO Consent for DDA Submission	0		25-Mar-21		09-Jun-21 A		
DDA - E&M Tunnel Lighting Design	101	26-Mar-21	30-Jul-21	10-Jun-21 A	14-Dec-21	▼ DDA - E&M Tunnel Lighting Design	
DDA - Draft - Preparation by Designer	22	26-Mar-21	24-Apr-21	10-Jun-21 A	10-Sep-21	DDA - Draft - Preparation by Designer	
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	11-Sep-21	25-Sep-21	DDA - Draft - Final Review and prepare for 1st Sub	
DDA - 1st Sub	0		10-May-21	00.0.5	25-Sep-21		
DDA - Review by SO	28	11-May-21	07-Jun-21	26-Sep-21	23-Oct-21		· · · · · · · · · · · · · · · · · · ·
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	26-Sep-21	23-Oct-21		
DDA - Further information required by SO	44	08-Jun-21	30-Jul-21	25-Oct-21	14-Dec-21		
AIP - E&M CMCS	78	17-Feb-21	25-May-21	26-Apr-21 A	22-Jul-21 A		
			1				

Page 13 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

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CriticalActivity

Baseline MilestoneBaseline Bar

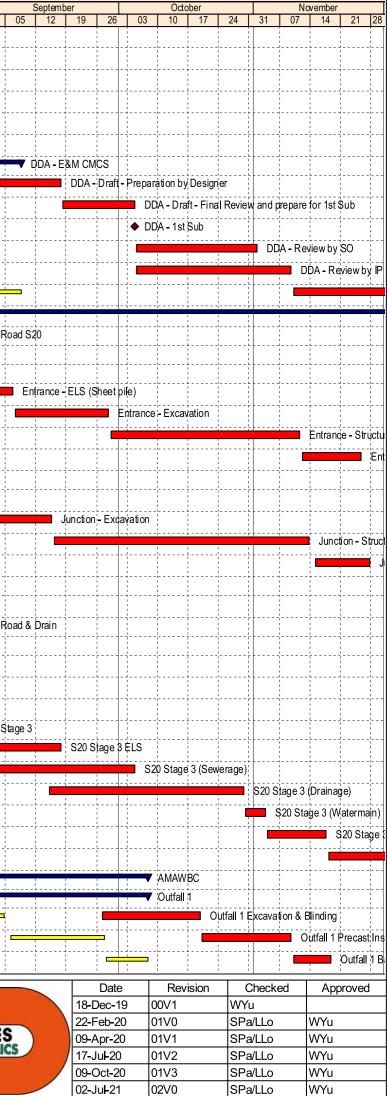
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

Date Revision Checked Approved 18-Dec-19 00V1 WYu 22-Feb-20 SPa/LLo WYu 01V0 WYu 09-Apr-20 01V1 SPa/LLo 17-Ju**l-**20 WYu 01V2 SPa/LLo WYu 09-Oct-20 01V3 SPa/LLo 02-Jul-21 02V0 SPa/LLo WYu

Activity Name		Dur	02V0 Start	02V0 Finish	Start	Finish	2021 May June July August
							02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29 0
AIP - Review by SO		28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-May-21 A	AlP - Review by SO
AIP - Update & prepare for 2nd Sub		32	17-Mar-21	27-Apr-21	26-Apr-21 A	28-Jun-21 A	AIP - Update & prepare for 2nd Sub
AIP - 2nd Sub		0		27-Apr-21		28-Jun-21 A	AIP - 2nd Sub
AIP - Review by IP / DC		28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-Jun-21 A	AIP - Review by IP / DC
AIP - 2nd Review by SO		28	28-Apr-21	25-May-21	28-Jun-21 A	22-Jul-21 A	AIP - 2nd Revièw by SO
AIP - SO Consent for DDA Submission		0		25-May-21		22-Jul-21 A	♦ AIP - SO Consent for DDA Submission
DDA-E&MCMCS		89	26-May-21	08-Sep-21	23-Jul-21 A	07-Dec-21	
DDA - Draft - Preparation by Designer		22	26-May-21	21-Jun-21	23-Jul-21 A	17-Sep-21	
DDA - Draft - Final Review and prepare	for 1st Sub	12	22-Jun-21	06-Jul-21	18-Sep-21	04-Oct-21	
DDA - 1st Sub		0		06-Jul-21		04-Oct-21	♦
DDA - Review by SO		28	07-Jul-21	03-Aug-21	05-Oct-21	01-Nov-21	
DDA - Review by IP / DC		36	07-Jul-21	11-Aug-21	05-Oct-21	09 - Nov-21	
DDA - Further information required by S	60	24	12-Aug-21	08-Sep-21	10-Nov-21	07-Dec-21	
SOUTH APRON EXTERNAL	WORKS	380	22-Dec-20	06-Apr-22	23-Dec-20 A	19-Feb-22	
Road S20		195	05-Jan-21	01-Sep-21	27-Jan-21 A	13-Dec-21	Roz
CUE		168	05-Jan-21	31 Jul-21	27-Jan-21 A	27 - Nov-21	CUE
Entrance		84	21-Apr-21	31-Jul-21	24-Jun-21 A	25-Nov-21	Entrance
Entrance - ELS (Sheet pile)		18	21-Apr-21	12-May-21	24-Jun-21 A	06-Sep-21	
Entrance - Excavation		18	13-May-21	03-Jun-21	07-Sep-21	28-Sep-21	
Entrance - Structure		36	04-Jun-21	17-Jul-21	29-Sep-21	11-Nov-21	
Entrance- Backfill		12	19-Jul-21	31-Jul-21	12-Nov-21	25-Nov-21	
Junction		108	19-Mar-21	31-Jul-21	27-Feb-21 A	27-Nov-21	v v v v v v v v v v v v v v v v v v v
Junction - ELS (Sheet pile)		24	19-Mar-21	20-Apr-21	27-Feb-21 A	21-Jul-21 A	Junction - ELS (Sheet pile)
Junction - Excavation		24	21-Apr-21	20-May-21	26-Jul-21 A	15-Sep-21	
Junction - Structure		48	21-May-21	17-Jul-21	16-Sep-21	13-Nov-21	
Junction - Backfill		12	19-Jul-21	31-Jul-21	15-Nov-21	27-Nov-21	
Typical		75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A	
Typical Section - Structure		75	05-Jan-21	09-Apr-21	27-Jan-21 A	09-Jun-21 A	Typical Section - Structure
Road & Drain		160	18-Feb-21	01-Sep-21	24-May-21 A	13-Dec-21	Roa
Stage 2		49	18-Feb-21	20-Apr-21	24-May-21 A	07-Aug-21 A	
S20 Stage 2 (Watermain)		5	18-Feb-21	23-Feb-21	24-May-21 A	17-Jul-21 A	S20 Stage 2 (Watermain)
S20 Stage 2 (U channel, Catchpit, Gul	lly)	22	24-Feb-21	20-Mar-21	19-Jul-21 A	24-Jul-21 A	S20 Ştage 2 (U chaḥnel, Cạtchpit, Gully)
S20 Stage 2 (Roadworks)		22	22-Mar-21	20-Apr-21	26-Jul-21 A	07-Aug-21 A	S20 Stage 2 (Roadworks)
Stage 3		111	21-Apr-21	01-Sep-21	09-Aug-21 A	13-Dec-21	stag
S20 Stage 3 ELS		35	21-Apr-21	02-Jun-21	09-Aug-21 A	17-Sep-21	
S20 Stage 3 (Sewerage)		32	15-May-21	23-Jun-21	23-Aug-21 A	04-Oct-21	
S20 Stage 3 (Drainage)		36	05-Jun-21	19-Jul-21	15-Sep-21	29-Oct-21	
S20 Stage 3 (Watermain)		4	20-Jul-21	23-Jul-21	30-Oct-21	03-Nov-21	
S20 Stage 3 (UU Diversion)		12	24-Jul-21	06-Aug-21	04-Nov-21	17 - Nov-21	
S20 Stage 3 (U channel, Catchpit, Gul	llv)	22	07-Aug-21	01-Sep-21	18-Nov-21	13-Dec-21	
AMAWBC	.,,,	44	16-Aug-21	07-Oct-21	27-Sep-21	18-Nov-21	
Outfall 1		44	16-Aug-21	07-Oct-21	27-Sep-21	18-Nov-21	
Outfall 1 Excavation & Blinding		18	16-Aug-21	04-Sep-21	27-Sep-21	19-Oct-21	
Outfall 1 Precast Installation & Alignme	nt	18	06-Sep-21	27-Sep-21	20-Oct-21	09-Nov-21	
Outfall 1 Backfilling & reinstatement		8	28-Sep-21	07-Oct-21	10-Nov-21	18-Nov-21	
Page 14 of 24	♦ ♦ Milestone		Summary				
Data Date: 03-Sep-21	Planned Bar Critical A divity			ED/2	2018/0	4 Trur	nk Road T2 and Infrastructure Works
	Actual Milestone				f	or Dev	elopments at South Apron
	Actual Work Actual Work Baseline Milestone				•		TRAVAUX PUBLICS
	Baseline Bar				Three	Mont	hs Rolling Programme (Aug-21)



Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish											2	021									
						02	May 09	y 16 23	30		lune 13 20	27	04 11	uly 18	25		ugust 15	22 2	29 05	September		26 03	October	24	N	ovember 14 21 28
[STE] District Cooling System for AMAWBC Section 6B	204	22-Dec-20	01-Sep-21	22-Mar-21 A	07-Dec-21																		WBC Section			
Section 1 - Bay 1	41	20-Feb-21	13-Apr-21	22-Mar-21 A	25-Sep-21	1																				
DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)	12	20-Feb-21	05-Mar-21	22-Mar-21 A	09-Aug-21 A											DC	S - Bay 1	Pipe Ins	tallation -	Set up (D	N1200 30	m)				
DCS - Bay 1 Pipe Installation - Pipe welding	11	06-Mar-21	18-Mar-21	26-Jul-21 A	18-Aug-21 A												DC	CS - Bay	1 Pipe Ins	tallation -	Pipe wel	ding				
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	19-Aug-21 A	17-Sep-21													-			DCS - Ba	y 1 Pipe Ins	tallation - Jo	inting (12	nps)	
DCS - Bay 1 Backfill	6	07-Apr-21	13-Apr-21	18-Sep-21	25-Sep-21															•		DCS - Bay 1	Backfill			
Section 1 - Bay 2	78	13-May-21	14-Aug-21	19-Apr-21 A	30-Aug-21 A		V		·····								Section	1 - Bay	2							
DCS - Bay 2 Excavation (1510m3)	26	13 - May-21	12-Jun-21	19-Apr-21 A	19-May-21 A						DCS - Bay 2					+							+			
DCS - Bay 2 Pipe Installation - Set up (DN900 60m)	14	15-Jun-21	30-Jun-21	19-May-21 A	17-Jul-21 A									DCS	- Bay 2 P	ipe Installatio	n - Set u	p (DN900	060m)							
DCS - Bay 2 Pipe Installation - Pipe welding	13	02-Jul-21	16-Jul-21	19-Jul-21 A	24-Jul-21 A	· · · · · · · · · · · · · · · · · · ·								-	DCS-I	Bay 2 Pipe In	stallation	- Pipe w	eldiņg				L 		L	
DCS - Bay 2 Pipe Installation - Jointing (27nos)	18	17-Ju -21	06-Aug-21	19-Jul-21 A	31-Jul-21 A									-		DCS -	Bay 2 Pip	pe Install	ation - Joir	nting (27 n	os)					
DCS - Bay 2 Backfill	7	07-Aug-21	14-Aug-21	10-Aug-21 A	30-Aug-21 A													·····	DCS - Ba	y 2 Backi	1				<u>-</u>	
Section 1 - Bay 3	93	13-May-21	01-Sep-21	26-Jul-21 A	02-Dec-21		V				+					+			Section	1 - Bay	}				+	
DCS - Bay 3 Sheet pile (1870m2)	34	13-May-21	23-Jun-21	26-Jul-21 A	21-Sep-21											+						-	et pile (1870)m2)	 	
DCS - Bay 3 Excavation (2620m3)	18	24-Jun-21	15-Jul-21	23-Sep-21	15-Oct-21			·										·····			_		DCS	S-Bay3l	xcavation (26	520m3)
DCS - Bay 3 Pipe Installation - Set up (DN900 30m)	12	16-Jul-21	29-Jul-21	16-Oct-21	29-Oct-21																		·····		DCS - Bay 3	Pipe Installation - {
DCS - Bay 3 Pipe Installation - Pipe welding	9	30-Ju -21	09-Aug-21	30-Oct-21	09-Nov-21																			l		CS - Bay 3 Pipe In
DCS - Bay 3 Pipe Installation - Jointing (15nos)	10	10-Aug-21	20-Aug-21	10 - Nov-21	20-Nov-21																					DCS-B
DCS - Bay 3 Backfill	10	21-Aug-21	01-Sep-21	22 - Nov-21	02-Dec-21												i		• • • • • • • • • • • • • • • • • • • •						 	
Section 2 - Bay 4	44	04-May-21	25-Jun-21	20-Apr-21 A	07-Dec-21	▼			·		 V	Section	2 - Bay 4													
DCS - Bay 4 Sheet pile (990m2)	18	04-May-21	25-May-21	20-Apr-21 A	05-Jun-21 A	;; ;	;				3ay4 Sheet p	. 1	m2)													
DCS - Bay 4 Excavation (1170m3)	12	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A										DCS-I	Bay4 Excava	ition (117	70m3)							L	
DCS - Bay 4 Pipe Installation - Set up (DN600 66m)	14	09-Jun-21	25-Jun-21	22-Nov-21	07-Dec-21																					
Section 2 - Bay 5	103	22-Dec-20	03-May-21	10-Apr-21 A	20-Nov-21		tion 2 - B	Bay 5																	L	
DCS - Bay 5 Sheet pile (1510m2)	30	22-Dec-20	28-Jan-21	10-Apr-21 A	31-Jul-21 A											DCS - Bay 5	Sheet pi	le (1510n	n2)							
DCS - Bay 5 Excavation (1516m3)	18	29-Jan-21	22-Feb-21	16-Aug-21 A	14-Sep-21											+				DC	S - Bay 5	Excavation	(1516m3)			
DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	14	23-Feb-21	10-Mar-21	15-Sep-21	02-Oct-21													· · · · · · · · · · · · · · · · · · ·				DCS	- Bay 5 Pipe	Installatio	on - Set up (Di	N600 66m)
DCS - Bay 5 Pipe Installation - Pipe welding	14	11-Mar-21	26-Mar-21	04-Oct-21	20-Oct-21																			DCS - B	ay 5 Pipe Inst	allation – Pipe weldi
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	21-Oct-21	06-Nov-21	· · · · · · · · · · · · · · · · · · ·																	l		DCS	Bay 5 Pipe Insta
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	08-Nov-21	20-Nov-21																					DCS-B
Section 2 - S20	58	21-Apr-21	30-Jun-21	09-Aug-21 A	04-Oct-21							🔫 Se	ction 2 - S	20		+							+			
DCS - S20 section site clearance	28	21-Apr-21	25-May-21	09-Aug-21 A	18-Aug-21 A														section site		ce					
DCS - S20 Sheet pile (912m2)	18	26-May-21	16-Jun-21	19-Aug-21 A	17-Sep-21			_			-						_				DCS - S2	0 Sheet pile	(912m2)			
DCS - S20 Excavation (1026m3)	12	17-Jun-21	30-Jun-21	18-Sep-21	04-Oct-21																	DC	S - S20 Exc	avation (1	026m3)	
[STE] District Cooling System - Remaining Section 7B	16	19-Apr-21	07 - May-21	18-May-21 A	08-Sep-21				ing System	ı - Remai	ining Section	7B														
DCS Section 4	16	19-Apr-21	07-May-21	18-May-21 A	08-Sep-21	V	DCS Sec	ction 4										·····								
DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)	6	19-Apr-21	24-Apr-21	-	19-Jun-21 A	ļļ					DCS-		be Installat			up (DN 800 1	l2m)									
DCS - DPR Pipe Installation - Pipe welding (6nos)	6	26-Apr-21	03-May-21		30-Aug-21 A											+						- Pipe weld				· · · · · · · · · · · · · · · · · · ·
DCS - DPR Pipe Installation - Jointing (6nos)	4	04-May-21	07 - May-21	31-Aug-21 A	08-Sep-21									<u> </u>						DCS - DI	י⊀ Pipė Ir		ointing (6no			
Foot Bridge FB-02	127	03-May-21	02-Oct-21	26-Mar-21 A	10-Dec-21	V																	Bridge FB-0			
DSD KBSIS - Interface Existing Footbridge Disable Ramp - Demolition	117 24	11-May-21 11-May-21	28-Sep-21	12-May-21 A 12-May-21 A	10-Dec-21 08-Jun-21 A					- Evic	ting Footbrid	ne Disab	e Ramo	Demolition									SIS - Interfac	e 		
FB-02 H-pile - P1/P2/P3	24 51	24-Jun-21	08-Jun-21 23-Aug-21	04-Sep-21	05-Nov-21			·												- <u> </u>						2 H-pile - P1/P2/P3
			-	· ·										·i												
FB-02 H-pile - LC&D	30	24-Aug-21	28-Sep-21	06-Nov-21	10-Dec-21																	Poor	L10/DPR			
Road L10/ DPR	127	03-May-21	02-Oct-21	26-Mar-21 A	27 - Nov-21	•																				
Page 15 of 24		Summary																				ate	Revision		Checked	Approved
Data Date: 03-Sep-21			ED/2	2018/0	4 Trur	ık R	Road	1 T2	and	l Inf	rastru	JCtu	ire V	Vork	S						18-De		0V1 1V0	WY SP:		WYu
Actual Miestone				f	or Dev	elo	nme	ente	at S	Sout	h An	ron				C	BOU	YGU	JES		09-Ap		1V1			WYu
Actual Work						510	r	5110									RAVA	UX PU	BLICS		17-Jul		1V2			WYu
Baseline Bar				Three	Mont	าร F	Rolli	ina F	Pula	ram	nme (Αιιά	1-21°)							09-Oc		1V3			WYu
									9				י - כ	/							02-Jul	-21 [0	2V0	<u> </u> 5Pa	a/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29
FB-02 H-pile (1 rig) - P4/P5/D	72	03-May-21	28-Jul-21	26-Mar-21 A	21-Sep-21	
FB-02 H-pile (1 rig) - LA&B	55	29-Jul-21	02-Oct-21	23-Sep-21	27 - Nov-21	
FB-02 - Road L10 - H-pile Installation	48	06-Aug-21	02-Oct-21	02-Oct-21	27-Nov-21	
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	197	17-Feb-21	16-Oct-21	10-Mar-21 A	04-Dec-21	
EMSD Temporary Replacement of Traffic Signal	71	11-Mar-21	08-Jun-21	10-Mar-21 A	08-Jun-21 A	■ V EMSD Temporary Replacement of Traffic Signal
EMSD Site Inspection	40	11-Mar-21	30-Apr-21	10-Mar-21 A	10-May-21 A	EMSD Site Inspection
EMSD preparation for Stage 1 change over	13	03-May-21	17-May-21	10-May-21 A	20-May-21 A	EMSD preparation for Stage 1 change over
Stage 1 change over to oil drum traffic signal	0		17-May-21		20-May-21 A	♦ Stage 1; change over to oil drum traffic signal
EMSD preparation for Stage 2 change over	18	18-May-21	08-Jun-21	20-May-21 A	08-Jun-21 A	EMSD preparation for Stage 2 change over
Stage 2 change over to oil drum traffic signal	0		08-Jun-21		08-Jun-21 A	Stage 2 change over to bil drum traffic signal
Stage 1 (KT Fire Station Footpath/ CYS northbound)	111	03-May-21	11-Sep-21	03-May-21 A	29-Oct-21	
Stage 1A (KT Fire Station Footpath)	66	03-May-21	21-Jul-21	03-May-21 A	21-Aug-21 A	▼ Stage 1A (KT Fire Station Footpath)
Towngas UU diversion	18	03-May-21	24-May-21	03-May-21 A	03-Jun-21 A	Towngas UU diversion
WSD diveresion	6	25-May-21	31-May-21	12-Jun-21 A	17-Jun-21 A	WSD diveręsión
Telecom UU diversion Stage 2	12	01-Jun-21	15-Jun-21	19-Jun-21 A	21-Jul-21 A	Telecom UU diversion Stage 2
Installation of gully and gully pipe	12	08-Jun-21	22-Jun-21	24-Jun-21 A	09-Aug-21 A	Installation of gully and gully
Installation of ducting for PL, ATC and E&M	6	01-Jun-21	07-Jun-21	05-Aug-21 A	11-Aug-21 A	
Reinstatement of footpath & carriageway	24	23-Jun-21	21-Jul-21	07-Jul-21 A	21-Aug-21 A	Reinstatement
Stage 1B (CYS northbound Lane 2)			07-Aug-21			▼ V Stage 1B (CYS northbound La
Installation of ducting for PL, ATC and E&M	15 3	22-Jul-21 22-Jul-21	24-Jul-21	04-Sep-21 04-Sep-21	21-Sep-21 07-Sep-21	
Installation of gully and gully pipe	3	26-Jul-21	28-Jul-21	04-Sep-21 08-Sep-21	10-Sep-21	
	9			· ·		
Reinstatement of carriageway	-	29-Jul-21	07-Aug-21	11-Sep-21	21-Sep-21	
Stage 1C (CYS northbound Lane 3) Installation of ducting for PL, ATC and E&M	15 3	09-Aug-21 09-Aug-21	25-Aug-21 11-Aug-21	23-Sep-21 23-Sep-21	11-Oct-21 25-Sep-21	Stage 1€ (
Installation of gully and gully pipe	3			27-Sep-21	29-Sep-21	
		12-Aug-21	14-Aug-21			
Reinstatement of carriageway	9	16-Aug-21	25-Aug-21	30-Sep-21	11-Oct-21	
Stage 1D (CYS northbound Lane 4) Installation of ducting for PL, ATC and E&M	15 3	26-Aug-21	11-Sep-21	12-Oct-21 12-Oct-21	29-Oct-21 15-Oct-21	
		26-Aug-21	28-Aug-21			<u> </u>
Installation of gully and gully pipe	3	30-Aug-21	01-Sep-21	16-Oct-21	19-Oct-21	
Reinstatement of carriageway	9	02-Sep-21	11-Sep-21	20-Oct-21	29-Oct-21	
Stage 2 (CYS central traffic island)	42	26-Aug-21	16-Oct-21	12-Oct-21	30-Nov-21	
Demolition of existing traffic island	6	26-Aug-21	01-Sep-21	12-Oct-21	19-Oct-21	
Connection gully and gully pipe	6	02-Sep-21	08-Sep-21	20-Oct-21	26-Oct-21	
Connection for PL, ATC and E&M	12	09-Sep-21	23-Sep-21	27-Oct-21	09-Nov-21	
Construction of new traffic island	18	24-Sep-21	16-Oct-21	10 - Nov-21	30 - Nov-21	
Stage 3 (Wang Chiu Road)	173	17-Feb-21	15-Sep-21	07-Apr-21 A	09-Nov-21	
Stage 3A (WCR central traffic island)	114	17-Feb-21	08-Jul-21	07-Apr-21 A	10-Sep-21	▼ Stage 3A (WCR central traffic island)
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	07-Apr-21 A	12-May-21 A	ii_i
Lower down existing manhole	6	27-Feb-21	05-Mar-21	03-Jul-21 A	09-Jul-21 A	Lower down existing manhole
Reinstatement of footpath & carriageway	24	09-Jun-21	08-Jul-21	12-Jul-21 A	10-Sep-21	
Stage 3B (WCR westbound Lane 2)	12	22-Jul-21	04-Aug-21	11-Sep-21	25-Sep-21	Stage 3B (WCR westbound Lane
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	11-Sep-21	14-Sep-21	
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	15-Sep-21	25-Sep-21	
Stage 3C (WCR westbound Lane 1)	12	05-Aug-21	18-Aug-21	27-Sep-21	11-Oct-21	Stage 3℃ (WCR w
Installation of ducting for PL, ATC and E&M	3	05-Aug-21	07-Aug-21	27-Sep-21	29-Sep-21	
Page 16 of 24 Data Date: 03-Sep-21		Summary	ED/2			nk Road T2 and Infrastructure Works velopments at South Apron

🔷 Baseline Milestone

Baseline Bar

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5	Septemb	er			Octo	ber				No	vember		
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Lane 2	5							÷					
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	Installa	tion of a	gully	and gul	lyipipe								
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C (CYS	northbo	und La	ne 3)		-	1				1	1		
			Inst	allation	of ductin	g for PL	, ATC	a	nd E&I	M			
				Install	ation of g	ully and	aully	-¦-	• • • • • •				
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	7 Stage	1D (C)	/Sno	orthbour	nd Lane 4	¦							
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	Reinst	atemen	t of fo	otpath	& carriag	eway		÷.					
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		stallation	n of d	lucting f	or PL, AT	Cand	F&M						
			Rei	nstaten	nent of ca	rriagew	ay						
westbo	bund La	ne 1)			;	; ;		÷					
		'¦		Install	ation of du	¦ uctina fa	hr Pl	Δ'n	Cand	F 8.M			
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6		22-F			01V0		_		/LLo		WYu		
		09-A			01V1		_		/LLo		WYu		
		17-J			01V2		_		/LLo		WYu		
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		02-J	u l- 21		02V0		SF	a	/LLo		WYu		

Activity Name	Dur	r 02V0 Start	02V0 Finish	Start	Finish									2021									
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Reinstatement of carriageway	9	09-Aug-21	18-Aug-21	30-Sep-21	11-Oct-21																ment of carrie		"
Stage 3D (WCR westbound new traffic island)	36	05-Aug-21	15-Sep-21	27-Sep-21	09-Nov-21									V			➡▼ Stag	je 3D (WCR	westbour	nd new traffic	¢ island)		
Demolition of existing pavement	6	05-Aug-21	11-Aug-21	27-Sep-21	04-Oct-21														Demc	lition of exis	sting paveme	ent	יר
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	05-Oct-21	19-Oct-21								1						; —	C/	onnection fo	or PL, ATC and	IE&M
Construction of new traffic island	18	26-Aug-21	15-Sep-21	20-Oct-21	09-Nov-21	-																Const	truction of new
Stage 4 (Hoi Bun Road)	137	7 17-Feb-21	04-Aug-21	13-May-21 A	04-Oct-21					+-				▼ Stage 4 (Hoi									
Stage 4A (HBR Planter)	96	17-Feb-21	16-Jun-21	13-May-21 A	17-Sep-21					▼ Stage 4A ((HBR Planter)											
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	13-May-21 A	24-May-21 A			💻 Dem	dition of exist	ting draft wall and	d planter												יר
Irrigation pipe diversion	3	27-Feb-21	02-Mar-21	25-May-21 A	27-May-21 A			n 🗖	rrigation pipe d	diversion										· · · · · · · · · · · · · · · · · · ·			ч Т
Lower down existing manhole	6	03-Mar-21	09-Mar-21	02-Aug-21 A	10-Aug-21 A								1	Lower	r down existii	ng ma¦nhole				 			ч. Ч.
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	24-Aug-21 A	17-Sep-21			+	1				1				R	einstatemen	t of footpa	ath & carriag	jeway		P
Stage 4B (HBR Fast Lane)	12	22-Jul-21	04-Aug-21	18-Sep-21	04-Oct-21									▼ Stage 4B (H	BR Fast Lar	e)							
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	18-Sep-21	21-Sep-21		 I I I I										-	Installatio	n of ductir	ig for PL, AT	TC and E&M		
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	23-Sep-21	04-Oct-21														Reins	statement of	carriageway	/	
Stage 5 (Gas Station & HBR)	173	3 03-Mar-21	30-Sep-21	28-Apr-21 A	04-Dec-21	i			i				·						Stage 5 (C	Gas Station &	& HBR)		
Stage 5A (Gas Station Footpath)	84	03-Mar-21	16-Jun-21	28-Apr-21 A					<u>+</u>	▼ Stage 5A ((Gas Station	Footpat	.h)										
Telecom UU diversion	6	03-Mar-21	09-Mar-21	28-Apr-21 A	15-May-21 A		Teleo	ecomUUd	liversion											·····			יר
Installation of ducting for PL, ATC and E&M	6	10-Mar-21	16-Mar-21	25-Aug-21 A	08-Sep-21	1	 										Installation	of ducting fo	r PL, ATC	and E&M			
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	09-Sep-21	08-Oct-21				+										R	einstatemen	it of footpath	n & carriagewa	y.
Stage 5B (HBR traffic island)	36	05-Aug-21	15-Sep-21	09-Oct-21	20-Nov-21									V			➡ ▼ Staç	ge 5B (HBR (traffic isla	nd)			
Demolition of existing traffic island	6	-	11-Aug-21	09-Oct-21	16-Oct-21	1								 !					; ד	Demr	olition of exi	isting traffic isla	and
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	18-Oct-21	30-Oct-21	-																	PL, ATC and Et
Construction of new traffic island	18	26-Aug-21	15-Sep-21	01 - Nov-21	20-Nov-21	-																	Construc
Stage 5C (HBR Left Turn Lane 1)	12	16-Sep-21	30-Sep-21	22-Nov-21	04-Dec-21	;													Stage 5C	(HBR Left T	urn Lane 1)		· '
Installation of ducting for PL, ATC and E&M	3	•	18-Sep-21	22-Nov-21	24-Nov-21																		📕 lņsta
Reinstatement of carriageway	9	20-Sep-21	30-Sep-21	25-Nov-21	04-Dec-21	-																	
[STE] Road L10 (Northern)	224		06-Apr-22	23-Dec-20 A		;	·					<u> </u>	<u></u>						<u> </u>		<u></u>		
CUE	224		06-Apr-22	23-Dec-20 A								<u> </u>											
CUE L10(N) ELS (Sheet pile) part 1	48		01-Sep-21							·				<u> </u>			10(N) ELS (5	Sheet pile) r	part 1				
CUE L10(N) Pump Test part 1	32		11-Oct-21	30-Jun-21 A	30-Jun-21 A	-										╶┝╶┼╬╌╌╴				CUE L10(1	N) Pump Tes	st part 1	
CUE L10(N) Excavation part 1	36		23-Nov-21	02-Jul-21 A	10-Sep-21	-						<u></u>	<u></u>				1			;			
CUE L10(N) Structure part 1	108		06-Apr-22	09-Oct-21	19-Feb-22	-	 J J						l										
DEPRESSED ROAD [DPR]	148		31-Aug-21	19-Apr-21 A													SSED ROAD	ן קרו ח					
Excavation & Strutting	77		16-Jun-21	19-Apr-21 A						Fycavatio	n & Strutting		!	[
Shallow Section (46m)	5		16-Juii-21 16-Mar-21				- - 						l						 				
Excavation part 2 CH5948-CH6008	5		16-Mar-21			-					Exca	vation p	art 2 CH5948-	CH6008									
Zone 3 (Ch6080 - 6121)	23		26-Apr-21			he 3 (Cł	-6080 - 6121)													 			
Strut S3 Installation (4 nos)	8		08-Apr-21	· ·			· · · · · · · · · · · · · · · · · · ·		llation (4 nos)														
Excv to FEL (5,500m ³)	9		26-Apr-21	· ·	-						o FEL (5,500m	m ³)	l										
Zone 4 (Ch6121 - 6150)	57	· ·	16-Jun-21	27-Apr-21 A			· · ·				ch6121 - 6150												
Excv to S3 (3,400m ³)	7	08-Apr-21 08-Apr-21	15-Apr-21	-	-		E	Excv to S3	(3 400m ³)			/	l										
Strut S3 installation (4 nos)	8		03-May-21	12-Jul-21 A	17-Jul-21 A	;	;						Strut S3 inst	tallation (4 nos);									
Excv to S4 (1,550m ³) part 1	3	· ·					·									54 (1,550n	m³) nart 1						
		-	06-May-21				<u></u>			· · · · ·													
Excv to S4 (1,550m ³) part 2	4	07-May-21	11-May-21	-	-	- <u>-</u>							 				,550m³) part	. Z					
Strut S4	4	04-Jun-21	08-Jun-21	28-Aug-21 A	30-Aug-21 A		1 1 1									Strut S4							
Page 17 of 24 Milestone		Summary	<u> </u>															Date		Revision	Chec	cked /	Approved

Page 17 of 24 Data Date: 03-Sep-21

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Actual Work

Baseline Milestone
 Baseline Bar

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

BOUYGUES

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	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
/	17-Jul-20	01V2	SPa/LLo	WYu
2	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			_				2021		_		_				
						May 02 09 16 23	30 06	June 13	20 27	July 04 11 18	25 01	August 08 15	22 2		eptember 12 19 26	Oct	ober 17 24	31	November 07 14	21 28
FEL	6	09-Jun-21	16-Jun-21	04-Sep-21	10-Sep-21			-							EL					
Permanent Structure	148	03-Mar-21	31-Aug-21	13-May-21 A	03-Dec-21							· · · · · · · · · · · · · · · · · · ·		Permanent	Structure		1			
Shallow Section	53	17 - Mar-21	24-May-21	19-Jul-21 A	07-Oct-21	l	w Sęction													
Part 2 (Ch5997 - 6008)	53	17-Mar-21	24-May-21	19-Jul-21 A	07-Oct-21	V Part 2	(Ch5997 -	- 6008)												
Plate Load Test	5	17 - Mar-21	22-Mar-21	19-Jul-21 A	24-Jul-21 A						Plate Load	fest								
Blinding	9	23-Mar-21	01-Apr-21	26-Jul-21 A	07-Aug-21 A							Blinding								
Drainage, Watermain & UU	10	08-Apr-21	19-Apr-21	10-Aug-21 A	18-Aug-21 A								Drainage, V	Vatermain & l	JU					
Base Slab	12	07-Apr-21	20-Apr-21	09-Aug-21 A	19-Aug-21 A								Base Slab				+ I I I I I I I I I			
Retaining Wall	18	21-Apr-21	12-May-21	04-Sep-21	25-Sep-21											aining Wall	÷			
Waterproofing	9	13-May-21	24-May-21	27-Sep-21	07-Oct-21							L				Water	proofing			
Zone 1 (Ch6008 - 6045)	108	26-Mar-21	07-Aug-21	13-May-21 A	01-Dec-21	· · · · · · · · · · · · · · · · · · ·			ii		;	Zone 1 (Ch	6008 - 6045)			÷			
Blinding & Waterproofing	9	26-Mar-21	09-Apr-21	13-May-21 A	08-Jun-21 A				/aterproofin			· · · · · · · · · · · · · · · · · · ·								
Base Slab	15	10-Apr-21	27-Apr-21	09-Jun-21 A	26-Jul-21 A						📮 🛛 Başe Slab				·					
Strut S3 removal	6	28-Apr-21	05-May-21	21-Aug-21 A	24-Aug-21 A		· · · · · · · · · · · · · · · · · · ·					 	📮 Strut	S3 removal	· · · · · · · · · · · · · · · · · · ·		+			
South Apron Adit Wall	21	06-May-21	31 - May-21	16-Aug-21 A	07-Sep-21										ıth Apron Adit Wall					
DCS Pipes	18	26-Mar-21	20-Apr-21	21-Jun-21 A	08-Sep-21						·	· · ·			S Pipes					
SP Removal	6	06-May-21	12-May-21	09-Sep-21	15-Sep-21										SP Removal		+			
Blinding & Waterproofing	6	13-May-21	20-May-21	16-Sep-21	23-Sep-21										Blindi	ng & Waterproo	fing			
Drainage, Watermain & UU	10	02-Jun-21	12-Jun-21	25-Sep-21	07-Oct-21			=				 				Draina	ģe, Watermai	n & UU		
Road Slab	12	01-Jun-21	15-Jun-21	24-Sep-21	08-Oct-21										·····	Road	Slab			
Waterproofing and Backfilling	9	16-Jun-21	25-Jun-21	09-Oct-21	20-Oct-21	· · · · · · · · · · · · · · · · · · ·									·····		Waterp	propfing a	nd Backfilling	
Strut S1 removal	6	26-Jun-21	03-Jul-21	21-Oct-21	27-Oct-21													Strut S1		
Retaining Wall	21	05-Jul-21	28-Jul-21	28-Oct-21	20-Nov-21							· · · · · · · · · · · · · · · · · · ·			·					Retaining
Waterproofing and Backfilling	9	29-Jul-21	07-Aug-21	22-Nov-21	01-Dec-21							 (·		 			
Zone 2 (Ch6045 - 6080)	74	08-Apr-21	07-Jul-21	15-Jun-21 A	19-Oct-21					Zone 2 (Ch604	5 - 6080)									
Plate Load Test	5	08-Apr-21	13-Apr-21	15-Jun-21 A					Plate Lpad						·····					
Blinding & Waterproofing	9	14-Apr-21	23-Apr-21	22-Jun-21 A	03-Jul-21 A					Blinding & Waterpro	ofing	· · · · · · · · · · · · · · · · · · ·			·		· · · · · · · · · · · · · · · · · · ·			
Base Slab	15	24-Apr-21	12-May-21		04-Aug-21 A							Base Slab								
Strut S3 removal	6	13-May-21	20-May-21									Stru	t S3 remova							
South Apron Adit Wall	21	21-May-21	15-Jun-21	23-Aug-21 A	10-Sep-21									L. J	South Apron Adit V	/all				
Road Slab	12	16-Jun-21	29-Jun-21	11-Sep-21	25-Sep-21											ad Slab	+			
Strut S1 removal	6	30-Jun-21	07-Jul-21	27-Sep-21	04-Oct-21											Strut S1 r	emoval			
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	08-Oct-21	19-Oct-21												÷	ie Waterr	main & UU	
Zone 3 (Ch6080 - 6121)	80	27-Apr-21	02-Aug-21	03-Jul-21 A	13-Nov-21	· · · · · · · · · · · · · · · · · · ·					70	ne 3 (Ch6080	-6121)		·					
Plate Load Test (deleted)	5	27-Apr-21 27-Apr-21	03-May-21	03-Jul-21 A	03-Jul-21 A					Plate Load Test (de	i				·					
Blinding & Waterproofing	9	04-May-21	13-May-21	09-Jul-21 A	27-Jul-21 A							& Waterproofir								
Base Slab	15	14-May-21	01-Jun-21	28-Jul-21 A	01-Sep-21 A	······							τ I	Base Slab						
Strut S3 removal	6	02-Jun-21	08-Jun-21	04-Sep-21	10-Sep-21		·····								Strut \$3 removal					
South Apron Adit Wall	21	02-Jun-21	05-Jul-21	11-Sep-21	07-Oct-21											South	Apron Adit Wa			
Road Slab		09-Jul-21	19-Jul-21	08-Oct-21	22-Oct-21													d Slab		
	12														· · · · · · · · · · · · · · · · · · ·		+		age, Waterma	in & I II I
Drainage, Watermain & UU	10	07-Jul-21	17-Jul-21	20-Oct-21	30-Oct-21						<u></u>						+			
Strut S2 & S1 removal	12	20-Jul-21	02-Aug-21	01-Nov-21	13-Nov-21														strut	S2 & S1 re
Zone 4 (Ch6121 - 6150)	97	07-May-21	31-Aug-21	01-Sep-21 A	03-Dec-21										6121 - 6150)					
Plate Load Test	5	07 - May-21	12-May-21	01-Sep-21 A	03-Sep-21 A									Plate Ļo	au rest					
Derre 19 of 24		Summon													Date		vision	Checke	ad Apr	oroved

Page 18 of 24 Data Date: 03-Sep-21

Milestone V Summary Planned Bar Critical Activity

Actual Work

Baseline Bar

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

BOUYGUES

	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
cs /	17-Ju l -20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021
						May June July August 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 29
Blinding & Waterproofing	6	13 - May-21	20-May-21	04-Sep-21	10-Sep-21	
Base Slab part 1	12	21-May-21	03-Jun-21	11-Sep-21	25-Sep-21	
BS P2	9	25-Jun-21	06-Jul-21	27-Sep-21	07-Oct-21	
Remove S4	3	07-Jul-21	09-Jul-21	08-Oct-21	11-Oct-21	
BS P3	6	10-Ju-21	16-Jul-21	12-Oct-21	19-Oct-21	
BS P4	9	17-Ju -21	27-Jul-21	20-Oct-21	29-Oct-21	
Remove S3	9	28-Jul-21	06-Aug-21	30-Oct-21	09-Nov-21	
South Apron Adit Wall / Sump Pit	21	07-Aug-21	31-Aug-21	10 - Nov-21	03-Dec-21	
DPR SUS Interface	91	03-Mar-21	24-Jun-21	21-Jun-21 A	11-Sep-21	DPR SUS Interface
SUS Dwall removal up to -3.0mPD	9	03-Mar-21	12-Mar-21	21-Jun-21 A	26-Jun-21 A	SUS Dwall removal up to -3.0mPD
BH-6.85mPD	6	16-Apr-21	22-Apr-21	29-Jun-21 A	17-Jul-21 A	BH-6.85mPD
BH-10.5mPD	6	07 - May-21	13-May-21	29-Jul-21 A	07-Aug-21 A	BH-10.5mPD
BH-15.15mPD	7	17-Jun-21	24-Jun-21	28-Aug-21 A	11-Sep-21	
WEST VENTILATION BUILDING [WVB]	158	14-Apr-21	22-Oct-21	11-Mar-21 A	22-Dec-21	
Delay Events	0			21-Apr-21 A	12-Jun-21 A	
SP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	08-May-21 A	SP Installation Stoppage - due to Fatal Accident
KP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	17-May-21 A	KP Installation Stoppage - due to Fatal Accident
KP Drilling Stoppage - due to Fatal Accident	0			21-Apr-21 A	12-Jun-21 A	KP Drilling Stoppage - due to Fatal Accident
ELS system & Foundation	79	14-Apr-21	19-Jul-21	11-Mar-21 A	25-Sep-21	✓ ELS system & Foundation
Sheet Pile	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A	▼ Sheet Pile
WVB - Sheet Piles Installation 100% completion	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A	WVB - Sheet Piles Installation 100% co
King Post	53	15-May-21	19-Jul-21	20-Apr-21 A	25-Sep-21	▼ King Post
North	38	15-May-21	30-Jun-21	20-Apr-21 A	06-Jul-21 A	V. V. Vorth
KP Drilling (KP9 & KP10) @ 2d/no	4	28-May-21	01-Jun-21	20-Apr-21 A	18-May-21 A	KP Drilling (KP9 & KP10) @ 2d/no
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31 - May-21	03-Jun-21	07-Jun-21 A	07-Jun-21 A	KP Installation & Grouting (KP9 & KP10) @ 2d/no
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15 - May-21	20-May-21	26-Jun-21 A	02-Jul-21 A	KP Installation & Grouting (KP3 & KP4) @ 2d/no
KP Installation & Grouting (KP11 & KP12) @ 2d/no	4	26-Jun-21	30-Jun-21	03-Jul-21 A	06-Jul-21 A	KP Installation & Grouting (KP11 & KP12) @ 2d/no
South	38	21-May-21	06-Jul-21	08-Jun-21 A	30-Jul-21 A	▼ South
KP Installation & Grouting (KP5 & KP6) @ 2d/no	4	21 - May-21	25-May-21	08-Jun-21 A	08-Jun-21 A	KP Installation & Grouting (KP5 & KP6) @ 2d/ho
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21	28-Jun-21 A	02-Jul-21 A	KP Drilling (KP11 & KP12) @ 2d/no
KP Installation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A	23-Jul-21 A	KP Installation & Grouting (KP1 & KP2) @ 2d
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Jul-21	26-Jul-21 A	29-Jul-21 A	KP Drilling (KP7 & KP8) @ 2d/no
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-Ju+21	06-Jul-21	30-Jul-21 A	30-Jul-21 A	KP Installation & Grouting (KP7 & KP3
Steel Platform Location	39	02-Jun-21	19-Jul-21	21-Jun-21 A	25-Sep-21	▼ Steel Platform Location
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	09-Aug-21 A	KP Drilling (DP1 - DP6) 6 n
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Jul-21 A	14-Aug-21 A	KP Installation (PP1-
Steel Deck Erection	18	28-Jun-21	19-Jul-21	04-Sep-21	25-Sep-21	
Wells Installation	40	21-May-21	08-Jul-21	26-Jul-21 A	07-Sep-21	▼ Wells Installation
North	22	21 - May-21	16-Jun-21	26-Jul-21 A	02-Sep-21 A	▼ Vorth
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21	26-Jul-21 A	10-Aug-21 A	Pumping Well Installation
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	23-Aug-21 A	28-Aug-21 A	Fumpir
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	30-Aug-21 A	02-Sep-21 A	P
South	34	28-May-21	08-Jul-21	12-Aug-21 A	07-Sep-21	▼ South
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Jul-21	08-Jul-21	23-Aug-21 A	25-Aug-21 A	Pumping \
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21	12-Aug-21 A	07-Sep-21	
Page 19 of 24 Data Date: 03-Sep-21	Bar tivity lestone lork	Summary	ED/	f	or De	hk Road T2 and Infrastructure Works velopments at South Apron

Baseline Bar

September	r l	October		ovember
05 12	19 26 03	10 17	24 31 07	14 21 28
Blinding	& Waterproofing			
	Base Slab	nårt 1	·	
		panti		
		BS P2		
			·	
		Remove S4		
		BS	P3	
			BS P4	
· · · · · · · · · · · · · · · · · · ·			····· <u>·</u> ·····	
				Remove \$3
BH_15	.15mPD		·····	
			VEST VENTILATIO	NN BUILDING [WVE
 			·····	
			·	
ompletion				
,				
			·····	
			····	
2d/no				
P8) @ 2d/no				
				- <u> </u>
nos @ 3d/no				
<u> </u>				
i - DP6) 6 nos @	2d/no			
		- L	· · · · · • • • • • • • • • • • • • • •	
	Steel Decl	rection		
n – 6 no/s x 2 rigs	(Zone 3)			
ping Well Installa	tion - 6 nos x 2 rig	s (∠one 1)		
Pumping Wall In	stallation - 7 hos x	2/rigs (70ne 2)		
		- 1190 (20110 2)		<u>.</u>
Wall Installation	n - 2 nos x 2 rigs (2	20mo 5)		
y vvon nistallauOf	· 2 1103 X 2 1195 (2			
Pumping W	Vell Installation - 3	no¦s x 2 riģs (Zon¦e	6)	
	i	, , , , , , , , , , , , , , , , , , ,	i	<u> </u>
	Date	Revision	Checked	Approved
			WYu	
	18-Dec-19	00V1		
	22-Feb-20	01V0	SPa/LLo	WYu
S CS	09-Apr-20	01V1	SPa/LLo	WYu
CS	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Steel Platform Location 8 Pumping Well Installation - 11 nos x 3 rigs (Zone 4) 8 Excavation & Strutting 88 Pumping Test 12 Bulk Excavation Start 0 Excavation to below Strut S1 10,010m³ 17 Strut S1 Installation 20 Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Pre-loading 20	3 24-Jun-21 8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	03-Jul-21 03-Jul-21 22-Oct-21 20-Jul-21	11-Aug-21 A	A 18-Aug-21 A		May 09	lay 16 23	3 30	June 06 13	20 27	July 04 11 18	25 01	August 1 08 15 22	2 29 05	September 5 12 19 26	Octo 26 03 10	October 0 17 24	31 0	November 07 14	
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)8Excavation & Strutting88Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	3 24-Jun-21 8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	03-Jul-21 22-Oct-21	11-Aug-21 A	-		+ + +														- 21 201
Excavation & Strutting88Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	8 09-Jul-21 2 09-Jul-21 0 21-Jul-21 7 21-Jul-21	22-Oct-21	-	40.4 04.4 1							▼ Steel Platform Locat	ation								<u> </u>
Pumping Test12Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	2 09-Jul-21 2 21-Jul-21 7 21-Jul-21			18-Aug-21 A							4		Pump'		llation - 11 nos x 3 rigs (÷,			,
Bulk Excavation Start0Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	21-JuF21 7 21-JuF21	20-Jul-21	08-Sep-21	22-Dec-21					·····		V						Excav	avation & Stru	rutting	,
Excavation to below Strut S1 10,010m³17Strut S1 Installation20Strut S1 Pre-loading2Excavation to below Strut S2 11,076m³18Strut S2 Installation20	7 21-Jul-21	· · · · · · · · · · · · · · · · · · ·	08-Sep-21	19-Sep-21											Pumping	၂ Test				,
Strut S1 Installation 20 Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Installation 20		, ,	20-Sep-21	, ,		+					♦					xcavation Start				,
Strut S1 Pre-loading 2 Excavation to below Strut S2 11,076m³ 18 Strut S2 Installation 20	00.1.101	09-Aug-21	20-Sep-21	11-Oct-21		+			1			++				Exc	Excavation to below			,
Excavation to below Strut S2 11,076m ³ 18 Strut S2 Installation 20	0 26-Jul-21	17-Aug-21	25-Sep-21	20-Oct-21		+			· · · · · · · · · · · · · · · · · · ·		,						Strut S1	1 Installation	'n	
Strut S2 Installation 20	2 18-Aug-21	19-Aug-21	21-Oct-21	22-Oct-21		+			:			ŕ					1 1 1	t \$1 Pre-load		
	8 20-Aug-21	09-Sep-21	23-Oct-21	12-Nov-21		· · · · · · · · · · · · · · · · · · ·									A				Excavat	vation to be
Strut S2 Pre-loading 2	0 26-Aug-21	17-Sep-21	29-Oct-21	20-Nov-21									· · · · · · · · · · · · · · · · · · ·							Strut S2
	2 18-Sep-21	20-Sep-21	22-Nov-21	23-Nov-21							//									📕 Strut
Excavation to below Strut S3 11,905m ³ 20	0 21-Sep-21	16-Oct-21	24-Nov-21	16-Dec-21	-											++	4			
Strut S3 Installation 20		22-Oct-21	30-Nov-21	22-Dec-21							·				=					·····
SOUTH APRON ADIT 20	· ·	06-Jul-21	19-Apr-21 A								SOUTH APRON									
South Apron Adit - Sheet piling 20		06-Jul-21		A 05-May-21 A					;;	······	South Apron Adit	dit - Sheet pilin	,ıg							·····
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS] 145		15-Oct-21	15-Apr-21 A	A 19-Nov-21	i												C&C TUNNE	ΞĻ / LAUŅC	CHING SHAFT	, T [C&C / L
Delay Events 0			· ·	A 27-Aug-21 A					/		'									
C1-15 Zone 2 Pour 1 Remedial works 0	,	,	-	A 24-May-21 A		+	с	J1+15 Zonr	ne 2 Pour 1 Rem	medial works		÷							····;	
C1-15 Zone 2 Pour 2 Remedial works 0	/	1	28-May-21 A	A 03-Jun-21 A	۰ ۱			r	C1-15 Zone 2	2 Pour 2 Remedi	Jial works									
C1-15 Zone 2 Pour 3 Remedial works 0	,		04-Jun-21 A	A 08-Jun-21 A	۰ <u>ا</u>				C1-15 Zr	Zone 2 Pour 3 Re	kemedial works									
C1-15 Zone 3 Remedial works 0	, <u> </u>	1	27-Jun-21 A			· +			;		C1-15 Zone 3 Reme	nedial works								
C1-15 Zone 4 Pour 1 Remedial works 0	J		08-Jul-21 A						;				ur 1 Remedial works							
C1-15 Zone 4 Pour 2 Remedial works 0	,								(·		C1-15 Zone 4 Pour 2	í 2 Remedial wr	orks					
C1-15 Zone 4 Pour 3 Remedial works 0				A 11-Aug-21 A									G1-15 Zone 4 I							,¦ '
C1-15 Strengthening Wall Strength Gain 0			-	A 15-Aug-21 A	<u>_</u> ;;				(i i i	i i	Vall Strength Gain		·			
Cross Wall X1 Breaking 0	-			A 27-Aug-21 A										!	II X1 Breaking					,¦ '
Shaft Excavation & Strutting 70	-	16-Jul-21	-	A 07-Aug-21 A		-+			i		▼ Sha ⁺	Ift Excavation & S	& Strutting							
Cut & Cover 58		16-Jul-21		A 10-Jul-21 A	A 🗸					'	V Cut &									
Excavation (2,191m ³) up to level -20.1mPD 11	-	20-May-21		A 08-May-21 A	i		Excav	vation (2,1	,191m ³) up to lev	level -20.1mPD										
S5 Steel Struts 12			-	A 29-May-21 A			·····		S5 Steel Struts		·									
Excavation (2,817m ³) up to level -24.6mPD 11		17-Jun-21	-	A 11-Jun-21 A							2,817m³) up to level -24.	_4.6mPD			·					
S6 Steel Struts 12		02-Jul-21		A 21-Jun-21 A							■ S6 Steel Struts									
Pumping Test Trial 0				A 28-Jun-21 A	i						Pumping Test Trial								 	
Excavation (2,567m ³) to FEL (-28.7mPD) 12	-	16-Jul-21	29-Jun-21 A						,,			avation (2,567r	'm³) to FEL (-28.7mPD)	۸ ۱						
Cell 2 34		02-Jun-21		A 24-Jul-21 A					Cell 2				,,						· · · · · · · · · · · · · · · · · · ·	
Excavation up to level-21.25mPD 10		02-501-21 04-May-21		A 17-May-21 A			Excavat ⁱ		level-21.25mPD	PD		÷								
Excavation up to level-26.45mPD 12		18-May-21		A 14-Jun-21 A							o level -26.45mPD						·			
Excavation (6,809 m ³) to FEL -32.63mPD 12		02-Jun-21	-	A 24-Jul-21 A				;				Excavatio	on (6,809 m³) to FEL -32.	⊀2 63mPD						
Cell 1 31		29-May-21		A 07-Aug-21 A					(- · · ·										·	
Excavation up to level-21.25mPD 10		04-May-21		A 17-May-21 A	+·		Excavatio		level-21.25mPD	PD									<u>-</u> <u>-</u>	
Excavation up to level - 26.45mPD 12		18-May-21		A 07-Jun-21 A					i i i		26 45mPD									
Excavation (6,809 m ³) to FEL -33.75mPD 9		-	-	A 07-Sulf-21 A									Excavation (6.809	10 m ³) to FEL -?	43 75mPD				· · · · · · · · · · · · · · · · · · ·	
Civil Works for TBMAssembly 111		29-May-21 15-Oct-21	03-Jul-21 A	-													Civil Works for			
Cut & Cover 75		15-Oct-21 15-Oct-21	10-Jul-21 A		ii.												Cut & Cover		JIIOIN	
	10 001 2 .		10.001 =		4	<u> </u>				<u></u> .		<u> </u>						<u> </u>	<u> </u>	<u> </u>

Page 20 of 24 Data Date: 03-Sep-21 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

Summary

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

BOUYGUES TRAVAUX PUBLICS



	Date	Revision	Checked	Approved
	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
1	17-Jul-20	01V2	SPa/LLo	WYu
1	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			_									_				20				
						02	N 09	May 16	23	30	0 06	June 13	20	27	04		uly I	18 2	5 (01		gust 15	22	29	Т
C&C Excavation completion	0		16-Jul-21		10-Jul-21 A													&C Exca	vation					ŤT	-
Barrette Trimming	6	17-Jul-21	23-Jul-21	12-Jul-21 A	21-Jul-21 A		• • • • • • • • • •		L								!	📛 🗄 Ba	rrette 7	Trimm	ing	·			1-
Blinding & Waterproofing Pour 15	9	24-Jul-21	03-Aug-21	22-Jul-21 A	19-Aug-21 A		- - - - -													1		E B	Blinding	& Wa	ter
Base Slab Pour 5 [1,740m ³)	30	04-Aug-21	07-Sep-21	20-Aug-21 A	14-Sep-21		<u> </u> 							+											Ê
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21	15-Sep-21	29-Sep-21		- 																		
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	23-Sep-21	04-Oct-21	30-Sep-21	11-Oct-21		 - - -							+											÷
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	05-Oct-21	15-Oct-21	12-Oct-21	22-Oct-21																				1.
Cell 1 & 2	83	02-Jun-21	09-Sep-21	03-Jul-21 A	19 - Nov-21		, , , ,				//////////////////////////////////////			+							·		÷-		
Cell 1 & 2 Excavation completion	0		02-Jun-21		07-Aug-21 A		T ·			<	>									•	Cell 1	& 2 Exc	avation	i comp	dle
VSL Gantry Crane Setup	12	30-Jun-21	14-Jul-21	03-Jul-21 A	24-Aug-21 A		 							 -	-								∎ V\$I	iL Gan	iŧry
VSL Gantry Crane Load Test	3	15-Jul-21	17-Jul-21	25-Aug-21 A	28-Aug-21 A		• ·									_	-							VSL	G
Base Slab	83	03-Jun-21	09-Sep-21	15-Jul-21 A	19-Nov-21						V	 ;		;									÷		<u>;</u>
Blinding & Waterproofing Pour 1	6	10-Jun-21	17-Jun-21	15-Jul-21 A	28-Jul-21 A		1 1 1 1				_								Blind	ding 8	Waten	proofing) Pour 1	i	-
Base Slab Pour 1 [1,292m³)	22	18-Jun-21	14-Jul-21	29-Jul-21 A	21-Aug-21 A		· · · · · · · · · · · · · · · · · · ·					C		;									Base	Slab P	φι
Plate Load Test	6	03-Jun-21	09-Jun-21	16-Aug-21 A	21-Aug-21 A		 ! !				<u> </u>												Plate	_oad T	les
Blinding & Waterproofing Pour 2	9	18-Jun-21	28-Jun-21	28-Aug-21 A	10-Sep-21		+ 					-											Ļ		ê
Blinding & Waterproofing Pour 3 & 4	9	29-Jun-21	09-Jul-21	30-Aug-21 A	10-Sep-21											•								-	-1
Base Slab Pour 2 [883m ³)	10	15-Ju -21	26-Jul-21	11-Sep-21	30-Sep-21		 - -							+		-		;							÷
Base Slab Pour 3 & 4 [910m ³)	8	27-Ju -21	04-Aug-21	11-Sep-21	02-Oct-21		• ! !																		
Temp. & Perm. Side Wall part 1	9	14-Aug-21	24-Aug-21	04-Oct-21	18-Oct-21																÷				÷
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21	13-Nov-21	19-Nov-21		<u> </u>							+											<u></u>
Tympanum	67	03-Jun-21	21-Aug-21	26-Jul-21 A	12-Nov-21		•				V	- 4		•	1								Tymp¦a	anum	1
Blinding & Waterproofing	9	03-Jun-21	12-Jun-21	26-Jul-21 A	11-Aug-21 A		•					⊒										inding 8			ήg
Tympanum Pour 1 + Seal Rings [353m³)	12	15-Jun-21	28-Jun-21	12-Aug-21 A	31-Aug-21 A							_												יד	y'n
Tympanum Pour 2 + Seal Rings	6	07-Jul-21	13-Jul-21	01-Sep-21 A	09-Sep-21		+ 1 1 1								_										-
TYmpanum Mass Fill	0			10-Sep-21	13-Sep-21		, ·					1													-
Tympanum Pour 3 + Seal Rings	10	14-Jul-21	24-Jul-21	14-Sep-21	28-Sep-21		 									-		-							i i
Tympanum Pour 4 + Seal Rings	10	26-Jul-21	05-Aug-21	29-Sep-21	13-Oct-21		+ · 											_							
Tympanum Pour 5 Seal Rings	14	06-Aug-21	21-Aug-21	15-Oct-21	26-Oct-21									÷						;					Ì
Falseworks removal	0			27-Oct-21	12-Nov-21		1										!								
SUB-SEA TBM TUNNEL - WESTBOUND	435	25-Aug-20	12-Feb-22	25-Aug-20 A	12-Feb-22	 	, ,			 															1
TBM Design / Fabrication / FAT / Delivery	249	25-Aug-20	29-Jun-21	25-Aug-20 A	22-Jul-21 A										Γ₿MD	es¦ign / I	Fabri	catio¦n / F	AT / C	Deliver	y				
Fabrication	168	25-Aug-20	18-Mar-21	25-Aug-20 A	14-May-21 A	1	1	Fabric	ation						1							-	1		ł
FAT	24	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A							FAT													
Delivery of TBM components to the Site	48	03 - May-21	29-Jun-21	10-Jun-21 A	22-Jul-21 A		1					1	1		-			Deli	very of	fТВӍ	compo	onents to	o the Sit	te	ł
Precast Fabrication	259	29-Mar-21	12-Feb-22	29-Mar-21 A	12-Feb-22	·	• ·							+											-1
TBM Precast Segments	180	29-Mar-21	05-Nov-21	29-Mar-21 A	03-Dec-21	- - 	; ; ;		 																-1
Precast TBM Segment - 30%	36	29-Mar-21	14-May-21	29-Mar-21 A	29-May-21 A		 			Pr	recast TB	M Segm	ient - 30	% 									+		
Precast TBM Segment - 40%	36	15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A	1 1 1	¦ I	- 											F	Precas	t TBM	Segmer	nt - 40%	ó	
Precast TBM Segment - 50%	36	29-Jun-21	10-Aug-21	02-Aug-21 A	07-Sep-21	 	, , , , ,							;									;-		-
Precast TBM Segment - 60%	36	11-Aug-21	21-Sep-21	08-Sep-21	22-Oct-21			¦																<u></u>	
Precast TBM Segment - 70%	36	23-Sep-21	05-Nov-21	23-Oct-21	03-Dec-21																				
Service Gallery	108	29-Jun-21	05-Nov-21	19-Jul-21 A	29-Dec-21																				-1
Precast Serviœ Gallery - Mould Design	24	29-Jun-21	27-Jul-21	19-Jul-21 A	15-Sep-21		 		1							1	i	1		:	:	1	1		-

Page 21 of 24 Data Date: 03-Sep-21 Milestone
 Milestone
 Planned Bar
 Critical Activity

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

	Septemb				Octo					vember	0.4	
05	12	19	26	03	10	17	24	31	07	14	21	28
terproof	ing Pou	ir 15										
			o Pou	r \$ [1,740)m³)							
				C&C S5		trut Rer	noval					
							BH remo	wal (14	5m²/8	4m²/shi	ftx2sl	hift)
							EB SU					
	Cell 1 8	2										
letion												
try Crar	e Setu))							'			
		oad Te	st									
	Base S											
our 1 [1	,292m³							• • • • • • • •				
est								+				
	Blindir	g & Wa	terpro	oofing Po	ur 2							
				oofing Po								
	 				ab Pou		3m³)					
							4 [910n	n ³)				
	- 						np. & P/		de Wall	part 1		
											Temp.	&
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lg												
	m Pour	1 + Sea	al Rin	gs [353m	3)			•				
				Seal Rir								
		mpanur										
				Tympanu	m Pour	3 + Se	al Rinas					
							um Pou		al Rino	s		
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								V	TBMF	recast	Segme	nts
Pi	ecast T	BM Se	gmen	t - 50%				• • • • • • • •				
							Precas	st TBM	Segme	nt - 60%	6	
								·				
								· · · · · · ·	Servic	e Galle	ry	
	F	recast	Servi	e Gallery	- Moul	d Desig	n	• • • • • • •				
				i	I				I			
		1	Date		David	ision		hock		A	roved	1



Date	Revision	Checked	Approved
18-Dec-19	00V1	WYu	
22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Ju l -20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish												2021										
						02		/lay 16	23 30	06	June 13 2	20 27	04	July 11 1	18 2	5 01	August 08 15	22	29 05	Septem 5 12	ber 19 26		tober	24 31	Nov	ember 14 2	21 28
Precast Service Gallery - Mould Fabrication & Setup	36	28-Jul-21	07-Sep-21	17-Sep-21*	01 - Nov-21																				Precast Ser	viœ Galle	ery - Mo
Precast Service Gallery - Mass Production Start	0	08-Sep-21		02 - Nov-21															♦	> [J			•	Precast Se	rvice Galle	əry - Ma
Precast Service Gallery - 3%	24	08-Sep-21	07-Oct-21	02-Nov-21	29-Nov-21																						
Precast Serviœ Gallery - 6%	24	08-Oct-21	05-Nov-21	30-Nov-21	29-Dec-21		+																		-		
OHVD Slab	72	15-Nov-21	12-Feb-22	15-Nov-21	12-Feb-22		+																			/	
Concrete Mix - Plant Trial	72	15-Nov-21	12-Feb-22	15-Nov-21*	12-Feb-22		+																				
Precast OHVD Slab - Mould Fabrication & Setup	72	15-Nov-21	12-Feb-22	15-Nov-21*	12-Feb-22		+																				
Site Establishment	316	03-Oct-20	27-Oct-21	27-Oct-20 A	07-Dec-21					- <u>-</u>											J			▼ Şite E	stablishme	nt	
Temporary CLP 132kV Substation	221	31-Oct-20	31-Jul-21	27-Oct-20 A	31-Aug-21 A												orary CLP 1	32 kV Subs	tation		J						
Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	192	31-Oct-20	26-Jun-21	27-Oct-20 A	02-Aug-21 A											Tem	p CLP 132k	VSubstati	on - CLP T	Transform	ər Setup & Fi	nal Fix					
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	03-Aug-21 A	31-Aug-21 A												-	· · · ·	Temp	CLP 132k	V Substation	FSD / WSD Ir	spection				
Temp CLP 132kV Substation - Power On	0		31-Jul-21		31-Aug-21 A		+									♦			🔶 Temp	CLP 132k	V Substation	- Power On					
Precast Elements Storage Yard	90	03-Oct-20	20-Jan-21	10-May-21 A	26-Oct-21		+																				
Precast Storage - Foundation	24	03-Oct-20	31-Oct-20	10-May-21 A	31-May-21 A				Pr	ecast Sto	orage - Fo	undation							·								
Precast Storage - RC beam & Rail installation	24	02 - Nov-20	28-Nov-20	07-Jun-21 A	31-Jul-21 A	 	+						{				st Storage -										
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21 A	19-Oct-21										····i								Prec	ast Storag	je Deliver	y & Assen	nbly
Precast Storage - Commissioning & Load Test	6	14-Jan-21	20-Jan-21	20-Oct-21	26-Oct-21		+																	Precas	t Storage	Commiss	ioning &
Gantry Crane Setup for TBMAssembly	66	04-Mar-21	26-May-21	21-May-21 A	28-Aug-21 A				▼ Gantry	Grane Se	etup for TE	M Assemb	ly														
Gantry Crane - RC beam & Rail installation	24	04-Mar-21	31-Mar-21	-	30-Jun-21 A					- ·			Şantry Çr	ane - RC	beam &	Rail installa	tion										
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21	28-Jun-21 A	24-Aug-21 A		<u>.</u>	—										📕 Ga	ntry Crane	- Delivery	& Assembly						
Gantry Crane - Commissioning & Load Test	6	20-May-21	26-May-21		28-Aug-21 A		+												Gantry Cr	rane - Cor	nmissioning 8	Load Test					
Slurry Treatment Plant	156	04-Mar-21	10-Sep-21	18-Feb-21 A	03-Dec-21					- <u>-</u>					····						Treatment P						
Slurry Treatment Plant - Civil works	36	04-Mar-21	19-Apr-21	18-Feb-21 A	17-Sep-21																	ment Plant - Ci	vilworks				
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	07-Oct-21		+							·			- -	· + ·	·			Slurn	Treatment	Plant - De	livery & As	sembly	
Slurry Treatment Plant - Installation	48	20-May-21	16-Jul-21	20-May-21 A	07-Oct-21		+														4	Slurn	Treatment	Plant - Ins	stallation		
Slurry Treatment Plant - Commissioning	24	17-Jul-21	13-Aug-21	08-Oct-21	05-Nov-21									·									-+			reatment	Plant -
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	06-Nov-21	03-Dec-21	<u>.</u>														¦							
Mortar Plant	108	18-Jan-21	02-Jun-21	15-Jul-21 A	09-Nov-21					Morter Pl	lant																
Mortar Plant - Civil works	36	18-Jan-21	02-5011-21 04-Mar-21	15-Jul-21 A	10-Sep-21															Morta	r Plant-Civil	works					
Mortar Plant - Installation	48	04-Mar-21	04-May-21	02-Aug-21 A	11-Oct-21	<u> </u>				· · · · · · · · · · · · · · · · · · ·													lortar Plant	- Installatio	n!		
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	12-Oct-21	09-Nov-21		+																			rtar Plant	- Comm
DG Store / Medical Lock		,					+	 											, , , , ,				- +		ore / Medio		
Hyperbaric Intervention - LD consultation & Approval	267 144	01-Dec-20 01-Dec-20	27-Oct-21 31-May-21	01-Dec-20 A 01-Dec-20 A	07-Dec-21 10-Sep-21		+										+			Hype	tharic Interver	ition - LD consi	Iltation & Ar				
DG Store / Medical Lock Installation	48	01-Dec-20 02-Aug-21	27-Sep-21	11-Sep-21*	09-Nov-21		+	, , , , , , , , , , , , , , , , , , ,												<u>-</u>			-+			Store / M	
DG Store / Medical Lock - FSD Approval	24	28-Sep-21	27-Oct-21	10-Nov-21	07-Dec-21		+								TDMAA												
TBMAssembly WB TBM 1st Delivery	0	18-Jul-21	18-Jul-21 18-Jul-21	22-Jul-21 A	04-Dec-21 22-Jul-21 A		+									TBM 1st Die	livory		·							·	
			10-Jul-2 1	20 Aug 21 A			÷							·····	• ***					- CEICEIC	4/Cross Bean						
Lifting S5/S6/S4/Cross Beam	0			-	01-Sep-21 A		+														i i						
Main Drive with displacement Cylinder	0			02-Sep-21 A		ļ																ement Cylinder					
Lifting S3/S7/S2/S8 & S1 Installation	0			06-Sep-21	11-Sep-21															Liftin		3 & S1 Installat					
Shield Bolts torquing & Interior Shiled Joint Welding	0			11-Sep-21	20-Sep-21	ļ																oltis torquing & l		ed Joint W	elding		
Cutterhead Installation	0			20-Sep-21	21-Sep-21	 	ļ			ļ												ad Installation					
Erector Preparation & Installation	0			22-Sep-21	24-Sep-21					-											4	or Preparation	& Installatio	n			
Shield Shifting	0			22-Sep-21	24-Sep-21																Shie Shie	d Shifting					

Page 22 of 24 Data Date: 03-Sep-21 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work

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CriticalActivity

Baseline Milestone
 Baseline Bar

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

BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (Aug-21)

Revision Checked Approved Date 18-Dec-19 00V1 WYu 22-Feb-20 WYu 01V0 SPa/LLo WYu 09-Apr-20 01V1 SPa/LLo 17-Ju**l-**20 WYu 01V2 SPa/LLo WYu 09-Oct-20 01V3 SPa/LLo 02-Jul-21 02V0 SPa/LLo WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish												2021								
				/		02	Ma 09	ay 16	23 30		June 13	20 27	04 11	July 11 18	25	01	August 08 15	22	29 05	Septembe	er 19 26	October 03 10 17	24	No 31 07	Vovember 14 21 28
Final Shield Joint Welding	0	,	,	24-Sep-21	28-Sep-21		_														Fin:	al Shield Joint Wel	lding		, , , , , , , , , , , , , , , , , , ,
Cutterhead Connection to Shield	0	/		21-Sep-21	02-Oct-21																	Cutterhead Conne	ction to Sh	ield	
Installation Welding Plate on Top S1	0	· (1	02-Oct-21	04-Oct-21							,	, i i i i				 i i					Installation Weld	ling Plate o	n Top S1	Ч
Lifting & Welding of Tailskin to Shield	0	(1	24-Sep-21	18-Oct-21										-								ifting & We	elding of Tailsk	kin to Shield
1st Shifting of TBM	0			18-Oct-21	20-Oct-21	1											·····							ng of TBM	
Thrust Frame Installation	0			20-Oct-21	29-Oct-21	-																			e Installation
Gantry Rail Wall Installation	0		· [· · · · · · · · · · · · · · · · · ·	20-Oct-21	30-Oct-21	+							 				 							Gantry Rail V	Wall Installation
Gantry 4 Assembly	0		'	30-Oct-21	01-Nov-21	+											 i i							Gantry4A	Assembly
Gantry 3 Assembly	0	'	'	01-Nov-21	04-Nov-21	+											 i i							Gantry	
Gantry 2 Assembly	0	· ['	'	04-Nov-21	07-Nov-21	+													·						ntry 2 Assembly
Segment Feeding Installation	0	'		07-Nov-21	08-Nov-21	+		·																	egment Feeding:Ins
Gantry 1 Assembly	0	'	'	08-Nov-21	11-Nov-21	+		·																	Gantry 1 Assembly
Air / Water / Hydraulic Electrical Connections	0			11-Nov-21	20-Nov-21	+																		--	Air / Wat
Power On	0		'	20-Nov-21	20-Nov-21														·					·	
Testing & Commissioning	0			20-Nov-21 22-Nov-21	04-Dec-21	-																			
	0	19-Aug-21	19-Aug-21	22-Nov-21 06-Sep-21	04-Dec-21			·····													STBOUND				
SUB-SEA TBM TUNNEL - EASTBOUND TBMAssembly	0			06-Sep-21 06-Sep-21	02-Dec-21 02-Dec-21	4												TBM Ass		NNEL - EAS					
EB TBM 2nd Delivery	0	19-Aug-2 1	19-Aug-21 19-Aug-21	00-3ep=2 1	02-Dec-21 06-Sep-21*	4											◆			EB TBM 2h	nd Deliverv				·
Lifting S5/S6/S4/Cross Beam	0		13-ruy	11-Sep-21	14-Sep-21							;									ting S5/S6/S4/C	rose Ream		·	++-₽
Main Drive with displacement Cylinder	0			11-Sep-21 14-Sep-21	14-Sep-21 18-Sep-21								<u>.</u>									h displacement Cy	lindor		
	-	'	'		· ·													·			i i	Lifting S3/\$7/S2	i i	atallation	
Lifting S3/S7/S2/S8 & S1 Installation	0			28-Sep-21	04-Oct-21		÷																		
Shield Bolts torquing & Interior Shiled Joint Welding	0	· · · · · · · · · · · · · · · · · · ·		04-Oct-21	12-Oct-21																				r Shiled Joint Weldir
Cutterhead Installation	0		'	12-Oct-21	13-Oct-21	ļ	÷											·				!!	head Insta		P
Shield Shifting	0	/ /	/ //	14-Oct-21	16-Oct-21																		iield Shifting	.[
Erector Preparation & Installation	0			16-Oct-21	20-Oct-21												, , , , ,							Preparation & Ir	
Final Shield Joint Welding	0	//	,	20-Oct-21	25-Oct-21												· · · · ·							al Shield Joint V	
Cutterhead Connection to Shield	0	/	,	13-Oct-21	26-Oct-21																				nnection to Shield
Installation Welding Plate on Top S1	0	,	,	26-Oct-21	28-Oct-21																			Installation We	/elding Plate on Top
Lifting & Welding of Tailskin to Shield	0	,	,	20-Oct-21	15-Nov-21																				📕 Lifting & Weldi
Shifting of TBM to B/I Location	0	,	,	15-Nov-21	17-Nov-21																				Shifting of TE
Thrust Frame Installation	0	(,	1	17-Nov-21	26-Nov-21												 i i								Th
Gantry Rail Wall Installation	0	(1	17-Nov-21	27-Nov-21										1									[G
Gantry 4 Assembly	0			27-Nov-21	30-Nov-21	1							, , , , , , , , , , , , , , , , , ,												
Gantry 3 Assembly	0			30-Nov-21	02-Dec-21	+																		['	ſ
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	312	2 01-Feb-21	22-Feb-22	01-Feb-21 A				·i							++-										
CP TBM Design / Fabrication / FAT / Delivery		2 01-Feb-21	22-Feb-22	01-Feb-21 A			<u></u>	·	<u>-</u>		<u> </u>	·	<u>;</u>			<u></u>	<u> </u> !					<u>-</u>	<u></u>	<u>+</u> '	
Place Order	72		04-May-21		31-May-21 A				- i	Place Order	i i		[[;	
Design	72	05-May-21	30-Jul-21	01-Jun-21 A	30-Jul-21 A		<u></u>		·ii			<u>i</u>	 		÷	Design	· · · · · · · · · · · · · · · · · · ·							'	
Fabrication / Refurbishment	144		21-Jan-22	10-May-21 A		+	:====	·	·			·	·				1	+-			·			<u>+</u>	
FAT	24			16-Nov-21	13-Dec-21	+											 1 1							·	
CP Precast Lining Fabrication	40		14-Jan-22	26-Nov-21	14-Jan-22	+						·····							·						
Concrete Mix - Plant Trial	40		14-Jan-22	26-Nov-21*		1																			
CHA KWO LING ROAD WORKS	30		31-May-21	19-Apr-21 A			<u></u>	·		CHA KWO	LINGR	OAD WORKS	3				 ; ;		·					·	
Wai Yip Street / Cha Kwo Ling Road Junction	30		31-May-21	19-Apr-21 A			·					ia Kwo Ling Ro		on											
						_ <u>t:</u>	i								<u> </u>				:					<u> </u>	
Page 23 of 24		Summary		001010							_		_								Date 18-Dec-19	Revision 00V1	n Ci WYu	Checked	Approved

Page 23 of 24 Data Date: 03-Sep-21 Milestone V Planned Bar Critical Activity

Actual Work

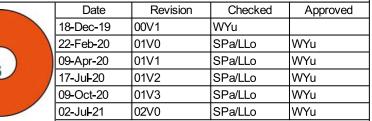
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Baseline MilestoneBaseline Bar

al Milestone

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

BOUYGUES TRAVAUX PUBLICS



Store # Elements Description Description <thdescription< th=""></thdescription<>	Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2021								
Sector O O O O <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>02</th> <th></th> <th>23</th> <th>30 06</th> <th></th> <th>27</th> <th>Jul 04 11</th> <th>ly 18 25</th> <th><u> </u></th> <th></th> <th>22 29</th> <th></th> <th></th> <th>26 03</th> <th></th> <th>24 31 0</th> <th></th> <th>21 28</th>							02		23	30 06		27	Jul 04 11	ly 18 25	<u> </u>		22 29			26 03		24 31 0		21 28
DRLL & BREAK TUNNEL [D&BR] 20 0.4.9-21<	Section 8E Completion	0		31-May-21		17-Sep-21			0															
Procest Fabrication 96 90-4ya2	Reinstatement	30	24-Apr-21	31-May-21	19-Apr-21 A	17-Sep-21												-!	E Reinsta	tement	L			
Pressi Sovia Galley - Madi Farvation Satu 4 0.449-21 0.449-21 6.440-21 6.400-21 6.400-21 6.400-21 6.400-21 6.400-21	DRILL & BREAK TUNNEL [D&BR]	200	09-Apr-21	06-Dec-21	09-Apr-21 A	15-Dec-21							 											
Procession: Galay - Mud Fabricania & Salap Al Biology - Mud Fabricania & Salap Ale optical Procession: Procession: </td <td>Precast Fabrication</td> <td>96</td> <td>09-Apr-21</td> <td>03-Aug-21</td> <td>09-Apr-21 A</td> <td>02-Oct-21</td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td> <td>▼ Precast</td> <td>Fabrication</td> <td>ו</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> I I I</td>	Precast Fabrication	96	09-Apr-21	03-Aug-21	09-Apr-21 A	02-Oct-21					· · · · · · · · · · · · · · · · · · ·				▼ Precast	Fabrication	ו							 I I I
Productions Statup 44 64-May 1 65-May 1	Precast Service Gallery - Mould Design	24	09-Apr-21	07 - May-21	09-Apr-21 A	05-May-21 A																		
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EB-08B Tunel - 04005400 Type D - Exception Top 40 05-0421 14-0422 12-569-7 22-0421 15-569-7 22-0421 16-0201	Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Jul-21 A	02-Oct-21											+			Prec	ast Service Ga	lery		
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DRILL & BLAST TUNNEL D&BL] 266 14-Jan/2 31-Dec/2 65-Apr/21 08-Jan/22 Tunnel Excavation 286 14-Jan/2 31-Dec/2 05-Apr/21 08-Jan/22 Eastbound 176 02-Jun/2 31-Dec/2 05-Apr/21 08-Jan/22 Full Race Drill & Blast 176 02-Jun/21 03-Dec/2 13-Dec/2 13-Dec/2 <td>EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top</td> <td>40</td> <td>24-Sep-21</td> <td>02-Nov-21</td> <td>26-Oct-21</td> <td>04-Dec-21</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td>	EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	26-Oct-21	04-Dec-21								· · · · · · · · · · · · · · · · · · ·										
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	WB - D&BI Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23-Jul-21 A	1 1	· · · ·			· · ·			WB -	1 1			+ Excavatio	n					
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		24	13-Aug-21	09-Sep-21	04-Oct-21	01 - Nov-21									٦	· · · · · · · · · · · · · · · · · · ·		▼ Tur	nel Structur	e WB Type A				
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TUNNEL E&M INSTALLATION & COMMISSIONING 42 17-Sep-21 08-Nov-21 01-Nov-21 18-Dec-21																			•					
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Cable Trunking and Tray Installation 36 25-Sep-21 08-Nov-21 18-Dec-21											, , , , , , , , , , , , , , , , , , ,													
Cable Pulling 24 11-Oct-21 08-Nov-21 22-Nov-21 18-Dec-21		24	11-Oct-21	U8-Nov-21	22-Nov-21	18-Dec-21																		:

Page 24 of 24 Data Date: 03-Sep-21

Summary Planned Bar

Actual Milestone Actual Work ♦ Baseline Milestone

Baseline Bar

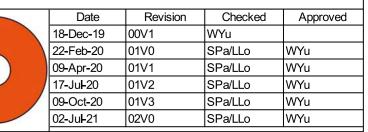
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CriticalActivity

Milestone

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

BOUYGUES TRAVAUX PUBLICS



APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD Monthly Summary Waste Flow Table for 2021 (KT) Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Contract No. ED/2018/04

	Actua	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	Actual	Quantities of	f C&D Waste	s Generated I	Monthly
Month	a.Total Quantity Generated (a=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 ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	22.430	4.842	0.500	21.540	0.390	0.000	173.190	0.200	0.000	0.600	0.130
February	23.765	5.428	0.390	23.240	0.135	0.000	50.360	0.000	0.000	0.000	0.090
March	41.630	5.679	0.000	41.497	0.133	0.000	295.980	0.000	0.000	2.400	0.120
April	26.409	9.446	0.820	24.043	1.546	0.000	273.540	0.660	0.000	3.000	0.100
May	33.370	9.878	0.397	11.781	21.192	0.000	113.200	0.000	0.000	0.000	0.080
June	39.039	5.817	0.450	37.130	1.459	0.000	97.600	0.340	0.000	0.000	0.090
Sub-total	186.642	41.091	2.557	159.230	24.855	0.000	1003.870	1.200	0.000	6.000	0.610
July	6.177	0.000	2.250	0.000	3.927	0.000	40.570	0.400	0.000	0.000	0.127
August	20.108	0.312	0.000	0.312	19.796	0.000	55.520	0.000	0.000	0.000	0.183
September	0.000										
October	0.000										
November	0.000										
December	0.000										
Total	212.927	41.403	4.807	159.542	48.578	0.000	1099.960	1.600	0.000	6.000	0.920

Monthly Summary Waste Flow Table

Notes:

(1) The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual(s).

(2)The waste flow table shall also include C&D materials to be imported for use at the Site.

(3)Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ER Part 8 Clause 8.8.5 (d) (ii) refers).