Civil Engineering and Development Department

Trunk Road T2

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

May 2021

(Version 1.0)

Approved By	Jack
	(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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Ref.: CEDKTDT2EM00_0_0200L.21

16 June 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 (May 2021) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for May 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 16 June 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	Attn.:	Mr. Tommy Wong	By Fax: 2739 0076
	BTP	Attn.:	Mr. Ivan Chau	By Email
	Cinotech	Attn.:	Mr. K. S. Lee	By Fax: 3107 1388

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EXECUTIVE SUMMARY

Introduction

1. This is the 15th 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 May 2021.

Summary of Main Works Undertaken and Key Measures Implemented

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

Kai Tak:

- Depressed Road Capping Beam
- Depressed Road Excavation
- Depressed Road Strut Installation
- Depressed Road RC Structure
- Depressed Road Retaining Wall
- Depressed Road Drainage Installation
- SUS Bulkhead Removal
- SUS Remedial Works
- West Ventilation Building Sheet Pile
- West Ventilation Building King Post Installation
- West Ventilation Building Wells Installation
- Launching Shaft VSL Ground Beam
- Launching Shaft Excavation
- C&C Bulk Excavation
- Road S20 / AMAWBC Road & Drain
- CUE Section 6A RC Structure
- Section 6A Junction & Entrance Sheet Pile
- Road L10 (North) ELS
- Road L18 Sheet Pile
- District Cooling System (DCS) Section 6B
- Foot Bridge (FT-02) H Pile Installation
- Hoi Bun Road Junction Improvement
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Amenities Assembly
- Segment Yard Civil Works
- STP Trenches
- STP Civil Works
- STP Drainage Works
- STP Tanks Erection
- STP Assembly

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 (May 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.

•

Table 1 Summary of Complaint/Summons/Prosecution in the Reporting Month					
Event	Event 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	-	-	-	

Complaint Handling, Prosecution and Public Engagement

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

Reporting Changes

5. The monitoring location KTD2c was proposed to be relocated to new location KTD2d after the review of status and location of monitoring station conducted in between February and March 2021. The aforementioned proposal was submitted to EPD on 9 March 2021 and approved by EPD on 3 May 2021 (EPD reference: () in EP2/K19/A/21 pt. 8). The monitoring location KTD2d was effective from 24 May 2021.

Future Key Issues

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

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

Site Activities (June 2021)	Key Environmental Issues
1. Depressed Road – DCS Pipes Installation	
2. VSL Gantry Crane Setup	
3. S6 Steel Strut	
4. Section 6A Junction RC Structure	(A) / (B) / (C) / (D)
5. Road L10 (North) Excavation	
6. District Cooling System (DCS) Section 7B	
7. Foot Bridge (FT-02) Temporary Ramp Construction	

Note:

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

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

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

(D) Wastewater and runoff discharge from site.

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 between February and March 2021 and the review of status and location of monitoring stations are summarized as follow:

Monitoring Station ID	Review Status	Follow-up Action/ Recommendation
KTD 2c	ET has reviewed the status and location of KTD 2c. To conclude, the location of the present station cannot accurately represent how the sensitive receivers (SR) are being affected by the construction activities, as the construction of such SR is still in progress.	The relocation of KTD 2c to the nearest NSR/ASR is proposed until the SR is built. The proposal has been submitted to EPD in March 2021 and approved on 3 May 2021. The relocation of monitoring station KTD2c to KTD2d was completed on 24 May 2021.
KER1	ET has reviewed the status and location of KER1, KTD 1, CKL1 and CKL2. To	
KTD 1	conclude, the environmental monitoring conducted at KER1, KTD 1, CKL 1 and CKL 2 are appropriate, and the	N/A
CKL 1	monitoring results reflect how the sensitive receiver(s) is/are impacted by	
CKL 2	the construction activities of the Project.	

Table III Summary Table for Review of Status and Location of Monitoring Stations

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

Under Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for 1.4 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 15th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in May 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	
Cinataah	otech Environmental Team	Mr. KS Lee (ETL)	2151 2091	
Uniotech		Ms. Karina Chan	2157 3880	

Table 1.1Key Project Contacts

Party	Role	Contact Person	Phone No.
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Mr. Bryan Lee	5588 3891

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:

- Depressed Road Capping Beam
- Depressed Road Excavation
- Depressed Road Strut Installation
- Depressed Road RC Structure
- Depressed Road Retaining Wall
- Depressed Road Drainage Installation
- SUS Bulkhead Removal
- SUS Remedial Works
- West Ventilation Building Sheet Pile
- West Ventilation Building King Post Installation
- West Ventilation Building Wells Installation
- Launching Shaft VSL Ground Beam
- Launching Shaft Excavation
- C&C Bulk Excavation
- Road S20 / AMAWBC Road & Drain
- CUE Section 6A RC Structure
- Section 6A Junction & Entrance Sheet Pile
- Road L10 (North) ELS
- Road L18 Sheet Pile
- District Cooling System (DCS) Section 6B
- Foot Bridge (FT-02) H Pile Installation
- Hoi Bun Road Junction Improvement
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Amenities Assembly
- Segment Yard Civil Works
- STP Trenches
- STP Civil Works
- STP Drainage Works
- STP Tanks Erection
- STP Assembly

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 May 2021.

Status of Environmental Licensing and Permitting

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

Damait / Linaura Na	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.: CEDD01100)	21 Apr 2021	22 Jul 2021	Valid
Construction Noise Permit		·	
CNP No. (For Portion Depressed Road): GW-RE0050-21	25 Jan 2021	15 Jun 2021	Valid
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0168-21	28 Feb 2021	22 Aug 2021	Valid
CNP No. (For Site Office and Support Area): GW-RE1126-20	14 Jan 2021	14 Jun 2021	Valid

Table 1.3 Summary of Environmental License and Permit

	X7 1º 1	л ч 1	
Permit / License No.	Valid	Status	
Termit / Electise 100.	From	То	Status
CNP No. (For Portion Depressed Road): PP- RE0004-21	5 Feb 2021	3 Aug 2021	Valid
CNP No. (For Launching Shaft and Barging Point): GW-RE0342-21	28 Apr 2021	27 Oct 2021	Valid
CNP No. (For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0404-21	3 May 2021	30 Jun 2021	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)
KTD2c ⁽¹⁾	G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
KTD2d ⁽²⁾	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

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.(2): Monitoring Station KTD2d was effective from 24 May 2021.

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 Farameters of An Quanty Monitoring				
Monitoring Stations	Parameter	Period	Frequency	
KTD1, KTD2c ⁽¹⁾ , KTD2d ⁽²⁾ , KER1, CKL1 & CKL2	1-hour TSP	0700 - 1900	3 times per 6 days (as required in case of complaints)	
KTD1, KTD2c ⁽¹⁾ , KTD2d ⁽²⁾ , KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days	

Table 2.2 Frequency and Parameters of Air Quality Monitoring
--

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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**.

	onitoring Equipment	
Equipment	Model	Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723, 1956, 10595, 1316, 5280)	5
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (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	• Project related construction activities (i.e., Loading
Paediatrics (Children's Hospital)	and unloading of C&D wastes, sheet piling,
KTD 2c - G/IC Zone next to Kwun Tong	crushing of material);
Bypass (Next to the Kowloon Bay Sewage	• Vehicle movement in the site;
Interception Station ⁽¹⁾	• Construction activities at the nearby construction
	sites of New Acute Hospital; and,
KER 1 – Future Residential Development	Road traffic along Shing Fung Road, Shing Cheong
at Kerry Godown	Road, Cheung Yip Street, Kai Hing Road and
	Kwun Tong Bypass.
	• Project related construction activities (i.e., Loading
KTD 2d – Next to the SOR Office of	and unloading of C&D material, crushing of
Trunk Road T2 in Kai Tak Area ⁽²⁾	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

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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 (May 2021), μg/m ³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	36.0
KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station ⁽²⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	79.8
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area ⁽³⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	84.3
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	90.0
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	122.4
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	82.9

Remarks:

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

(2) Monitoring station KTD2c was suspended on 24 May 2021.

(3) Monitoring Station KTD2d was effective from 24 May 2021.

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, KTD2c, 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)
KTD2c ⁽¹⁾	G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)
KTD2d ⁽²⁾	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

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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 3.2	Frequency and Parameters of Noise Monitoring
-----------	--

				8	
Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2c ⁽¹⁾				$L_{10}(30 \text{ min.})$	Free Field Measurement
KTD2d ⁽²⁾	0700-1900 hrs		Once per	dB(A) L ₉₀ (30 min.)	Free Field Measurement
KER1	on normal weekdays	30 minutes	30 minutes week	$\frac{dB(A)}{dB(A)}$ $L_{eq}(30 \text{ min.})$ $dB(A)$	Free Field Measurement
CKL1					Free Field Measurement
CKL2					Free Field Measurement

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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 3.3	Noise Monitoring Equipment
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Equipment	Model	Quantity
	SVAN 957 (Serial no. 23851)	1
Integrating Sound Level Meter	BSWA 308 (Serial no. 570183,	2
	570187)	
Calibrator	ST-120 (Serial no. 181001608,	2
Calibrator	181001636)	

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}, L₉₀ and L₁₀ 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**.

Table 3.4Other Noise Source Identified during Noise Monitoring

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 2c ⁽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 Kwun Tong By-pass; and, Non-project related construction activities at the nearby construction site of New Acute Hospital

Monitoring Stations	Major Noise Source	
KTD 2d ⁽²⁾	• 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 	
	Road traffic along Kai Hing Road.	
KER 1	• 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	

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
KTD1	78	
KTD2c ⁽¹⁾	64	
KTD2d ⁽²⁾	64	75
KER1	65	75
CKL1	72.4	
CKL2	71.4	

Note:

(1): Monitoring station KTD2c was suspended on 24 May 2021.

(2): Monitoring Station KTD2d was effective from 24 May 2021.

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**.

 Table 3.6
 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (May 2021), Leq (30min) dB(A)
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	74.9
KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station ⁽²⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	61.3
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area ⁽³⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	65.1
KER 1 – Future Residential Development at Kerry Godown	KER1	75	73.9
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	70.4
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	71.2

Remarks:

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

(2): Monitoring station KTD2c was suspended on 24 May 2021.

(3): Monitoring Station KTD2d was effective from 24 May 2021.

3.15 The results at CKL2 was 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. And the results at KTD1 was 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 Shing Cheong Road throughout the day. Besides, the result at KER1 and CKL1 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 06, 13, 20 and 27 May 2021 in the reporting month. Site inspection of the IEC was conducted on 20 May 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
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 10.1
 Observations and Recommendations of Site Audit

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**.

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 (April 2021)	14 May 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 DCS Pipes Installation
 - VSL Gantry Crane Setup
 - S6 Steel Strut
 - Section 6A Junction RC Structure
 - Road L10 (North) Excavation
 - District Cooling System (DCS) Section 7B
 - Foot Bridge (FT-02) Temporary Ramp Construction
- 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 15th 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.

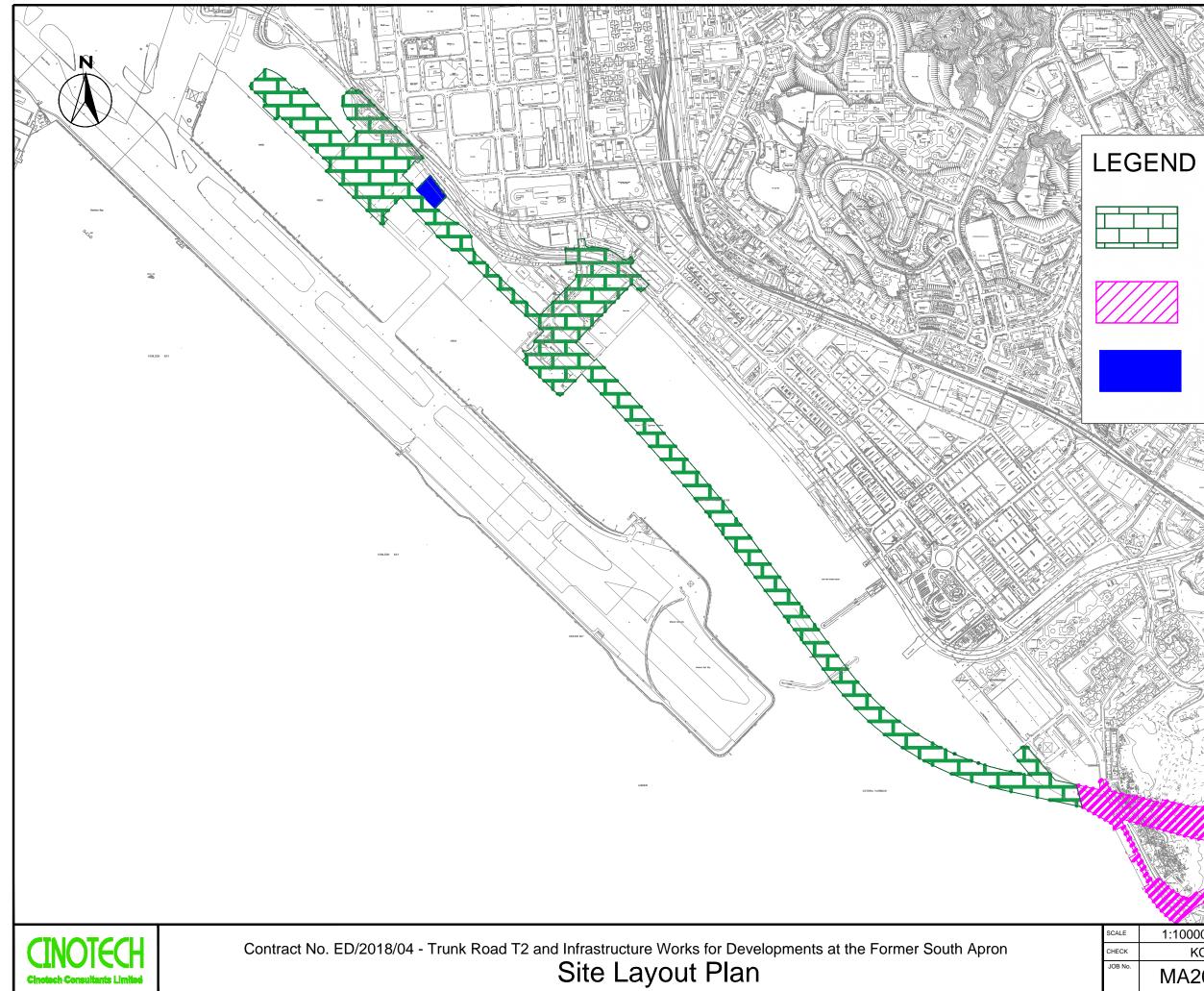
Recommendations

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

Construction Noise Impact

• Noise mitigation measures shall always be implemented on site to minimize the noise nuisance generated from construction activities.

FIGURES



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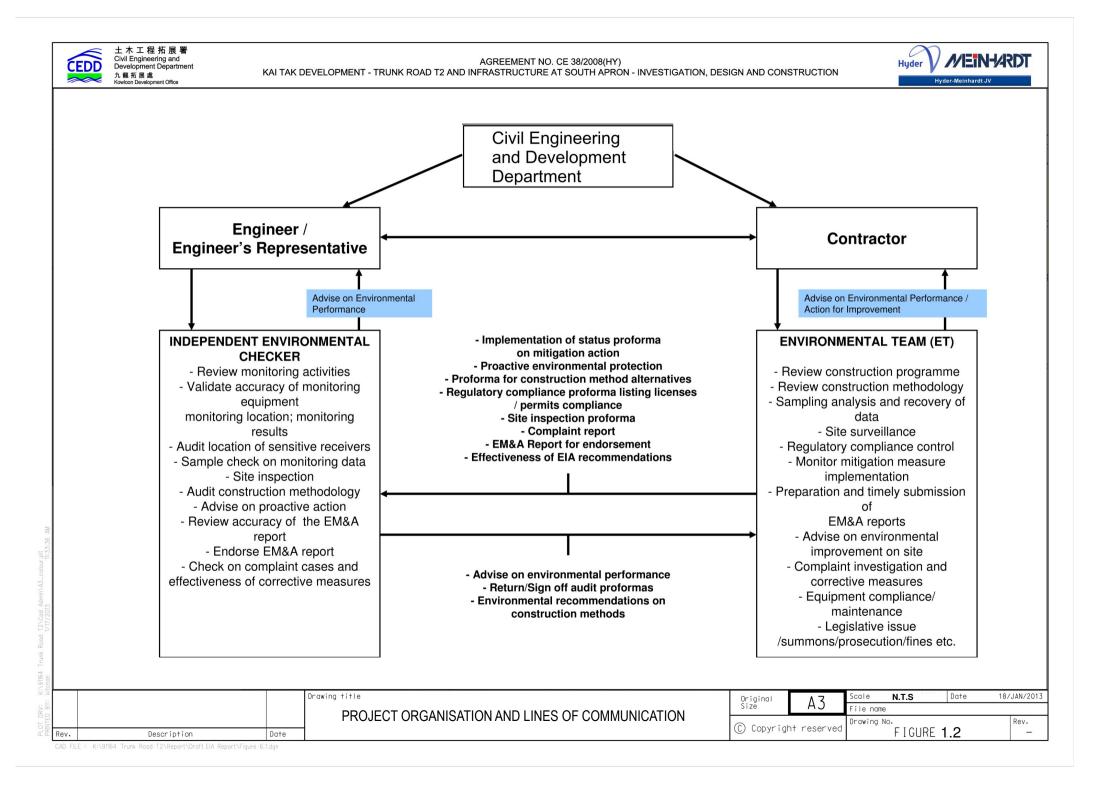
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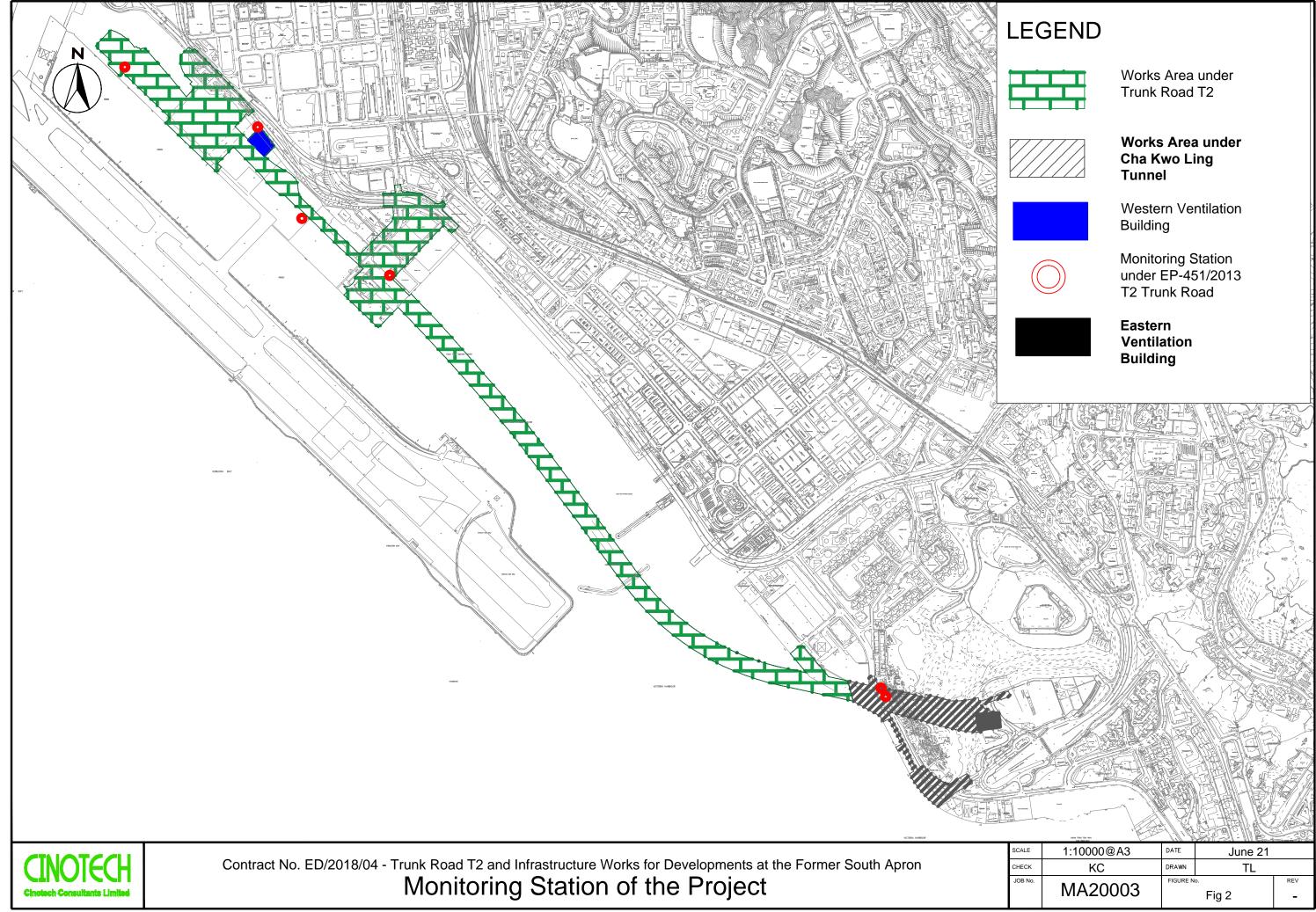
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

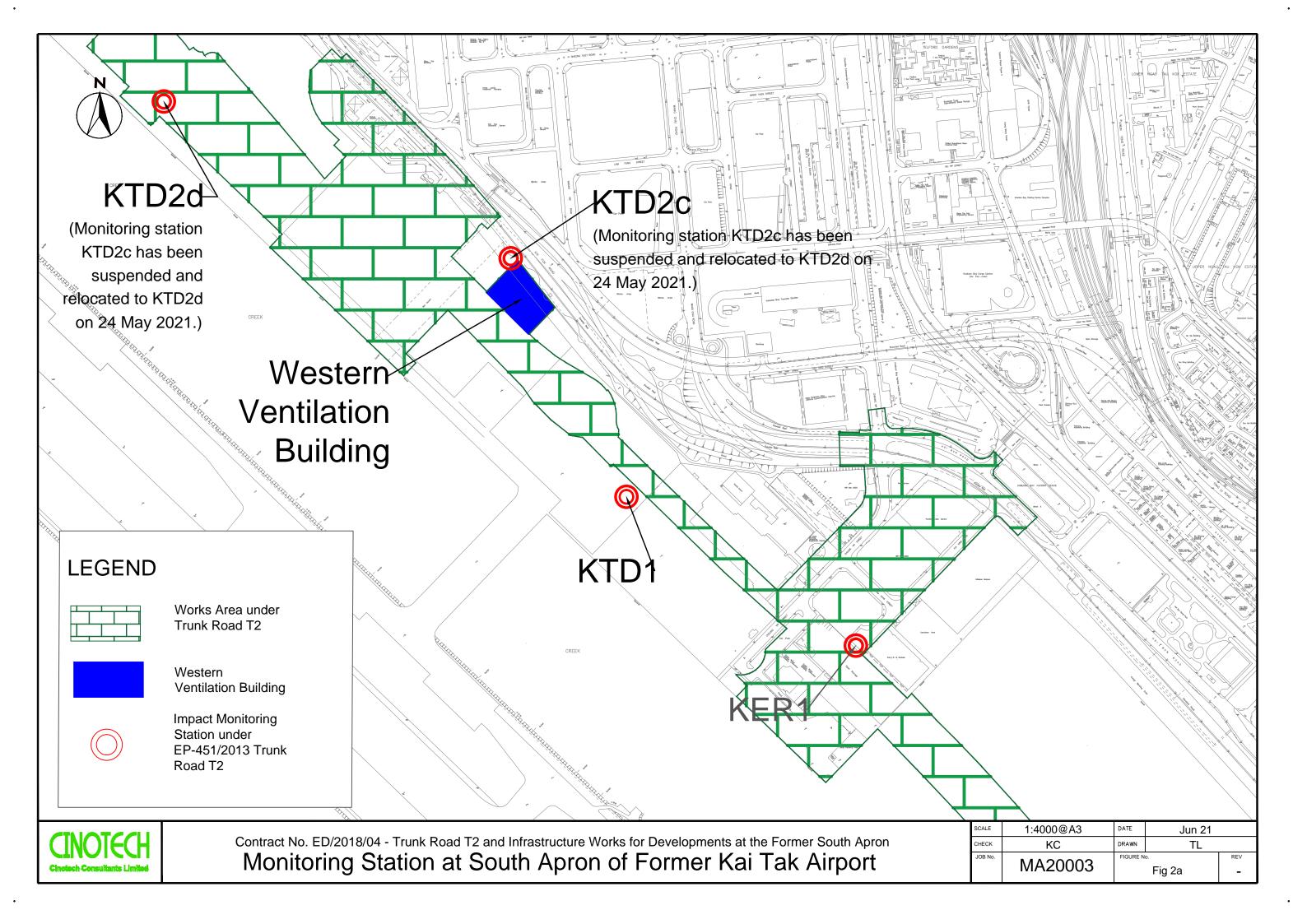
Ventilation Building

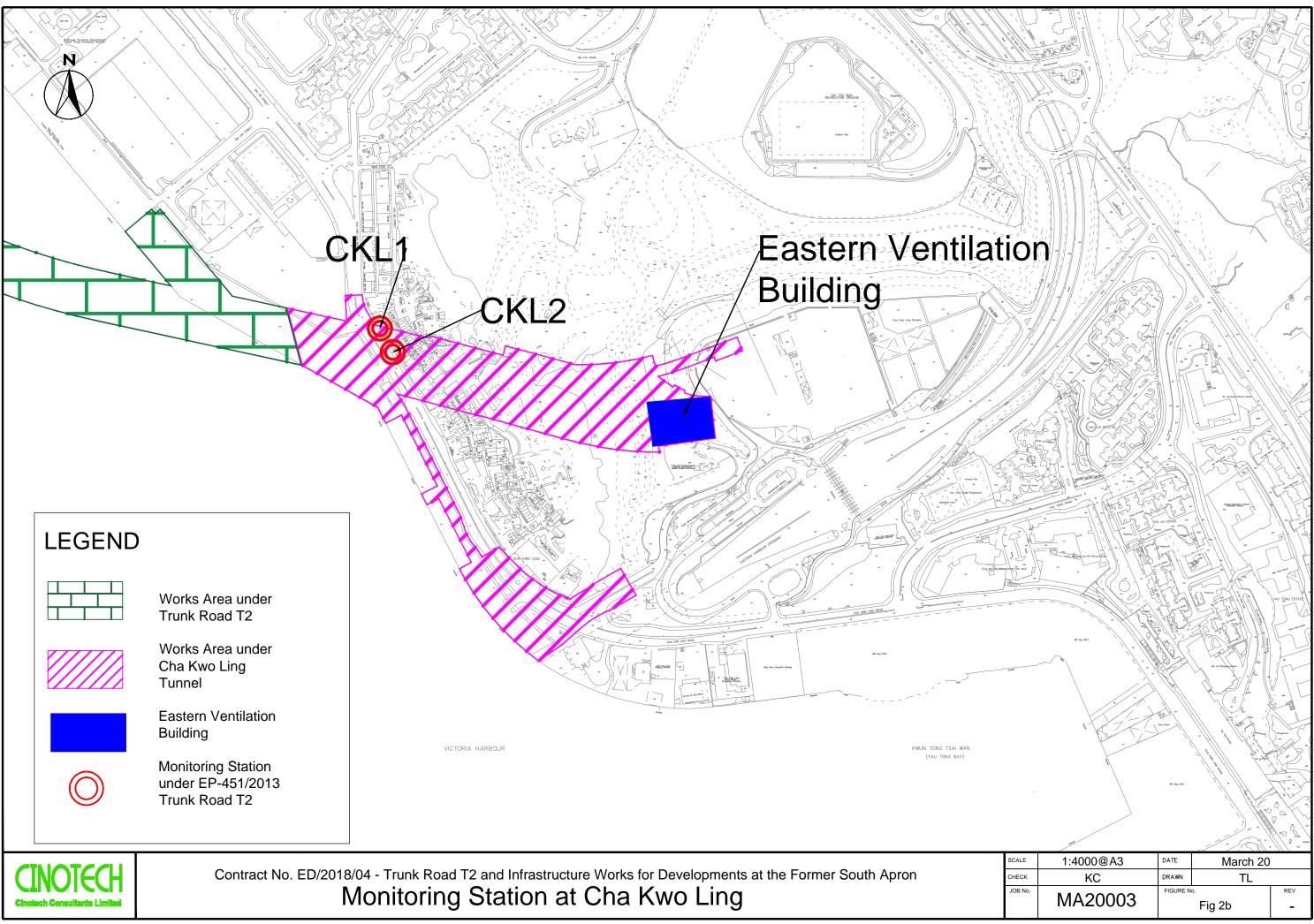
	Constant and Constant of Const			
Ante		1192 - 53 1192 - 53		
V)			SUM: "11" L	
CAN)		- /K		ť~
	1:10000@A3		March 20	
СК		DATE DRAWN	TL	
LE CK 3 No.	1:10000@A3	DATE	TL	REV











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	
KTD2c	279	
KTD2d	279	500
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	
KTD2c	157	
KTD2d	157	260
KER1	172	200
CKL1	191	
CKL2	183	

Table A-3	Action and Limit L	evels 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-May
2-May	3-May	4-May	5-May	6-May	7-May	8-May
			Noise			
		24-hr TSP				
9-May	10-May	11-May	12-May	13-May	14-May	15-May
				, in the second s		
		Noise				
	24-hr TSP					24-hr TSP
16-May	17-May	18-May	19-May	20-May	21-May	22-May
	Noise					
				24-hr TSP		
23-May	24-May	25-May	26-May	27-May	28-May	29-May
				Noise (1)		
			24-hr TSP (1)			
30-May	31-May					
JU-May	51-May					
	24-hr TSP (1)					

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 (May 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, KTD2c, KER1, CKL1 and CKL2)

**24-hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2c, KER1, CKL1 and CKL2)

(1):Monitoring Station KTD2c has been suspended and relocated to KTD2d on 24 May 2021.

Air Quality Monitoring Station

24-hr TSP

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

KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)

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

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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

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

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

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (July 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 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 KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KER1 - Future Residential Development at Kerry Godown KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

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			
8-Aug	9-Aug	10-Aug	11-Aug	12-Aug	13-Aug	14-Aug
	24-hr TSP	Noise				24-hr TSP
15-Aug	16-Aug	17-Aug	18-Aug	19-Aug	20-Aug	21-Aug
	Noise			24-hr TSP		
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				

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

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

Project No.	CKL 1 - Flat 12	21 Cha Kwo Ling	g Village				
Date:	6-N	far-21	Next Due Date:	6-May-21	Operator:	SK	
Equipment No.:	A-01-18		Model No.:	TE 5170	Serial No	0723	
			Ambient Condi	ition			
Temperatu	ıre, Ta (K)	293.7	Pressure, Pa (mml	Hg)	762.9		

File No. MA20003/18/0007

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	f TSP Sampler	·		
		Orfice	- Tot oumpter		HVS	
Calibration 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		760) x (298/Ta)] ^{1/2} Y- axis
1	13.6	3.72	63.72	10.2		3.22
2	11.3	3.39	58.09	7.7		2.80
3	8.5	2.94	50.38	6.0		2.47
4	5.3	2.32	39.80	3.4		1.86
5	3.1	1.78	30.45	1.8		1.35
Slope, mw =	ression of Y on X 0.0550		Intercept, bw	-0.324	15	
	coefficient* =	0.9983	_			
*If Correlation (Coefficient < 0.99	0, check and recalibrate.				
			Calculation			
		urve, take Qstd = 43 CFM				
From the Regres	ssion Equation, the	e "Y" value according to				
		mw x Qstd + bw = $[\Delta W$	x (Pa/760) x (2	298/Ta)] ^{1/2}		
Therefore, S	et Point; W = (my	$w \ge (760 / Pa) = (760 / Pa) \ge (760 / Pa) = (760 / Pa) =$	Ta / 298) =	4.09)	
Remarks:						
Conducted by:	SK Wong	Signature:	U'		Date:	6 March 2021
Checked by:	Henry Leung	Signature:	hay		Date:	6 March 2021

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293.7

Temperature, Ta (K)

File No. MA20003/55/0007

762.9

Project No.	CKL 2 - Flat 103 Cha Kwo	Ling Village							
Date:	6-Mar-21	Next Due Date:	6-May-21	Operator:	SK				
Equipment No.:	A-01-55	Model No.:	Model No.: TE 5170		1956				
	Ambient Condition								

Pressure, Pa (mmHg)

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313							
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	c = [ΔH 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	5				
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	[ΔW x ()	Pa/760) x (298/Ta)] ^{1/2} Y-axis			
1	13.8	3.75	64.18	9.6		3.13			
2	11.3	3.39	58.09	7.3		2.73			
3	8.4	2.92	50.09	5.8		2.43			
4	5.2	2.30	39.42	3.5		1.89			
5	2.8	1.69	28.94	2.0		1.43			
Correlation	Slope , mw = 0.0474 Intercept, bw = 0.0398 Correlation coefficient* = 0.9980 *If Correlation Coefficient < 0.990, check and recalibrate.								
		Set Point C	alculation						
		urve, take Qstd = 43 CFM							
		e "Y" value according to $\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W}]$. , .	/ -					
Therefore, So	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.23					
Remarks:									
Conducted by:	SK Wong	Signature:			Date:	6 March 2021			
Checked by:	Henry Leung	Signature:	La		Date:	6 March 2021			

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Temperature, Ta (K)

294.9

File No. MA20003/04/0005

762

Project No. KER 1 - Future Residential Development at Kerry Godown								
Date:	1-Apr-21	Next Due Date:	1-Jun-21	Operator:	SK			
Equipment No.:	A-01-04	Model No.:	TE 5170	Serial No.	10595			
Ambient Condition								

Pressure, Pa (mmHg)

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			
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	/760) x (298/Ta)] ^{1/2} Y-axis		
1	13.2	3.66	62.61	8.0		2.85		
2	10.8	3.31	56.64	6.3		2.53		
3	8.2	2.88	49.36	4.8		2.21		
4	4.8	2.21	37.78	2.9		1.71		
5	2.8	1.68	28.86	1.9		1.39		
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw =0.0430 Intercept, bw =0.1141 Correlation coefficient* =0.9983 *If Correlation Coefficient < 0.990, check and recalibrate.							
		Set Point (Calculation					
		urve, take Qstd = 43 CFM						
	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:	SK Wong	Signature:	L.		Date:	1 April 2021		
Checked by:	Henry Leung	Signature:	Xoz		Date:	1 April 2021		

File No. MA20003/44/0006

Project No.	KTD1 - Centre of Excellence				
Date:	1-Apr-21	Next Due Date:	1-Jun-21	Operator:	SK
Equipment No.:	A-01-44	Model No.:	TE-5170	Serial No.	1316

Ambient Condition							
Temperature, Ta (K)	294.9	Pressure, Pa (mmHg)	762				

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313							
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H x (Pa/760) x (298/Ta)]$] ^{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	[ΔH 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	13.1	3.64	62.37	9.0	3.02				
2	10.5	3.26	55.85	6.8	2.62				
3	7.9	2.83	48.45	5.3	2.32				
4	5.9	2.44	41.88	3.4	1.86				
5	3.0	1.74	29.88	1.8	1.35				
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = <u>0.0516</u> Intercept, bw = <u>-0.2283</u> Correlation coefficient* = <u>0.9968</u>								
*If Correlation C	Coefficient < 0.990	0, check and recalibrate.							
		Set Point C	alculation						
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM							
From the Regres	sion Equation, the	e "Y" value according to							
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ w x Qstd + bw) ² x (760 / Pa) x (. , .						
Remarks:									
Conducted by:	SK Wong	Signature:			Date: <u>1 April 2021</u>				
Checked by:	Henry Leung	Signature:C	hoy		Date: 1 April 2021				

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File No. MA20003/41/0005

Project No.	KTD 2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)								
Date:	1-A	pr-21	Next Due Date:	1-Jun-2	21 Operator:	SK			
Equipment No.:	A-	01-41	Model No.:	TE 517	70 Serial No.	5280			
Ambient Condition									
Temperatu	re, Ta (K)	294.9	Pressure, Pa (mmF	Ig)	762				

Orifice Transfer Standard Information							
Serial No. 3864 Slope, mc 0.05846 Intercept, bc -0.00313							
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H x (Pa/760) x (298/Ta)]$] ^{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	[ΔH 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	13.2	3.66	62.61	7.5	2.76				
2	10.8	3.31	56.64	6.0	2.46				
3	7.8	2.81	48.14	4.6	2.17				
4	5.4	2.34	40.06	3.5	1.89				
5	2.6	1.62	27.82	2.0	1.42				
Slope , mw = Correlation	By Linear Regression of Y on X Slope , mw = <u>0.0375</u> Intercept, bw = <u>0.3728</u> Correlation coefficient* = <u>0.9984</u> *If Correlation Coefficient < 0.990, check and recalibrate.								
From the TSP Fi	Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM								
	-	$\mathbf{w} = \mathbf{W} + \mathbf{w} = \mathbf{A} \mathbf{W} + \mathbf{b} \mathbf{w} = \mathbf{A} \mathbf{W} + \mathbf{b} \mathbf{w} = \mathbf{A} \mathbf{W} + \mathbf{b} $							
Remarks:									
Conducted by:	SK Wong	Signature:			Date: 1 April 2021				
Checked by:	Henry Leung	Signature:	hay		Date: 1 April 2021				

Project No.	CKL 1 - Flat 12	21 Cha Kwo Ling					
Date:	6-May-21		Next Due Date: 6-Jul-21		Operator:	SK	
Equipment No.:	A-01-18		Model No.:	TE 5170	Serial No.	0723	
			Ambient Condi	tion			
Temperatu	re, Ta (K)	298.2	Pressure, Pa (mmI	Hg)	761.4		

File No. MA20003/18/0008

6 May 2021

Date:

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

Calibration of TSP Sampler						
Calibration		Orfice			HVS	
Point	$\Delta H \text{ (orifice)},$ in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} $ Y- axis	
1	13.4	3.66	62.71	10.3	3.21	
2	11.3	3.36	57.59	7.8	2.79	
3	8.4	2.90	49.66	6.1	2.47	
4	5.4	2.33	39.83	3.3	1.82	
5	3.1	1.76	30.19	1.8	1.34	
Slope, mw =	Linear Regression of Y on X lope , mw =0.0567		Intercept, bw	-0.395	51	
Correlation	coefficient* =	0.9970	_			
*If Correlation (Coefficient < 0.99	0, check and recalibrate.				
From the TSP F	ield Calibration C	urve, take Qstd = 43 CFM	Calculation			
		e "Y" value according to				
riom me Kegres	ssion Equation, in	e i value according to				
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W}$	x (Pa/760) x (2	298/Ta)] ^{1/2}		
Therefore, S	et Point; W = (m	w x Qstd + bw $)^{2}$ x (760 / Pa) x (Ta / 298) =	4.17		
Remarks:						
Conducted by:	SK Wong	Signature:	!		Date: 6 May 2021	

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Checked by: <u>Henry Leung</u> Signature:

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11-Jan-22

Next Calibration Date:

File No. MA20003/55/0008

Project No.	CKL 2 - Flat 103 Cha Kwo					
Date:	6-May-21	Next Due Date:	6-Jul-21	Operator:	SK	
Equipment No.:	A-01-55	Model No.:	TE 5170	Serial No.	1956	
		Ambient Condit	ion			

Temperature, Ta (K)	298.2	Pressure, Pa	(mmHg)	761.4		
	Ori	Orifice Transfer Standard Information				
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313	
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]$] ^{1/2}	

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	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis
1	13.6	3.69	63.17	9.6	3.10
2	11.4	3.38	57.84	7.5	2.74
3	8.4	2.90	49.66	5.9	2.43
4	5.2	2.28	39.08	3.5	1.87
5	2.8	1.67	28.69	1.9	1.38
	coefficient* =	0.9984 0, check and recalibrate.	Intercept, bw = _	-0.032	0
Correlation	coefficient* =	0.9984 0, check and recalibrate.	-	-0.032	0
Correlation *If Correlation (coefficient* = Coefficient < 0.99	0.9984	-	-0.032	0
Correlation If Correlation C From the TSP Fi	coefficient* = Coefficient < 0.990	0.9984 0, check and recalibrate. Set Point C	-	-0.032	0
Correlation If Correlation C From the TSP Fi From the Regres	coefficient* = Coefficient < 0.990 ield Calibration Co ssion Equation, the	0.9984 0, check and recalibrate. Set Point C urve, take Qstd = 43 CFM	- alculation x (Pa/760) x (29		

Remarks:					
Conducted by: S	K Wong	Signature:	BL.	Date:	6 May 2021
Checked by: He	enry Leung	Signature:	- leng dag	Date:	6 May 2021

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File No. MA20003/41/0006

Project No.	KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area						
Date:	26-N	May-21	Next Due Date:	26-Jul-21		Operator:	SK
Equipment No.:	A-01-41		Model No.:	TE	5170	Serial No	5280
	Ambient Condition						
Temperatu	ire, Ta (K)	Ta (K) 299.3 Pressure,				755	

	Or	ifice Transfer Sta	ndard Informa	ation	
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H x (Pa/760) x (298/Ta)]$] ^{1/2}
Next Calibration Date:	11-Jan-22		$\mathbf{Qstd} = \{[\Delta \mathbf{H} \mathbf{x}] \}$	(Pa/760) x (298/Ta)] ^{1/2} -bc} /	mc

Calibration of TSP Sampler						
Calibration		Orfice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/760 Y-a	
1	13.9	3.71	63.48	8.7	2.	93
2	11.3	3.34	57.24	6.9	2.	61
3	8.1	2.83	48.47	5.4	2.	31
4	5.7	2.37	40.67	4.1	2.	01
5	2.7	1.63	28.01	2.3	1.	51
By Linear Regression of Y on X Slope , mw =0.0393 Intercept, bw =0.4057 Correlation coefficient* =0.9987						
), check and recalibrate.	-			
The Correlation C		, check and recardinate.				
		Set Point C	alculation			
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
Therefore, Se	et Point; W = (mv	$\mathbf{mw} \mathbf{x} \mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \mathbf{x}]$ w x Qstd + bw) ² x (760 / Pa) x (98/Ta)] ^{1/2} 4.44		
Remarks:						
Conducted by:	SK Wong	Signature:	~'		Date:	1 June 2021
Checked by:	necked by: <u>KWong</u> Signature: <u>W/L</u> Date: <u>1 June 20</u> Decked by: <u>Henry Leung</u> Signature: <u>Leurg Xxy</u> Date: <u>1 June 20</u>					1 June 2021

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Certificate of Calibration

			Calibration	Certificati	on Informat	tion		
Cal. Date:	January 11	, 2021	Roots	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.	∆Time	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=	0.003	815	QA	b=	0.00199	
		r=	0.999	96		r=	0.99996	
				Calculatio	ns			
	Vstd=	ΔVol((Pa-ΔP))/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			$Qa = Va/\Delta$ Time			
			For subsequ	ent flow ra	te calculatio	ns:		
	Qstd=	1/m ((\\ \[\Delta H (Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	$1/m\left(\sqrt{\Delta H}\right)$	l(Ta/Pa))-b)	
	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



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	eed, 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 Direction (°)		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

APPENDIX D WEATHER INFORMATION

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
		$(\%)^2$	
1-May-21	26.3	76	0.0
2-May-21	26.5	82	1.2
3-May-21	24.3	89	8.8
4-May-21	26.6	84	12.5
5-May-21	26.6	79	0.5
6-May-21	25.2	79	Trace
7-May-21	26.6	77	0.0
8-May-21	27.7	79	0.0
9-May-21	28.3	79	0.0
10-May-21	28.4	76	0.0
11-May-21	29.2	77	Trace
12-May-21	29.6	78	Trace
13-May-21	29.5	79	3.9
14-May-21	30.0	77	0.0
15-May-21	29.9	74	0.0
16-May-21	30.2	74	Trace
17-May-21	30.4	75	0.0
18-May-21	30.2	76	1.3
19-May-21	30.3	75	0.0
20-May-21	30.5	75	0.0
21-May-21	30.7	75	Trace
22-May-21	30.5	77	2.6
23-May-21	31.4	74	Trace
24-May-21	29.8	81	15.7
25-May-21	28.8	83	4.8
26-May-21	30.1	77	4.0
27-May-21	30.3	76	1.0
28-May-21	30.6	77	0.0
29-May-21	30.2	79	0.0
30-May-21	30.3	81	Trace
31-May-21	29.6	84	8.7

Appendix D - Weather Conditions During Impact Monitoring Period

(Reporting Month: May 2021) Remarks:

Source - Hong Kong Observatory

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

May 2021 Wind Speed and Directions			
1 May 2021	12:00 AM	ENE	0.1
1 May 2021	1:00 AM	ENE	0.1
1 May 2021	2:00 AM	SW	0.1
1 May 2021	3:00 AM	E	0.1
1 May 2021	4:00 AM	ESE	0.1
1 May 2021	5:00 AM	NE	0.1
1 May 2021	6:00 AM	SW	0.1
1 May 2021	7:00 AM	SW	0.1
1 May 2021	8:00 AM	WSW	0.1
1 May 2021	9:00 AM	W	0.1
1 May 2021	10:00 AM	SSW	0.1
1 May 2021	11:00 AM	WSW	0.1
1 May 2021	12:00 PM	SSW	0.1
1 May 2021	1:00 PM	SSE	0.1
1 May 2021	2:00 PM	SSW	0.1
1 May 2021	3:00 PM	SSE	0.1
1 May 2021	4:00 PM	ENE	0.1
1 May 2021	5:00 PM	E	0.2
1 May 2021	6:00 PM	ENE	0.2
1 May 2021	7:00 PM	ENE ENE	0.2
1 May 2021 1 May 2021	8:00 PM 9:00 PM	ENE E	0.1
1 May 2021	10:00 PM	 NE	0.1
1 May 2021	10:00 PM	SSW	0.1
2 May 2021	12:00 AM	NW	0.1
2 May 2021 2 May 2021	1:00 AM	NE	0.1
2 May 2021 2 May 2021	2:00 AM	E	0.1
2 May 2021	3:00 AM	ENE	0.2
2 May 2021	4:00 AM	WNW	0.1
2 May 2021	5:00 AM	SSW	0.1
2 May 2021	6:00 AM	NE	0.1
2 May 2021	7:00 AM	ENE	0.1
2 May 2021	8:00 AM	Е	0.1
2 May 2021	9:00 AM	WSW	0.2
2 May 2021	10:00 AM	ENE	0.2
2 May 2021	11:00 AM	WSW	0.2
2 May 2021	12:00 PM	W	1.2
2 May 2021	1:00 PM	W	1.5
2 May 2021	2:00 PM	SW	1.9
2 May 2021	3:00 PM	WNW	0.5
2 May 2021	4:00 PM	WSW	1
2 May 2021	5:00 PM	WSW	0.6
2 May 2021	6:00 PM	ESE	0.1
2 May 2021	7:00 PM	ESE	0.1

May 2021 Wind Speed and Directions			
2 May 2021	8:00 PM	ENE	0.1
2 May 2021	9:00 PM	SW	0.1
2 May 2021	10:00 PM	SW	0.1
2 May 2021	11:00 PM	ESE	0.1
3 May 2021	12:00 AM	W	0.1
3 May 2021	1:00 AM	ENE	0.1
3 May 2021	2:00 AM	NNE	0.1
3 May 2021	3:00 AM	ENE	0.1
3 May 2021	4:00 AM	W	0.1
3 May 2021	5:00 AM	WSW	0.1
3 May 2021	6:00 AM	ENE	0.1
3 May 2021	7:00 AM	ENE	0.1
3 May 2021	8:00 AM	WSW	0.7
3 May 2021	9:00 AM	W	0.3
3 May 2021	10:00 AM	WSW	1.8
3 May 2021	11:00 AM	W	0.7
3 May 2021	12:00 PM	W	2.5
3 May 2021	1:00 PM	WSW	2.6
3 May 2021	2:00 PM	WSW	3.6
3 May 2021	3:00 PM	W	1.7
3 May 2021	4:00 PM	WNW W	1.9 1.3
3 May 2021	5:00 PM 6:00 PM	WSW	0.4
3 May 2021 3 May 2021	7:00 PM	SSW	0.4
	8:00 PM	<u> </u>	0.1
3 May 2021 3 May 2021	9:00 PM	WSW	0.1
3 May 2021	10:00 PM	W	0.2
3 May 2021 3 May 2021	10:00 PM	WSW	0.1
4 May 2021	12:00 AM	WSW	1.3
4 May 2021	1:00 AM	WSW	0.1
4 May 2021	2:00 AM	WNW	0.1
4 May 2021	3:00 AM	W	0.1
4 May 2021	4:00 AM	SSW	0.1
4 May 2021	5:00 AM	NE	0.1
4 May 2021	6:00 AM	WSW	0.1
4 May 2021	7:00 AM	WSW	0.1
4 May 2021	8:00 AM	SSW	0.1
4 May 2021	9:00 AM	W	0.3
4 May 2021	10:00 AM	SSW	0.2
4 May 2021	11:00 AM	W	0.3
4 May 2021	12:00 PM	WSW	0.2
4 May 2021	1:00 PM	WSW	2.8
4 May 2021	2:00 PM	NW	1.4
4 May 2021	3:00 PM	WSW	0.8

	May	2021		
	Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction	
4 May 2021	4:00 PM	SSW	0.7	
4 May 2021	5:00 PM	SW	3.2	
4 May 2021	6:00 PM	SSW	0.7	
4 May 2021	7:00 PM	W	0.1	
4 May 2021	8:00 PM	SSE	0.2	
4 May 2021	9:00 PM	W	0.1	
4 May 2021	10:00 PM	WSW	0.8	
4 May 2021	11:00 PM	WSW	0.2	
5 May 2021	12:00 AM	SW	0.1	
5 May 2021	1:00 AM	SW	0.2	
5 May 2021	2:00 AM	SW	0.1	
5 May 2021	3:00 AM	SW	0.1	
5 May 2021	4:00 AM	NW	0.1	
5 May 2021	5:00 AM	SW	0.1	
5 May 2021	6:00 AM	SSW	0.1	
5 May 2021	7:00 AM	WSW	0.1	
5 May 2021	8:00 AM	S	0.2	
5 May 2021	9:00 AM	WSW	0.5	
5 May 2021	10:00 AM	WSW	1.1	
5 May 2021	11:00 AM	W	1.6	
5 May 2021	12:00 PM	WSW	0.9	
5 May 2021	1:00 PM	SSW	1.1	
5 May 2021	2:00 PM	WSW	2.4	
5 May 2021	3:00 PM	WSW	4.4	
5 May 2021	4:00 PM	S	4.1	
5 May 2021	5:00 PM	WSW	3.2	
5 May 2021	6:00 PM	SSW	0.3	
5 May 2021	7:00 PM	S	0.8	
5 May 2021	8:00 PM	S	0.6	
5 May 2021	9:00 PM	SSW	0.1	
5 May 2021	10:00 PM	SW	0.1	
5 May 2021	11:00 PM 12:00 AM	SW S	0.1	
6 May 2021	12:00 AM 1:00 AM	S S	0.1	
6 May 2021	2:00 AM	SSW	0.1	
6 May 2021 6 May 2021	3:00 AM	E SSW	0.1	
6 May 2021 6 May 2021	4:00 AM	E NE	0.1	
6 May 2021 6 May 2021	5:00 AM	ESE	0.1	
6 May 2021	6:00 AM	E	0.1	
6 May 2021	7:00 AM	NE	0.1	
6 May 2021	8:00 AM	W	0.1	
6 May 2021	9:00 AM	SSW	1.3	
6 May 2021	10:00 AM	SW	3.2	
6 May 2021	10:00 AM 11:00 AM	SSW	3.1	
0 wiay 2021	11.00 AIVI	1100	J.1	

	May	2021	
Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction
6 May 2021	12:00 PM	S	1.1
6 May 2021	1:00 PM	WSW	0.5
6 May 2021	2:00 PM	SW	1.4
6 May 2021	3:00 PM	SW	1.7
6 May 2021	4:00 PM	S	1
6 May 2021	5:00 PM	SSW	1.8
6 May 2021	6:00 PM	SSW	1.2
6 May 2021	7:00 PM	SW	0.1
6 May 2021	8:00 PM	SSW	0.1
6 May 2021	9:00 PM	S	0.1
6 May 2021	10:00 PM	SSW	0.6
6 May 2021	11:00 PM	SSE	0.2
7 May 2021	12:00 AM	SSW	0.3
7 May 2021	1:00 AM	S	0.2
7 May 2021	2:00 AM	SW	0.1
7 May 2021	3:00 AM	SW	0.1
7 May 2021	4:00 AM	SW	1.1
7 May 2021	5:00 AM	Е	0.2
7 May 2021	6:00 AM	NE	0.1
7 May 2021	7:00 AM	SSW	0.1
7 May 2021	8:00 AM	SSW	0.1
7 May 2021	9:00 AM	SSE	0.7
7 May 2021	10:00 AM	S	0.5
7 May 2021	11:00 AM	SW	2
7 May 2021	12:00 PM	WSW	0.7
7 May 2021	1:00 PM	S	0.8
7 May 2021	2:00 PM	WSW	2.1
7 May 2021	3:00 PM	SSW	0.8
7 May 2021	4:00 PM	SSW	0.1
7 May 2021	5:00 PM	S	0.5
7 May 2021	6:00 PM	SW	1
7 May 2021	7:00 PM	SSE SSW	0.3
7 May 2021	8:00 PM 9:00 PM	SSW SW	0.2
7 May 2021	9:00 PM 10:00 PM	SW SW	0.4
7 May 2021 7 May 2021	10:00 PM 11:00 PM	SW SSW	0.1
8 May 2021	12:00 AM	WSW	0.2
8 May 2021 8 May 2021	1:00 AM	SW	0.2
8 May 2021 8 May 2021	2:00 AM	SW	0.2
8 May 2021 8 May 2021	3:00 AM	WSW	0.3
8 May 2021 8 May 2021	4:00 AM	SSW	0.2
8 May 2021 8 May 2021	5:00 AM	<u> </u>	0.0
8 May 2021 8 May 2021	6:00 AM	SW	0.4
8 May 2021 8 May 2021	7:00 AM	SW	0.0
0 wiay 2021	7.00 Alvi	5 11	0.4

	May	2021		
	Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction	
8 May 2021	8:00 AM	SW	1.4	
8 May 2021	9:00 AM	SW	0.1	
8 May 2021	10:00 AM	SSW	0.9	
8 May 2021	11:00 AM	SSW	2.2	
8 May 2021	12:00 PM	SSW	2.2	
8 May 2021	1:00 PM	WSW	1.2	
8 May 2021	2:00 PM	S	1.7	
8 May 2021	3:00 PM	SW	2.1	
8 May 2021	4:00 PM	SW	2.8	
8 May 2021	5:00 PM	WSW	0.6	
8 May 2021	6:00 PM	S	0.2	
8 May 2021	7:00 PM	SSW	0.8	
8 May 2021	8:00 PM	SW	0.3	
8 May 2021	9:00 PM	SW	0.2	
8 May 2021	10:00 PM	SSW	0.3	
8 May 2021	11:00 PM	SSW	0.1	
9 May 2021	12:00 AM	WSW	0.1	
9 May 2021	1:00 AM	SSW	0.1	
9 May 2021	2:00 AM	SW	0.1	
9 May 2021	3:00 AM	SW	0.1	
9 May 2021	4:00 AM	S	0.1	
9 May 2021	5:00 AM	S	0.1	
9 May 2021	6:00 AM	SW	0.1	
9 May 2021	7:00 AM	S	0.1	
9 May 2021	8:00 AM	SW	0.2	
9 May 2021	9:00 AM	W	0.5	
9 May 2021	10:00 AM	WSW	0.7	
9 May 2021	11:00 AM	WSW	0.1	
9 May 2021	12:00 PM	WSW	0.1	
9 May 2021	1:00 PM	SW	2.5	
9 May 2021	2:00 PM	SSW	1.5	
9 May 2021	3:00 PM	SW	2.3	
9 May 2021	4:00 PM	SSW	1.1	
9 May 2021	5:00 PM	SW	2.2	
9 May 2021	6:00 PM	SW	0.9	
9 May 2021	7:00 PM	SSW	0.1	
9 May 2021	8:00 PM	S	0.2	
9 May 2021	9:00 PM	SW	0.1	
9 May 2021	10:00 PM	SSW	0.1	
9 May 2021	11:00 PM	SSW	0.1	
10 May 2021	12:00 AM	SSW	0.1	
10 May 2021	1:00 AM	SSW	0.1	
10 May 2021	2:00 AM	N	0.1	
10 May 2021	3:00 AM	SSW	0.1	

	May	2021		
	Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction	
10 May 2021	4:00 AM	SSW	0.4	
10 May 2021	5:00 AM	SSW	0.1	
10 May 2021	6:00 AM	WNW	0.1	
10 May 2021	7:00 AM	NE	0.1	
10 May 2021	8:00 AM	SW	0.3	
10 May 2021	9:00 AM	WSW	0.9	
10 May 2021	10:00 AM	W	0.6	
10 May 2021	11:00 AM	WNW	1.7	
10 May 2021	12:00 PM	WSW	2.1	
10 May 2021	1:00 PM	NW	1.1	
10 May 2021	2:00 PM	WNW	1.7	
10 May 2021	3:00 PM	E	0.2	
10 May 2021	4:00 PM	NE	1	
10 May 2021	5:00 PM	SE	0.1	
10 May 2021	6:00 PM	SSW	0.1	
10 May 2021	7:00 PM	SSW	0.1	
10 May 2021	8:00 PM	E	0.1	
10 May 2021	9:00 PM	ENE	0.2	
10 May 2021	10:00 PM	SW	0.2	
10 May 2021	11:00 PM	NE	0.2	
11 May 2021	12:00 AM	NNE	0.1	
11 May 2021	1:00 AM 2:00 AM	W SSW	0.1	
11 May 2021 11 May 2021	2:00 AM 3:00 AM	WSW	0.1	
·	4:00 AM	N N	0.1	
11 May 2021 11 May 2021	5:00 AM	N NE	0.1	
11 May 2021 11 May 2021	6:00 AM	NNE	0.1	
11 May 2021 11 May 2021	7:00 AM	SSW	0.1	
11 May 2021 11 May 2021	8:00 AM	WSW	0.1	
11 May 2021	9:00 AM	N	0.1	
11 May 2021	10:00 AM	W	0.1	
11 May 2021	11:00 AM	NNW	0.2	
11 May 2021	12:00 PM	W	0.7	
11 May 2021	1:00 PM	E	0.1	
11 May 2021	2:00 PM	ENE	0.1	
11 May 2021	3:00 PM	ENE	0.2	
11 May 2021	4:00 PM	ESE	0.1	
11 May 2021	5:00 PM	SSW	0.1	
11 May 2021	6:00 PM	ESE	0.1	
11 May 2021	7:00 PM	ENE	0.1	
11 May 2021	8:00 PM	ENE	0.1	
11 May 2021	9:00 PM	NW	8.2	
11 May 2021	10:00 PM	WSW	0.2	
11 May 2021	11:00 PM	ENE	0.2	

	May	2021	
Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction
12 May 2021	12:00 AM	ESE	0.1
12 May 2021	1:00 AM	WSW	0.1
12 May 2021	2:00 AM	SW	0.1
12 May 2021	3:00 AM	SSW	0.1
12 May 2021	4:00 AM	SW	0.1
12 May 2021	5:00 AM	WSW	0.1
12 May 2021	6:00 AM	WSW	0.1
12 May 2021	7:00 AM	ENE	0.4
12 May 2021	8:00 AM	SSE	0.4
12 May 2021	9:00 AM	ENE	0.2
12 May 2021	10:00 AM	NE	0.3
12 May 2021	11:00 AM	NNE	0.5
12 May 2021	12:00 PM	ENE	0.5
12 May 2021	1:00 PM	NNW	0.2
12 May 2021	2:00 PM	NNE	0.1
12 May 2021	3:00 PM	ENE	0.2
12 May 2021	4:00 PM	E	0.1
12 May 2021	5:00 PM	SE	0.1
12 May 2021	6:00 PM	SW	0.1
12 May 2021	7:00 PM	WSW	0.1
12 May 2021	8:00 PM	W	0.1
12 May 2021	9:00 PM	N	0.1
12 May 2021	10:00 PM	WSW	0.1
12 May 2021	11:00 PM	SW	0.1
13 May 2021	12:00 AM	SW	0.1
13 May 2021	1:00 AM	SW	0.1
13 May 2021	2:00 AM	NNE	0.1
13 May 2021	3:00 AM	NNE	0.1
13 May 2021	4:00 AM	SW	0.1
13 May 2021	5:00 AM	WNW	0.1
13 May 2021	6:00 AM	ENE	0.1
13 May 2021	7:00 AM	SSE	0.3
13 May 2021	8:00 AM	ENE	0.1
13 May 2021	9:00 AM	SE	0.1 0.7
13 May 2021	10:00 AM	S ESE	0.7
13 May 2021	11:00 AM 12:00 PM	ESE	
13 May 2021 13 May 2021	12:00 PM 1:00 PM	ESE	0.1
13 May 2021 13 May 2021	2:00 PM	ESE	0.1
13 May 2021	2:00 PM 3:00 PM	E E	0.5
13 May 2021 13 May 2021	4:00 PM	E E	0.3
13 May 2021	5:00 PM	E E	0.4
13 May 2021	6:00 PM	E	0.3
13 May 2021	7:00 PM	ESE	0.1
15 wiay 2021	/.001111	LOL	0.2

May 2021				
	Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction	
13 May 2021	8:00 PM	SSE	0.1	
13 May 2021	9:00 PM	SE	1.9	
13 May 2021	10:00 PM	E	0.1	
13 May 2021	11:00 PM	ENE	0.1	
14 May 2021	12:00 AM	ENE	0.1	
14 May 2021	1:00 AM	ENE	0.1	
14 May 2021	2:00 AM	ESE	0.1	
14 May 2021	3:00 AM	ESE	0.1	
14 May 2021	4:00 AM	E	0.1	
14 May 2021	5:00 AM	E	0.1	
14 May 2021	6:00 AM	SSE	0.1	
14 May 2021	7:00 AM	SE	0.1	
14 May 2021	8:00 AM	ESE	0.1	
14 May 2021	9:00 AM	NE	0.1	
14 May 2021	10:00 AM	ENE	0.1	
14 May 2021	11:00 AM	ENE	0.1	
14 May 2021	12:00 PM	ENE	0.1	
14 May 2021	1:00 PM	E	0.2	
14 May 2021	2:00 PM	SSW	1.2	
14 May 2021	3:00 PM	SSW	0.2	
14 May 2021	4:00 PM	E	0.1	
14 May 2021	5:00 PM 6:00 PM	E ENE	0.1	
14 May 2021 14 May 2021	7:00 PM	ENE	0.1	
14 May 2021 14 May 2021	8:00 PM	ESE	0.1	
14 May 2021	9:00 PM	E	0.1	
14 May 2021	10:00 PM	ESE	0.1	
14 May 2021	10:00 PM	ESE	0.1	
15 May 2021	12:00 AM	ENE	0.1	
15 May 2021	1:00 AM	E	0.1	
15 May 2021	2:00 AM	ENE	0.1	
15 May 2021	3:00 AM	ENE	0.1	
15 May 2021	4:00 AM	ESE	0.2	
15 May 2021	5:00 AM	ENE	0.1	
15 May 2021	6:00 AM	ENE	0.1	
15 May 2021	7:00 AM	ESE	0.1	
15 May 2021	8:00 AM	Е	0.1	
15 May 2021	9:00 AM	S	0.3	
15 May 2021	10:00 AM	SSE	0.2	
15 May 2021	11:00 AM	SE	0.7	
15 May 2021	12:00 PM	SSE	0.1	
15 May 2021	1:00 PM	ESE	0.1	
15 May 2021	2:00 PM	ENE	0.1	
15 May 2021	3:00 PM	SE	0.4	

May 2021 Wind Speed and Directions			
15 May 2021	4:00 PM	NE	0.8
15 May 2021	5:00 PM	SSE	0.3
15 May 2021	6:00 PM	E	0.2
15 May 2021	7:00 PM	ESE	0.2
15 May 2021	8:00 PM	ENE	0.2
15 May 2021	9:00 PM	SE	0.1
15 May 2021	10:00 PM	E	0.1
15 May 2021	11:00 PM	ENE	0.2
16 May 2021	12:00 AM	ENE	0.3
16 May 2021	1:00 AM	NE	0.2
16 May 2021	2:00 AM	ENE	0.1
16 May 2021	3:00 AM	SE	0.1
16 May 2021	4:00 AM	E	0.1
16 May 2021	5:00 AM	N	0.1
16 May 2021	6:00 AM	N	0.1
16 May 2021	7:00 AM	WSW	0.1
16 May 2021	8:00 AM	N	0.1
16 May 2021	9:00 AM	ENE	0.1
16 May 2021	10:00 AM	SW	0.1
16 May 2021	11:00 AM	NW	0.1
16 May 2021	12:00 PM	SSE	0.1
16 May 2021	1:00 PM	ESE	0.1
16 May 2021	2:00 PM	SE	0.2
16 May 2021	3:00 PM	NE	0.1
16 May 2021	4:00 PM	ENE	0.1
16 May 2021	5:00 PM	SSW	0.7
16 May 2021	6:00 PM	E	0.1
16 May 2021	7:00 PM	ENE	0.2
16 May 2021	8:00 PM	ENE	0.1
16 May 2021	9:00 PM	SE	0.1
16 May 2021	10:00 PM	E	0.1
16 May 2021	11:00 PM	E	0.1
17 May 2021	12:00 AM	E	0.1
17 May 2021	1:00 AM	W	0.1
17 May 2021	2:00 AM	ENE N	0.1
17 May 2021	3:00 AM		
17 May 2021 17 May 2021	4:00 AM 5:00 AM	ENE W	0.1 0.2
17 May 2021 17 May 2021	6:00 AM	E vv	0.2
17 May 2021 17 May 2021	7:00 AM	SW	0.2
17 May 2021	8:00 AM	NNW	0.2
17 May 2021 17 May 2021	9:00 AM	W	0.2
17 May 2021	10:00 AM	W	0.1
17 May 2021	11:00 AM	WSW	0.7
1 / Iviay 2021	11.00 AIVI	** 0 **	0.7

May 2021 Wind Speed and Directions					
17 May 2021	12:00 PM	W	1.1		
17 May 2021	1:00 PM	W	0.4		
17 May 2021	2:00 PM	WNW	0.7		
17 May 2021	3:00 PM	WNW	1.9		
17 May 2021	4:00 PM	W	2.7		
17 May 2021	5:00 PM	SW	0.8		
17 May 2021	6:00 PM	SW	2.1		
17 May 2021	7:00 PM	WSW	0.3		
17 May 2021	8:00 PM	SW	0.2		
17 May 2021	9:00 PM	W	0.1		
17 May 2021	10:00 PM	SSW	0.2		
17 May 2021	11:00 PM	WSW	0.2		
18 May 2021	12:00 AM	WSW	0.2		
18 May 2021	1:00 AM	SSW	0.1		
18 May 2021	2:00 AM	WSW	0.2		
18 May 2021	3:00 AM	SSW	0.1		
18 May 2021	4:00 AM	WSW	0.1		
18 May 2021	5:00 AM	SW	0.1		
18 May 2021	6:00 AM	NW	0.1		
18 May 2021	7:00 AM	ENE	0.1		
18 May 2021	8:00 AM	SSW	0.2		
18 May 2021	9:00 AM	NE	0.1		
18 May 2021	10:00 AM	WNW	0.1		
18 May 2021	11:00 AM	SW	0.4		
18 May 2021	12:00 PM	W	0.3		
18 May 2021	1:00 PM	WSW	0.9		
18 May 2021	2:00 PM	WSW	0.9		
18 May 2021	3:00 PM	WNW	1.2		
18 May 2021	4:00 PM	W	1.5		
18 May 2021	5:00 PM	WSW	0.2		
18 May 2021	6:00 PM	SSE	0.1		
18 May 2021	7:00 PM	SSW	0.4		
18 May 2021	8:00 PM	ENE	0.1		
18 May 2021	9:00 PM	WSW	0.1		
18 May 2021	10:00 PM	SE	0.2		
18 May 2021	11:00 PM	SW	0.2		
19 May 2021	12:00 AM	WSW	0.2		
19 May 2021	1:00 AM	E	0.1		
19 May 2021	2:00 AM	E	0.1		
19 May 2021	3:00 AM	Ν	0.1		
19 May 2021	4:00 AM	ENE	0.1		
19 May 2021	5:00 AM	ENE	0.1		
19 May 2021	6:00 AM	ENE	0.2		
19 May 2021	7:00 AM	NNE	0.2		

May 2021 Wind Speed and Directions					
19 May 2021	8:00 AM	Е	0.1		
19 May 2021	9:00 AM	E	0.2		
19 May 2021	10:00 AM	SW	0.1		
19 May 2021	11:00 AM	E	0.2		
19 May 2021	12:00 PM	NE	0.1		
19 May 2021	1:00 PM	SW	0.6		
19 May 2021	2:00 PM	SE	0.2		
19 May 2021	3:00 PM	SSE	0.4		
19 May 2021	4:00 PM	E	0.2		
19 May 2021	5:00 PM	NE	0.3		
19 May 2021	6:00 PM	ENE	0.3		
19 May 2021	7:00 PM	ESE	0.2		
19 May 2021	8:00 PM	E	0.2		
19 May 2021	9:00 PM	ENE	0.2		
19 May 2021	10:00 PM	ENE	0.2		
19 May 2021	11:00 PM	ENE	0.1		
20 May 2021	12:00 AM	ENE	0.1		
20 May 2021	1:00 AM	E	0.1		
20 May 2021	2:00 AM	E	0.1		
20 May 2021	3:00 AM	NE	0.1		
20 May 2021	4:00 AM	ESE	0.1		
20 May 2021	5:00 AM	ENE E	0.1		
20 May 2021	6:00 AM 7:00 AM	E	0.1		
20 May 2021	8:00 AM	E	0.1		
20 May 2021 20 May 2021	9:00 AM	ESE	0.1		
20 May 2021 20 May 2021	10:00 AM	E E	0.1		
20 May 2021 20 May 2021	10:00 AM 11:00 AM	SSW	0.3		
20 May 2021 20 May 2021	12:00 PM	SSE	0.2		
20 May 2021	1:00 PM	E	0.1		
20 May 2021 20 May 2021	2:00 PM	ESE	0.2		
20 May 2021	3:00 PM	ESE	0.0		
20 May 2021	4:00 PM	ESE	0.2		
20 May 2021	5:00 PM	E	0.3		
20 May 2021	6:00 PM	ENE	0.2		
20 May 2021	7:00 PM	SSE	0.1		
20 May 2021	8:00 PM	ESE	0.2		
20 May 2021	9:00 PM	ENE	0.1		
20 May 2021	10:00 PM	ESE	0.1		
20 May 2021	11:00 PM	ENE	0.1		
21 May 2021	12:00 AM	Е	0.2		
21 May 2021	1:00 AM	ENE	0.2		
21 May 2021	2:00 AM	ENE	0.2		
21 May 2021	3:00 AM	SW	0.3		

May 2021						
Wind Speed and Directions						
Date	Time	Wind Speed m-s	Direction			
21 May 2021	4:00 AM	SE	0.3			
21 May 2021	5:00 AM	NE	0.3			
21 May 2021	6:00 AM	ENE	0.3			
21 May 2021	7:00 AM	E	0.3			
21 May 2021	8:00 AM	E	0.5			
21 May 2021	9:00 AM	SE	0.6			
21 May 2021	10:00 AM	SE	0.5			
21 May 2021	11:00 AM	SE	0.3			
21 May 2021	12:00 PM	ESE	0.6			
21 May 2021	1:00 PM	ESE	0.5			
21 May 2021	2:00 PM	E	0.5			
21 May 2021	3:00 PM	E	0.5			
21 May 2021	4:00 PM	E	0.5			
21 May 2021	5:00 PM	E	0.4			
21 May 2021	6:00 PM	SSE	0.4			
21 May 2021	7:00 PM	NE	0.3			
21 May 2021	8:00 PM	E	0.7			
21 May 2021	9:00 PM	ENE	0.3			
21 May 2021	10:00 PM	ESE	0.4			
21 May 2021	11:00 PM 12:00 AM	SSW SSW	0.4			
22 May 2021	12:00 AM 1:00 AM	SSW	0.4			
22 May 2021 22 May 2021	2:00 AM	NW	0.4			
22 May 2021 22 May 2021	3:00 AM	S	0.4			
22 May 2021 22 May 2021	4:00 AM	W	0.4			
22 May 2021 22 May 2021	5:00 AM	WSW	0.4			
22 May 2021	6:00 AM	W	0.5			
22 May 2021	7:00 AM	W	0.5			
22 May 2021	8:00 AM	WSW	0.8			
22 May 2021	9:00 AM	W	2.2			
22 May 2021	10:00 AM	WSW	2.6			
22 May 2021	11:00 AM	W	9.7			
22 May 2021	12:00 PM	WNW	3			
22 May 2021	1:00 PM	W	2.6			
22 May 2021	2:00 PM	SW	0.9			
22 May 2021	3:00 PM	W	0.9			
22 May 2021	4:00 PM	S	0.5			
22 May 2021	5:00 PM	WSW	0.6			
22 May 2021	6:00 PM	SSW	0.6			
22 May 2021	7:00 PM	SW	0.5			
22 May 2021	8:00 PM	SW	0.4			
22 May 2021	9:00 PM	ENE	0.4			
22 May 2021	10:00 PM	NE	0.4			
22 May 2021	11:00 PM	ENE	0.5			

	May	2021									
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
23 May 2021	12:00 AM	Е	0.4								
23 May 2021	1:00 AM	ENE	0.5								
23 May 2021	2:00 AM	NE	0.6								
23 May 2021	3:00 AM	E	0.5								
23 May 2021	4:00 AM	S	0.5								
23 May 2021	5:00 AM	E	0.5								
23 May 2021	6:00 AM	ENE	0.5								
23 May 2021	7:00 AM	ESE	0.5								
23 May 2021	8:00 AM	NE	0.6								
23 May 2021	9:00 AM	E	0.6								
23 May 2021	10:00 AM	E	0.5								
23 May 2021	11:00 AM	ENE	0.6								
23 May 2021	12:00 PM	E	0.8								
23 May 2021	1:00 PM	ESE	0.8								
23 May 2021	2:00 PM	ESE	0.5								
23 May 2021	3:00 PM	E	0.5								
23 May 2021	4:00 PM	E	0.6								
23 May 2021	5:00 PM	E	0.7								
23 May 2021	6:00 PM	ENE	0.3								
23 May 2021	7:00 PM	SE	0.4								
23 May 2021	8:00 PM 9:00 PM	E	0.4								
23 May 2021	9:00 PM 10:00 PM	E E	0.4								
23 May 2021 23 May 2021	10:00 PM 11:00 PM	L NNE	0.4								
23 May 2021 24 May 2021	12:00 AM	ESE	0.3								
24 May 2021 24 May 2021	1:00 AM	ENE	0.3								
24 May 2021 24 May 2021	2:00 AM	E	0.3								
24 May 2021 24 May 2021	3:00 AM	E	0.2								
24 May 2021 24 May 2021	4:00 AM	E E	0.2								
24 May 2021	5:00 AM	ENE	0.2								
24 May 2021 24 May 2021	6:00 AM	E	0.2								
24 May 2021	7:00 AM	ENE	0.2								
24 May 2021	8:00 AM	ENE	0.1								
24 May 2021	9:00 AM	SE	0.1								
24 May 2021	10:00 AM	SE	0.2								
24 May 2021	11:00 AM	NE	0.3								
24 May 2021	12:00 PM	Е	0.4								
24 May 2021	1:00 PM	Е	0.4								
24 May 2021	2:00 PM	Е	0.5								
24 May 2021	3:00 PM	SE	0.4								
24 May 2021	4:00 PM	ENE	0.5								
24 May 2021	5:00 PM	SSE	0.4								
24 May 2021	6:00 PM	Е	0.3								
24 May 2021	7:00 PM	ESE	0.3								

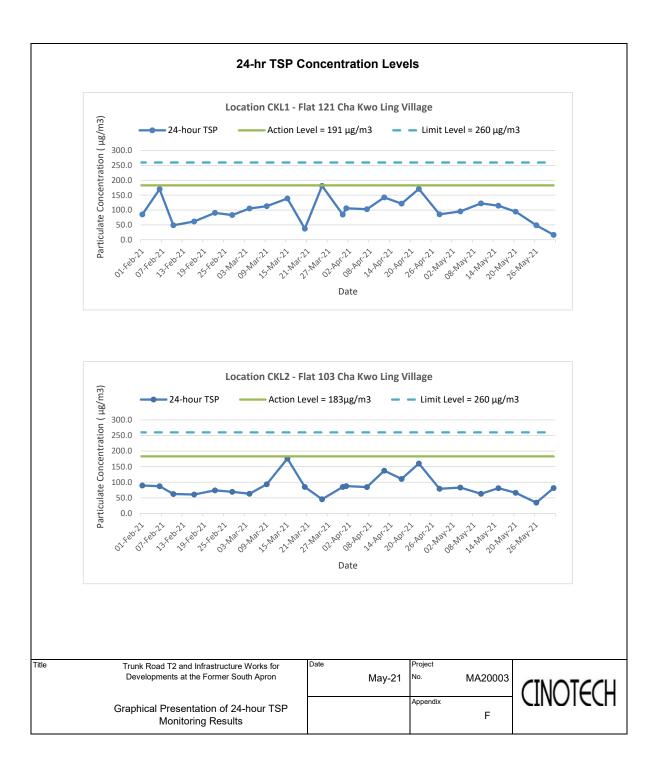
	May	2021									
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
24 May 2021	8:00 PM	ENE	0.2								
24 May 2021	9:00 PM	Е	0.2								
24 May 2021	10:00 PM	Е	0.2								
24 May 2021	11:00 PM	ENE	0.2								
25 May 2021	12:00 AM	ESE	0.1								
25 May 2021	1:00 AM	ENE	0.1								
25 May 2021	2:00 AM	ENE	0.1								
25 May 2021	3:00 AM	E	0.1								
25 May 2021	4:00 AM	ENE	0.1								
25 May 2021	5:00 AM	NE	0.1								
25 May 2021	6:00 AM	ENE	0.1								
25 May 2021	7:00 AM	N	0.1								
25 May 2021	8:00 AM	SSE	0.1								
25 May 2021	9:00 AM	SE	0.1								
25 May 2021	10:00 AM	E	0.1								
25 May 2021	11:00 AM	SSE	0.1								
25 May 2021	12:00 PM	SW	0.2								
25 May 2021	1:00 PM	SW	0.2								
25 May 2021	2:00 PM	E	0.2								
25 May 2021	3:00 PM	ENE	0.3								
25 May 2021	4:00 PM	SSE	0.5								
25 May 2021	5:00 PM	NE	0.2								
25 May 2021	6:00 PM	ESE	0.3								
25 May 2021	7:00 PM	ESE	0.4								
25 May 2021	8:00 PM	SE	0.4								
25 May 2021	9:00 PM	E	0.4								
25 May 2021	10:00 PM	E	0.4								
25 May 2021	11:00 PM	E	0.4								
26 May 2021	12:00 AM	ENE	0.4								
26 May 2021	1:00 AM	SE	0.4								
26 May 2021	2:00 AM	E	0.4								
26 May 2021	3:00 AM	E ENE	0.4								
26 May 2021	4:00 AM		0.3								
26 May 2021 26 May 2021	5:00 AM 6:00 AM	ENE ENE	0.3								
26 May 2021 26 May 2021	7:00 AM	NNE	0.3								
26 May 2021 26 May 2021		SE	0.3								
26 May 2021 26 May 2021	8:00 AM 9:00 AM	E E	0.1								
26 May 2021	10:00 AM	SSE	0.2								
26 May 2021	11:00 AM	W	0.3								
26 May 2021	12:00 PM	SW	2.5								
26 May 2021	12.00 PM	SW	0.5								
26 May 2021	2:00 PM	N N	0.3								
26 May 2021	3:00 PM	SE	0.2								
20 wiay 2021	5.00 I WI	31	0.4								

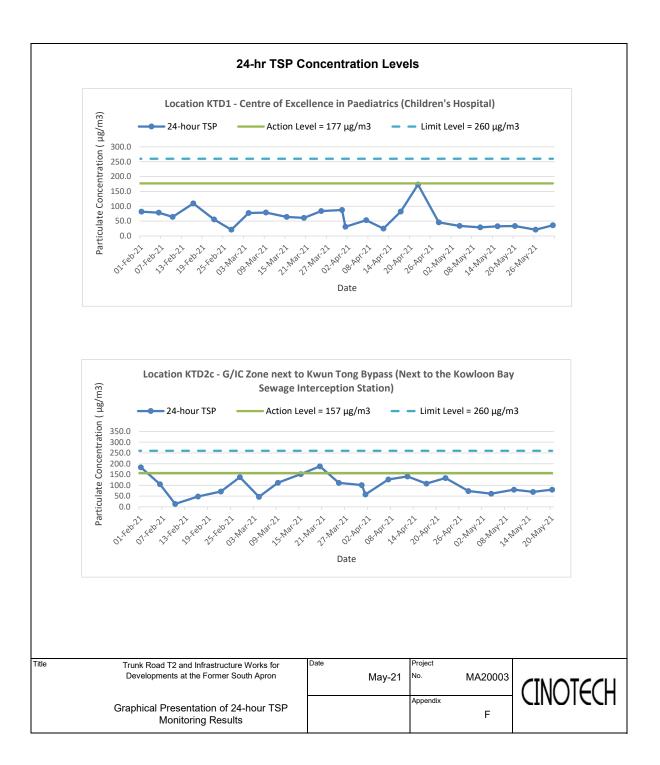
	May	2021									
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
26 May 2021	4:00 PM	ENE	0.6								
26 May 2021	5:00 PM	NE	0.5								
26 May 2021	6:00 PM	ENE	0.5								
26 May 2021	7:00 PM	W	0.4								
26 May 2021	8:00 PM	SW	0.3								
26 May 2021	9:00 PM	SSW	0.3								
26 May 2021	10:00 PM	W	0.3								
26 May 2021	11:00 PM	WSW	0.3								
27 May 2021	12:00 AM	SSW	0.3								
27 May 2021	1:00 AM	WSW	0.2								
27 May 2021	2:00 AM	SW	0.2								
27 May 2021	3:00 AM	SSE	0.2								
27 May 2021	4:00 AM	SW	0.2								
27 May 2021	5:00 AM	NW	0.2								
27 May 2021	6:00 AM	ESE	0.2								
27 May 2021	7:00 AM	ENE	0.2								
27 May 2021	8:00 AM	ESE	0.2								
27 May 2021	9:00 AM	NE	0.1								
27 May 2021	10:00 AM	SE	0.2								
27 May 2021	11:00 AM	ENE	0.3								
27 May 2021	12:00 PM	SE	0.3								
27 May 2021	1:00 PM	WNW	0.4								
27 May 2021	2:00 PM	SW	0.5								
27 May 2021	3:00 PM	WNW	1.1								
27 May 2021	4:00 PM	WSW	0.7								
27 May 2021	5:00 PM	ESE	0.4								
27 May 2021	6:00 PM	E	0.3								
27 May 2021	7:00 PM	E	0.4								
27 May 2021	8:00 PM	ENE	0.4								
27 May 2021	9:00 PM	E	0.4								
27 May 2021	10:00 PM	ENE	0.4								
27 May 2021	11:00 PM	NNE	0.3								
28 May 2021	12:00 AM	NNE	0.3								
28 May 2021	1:00 AM	ENE	0.3								
28 May 2021	2:00 AM	NE	0.2								
28 May 2021	3:00 AM	ENE	0.2								
28 May 2021	4:00 AM	E	0.2								
28 May 2021	5:00 AM	E	0.2								
28 May 2021	6:00 AM	ENE	0.2								
28 May 2021	7:00 AM	NE	0.2								
28 May 2021	8:00 AM	E	0.2								
28 May 2021	9:00 AM	ESE	0.2								
28 May 2021	10:00 AM	ENE	0.4								
28 May 2021	11:00 AM	ENE	0.2								

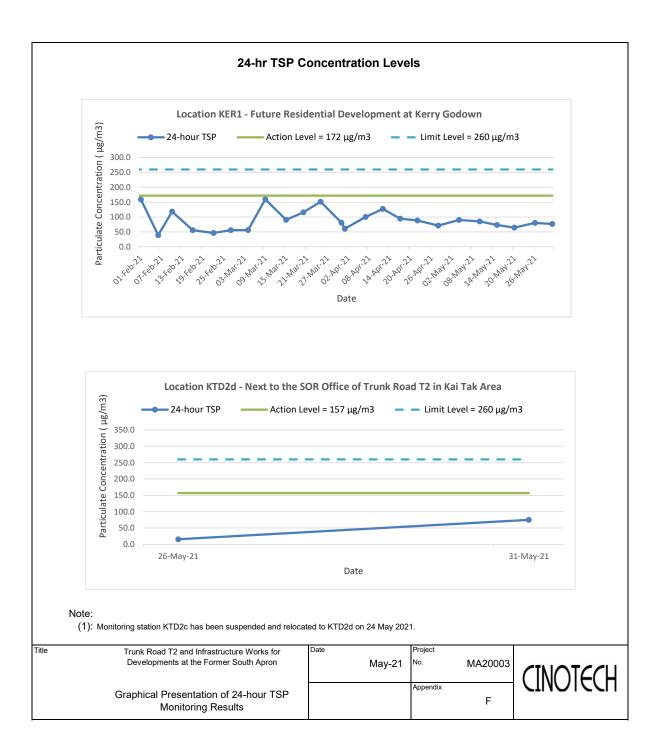
	May	2021									
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
28 May 2021	12:00 PM	E	0.4								
28 May 2021	1:00 PM	SSE	0.8								
28 May 2021	2:00 PM	E	0.5								
28 May 2021	3:00 PM	W	0.6								
28 May 2021	4:00 PM	S	0.9								
28 May 2021	5:00 PM	E	0.5								
28 May 2021	6:00 PM	E	0.6								
28 May 2021	7:00 PM	E	0.5								
28 May 2021	8:00 PM	E	0.5								
28 May 2021	9:00 PM	ENE	0.5								
28 May 2021	10:00 PM	E	0.5								
28 May 2021	11:00 PM	ESE	0.4								
29 May 2021	12:00 AM	ESE	0.4								
29 May 2021	1:00 AM	ESE	0.3								
29 May 2021	2:00 AM	ENE	0.3								
29 May 2021	3:00 AM	ESE	0.2								
29 May 2021	4:00 AM	Е	0.2								
29 May 2021	5:00 AM	ESE	0.2								
29 May 2021	6:00 AM	E	0.2								
29 May 2021	7:00 AM	SE	0.2								
29 May 2021	8:00 AM	SSE	0.2								
29 May 2021	9:00 AM	E	0.3								
29 May 2021	10:00 AM	E	0.3								
29 May 2021	11:00 AM	SSE	0.4								
29 May 2021	12:00 PM	E	0.4								
29 May 2021	1:00 PM	SSE	0.6								
29 May 2021	2:00 PM	SSW	0.6								
29 May 2021	3:00 PM	S	1								
29 May 2021	4:00 PM	ENE	0.4								
29 May 2021	5:00 PM	E	0.5								
29 May 2021	6:00 PM	SE	0.3								
29 May 2021	7:00 PM	SSE	0.3								
29 May 2021	8:00 PM	NE	0.2								
29 May 2021	9:00 PM	NE	0.2								
29 May 2021	10:00 PM	N	0.1								
29 May 2021	11:00 PM	N	0.1								
30 May 2021	12:00 AM	NE	0.1								
30 May 2021	1:00 AM	SE	0.1								
30 May 2021	2:00 AM	NE	0.1								
30 May 2021	3:00 AM	SSE	0.1								
30 May 2021	4:00 AM	SSW	0.2								
30 May 2021	5:00 AM	ESE	0.2								
30 May 2021	6:00 AM	NE	0.2								
30 May 2021	7:00 AM	SSE	0.3								

	May	2021									
Wind Speed and Directions											
Date	Time	Wind Speed m-s	Direction								
30 May 2021	8:00 AM	SSW	0.3								
30 May 2021	9:00 AM	S	0.3								
30 May 2021	10:00 AM	NW	0.3								
30 May 2021	11:00 AM	SW	0.3								
30 May 2021	12:00 PM	S	0.3								
30 May 2021	1:00 PM	Е	0.3								
30 May 2021	2:00 PM	ENE	0.2								
30 May 2021	3:00 PM	ESE	0.5								
30 May 2021	4:00 PM	NE	0.4								
30 May 2021	5:00 PM	ENE	0.4								
30 May 2021	6:00 PM	Е	0.4								
30 May 2021	7:00 PM	NE	0.4								
30 May 2021	8:00 PM	ENE	0.3								
30 May 2021	9:00 PM	Е	0.3								
30 May 2021	10:00 PM	Ν	0.3								
30 May 2021	11:00 PM	Е	0.3								
31 May 2021	12:00 AM	ENE	0.3								
31 May 2021	1:00 AM	NE	0.2								
31 May 2021	2:00 AM	ENE	0.2								
31 May 2021	3:00 AM	Е	0.2								
31 May 2021	4:00 AM	Е	0.2								
31 May 2021	5:00 AM	ENE	0.2								
31 May 2021	6:00 AM	ENE	0.2								
31 May 2021	7:00 AM	Е	0.2								
31 May 2021	8:00 AM	ENE	0.1								
31 May 2021	9:00 AM	Е	0.1								
31 May 2021	10:00 AM	S	1.5								
31 May 2021	11:00 AM	SW	0.8								
31 May 2021	12:00 PM	NE	0.1								
31 May 2021	1:00 PM	SW	1								
31 May 2021	2:00 PM	SSW	1.3								
31 May 2021	3:00 PM	S	0.5								
31 May 2021	4:00 PM	W	1.6								
31 May 2021	5:00 PM	S	0.3								
31 May 2021	6:00 PM	SSW	1								
31 May 2021	7:00 PM	SSW	0.2								
31 May 2021	8:00 PM	SW	0.2								
31 May 2021	9:00 PM	SSE	0.2								
31 May 2021	10:00 PM	SSW	0.1								
31 May 2021	11:00 PM	W	0.2								

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.	A two e e e la e e i e	Filter W	'eight (g)	Particulate	Elaps	e Time	Compliant	Flow Rate	e (m ³ /min.)		Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Atmospheric Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Sampling Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-May-21	Fine	299.6	760.0	3.6437	3.8094	0.1657	2319.8	2343.8	24.0	1.20	1.21	1.20	1734.9	95.5		
10-May-21	Sunny	301.8	757.4	3.7115	3.9244	0.2129	2344.0	2368.0	24.0	1.21	1.21	1.21	1739.9	122.4		
15-May-21	Sunny	303.1	757.8	3.7079	3.9067	0.1988	2368.0	2392.0	24.0	1.21	1.21	1.21	1737.3	114.4	191.0	260.0
20-May-21	Sunny	303.6	757.0	3.7200	3.8843	0.1642	2392.0	2416.0	24.0	1.21	1.20	1.20	1735.9	94.6	191.0	200.0
26-May-21	Sunny	303.2	758.1	3.7022	3.7869	0.0847	2416.0	2440.0	24.0	1.21	1.21	1.21	1737.2	48.8		
31-May-21	Sunny	301.1	755.1	3.6903	3.7185	0.0282	2440.0	2464.0	24.0	1.20	1.21	1.21	1739.5	16.2		
Note:	Bold Italic means A	Action Level exce	edance										Min	16.2		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	122.4		
													Average	82.0		

Location CKL2 - Flat 103 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elapse	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)
4-May-21	Fine	299.6	760.0	3.6501	3.7935	0.1434	14507.4	14531.4	24.0	1.20	1.20	1.20	1729.3	82.9		
10-May-21	Sunny	301.8	757.4	3.6676	3.7770	0.1095	14531.4	14555.4	24.0	1.21	1.21	1.21	1737.4	63.0		
15-May-21	Sunny	303.1	757.8	3.6723	3.8129	0.1406	14555.4	14579.4	24.0	1.20	1.20	1.20	1734.3	81.1	183.0	260.0
20-May-21	Sunny	303.6	757.0	3.6463	3.7610	0.1147	14579.4	14603.4	24.0	1.20	1.20	1.20	1731.8	66.3	103.0	200.0
26-May-21	Sunny	303.2	758.1	3.6848	3.7450	0.0602	14603.4	14627.4	24.0	1.20	1.20	1.20	1734.2	34.7		
31-May-21	Sunny	301.1	755.1	3.7075	3.8486	0.1412	14651.4	14675.4	24.0	1.20	1.21	1.21	1736.9	81.3		
Note:	Bold Italic means A	ction Level exce	edance										Min	34.7		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	82.9		
													Average	68.2		

Appendix F - 24-hour TSP Impact Monitoring Results

	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)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-May-21	Sunny	299.6	760.0	3.7125	3.7714	0.0588	14055.0	14079.0	24.0	1.21	1.21	1.21	1739.8	33.8		
10-May-21	Fine	301.8	757.4	3.6916	3.7413	0.0498	14079.0	14103.0	24.0	1.20	1.20	1.20	1731.5	28.7		
15-May-21	Sunny	303.1	757.8	3.7005	3.7571	0.0565	14103.0	14127.0	24.0	1.20	1.20	1.20	1728.6	32.7	177.0	260.0
20-May-21	Sunny	303.6	757.0	3.6838	3.7414	0.0575	14127.0	14151.0	24.0	1.20	1.20	1.20	1726.4	33.3	177.0	200.0
26-May-21	Sunny	303.2	758.1	3.7050	3.7416	0.0366	14151.0	14175.0	24.0	1.20	1.20	1.20	1728.6	21.2		
31-May-21	Sunny	301.1	755.1	3.6672	3.7295	0.0623	14175.0	14199.0	24.0	1.20	1.21	1.20	1731.0	36.0		
Note:	Bold Italic means A	Action Level exce	edance										Min	21.2		
	Bold Italic with und	lerline means L	imit Level exceedance										Max	36.0		
													Average	31.0		

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

Location KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol	Conc.	Action	Limit
Start Date	Condition		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)
4-May-21	Sunny	299.6	760.0	2.6689	2.7746	0.1058	12492.7	12516.7	24.0	1.20	1.20	1.20	1732.5	61.0		
10-May-21	Fine	301.8	757.4	3.7019	3.8393	0.1373	12516.7	12540.7	24.0	1.20	1.19	1.20	1721.1	79.8	157.0	260.0
15-May-21	Sunny	303.1	757.8	3.7085	3.8284	0.1199	12540.7	12564.7	24.0	1.19	1.19	1.19	1717.2	69.8	137.0	200.0
20-May-21	Fine	303.6	757.0	3.7172	3.8535	0.1363	12564.7	12588.7	24.0	1.19	1.19	1.19	1714.1	79.5		
Note:	Bold Italic means A	ction Level exce	edance										Min	61.0		
	Bold Italic with und	erline means L	imit Level exceedance										Max	79.8		
	Monitoring station K	TD2c has been :	suspended and relocated to KT	D2d on 24 May	2021.								Average	72.5		

Location KER1 - Future Residential Development at Kerry Godown

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elaps	e Time	Compling	Flow Rate	e (m ³ /min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition		Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Sampling Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
4-May-21	Sunny	299.6	760.0	3.6900	3.8461	0.1561	11652.8	11676.8	24.0	1.20	1.20	1.20	1734.4	90.0		
10-May-21	Sunny	301.8	757.4	3.6983	3.8453	0.1470	11676.9	11700.9	24.0	1.20	1.20	1.20	1724.6	85.2		
15-May-21	Sunny	303.1	757.8	3.7054	3.8315	0.1261	11700.9	11724.9	24.0	1.20	1.19	1.20	1721.2	73.3	172.0	260.0
20-May-21	Sunny	303.6	757.0	3.7069	3.8173	0.1104	11724.9	11748.9	24.0	1.19	1.19	1.19	1718.5	64.3	172.0	200.0
26-May-21	Sunny	303.2	758.1	3.6250	3.7628	0.1379	11748.9	11772.9	24.0	1.20	1.20	1.20	1721.1	80.1		
31-May-21	Sunny	301.1	755.1	3.6422	3.7740	0.1318	11772.9	11796.9	24.0	1.19	1.20	1.20	1724.0	76.5		
Note:	Bold Italic means A	ction Level exce	edance										Min	64.3		
	Bold Italic with und	erline means L	imit Level exceedance										Max	90.0		
]	
													Average	78.2		

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

	Weather	Air Temp.	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. Flow	Total vol	Conc.	Action	Limit
Start Date	Condition		Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	. 3.	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
26-May-21	Sunny	303.2	758.1	3.6502	3.7467	0.0966	12588.7	12612.7	24.0	1.21	1.21	1.21	1742.8	55.4	172.0	260.0
31-May-21	Sunny	301.1	755.1	3.6262	3.7735	0.1472	12612.8	12636.8	24.0	1.21	1.22	1.21	1746.2	84.3	172.0	200.0
Note:	Bold Italic means A	ction Level exce	edance										Min	55.4		
	Bold Italic with und	erline means L	imit Level exceedance										Max	84.3		
	Monitoring station K	TD2c has been s	suspended and relocated to KT	D2d on 24 May	2021.								Average	69.9	1	

APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



0025914

Customer : Cinotech Consultants Limited RM 1710, Technology Park,		Object 1 : Serial No. /Ref. No. : Object 2 :	Microphone
18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005		Serial No. /Ref. No. : Manufacturer : Sva	
Date of calibration: Date of the recommended re-calibration:	22/01/2021 22/01/2022	Certificate No.: Handle by:	0025914 E0002

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
	94.0dB	93.6dB	-0.4dB	+/- 1.5dB	1
ſ	114.0dB	113.5dB	-0.5dB	+/- 1.5dB	1

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

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

5. The calibrations certificate may not be reproduced.

Measured value(s)

the allowable deviation.

Performed by

Calibration Technician

Approved by

Quality Manager



0024993

Customer :		Object 1 : BSWA 308 SLM
Cinotech Consultants Limited		Serial No. /Ref. No. : 570183 / 550233
RM 1710, Technology Park,		Object 2 :
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No. :
Hong Kong		
Customer Code : SVEC09005		Manufacturer : BSWAtech
Date of calibration:	07/10/2020	Certificate No.: 0024993
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.4dB	-0.6dB	+/- 1.5dB	1
114.0dB	113.2dB	-0.8dB	+/- 1.5dB	1

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Appleone Calibration Laboratory Ltd.

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

5. The calibrations certificate may not be reproduced.

Measured value(s) within the allowable deviation.

Performed by
Calibration Technician Mr. K.L. Ng

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393



0024995

Customer :		Object 1 : BSWA 308 SLM	
Cinotech Consultants Limited		Serial No. /Ref. No. : 570187 / 550841	
RM 1710, Technology Park,		Object 2 :	
18 On Lai Street, Shatin, N.T.		Serial No. /Ref. No.	
Hong Kong			
Customer Code : SVEC09005		Manufacturer : BSWAtech	
Date of calibration:	07/10/2020	Certificate No.: 0024995	
Date of the recommended re-calibration:	07/10/2021	Handle by: E0002	

Measuring results

	Reference value	Indication value	Deviation	Allowed deviation	Object
Γ	94.0dB	93.1dB	-0.9dB	+/- 1.5dB	1
ſ	114.0dB	113.1dB	-0.9dB	+/- 1.5dB	1

Measuring equipment

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

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

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

Uncertainty

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

Conformity

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

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

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

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

4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories. 5. The calibrations certificate may not be reproduced.

Measured value(s)

Calibration Technician

the allowable deviation.

Performed by

Approved by

Mr. K.S. Ng

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, KIn, HKSAR

Mr. K.L. Ng

Tel: +852 2370 4437 Fax: +852 2114 0393



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



0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong		Object 1 :ST-120 sound calibratorSerial No. /Ref. No. :181001636Object 2 :Serial No. /Ref. No. :		
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

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CKL1	Location CKL1 - Flat 121 Cha Kwo Ling Village										
				Unit: dB	(A) (30-min)						
Date	Time	Weather	Measured Noise Lev	sured Noise Level Baseline Level		Construction Noise Level					
Dato	11110	rioution									
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}				
5-May-21	14:00	Sunny	70.0	73.3	57.8	72.4	70 Measured ≦ Baseline				
11-May-21	15:30	Sunny	70.4	72.9	68.5	72.4	70.4 Measured ≦ Baseline				
17-May-21	15:30	Sunny	69.3	71.2	66.3	72.4	69.3 Measured \leq Baseline				
27-May-21	15:30	Sunny	69.0	71.6	67.5	72.4	69 Measured ≦ Baseline				

Location CKL2 - Flat 103 Cha Kwo Ling Village

Estation SKEE - Flat 105 Sha Kwo Eling Finage									
				Unit: dB	(A) (30-min))			
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level		
Date	Time	Weather							
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
5-May-21	14:30	Sunny	68.6	71.8	60.6	71.4	68.6 Measured ≦ Baseline		
11-May-21	15:00	Sunny	71.2	73.1	69.0	71.4	71.2 Measured ≦ Baseline		
17-May-21	15:00	Sunny	70.7	73.2	67.2	71.4	70.7 Measured ≦ Baseline		
27-May-21	15:00	Sunny	68.7	71.4	66.8	71.4	68.7 Measured ≦ Baseline		

Appendix H - Noise Monitoring Results

(0700-1900 hrs	(0700-1900 hrs on Normal Weekdays)										
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)											
					Unit:	dB (A) (30-min)					
Date	Time	Weather	Measured Noise Le	Measured Noise Level		Baseline Level	Construction Noise Level				
Date	11110	Weather	1	La	1	1	1				
			L eq	L ₁₀	L 90	∟ _{eq}	∟ _{eq}				
5-May-21	16:00	Sunny	69.4	71.2	67.9	78.0	69.4 Measured ≦ Baseline				
11-May-21	10:15	Sunny	74.9	76.9	71.4	78.0	74.9 Measured ≦ Baseline				
17-May-21	15:00	Sunny	68.3	71.2	65.4	78.0	68.3 Measured ≦ Baseline				
27-May-21	14:00	Sunny	70.3	73.8	67.2	78.0	70.3 Measured ≦ Baseline				

(0700-1900 hrs on Normal Weekdays)

Location KTD2c - G/IC Zone next to Kwun Tong Bypass (Next to the Kowloon Bay Sewage Interception Station)

Date	Time	Weather	Unit: dB (A) (30-min)						
			Measured Noise Level			Baseline Level	Construction Noise Level		
Duto	Time	Weather							
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
5-May-21	14:00	Sunny	61.3	62.6	58.7	64.0	61.3 Measured ≦ Baseline		
11-May-21	11:55	Sunny	60.7	62.9	57.3	64.0	60.7 Measured ≦ Baseline		
17-May-21	13:00	Sunny	60.8	61.9	59.0	64.0	60.8 Measured ≦ Baseline		

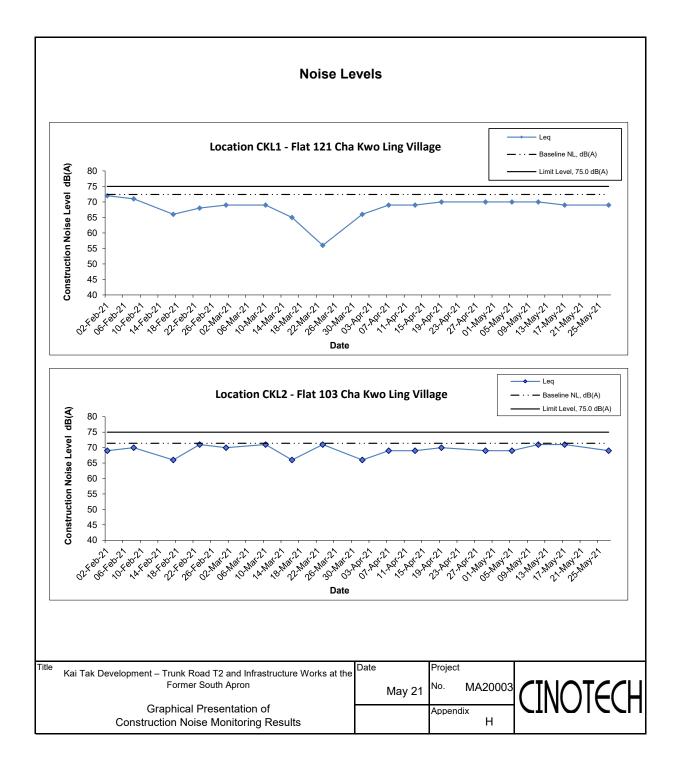
Location KER1 - Future Residential Development at Kerry Godown

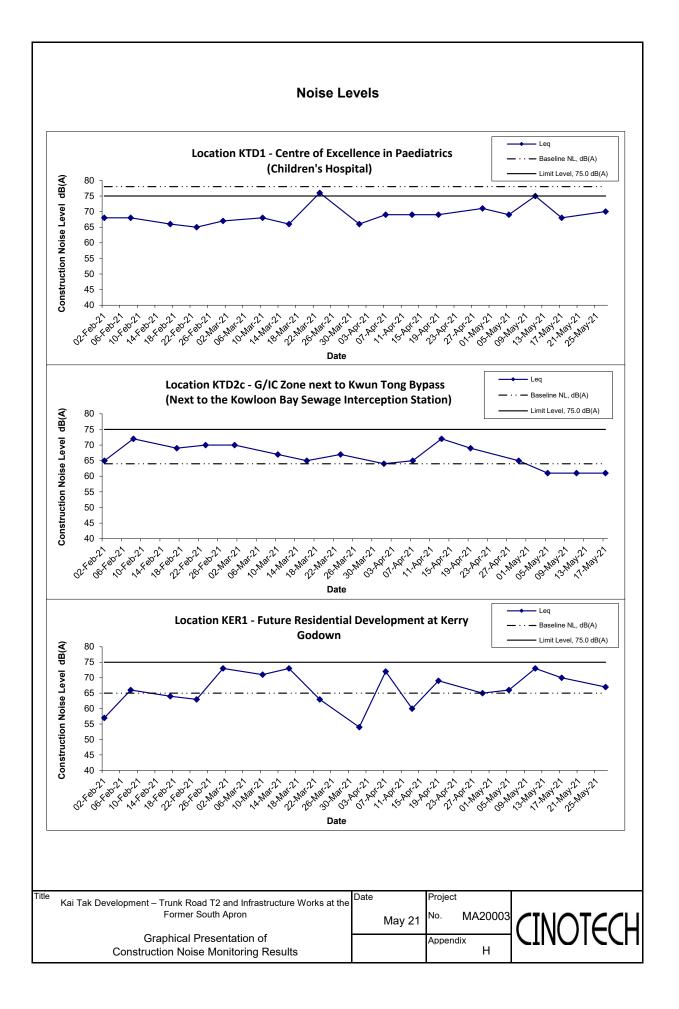
				Unit: dB (A) (30-min)							
Date	Time	Time Weather	Measured Noise Level			Baseline Level	Construction Noise Level				
Date	Time										
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
5-May-21	15:10	Sunny	68.3	70.1	66.1	65.0	66				
11-May-21	11:15	Sunny	73.9	76.8	61.8	65.0	73				
17-May-21	14:00	Sunny	71.5	73.7	67.5	65.0	70				
27-Mav-21	13:00	Sunnv	69.4	71.7	67.5	65.0	67				

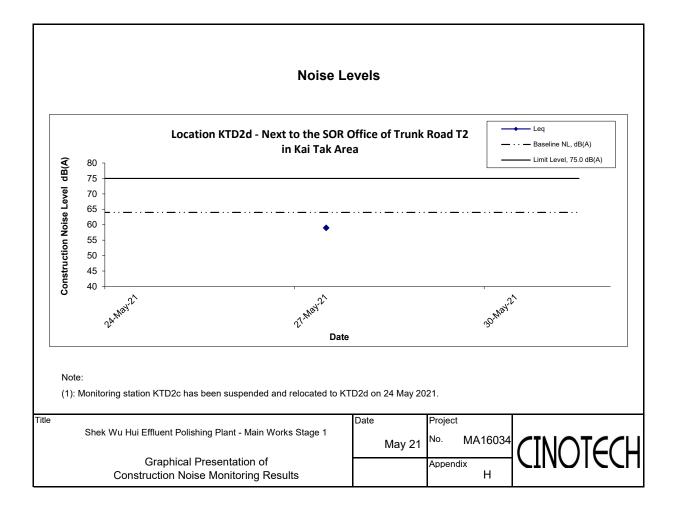
Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area										
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Dute	Time	Time Weather								
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
27-May-21	15:00	Sunny	65.1	69.5	58.0	64.0	59			

Note:

(1): Monitoring station KTD2c has been suspended and relocated to KTD2d on 24 May 2021.







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 210506 Checklist Reference Number 210506 Date 06 May 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 inspection.	
	 <i>I. Others</i> Follow up on the previous session (Ref No.:210429), no major environmental deficiency was identified during site inspection. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	06 May 2021
Checked by	Karina Chan	Zalle	06 May 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	210513	
Date	13 May 2021 (Thursday)	
Time	14:00 - 15:00	

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.:210506), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	13 May 2021
Checked by	Karina Chan	Zalle	13 May 2021

-

None identified

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

Weekly Site Inspection Record Summary Inspection Information 210520 Checklist Reference Number 210520 Date 20 May 2021 (Thursday) Time 09:30 – 12:00

1 11110		0.00 12.00	
Ref. No.	Non-Compliance		Related Item No.

Ref. No.	Remarks/Observations	Related Item No
	<i>B. Water Quality</i>No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	 Follow up on the previous session (Ref No.:210513), no major environmental deficiency was identified during site inspection. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	20 May 2021
Checked by	Karina Chan	Zelle	20 May 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	210527
Date	27 May 2021 (Thursday)
Time	14:00 - 15:00

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.:210520), no major environmental deficiency was identified during site inspection. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	27 May 2021
Checked by	Karina Chan	Zelle	27 May 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;	 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		struction Noise Monitoring	9		
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	Action			
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	1 0			Status
						D	С	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;		All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		^
	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		^
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								^
	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;								^
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;							Ī	٨
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								٨

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	
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	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;								^
	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			n Stages	Status
						D	C	0	
Noise Impact									
\$3.4.1.1	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		~
\$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)
S3.4.1.1	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		^
\$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)
S3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period; Mobile plant, if any, should be sited as far from NSRs as possible; 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; Use of site hoarding as a noise barrier to screen noise at low level NSRs; 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	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^ ^ ^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implei	mplementation Stages		Status
						D	C	0	
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities. 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		I						1 1	
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	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; 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	Impler	nentatio	n Stages	Status
						D	С	0	
	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;								^
	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;								٨
	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;								۸
	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;								٨

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	
	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;								~
	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								٨
	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.								٨

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status	
						D	С	0		
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)	
S4.2.1.1	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:								N/A	
	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;									
	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	1 0		n Stages	Status
						D	С	0	
	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		٨
	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);								۸
	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	Impler	Implementation Stages		mplementation Stages		Status
						D	С	0			
	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 disposal outlets for the residual bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area.								N/A(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	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)		
	generated by turbulence from vessel movement or propeller wash; All hopper barges should be fitted with tight fitting seals to their bottom openings								A		
	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.								٨		
	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		٨		

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
						D	С	0	
S4.2.1.1	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)
\$4.2.1.1	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)
S4.2.1.1	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)
S4.2.1.1	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.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation 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				1			1				
\$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	Implementation Stages		n Stages	Status
						D	C	0	
Landscape and V	visual						1		
\$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		٨
\$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		^
S7.2.1.2	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		^
\$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		^
\$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	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implei	mentatio	n Stages	Status
						D	C	0	
\$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)
S7.2.1.2	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
S7.2.1.2	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				•	•				
\$8.2.1.1 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		Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	С	0	
Waste Managem	ent Implication							11	
\$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 management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.		All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
89.2.1.2	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.		All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures			Relevant Standard or Requirement	Impler	nentatio	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	•	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	
S9.2.1.2	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		^
\$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		۸
S9.2.1.2	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		۸
\$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		۸
\$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	Implementation Stag			Status
						D	С	0	
\$9.2.1.2		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		To minimize, reuse and disposal of C&D materials		Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2		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 1 Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	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.	To properly store the 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			Relevant Standard or Requirement	Impler	nentatio	n Stages	Status	
						D	С	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		٨
\$9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		٨
\$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	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the 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.	f. Recommended Mitigation Measures Objectives of the Recommended Mitigation Measures Objectives of the Recommended Measures & Main Concern to Address		-		Implementation Stages			Status	
						D	С	0	
89.2.1.2	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		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.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		^

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: May 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: May 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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021 January February March April May June July Appendix A
								January February March April May June July Appoint Addust 0 3 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 9
WORKS P	ROGRAMME (01V3)	672	02-Mar-20	11-Jun-22	361	01-Dec-20 A	21-Feb-22	
DESIGN S	UBMISSION & APPROVAL	672	02-Mar-20	11-Jun-22	250	01-Dec-20 A	06-Oct-21	
GENERAL		375	02-Mar-20	09-Jun-21	242	01-Dec-20 A	25-Sep-21	General
	morandum	0	02-Mar-20	02-Mar-20		08-Jan-21 A	29-Jun-21	
	Design Memorandum - 4th Review	0			5	08-Jan-21 A	13-Jan-21 A	Design Memorandum + 4th Review
	2 Design Memorandum - 5th Sub	0			5	14-Jan-21 A	19-Jan-21 A	Design Memorandum - 5th Sub
	P Design Memorandum - 5th Review	0			23	20-Jan-21 A		Design Memorandum - 5th Review
	Design Memorandum - 6th Sub	0			29	19-Feb-21 A		Design Memorandum + 6th Sub
	Design Memorandum - 6th Review	0			19	25-Mar-21 A		Design Memorandum - /6th Review.
	Design Memorandum - 7th Sub	0			22	21-Apr-21 A		Design Memorandum - 7th Sub
	Design Memorandum - 6th Review	0			35	18-May-21 A		Design Memorandum - 6th Review
A22690	Design Memorandum - Approval	0		02-Mar-20	0	10 1110 2111	29-Jun-21	● Design Memorandum - Approval
	on Traffic Impact Assessment - Kai Tak Area	0	10-Jun-20	10-Jun-20		12-Dec-20 A	10-Jul-21	
	CTIA Kai Tak Area - Resubmission	0	10 501120	10 341120	33	12-Dec-20 A		CTIA Kai Tak Area - Resubmission
	CTIA Kai Tak Area - 4th Sub	0			0	12 000 2011	22-Jan-21 A	◆ CTIA Kai Tak Area - 4th Sub
	CTIA Kai Tak Area - 4th Review	0			20	23-Jan-21 A		CTIA Kai Tak Area - 4th Review
	CTIA Kai Tak Area - Resubmission	0			32	12-Feb-21 A		CTIA Kai Tak Area - Resubmission
	CTIA Kai Tak Area - 5th Sub	0			0		24-Mar-21 A	◆ CTIA Kai Tak Area - 5th Sub
	CTIA Kai Tak Area - 5th Review	0			37	25-Mar-21 A		CTIA Kai Tak Area - 5th Review
	CTIA Kai Tak Area - Sui Keview	0			35	03-May-21 A	12-Jun-21	CTIA Kai Tak Area - Resubmission
	CTIA Kai Tak Area - Kesubilitistori	0			0	03-1vidy-21 A	12-Jun-21	◆ CTIA Kai Tak Area √6th Sub
	CTIA Kai Tak Area - 6th Review	0			28	13-Jun-21	12-Juli-21	CTIA Kai Tak Area -6th Review
	CTIA Kai Tak Area - Approval	0		10-Jun-20	0	IS-JUIF2 I	10-Jul-21	◆ CTIA Kai Tak Area - Approval
	As sessment Report	0	07-May-20	07-May-20	139	19-Jan-21 A	13-Jul-21	
	Durability Assessment Report - 5th Sub	0	07-1vidy-20	07-1vid y-20	0	19-JdII-21 A	19-Jan-21 A	◆ Durability Assessment Report - 5th Sub
	Durability Assessment Report - 5th Review	0			29	20-Jan-21 A	25-Feb-21 A	Durability Assessment Report - 5th Review
	Durability Assessment Report - Resubmission	0				20-Jali-21 A 26-Feb-21 A		Durability Assessment Report - Resubmission
	Durability Assessment Report - 6th Sub	0			0	20-FED-21 A	01-Apr-21 A	Durability Assessment Report - 6th Sub
	Durability Assessment Report - 6th Review	0			28	02-Apr-21 A		Durability Assessment Report - 6th Review
						· ·		Durability Assessment Report - Resubmission
	Durability Assessment Report - Resubmission Durability Assessment Report - 7th Sub	0			24	11-May-21 A	08-Jun-21	◆ Durability Assessment Report - 7th Sub
	Durability Assessment Report - 7th Sub	0			0	09-Jun-21	08-Jun-21	Durability Assessment Report - 7th Sub
	Durability Assessment Report - Approval	0		07 May 20	28	09-JUII-21	13-Jul-21 13-Jul-21	◆ Durability Assessment Report - Appr
A22730		0	10 Aug 20	07-May-20		16-Dec-20 A	05-Jun-21	ining Structure
	Western Tunnel Portal and Concrete Finishes for Retaining Struc	50	10-Aug-20	08-Oct-20	136			DDA Further information required by SO
B18010	DDA - Further information required by SO	22	10-Aug-20	03-Sep-20	56	16-Dec-20 A	25-Feb-21 A	◆ DDA - 2nd Sub
B18020	DDA - 2nd Sub	0	04 5 20	03-Sep-20	0	24 Eab 21 A	25-Feb-21 A	DDA - 2nd Sub
B18030	DDA - 2nd Review by SO	35	04-Sep-20	08-Oct-20	100	26-Feb-21 A	05-Jun-21	
B18040	DDA - SO Consent for Construction	0	00.0-1.00	08-Oct-20	0	07 1	05-Jun-21	◆ DDA - SO Consent for Construction
	Footbridge FB-02	78	09-Oct-20	12-Jan-21	78	07-Jun-21	07-Sep-21	ACABAS- Footbridge FB-02
B266491	DDA - Draft - Preparation by Designer	48	09-Oct-20	04-Dec-20	48	07-Jun-21	03-Aug-21	DDA - Draft + Prepa
B266421	DDA - Draft - Final Review and prepare for 1st Sub	30	05-Dec-20	12-Jan-21	30	04-Aug-21	07-Sep-21	
	ation - Building Services and Underground Utilities Design	0	01-Jun-20	01-Jun-20	0	05-Jun-21	05-Jun-21	
B266841	DDA - SO Consent for Construction	0	10 Jun 00	01-Jun-20	0	04 1	05-Jun-21	◆ DDA - SO Consent for Construction
	ation - ABWF	0	19-Jun-20	19-Jun-20	0	04-Jun-21	04-Jun-21	
	DDA - SO Consent for Construction	0	20 May 20	19-Jun-20	0	11 Dec 00 4	04-Jun-21	DDA - SO Consent for Construction
	ct Alignment	0	20-May-20	20-May-20	71	11-Dec-20 A		
	DDA - 3rd Sub	0			0	10 D + 00 4	11-Dec-20 A	
B2596031	DDA - 3rd Review by SO	0			35			DDA - 3rd Review by SO
B2596611	DDA - Further information required by SO	0			11	16-Jan-21 A	28-Jan-21 A	DDA:- Further information required by SO
D (600		1						Date Revision Checked Approved

Page 1 of 26 Data Date: 29-May-21 ilestone

Summary

Actual Milestone
 Actual Work

alActivity

Baseline Milestone

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

BOUYGUES TRAVAUX PUBLICS



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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish		
							-	January 03 10 17 24	February March April May June July August 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 02 19 16 23 30 06 13 20 27 04 11 18 25 01 08 15 22 19
B2596621	DDA - 4th Sub	0			0		28-Jan-21 A		DDA:- 4th Sub
B2596631	DDA - 4th Review by SO	0			42	29-Jan-21 A	11-Mar-21 A		DDA- 4th Review by SO
B11680	DDA - SO Consent for Construction	0		20-May-20	0		11-Mar-21 A	÷;;;	◆ DDA - SO Consent for Construction
AIP Roadw	vorks and Street Furniture	42	01-Oct-20	21-Nov-20	157	10-Dec-20 A	25-Jun-21 r	niture	
B267091	AIP - Further information required by SO	24	01-Oct-20	24-Oct-20	45	10-Dec-20 A	23-Jan-21 A	AIP	Further information required by SO
B267111	AIP - 2nd Sub	0		24-Oct-20	0		23-Jan-21 A	AIP	2nd Sub
B267101	AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	30	25-Jan-21 A	23-Feb-21 A		AIP - 2nd Review by SQ
B2597061	AIP - Further information required by SO	0			34	24-Feb-21 A	29-Mar-21 A	+	AlP - Further; information required by SO
B2597071	AIP - 3rd Sub	0			0		29-Mar-21 A	+	AIP - 3rd Sub
B2597081	AIP - 3rd Review by SO	0			35	01-Apr-21 A	05-May-21 A	+ + + + + + + + + + + - + + - + + - + + - + + - + + - + + - + + - + + - + + + + + + + + + + + + + + + + + + +	AIP - 3rd Review by SO
B2597631	AIP - Further information required by SO	0				06-May-21 A		++	AIP - Further information required by \$0
B2597641	AIP - 4th Sub	0			0		28-May-21 A	+	
B2597651	AIP - 4th Review by SO	0			28	29-May-21 A	25-Jun-21	+	AP - 4th Review by \$O
B267121	AIP - SO Consent for DDA Submission	0		21-Nov-20	0	5	25-Jun-21	+	♦ AIP - SO Consent for DDA Submission
DDA Road	works and Street Furniture	75	23-Nov-20	24-Feb-21	77	26-Jun-21	25-Sep-21	+	✓ DDA Roadworks and Street Furniture
B11690	DDA - Draft - Preparation by Designer	36	23-Nov-20	06-Jan-21	36	26-Jun-21	07-Aug-21	+	DDA - Draft - Pre
B11700	DDA - Draft - Final Review and prepare for 1st Sub	18	07-Jan-21	27-Jan-21	18	09-Aug-21	28-Aug-21	+	
B11710	DDA - 1st Sub	0	07 0411 21	27-Jan-21	0	077 ag 21	28-Aug-21		
B11730	DDA - Review by SO	28	28-Jan-21	24-Feb-21	28	29-Aug-21	25-Sep-21		┉╬┈╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬
B11720	DDA - Review by IP / DC	28	28-Jan-21	24-Feb-21	28	29-Aug-21	25-Sep-21		┉╬╍╌╬╍╌╬┓╸╢╌╴┇╌╴╞╌╌╞╌╴╞╌╴╞╌╴╡╌╴╢╌╴╢╴╴╞╌╴╞╴╴╞╴╴╴╏╴╴╽╴╴╡╌╴╞╶╴╞╶╴╞╶╴╞╶╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞
	Sign, Road Marking & Sign Gantry	0	20 Sull 21 21-Apr-21	21-Apr-21		01-Dec-20 A		+	▼ AIP Traffic Sign, Road,Marking & Sign Gantry
B2596251	AIP - Further information required by SO	0						urther information requi	
B2596271	AIP - 2nd Sub	0			0	UI-DEC-ZU A	21-Dec-20 A	+	
	AIP - 2nd Sub AIP - 2nd Review by SO	0				22-Dec-20 A		+	■ AIP - 2nd Review by SD
		0		01 Apr 01		ZZ-Det-ZU A		+	AIP - SO Consent for DDA Submission
B267201	AIP - SO Consent for DDA Submission	0	22 Mar 21	21-Apr-21	0	20 Jan 21 A	03-Feb-21 A	+	
	t Lighting (AGR/ DPR/ S20/ L10/ L18)	26	23-Mar-21	27-Apr-21		20-Jan-21 A	15-Jun-21		▼ DDA Street Lighting (AGR/ DPR/ \$20/ L10/ L18)
B267641	DDA - 2nd Sub	0	04.04	23-Mar-21	0	01 1 01 4	20-Jan-21 A	◆ 	DDA - 2nd Sub
B267631	DDA - 2nd Review by SO	35	24-Mar-21	27-Apr-21		21-Jan-21 A		+	
	DDA - Further information required by SO	0				09-Feb-21 A		+	DDA - Further information required by SO
	DDA - 3rd Sub	0			0	15 May 01 A	13-Mar-21 A	+	◆ DDÀ - 3rd Sub
B2596801	DDA - 3rd Review by SO	0			32	15-Mar-21 A		+	DDA - 3rd Review by SO
B2597541	DDA - Further information required by SO	0			26	16-Apr-21 A	-	+	DDA - Further information required by SO
B2597561	DDA - 3rd Sub	0			0		17-May-21 A	+	◆ DDA - 3rd Sub
B2597551	DDA - 3rd Review by SO	0				18-May-21 A	14-Jun-21	÷	DDA - 3rd Review by SQ
B267651	DDA - SO Consent for DDA Submission	0		27-Apr-21	0		15-Jun-21		◆ DDA - SO Consent for DDA Submission
	ural Health Monitoring System (SHMS)	59	13-Oct-20	22-Dec-20	48	21-Jan-21 A		tructural Health Monitor	
B267431	AIP - 1st Sub	0		13-Oct-20	0		21-Jan-21 A	◆ AIP -	
B267421	AIP - Review by SO	28	14-Oct-20	10-Nov-20		22-Jan-21 A			
B267491	AIP - Review by IP / DC	28	14-Oct-20	10-Nov-20			09-Feb-21 A		
B267441	AIP - Further information required by SO	12	11-Nov-20	24-Nov-20		06-Feb-21 A			AIP - Further information required by SO
B267461	AIP - 2nd Sub	0		24-Nov-20	0		10-Mar-21 A	· · · · · · · · · · · · · · · · · · ·	♦ AIP - 2nd Sub
B267451	AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20		11-Mar-21 A		· · · · · · · · · · · · · · · · · · ·	AIP 2nd Review by SO
B267471	AIP - SO Consent for DDA Submission	0		22-Dec-20	0		22-Mar-21 A	<u></u>	◆ AIP - SO Consent for DDA Submission
	tural Health Monitoring System (SHMS)	133	23-Dec-20	09-Jun-21		23-Mar-21 A	14-Aug-21		DDA \$trudura Health Monitoring System (SHMS)
B18150	DDA - Draft - Preparation by Designer	36	23-Dec-20	05-Feb-21		23-Mar-21 A		+	DDA - Draft - Preparation by Designer
B18160	DDA - Draft - Final Review and prepare for 1st Sub	24	06-Feb-21	09-Mar-21	7	06-May-21 A		+	DDA:- Dra <mark>it</mark> Final Review and prepare for 1st Sub
B18170	DDA - 1st Sub	0		09-Mar-21	0		13-May-21 A		♦ DDA- 1st Sub
B18200	DDA - Review by SO	28	10-Mar-21	06-Apr-21	28	14-May-21 A	10-Jun-21		DDA- Review by SO
B18180	DDA - Review by IP / DC	28	10-Mar-21	06-Apr-21	28	14-May-21 A	10-Jun-21		DDA- Review by IP / DC
B18210	DDA - Further information required by SO	24	07-Apr-21	05-May-21	24	11-Jun-21	10-Jul-21		DDA - Further information; required by S
D 0 (00	Milestone								Date Revision Checked Approved
Page 2 of 26									
Data Date: 29	9-May-21 CriticalAdivity		D/201	8/04 I	run	к коа	a 12 ar	na intrast	TUCIURE VVORKS
	Actual Milestone			for Γ)ev	elonm	ents at	South A	BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
									09-Apr-20 01V1 SPa/LLo WYu
41	Saseline Milestone								

🔷 Baseline Milestone Baseline Bar

for Developments at South Apron

01V2

01V3

17-Jul-20 09-Oct-20

SPa/LLo

SPa/LLo

WYu

WYu

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish								-		2021							
									nuary 17 24	31	February	,	28 07	March 14 21 2	28 04 1	April 11 18 2	5 02 09	May 16 23	June		July 4 11 18	3 25 01	August	22 9
B18220	DDA - 2nd Sub	0		05-May-21	0		10-Jul-21				0/ 11		20 07				♦	10 20			🔶 DDA - 2	2nd Sub	00 10	<u> </u>
B18230	DDA - 2nd Review by SO	35	06-May-21	09-Jun-21	35	11-Jul-21	14-Aug-21	+++					<u>-</u>				·		<mark>-</mark>				📕 DD	A - 2nd
B18240	DDA - SO Consent for Construction	0		09-Jun-21	0		14-Aug-21	++					++						♦				🔶 DD/	A - SØ (
AIP Landso	cape Design	69	29-Aug-20	20-Nov-20	140	14-Dec-20 A	08-Jun-21	++					++							+++				
B267501	AIP - Draft - Final Review and prepare for 1st Sub	12	29-Aug-20	11-Sep-20	12	14-Dec-20 A	29-Dec-20 A	AIP - Draft	- Final Revi	ew and	l prepare l	for 1st	Sub											
B267521	AIP - 1st Sub	0		11-Sep-20	0		29-Dec-20 A	AIP - 1st Su	ub								·							
B267511	AIP - Review by SO	28	12-Sep-20	09-Oct-20	31	30-Dec-20 A	29-Jan-21 A			AIP	Review b	by SO					·							
B267581	AIP - Review by IP / DC	28	12-Sep-20	09-Oct-20	133	30-Dec-20 A	11-May-21 A							· 			·	AIP - Revie	w by IP / DC					
B267531	AIP - Further information required by SO	12	10-Oct-20	23-Oct-20	31	30-Jan-21 A	,	++						AIP - Further	information	required by	SO							
B267551	AIP - 2nd Sub	0		23-Oct-20	0		10-Mar-21 A	+++					•	AIP - 2nd Sut										
B267541	AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	33	11-Mar-21 A							 			AIP - 2nd I	Review by S	 D						
B2597661	AIP - Further information required by SO	0	21 000 20	20 1101 20	24	13-Apr-21 A		++										AIP - Furthe	er information req	uired by SO				
	AIP - 2nd Sub	0			0	··· · · · · · · · · · · · · · · · · ·	11-May-21 A											AIP - 2nd S		·				
	AIP - 2nd Review by SO	0			28	12-May-21 A	,							·}						2nd Review by	SO			
B267561	AIP - SO Consent for Construction	0		20-Nov-20	0	12 may 2171	08-Jun-21												· · · · · · · · · · · · · · · · · · ·	SO Consent for		on:		
	scape Design	87	21-Nov-20	09-Mar-21	89	09-Jun-21	23-Sep-21							DDA Landsca	ne Desian									
B17650	DDA - Draft - Preparation by Designer	42	21-Nov-20	12-Jan-21	42	09-Jun-21	29-Jul-21			-}									++				- Draft - Pre	eparatic
B17650	DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	24	30-Jul-21	29-Jui-21 26-Aug-21	+			 								++					the second se
B17600	DDA - Drait - Final Review and prepare for 1st Sub	24 0	1J-Jair2 I	09-Feb-21	0	JU-JUI-Z I	26-Aug-21 26-Aug-21				<u> </u>													• D
B17700	DDA - Review by SO	28	10-Feb-21	09-Mar-21	28	27-Aug-21	23-Sep-21				···													····
B17700 B17680	DDA - Review by SO DDA - Review by IP / DC	28		09-Mar-21	28	27-Aug-21 27-Aug-21	23-Sep-21 23-Sep-21																	<u>-</u> -
		20	10-Feb-21			0	· ·							·										
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	heckings for temporary cases (Loading / Unloading)	0	08-Jul-20	08-Jul-20	0	12-Jan-21 A	12-Jan-21 A																	
	DDA - SO Consent for Construction	0	22.1.1.2.2	08-Jul-20	0		12-Jan-21 A	•	DDA - SO (vonseni														
	D ROAD [DPR]	163	29-Jul-20	16-Feb-21		11-Dec-20 A		+			····¦····		55ED R0)ad [D;PR]										
	- Horizontal Element + Pump Test + DCRA	0	29-Jul-20	29-Jul-20	43	17-Dec-20 A																		
	DDA - 4th Sub	0			0		17-Dec-20 A	Sub			<u></u> <u>-</u>		 											
	DDA - 4th Review by SO	0			54	18-Dec-20 A							eview by S											
	DDA - SO Consent for Construction	0		29-Jul-20	0		09-Feb-21 A				◆ DDA ·	- SO C	onsent for	Construction										
	- Permanent Structure	30	04-Nov-20	09-Dec-20	97	11-Dec-20 A	15-Apr-21 A	manent Stru	ucture :					·										
B15820	DDA - 2nd Sub	0		04-Nov-20	0		11-Dec-20 A	P	+					·										
B15830	DDA - 2nd Review by SO	35	05-Nov-20	09-Dec-20	20	12-Dec-20 A		DDA- 2nd	d Review by	/¦\$O				·						· · · · · · · · · · · · · · · · · · ·				
B2596371	DDA - Further information required by SO	0			34	02-Jan-21 A	10-Feb-21 A				DDA		er informa	ition required t	by SO					· · · · · · · · · · · · · · · · · · ·				
B2596381	DDA - 3rd Sub	0			0		10-Feb-21 A				◆ DDA	- 3rd S	Sub	·										: : :
B2596391	DDA - 2nd Review by SO	0			64	11-Feb-21 A	15-Apr-21 A										nd Review b			ļ				
B15850	DDA - SO Consent for Construction	0		09-Dec-20	0		15-Apr-21 A			<u>.</u>				·		DDA - S	O Consent f	or Construct	tion	· · · · · · · · · · · · · · · · · · ·				
	- Portal Structure	116	23-Sep-20	16-Feb-21	193	24-Dec-20 A		·						Structure						· · · · · · · · · · · · · · · · · · ·				
B15860	DDA - Draft - Preparation by Designer	30	23-Sep-20	30-Oct-20	24	24-Dec-20 A	23-Jan-21 A	· ÷ ;			aft - Prepa		by Design	er										
B15870	DDA - Draft - Final Review and prepare for 1st Sub	24	31-Oct-20	27-Nov-20	105	25-Jan-21 A	05-Jun-21	ļ						·						raft - Final Revi	ew and prep	pare for 1st S	dr	
B15880	DDA - 1st Sub	0		27-Nov-20	0		05-Jun-21	ļ						·					◆ DDA - 1:	· · · · · · · · · · · · · · · · · · ·				; ;
B15910	DDA - Review by SO	28	28-Nov-20	25-Dec-20	28	06-Jun-21	03-Jul-21	ļ											L		DA - Revie	wby SØ		; ; ;;-
B15890	DDA - Review by IP / DC	28	28-Nov-20	25-Dec-20	28	06-Jun-21	03-Jul-21	ļ						·					L			wby IP / DC		; ; ;;
B15920	DDA - Further information required by SO	12	28-Dec-20	11-Jan-21	12	05-Jul-21	17-Jul-21															DA - Further		require
B15930	DDA - 2nd Sub	0		11-Jan-21	0		17-Jul-21			<u>.</u>												DA - 2nd Sub		· · · ·
B15940	DDA - 2nd Review by SO	35	12-Jan-21	15-Feb-21	35	18-Jul-21	21-Aug-21																	DDA
B15960	DDA - SO Consent for Construction	0		16-Feb-21	0		21-Aug-21																1	DDA
WEST VEN	TILATION BUILDING [WVB]	289	16-Jul-20	07-Jul-21	217	23-Dec-20 A	17-Sep-21	1 1									1 1				VEST VE	ENTILATION	BUILDING	[WVB]
	- ELS Design (DCRA + Dewatering & Pumping Test)	0	02-Dec-20	02-Dec-20	129	28-Dec-20 A	08-Jun-21	ign (DCRA	1 I I I	ng & Pµ	umping Te	est)												
B2596111	DDA - 3rd Sub	0			0		28-Dec-20 A									· · · · · · · · · · · · · · · · · · ·								
B2596121	DDA - 3rd Review by SO	0			14	29-Dec-20 A	11-Jan-21 A		DDA - 3rd R	eview b	oy SO													
D- 0 (00	Milestone																		Date	Revisior		hecked	Approv	ved
Page 3 of 26		-								1		- 1	۰. ۱						05-Nov-19	00V0	WYu		<u>. יראי (</u>	
Data Date: 29	9-May-21 Critical Adivity		D/201	0/U4	run	ік коа	u 12 a	ind Ir	iiras	เทนด	ciur	e v	vork	(S /					18-Dec-19	00V1	WYu			
	Actual Milestone			for [)ev	elopm	ents a	t Soi	Jth A	bra	on					OUYG	UES		22-Feb-20	01V0	SPa/	/LLo	WYu	
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Actual Work

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for Developments at South Apron

TRAVAUX PUBLICS

09-Apr-20

17-Jul-20 09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

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WYu

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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish							2021						
-								03	Januar 1011)		oruary	March	April May 28 04 11 18 25 02 09 16 1	June 23 30 06 13 20 2	27 04	July	25 01	Augus	
B2597091	DDA - Further information required by SO	0			89	12-Jan-21 A	04-May-21 A			., 21	01 07	11 21	20 07 11 21	DDA - Further	information required by SO		11 10	20 01		
B2597111	DDA - 4th Sub	0			0		04-May-21 A							DDA - 4th Sut						
B2597101	DDA - 4th Review by SO	0			35	05-May-21 A	08-Jun-21								DDA - 4th Rev	iew by SO)			
B13900	DDA - SO Consent for Construction	0		02-Dec-20	0		08-Jun-21								◆ DDA - SO Cor	nsent for C	constructio	'n		
DDA WVB	- Accommodation (SoA)	57	13-Nov-20	21-Jan-21	156	30-Dec-20 A	13-Jul-21	1		🔻 DDA V	VVB - Acc	ommodation						¦		
B14380	DDA - Further information required by SO	30	13-Nov-20	17-Dec-20	40	30-Dec-20 A	18-Feb-21 A						Further information rec							
B14390	DDA - 2nd Sub	0		17-Dec-20	0		18-Feb-21 A					DDA	2nd Sub							
B14400	DDA - 2nd Review by SO	35	18-Dec-20	21-Jan-21	18	19-Feb-21 A	08-Mar-21 A						DDA - 2nd Rev	view by SO						
B2597121	DDA - Further information required by SO	0			73	09-Mar-21 A	08-Jun-21								DDA - Further	informatio	on required	bySO		
B2597131	DDA - 3rd Sub	0			0		08-Jun-21								DDA - 3rd Sub					
B2597141	DDA - 3rd Review by SO	0			35	09-Jun-21	13-Jul-21									· · ·	DDA -	3rd Revie	ew,by,SO	
B14410	DDA - SO Consent for Construction	0		21-Jan-21	0		13-Jul-21			◇							♦ DDA -	SO Conse	ent for Con	nstruction
DDA WVB	- Permanent Structure	92	09-Dec-20	07-Apr-21	137	23-Dec-20 A	15-Jun-21	1						DDA WVB Permanent Structure						
B14430	DDA - Draft - Final Review and prepare for 1st Sub	12	09-Dec-20	22-Dec-20	33	23-Dec-20 A	02-Feb-21 A						Review and prepare fo	pr 1st Sub				¦		
B14440	DDA - 1st Sub	0		22-Dec-20	0		02-Feb-21 A				🔶 DDA -	1stSub						¦		
B14470	DDA - Review by SO	28	23-Dec-20	19-Jan-21	45	03-Feb-21 A	19-Mar-21 A]		; <u>;</u> ;	DDA -	- Review by SO						
B14450	DDA - Review by IP / DC	28	23-Dec-20	19-Jan-21	116	03-Feb-21 A	29-May-21 A]					DDA - Reviewby IP / I	DC		¦		
B14480	DDA - Further information required by SO	30	20-Jan-21	26-Feb-21	42	20-Mar-21 A	13-May-21 A								Further information required	by SO :	1			
B14490	DDA - 2nd Sub	0		26-Feb-21	0		13-May-21 A							◆ DDA - :	2nd Sub					
B14500	DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	33	14-May-21 A	15-Jun-21								DDA - 2r	nd Review	by SO			
B14520	DDA - SO Consent for Construction	0		07-Apr-21	0		15-Jun-21							♦	♦ DDA - SO	Consent	for Const	ruction		
DDA WVB	- ABWF	89	23-Dec-20	16-Apr-21	93	31-May-21	17-Sep-21	1						DDA WVB - ABWF				¦		
B14530	DDA - Draft - Preparation by Designer	45	23-Dec-20	19-Feb-21	45	31-May-21	23-Jul-21				¦								raft - Prepa	
B14540	DDA - Draft - Final Review and prepare for 1st Sub	24	20-Feb-21	19-Mar-21	24	24-Jul-21	20-Aug-21										I	; :		DDA -
B14550	DDA - 1st Sub	0		19-Mar-21	0		20-Aug-21	1					♦							◆ DDA -
B14580	DDA - Review by SO	28	20-Mar-21	16-Apr-21	28	21-Aug-21	17-Sep-21	1												
B14560	DDA - Review by IP / DC	28	20-Mar-21	16-Apr-21	28	21-Aug-21	17-Sep-21	1												
DDA WVB	- General Building Plan	58	27-Apr-21	07-Jul-21	156	30-Dec-20 A	13-Jul-21	ļ.						V		▼ D	DA WVB	General	Building Pl	lan
B14700	DDA - Further information required by SO	30	27-Apr-21	02-Jun-21	40	30-Dec-20 A	18-Feb-21 A	·							DDA - Further infor	mation req	quired by S	0		
B14710	DDA - 2nd Sub	0		02-Jun-21	0		18-Feb-21 A					♦			ODA - 2nd Sub					
B14720	DDA - 2nd Review by SO	35	03-Jun-21	07-Jul-21	18	19-Feb-21 A	08-Mar-21 A									þ	DA - 2nd	Review by	y SO	
B2597151	DDA - Further information required by SO	0			73	09-Mar-21 A	08-Jun-21	1							DDA - Further	informatio	on required	by SO		
B2597161	DDA - 3rd Sub	0			0		08-Jun-21	1							DDA - 3rd Sub			; , ,		
B2597171	DDA - 3rd Review by SO	0			35	09-Jun-21	13-Jul-21										DDA -	3rd Revie	wby SO	
B14730	DDA - SO Consent for Construction	0		07-Jul-21	0		13-Jul-21	1								♦	♦ DDA -	SO Conse	ent for Con	nstruction
DDA WVB	- Aesthetic Design	170	16-Jul-20	05-Feb-21	164	18-Feb-21 A	06-Sep-21	:			-V DD/		thetic Design					 		
B2594881	DDA - Draft - Preparation by Designer	48	16-Jul-20	09-Sep-20	59	18-Feb-21 A	03-May-21 A							DDA - Draft - P	reparation by Designer			,		
B2594811	DDA - Draft - Final Review and prepare for 1st Sub	24	10-Sep-20	09-Oct-20	9	04-May-21 A	13-May-21 A								Draft Final Review and pre	pare for 1s	st Sub			
B2594831	DDA - 1st Sub	0		09-Oct-20	0		13-May-21 A					-		◆ DDA	lstSub					
B2594821	DDA - Review by SO	28	10-Oct-20	06-Nov-20	22	14-May-21 A	04-Jun-21								DDA - Review by	\$0		 		
B2594891	DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	22	14-May-21 A	04-Jun-21								DDA - Review by	IP / DC				
B2594841	DDA - Further information required by SO	24	07-Nov-20	04-Dec-20	24	05-Jun-21	05-Jul-21					· · · · · · · · · · · · · · · · · · ·							tion require	ed by SO
B2594861	DDA - 2nd Sub	0		04-Dec-20	0		05-Jul-21									DD)A - 2nd S	ub		
B2594851	DDA - 2nd Review by SO	35	05-Dec-20	08-Jan-21	35	06-Jul-21	09-Aug-21	1											🗖 DDA	- 2nd Rev
B2594921	DDA - 2nd Review by IP	35	05-Dec-20	08-Jan-21	35	06-Jul-21	09-Aug-21	;												- 2nd Rev
B2594911	DDA - Further information required by SO	24	09-Jan-21	05-Feb-21	24	10-Aug-21	06-Sep-21													
SOUTHAP	RONADIT	96	20-Nov-20	18-Mar-21	139	23-Dec-20 A	17-Jun-21	;				,	▼ SOUTI	H APRON ADIT						
DDA Sout	n Apron A dit - DC RA	0	17-Feb-21	17-Feb-21	129	28-Dec-20 A	08-Jun-21					🔻 DDA S	outh Apron Adit - DCR	A						
B2596831	DDA - 3rd Sub	0			0		28-Dec-20 A	DDA -	3rd Sub											
B2596841	DDA - 3rd Review by SO	0			14	29-Dec-20 A	11-Jan-21 A		DDA	A - 3rd Rev	view by SC	<u>></u>						·		
	Milestone									-					Date Re	evision	Che	ecked	Appr	roved
Page 4 of 26	Discussed Barn		<u>י</u> רטי		61 1.1-6	k Dee			ו ו~ד	re et		1100 14			05-Nov-19 00V0		WYu		1	
Data Date: 2	J-May-21 OriticalAdivity		D/201	0/U4 I	run	к коа	uiza	ano	i Int	Iast	UCI	ure v	VOIKS		18-Dec-19 00V1		WYu			
	Actual Milestone			for F)ev	elopm	ents a	at S	Sout	h Ar	oron	1		BOUYGUES	22-Feb-20 01V0		SPa/L		WYu	
1	Actual Work	1								·· · · ·		•		TRAVAUX PUBLICS	00 Apr 20 011/1		SDo/I		14/201	

Actual Work

Baseline Milestone \diamond Baseline Bar

for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

09-Apr-20

17-Jul-20

09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

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WYu

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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021
								January February March April May June July August 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 02 19
B2597181	DDA - Further information required by SO	0			89	12-Jan-21 A	04-May-21 A	DDA - Further information required by SO
B2597201	DDA - 4th Sub	0			0		04-May-21 A	◆ DDA - 4th Sub
B2597191	DDA - 4th Review by SO	0			35	05-May-21 A	08-Jun-21	DDA - 4th Review by SO
B15030	DDA - SO Consent for Construction	0		17-Feb-21	0		08-Jun-21	♦ DDA - SO Consent for Construction
DDA Sout	hApron Adit - Permanent Structure	96	20-Nov-20	18-Mar-21	139	23-Dec-20 A	17-Jun-21	✓ DDA:South Apron Adit - Permanent Structure
B15150	DDA - Draft - Final Review and prepare for 1st Sub	24	20-Nov-20	17-Dec-20	33	23-Dec-20 A	02-Feb-21 A	DDA - Draft - Final Review and prepare for 1st Sub
B15160	DDA - 1st Sub	0		17-Dec-20	0		02-Feb-21 A	DDA - 1st Sub
B15190	DDA - Review by SO	28	18-Dec-20	14-Jan-21	45	03-Feb-21 A	19-Mar-21 A	DDA - Review by SO
B15170	DDA - Review by IP / DC	28	18-Dec-20	14-Jan-21	118	03-Feb-21 A	31-May-21	DDA - Review by IP / DC
B15200	DDA - Further information required by SO	24	15-Jan-21	11-Feb-21	42	20-Mar-21 A	13-May-21 A	DDA:- Further information required by SO
B15210	DDA - 2nd Sub	0		11-Feb-21	0		13-May-21 A	DDA:- 2nd Sub
B15220	DDA - 2nd Review by SO	35	12-Feb-21	18-Mar-21	35	14-May-21 A	17-Jun-21	DDA;- 2hd;Review by;SO
B15230	DDA - SO Consent for Construction	0		18-Mar-21	0		17-Jun-21	♦ DDA:- SO Consent for Construction
SOUTHAP	RON ROAD WORKS	540	12-Aug-20	11-Jun-22	243	01-Dec-20 A	27-Sep-21	
DDARoad	S20 - Alignment, Traffic Sign, Road Marking and Traffic Light	0	14-Aug-20	14-Aug-20	60	10-Dec-20 A	25-Feb-21 A	
SOR		0	14-Aug-20	14-Aug-20	60	10-Dec-20 A	25-Feb-21 A	
B2596141	DDA - 6th Sub	0			0		10-Dec-20 A	
B2596151	DDA - 6th Review by SO	0			16	11-Dec-20 A	31-Dec-20 A	DDA- 6th Review by SO
B2596401	DDA - Further information required by SO	0			26	02-Jan-21 A	01-Feb-21 A	DDA - Further information required by SO
B2596411	DDA - 7th Sub	0			0		01-Feb-21 A	DDA - 7th Sub
B2596421	DDA - 7th Review by SO	0			18	02-Feb-21 A	25-Feb-21 A	DDA- 7th Review by \$0
B253301	DDA - SO Consent for Construction	0		14-Aug-20	0		25-Feb-21 A	◆ DDA- SO Consent for Construction
DDARoad	S20 - Roadworks and Street Furniture	0	14-Aug-20	14-Aug-20	93	15-Dec-20 A	14-Apr-21 A	
SOR		0	14-Aug-20	14-Aug-20	93	15-Dec-20 A	14-Apr-21 A	
B2596171	DDA - 7th Sub	0			0		15-Dec-20 A	Sub
B2596181	DDA - Further information required by SO	0			38	16-Dec-20 A	01-Feb-21 A	DDA - Further information required by SO
B2596851	DDA - 7th Review by SO	0			1	01-Feb-21 A	01-Feb-21 A	DDA - 7th Review by SQ
B2596861	DDA - 8th Sub	0			0		01-Feb-21 A	DDA - 8th Sub
B2596871	DDA - 8th Review by SO	0			18	02-Feb-21 A	25-Feb-21 A	DDA 8th Review by SO
B2597221	DDA - Further information required by SO	0			21	26-Feb-21 A	22-Mar-21 A	DDA - Further information required by SQ
B2597211	DDA - 9th Review by SO	0			16	23-Mar-21 A	14-Apr-21 A	DDA - 9th Review by SO
B253401	DDA - SO Consent for Construction	0		14-Aug-20	0		14-Apr-21 A	◆ DDA - SO Consent for Construction
B2597231	DDA - 9th Sub	0			0		14-Apr-21 A	◆ DDA - 9th Sub
TD		0			93	16-Dec-20 A	14-Apr-21 A	
B2595761	DDA - Under review by TD	0			93	16-Dec-20 A	14-Apr-21 A	DDA - Under review by TD
AIP Road	-	0	03-Oct-20	03-Oct-20	127	01-Dec-20 A	10-May-21 A	
B2596211	AIP - 2d Review by SO	0			64	01-Dec-20 A	-	AIP - 2d Review by SO
B2597241	AIP - Further information required by SO	0			23	03-Feb-21 A	04-Mar-21 A	AIP - Further information required by SO
B2597261	AIP - 3rd Review by SO	0			19	04-Mar-21 A	22-Mar-21 A	AIP 3rd Review by SO
B2597251	AIP - 3rd Sub	0			0		04-Mar-21 A	♦ AIP - 3rd Sub
B2597271	AIP - Further information required by SO	0			26	23-Mar-21 A	26-Apr-21 A	AIP - Further information required by SO
B2597281	AIP - 4th Sub	0			0		26-Apr-21 A	♦ AlP - 4th Sub
B2597291	AIP - 4th Review by SO	0			14	27-Apr-21 A	10-May-21 A	AIP - 4th Review by SO
B255892	AIP - SO Consent for DDA Submission	0		03-Oct-20	0		10-May-21 A	♦ AIP - SO Consent for DDA Submission
DDA Road	L10 (S) + Outfall 2 - Permanent Utility Design	77	02-Nov-20	02-Feb-21	123	21-Dec-20 A	26-May-21 A	▼ DDA Road L10 (S) + Outfall 2 - Permanent Utility Design
B263761	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	7	21-Dec-20 A	30-Dec-20 A	DDA - Draft - Final Review and prepare for 1st Sub
B263781	DDA - 1st Sub	0		14-Nov-20	0		30-Dec-20 A	DDA - 1st Sub
B263771	DDA - Review by SO	28	15-Nov-20	12-Dec-20	41	31-Dec-20 A	09-Feb-21 A	DDA - Review by SO
B263831	DDA - Review by IP / DC	28	15-Nov-20	12-Dec-20	51	31-Dec-20 A	19-Feb-21 A	DDA - Review by IP / DC
B263791	DDA - Further information required by SO	12	14-Dec-20	29-Dec-20	6	10-Feb-21 A	19-Feb-21 A	DDA - Further information required by SO
	·							Date Revision Checked Approved

Page 5 of 26 Data Date: 29-May-21

Milestone V

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Summary

Actual Milestone
 Actual Work

Baseline MilestoneBaseline Bar

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

BOUYGUES TRAVAUX PUBLICS

	Date	Revision	Checked	Approved
	05-Nov-19	00V0	WYu	
	18-Dec-19	00V1	WYu	
S)	22-Feb-20	01V0	SPa/LLo	WYu
CS	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
	09-Oct-20	01V3	SPa/LLo	WYu

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish					2021
nouniy ib			erre etait					January	February	March	April	
B263811	DDA - 2nd Sub	0		29-Dec-20	0		19-Feb-21 A	03 10 17 24	31 07 14 21	28 07 14 21 2 - 2nd Sub	28 04 11 18	3 25 02
B263801	DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	12	20-Feb-21 A	03-Mar-21 A	·		DDA - 2nd Review	ov SO	
B2597301	DDA - Further information required by SO	0			7	04-Mar-21 A	11-Mar-21 A			DDA - Furthe		ired by SO
B2597311	DDA - 3rd Sub	0			0		11-Mar-21 A			DDA - 3rd Su		
B2597321	DDA - 3rd Review by SO	0			13	12-Mar-21 A	24-Mar-21 A				A - 3rd Review by	v \$0
B2597331	DDA - Further information required by SO	0			9	25-Mar-21 A	08-Apr-21 A					urther informat
B2597341	DDA - 4th Sub	0			0	20 1101 21 71	08-Apr-21 A				◆ DDA - 4t	
B2597351	DDA - 4th Review by SO	0			48	09-Apr-21 A	26-May-21 A					
B263751	DDA - SO Consent for Construction	0		02-Feb-21	0	0777p. 2177	26-May-21 A		♦			
	L10 (S) - Alignment, Traffic Sign, Road Marking and Traffic Light	77	02-Nov-20	02-Feb-21	143	26-Dec-20 A	24-Jun-21	1 1 1 1	▼ DDA Road L10 (S) - Alignment, Traffic Sig	n, Road Marking a	Ind Traffic Ligh
B265151	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	2	26-Dec-20 A		DDA - Draft - Final Rev	4			
B255912	DDA - 1st Sub	0		14-Nov-20	0			DDA - 1st Sub	}			
B265161	DDA - Review by SO	28	15-Nov-20	12-Dec-20	32	30-Dec-20 A	30-Jan-21 A	·	DDA - Review by SO	DDA - Revi		
B255913	DDA - Review by IP / DC	28	15-Nov-20	12-Dec-20	74	30-Dec-20 A	13-Mar-21 A	· · · · · · · · · · · · · · · · · · ·		DDA - Revi	ewbyIP/DC	
B265171	DDA - Further information required by SO	12	14-Dec-20	29-Dec-20	12	01-Feb-21 A			DDA	Further information requ	uired by SO	
B255942	DDA - 2nd Sub	0		29-Dec-20	0		17-Feb-21 A		U J J J J	2nd Sub		
B265181	DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	17	18-Feb-21 A	06-Mar-21 A			DDA - 2nd Revie	w bv SO	
B2597361	DDA - Further information required by SO	0	00 200 20	02.002.	30	08-Mar-21 A	15-Apr-21 A)A - Further inf
B2597371	DDA - 3rd Sub	0			0		15-Apr-21 A					A - 3rd Sub
B2597381	DDA - 3rd Review by SO	0			18	16-Apr-21 A	· ·					DD
B2597691	DDA - Further information required by SO	0			14	04-May-21 A						
B2597701	DDA - 4th Sub	0			0		20-May-21 A	;;;;;;;				
B2597711	DDA - 4th Review by SO	0			35	21-May-21 A	24-Jun-21					
B255992	DDA - SO Consent for Construction	0		02-Feb-21	0	21 11/13/21/1	24-Jun-21		♦			
	L10 (S) - Roadworks and Street Furniture	77	02-Nov-20	02-Feb-21	151	26-Dec-20 A	05-Jul-21) - Roadworks and Stree	tFurniture	
B263671	DDA - Draft - Final Review and prepare for 1st Sub	12	02-Nov-20	14-Nov-20	2	26-Dec-20 A		DDA - Draft - Final Rev	4			
B263691	DDA - 1st Sub	0	02.1107.20	14-Nov-20	0	20 200 2011						
B263681	DDA - Review by SO	28	15-Nov-20	12-Dec-20	28	30-Dec-20 A	26-Jan-21 A) DA - Review by SO			
B263741	DDA - Review by IP / DC	28	15-Nov-20	12-Dec-20	92		31-Mar-21 A			· · · · · · · · · · · · · · · · · · ·	DDA - Review I	by IP / DC
B263701	DDA - Further information required by SO	12	14-Dec-20	29-Dec-20	35	27-Jan-21 A		· · · · · · · · · · · · · · · · · · ·		DDA - Furthe	r information requ	
B263721	DDA - 2nd Sub	0	11 000 20	29-Dec-20	0	27 Sull 2171	11-Mar-21 A			◆ DDA - 2nd S		
B263711	DDA - 2nd Review by SO	35	30-Dec-20	02-Feb-21	15	12-Mar-21 A	26-Mar-21 A				DA-2nd Review	by SO
B2597721	DDA - Further information required by SO	0			4	27-Mar-21 A	31-Mar-21 A				DDA - Further i	1 1 1
B2597731	DDA - 3rd Sub	0			0		31-Mar-21 A	-			DDA - 3rd Sub	
B2597741	DDA - 3rd Review by SO	0			43	01-Apr-21 A	13-May-21 A					
B2597751	DDA - Further information required by SO	0			14	14-May-21 A	31-May-21					
B2597761	DDA - 3rd Sub	0			0		31-May-21					
B2597771	DDA - 3rd Review by SO	0			35	01-Jun-21	05-Jul-21					
B263661	DDA - SO Consent for Construction	0		02-Feb-21	0		05-Jul-21					
	ridge FB-02	24	25-Aug-20	22-Sep-20	15	14-Dec-20 A						
B256042	AIP - 2nd Sub	0		25-Aug-20	0		14-Dec-20 A	цb				
B265211	AIP - 2nd Review by SO	28	26-Aug-20	22-Sep-20	21	15-Dec-20 A		AIP - 2nd Review	by SO			
B256092	AIP - SO Consent for DDA Submission	0		22-Sep-20	0		04-Jan-21 A		1			
	Bridge FB-02	74	09-Oct-20	07-Jan-21	129	05-Jan-21 A	15-Jun-21	DDA Foot Bridg	9			
B263851	DDA - Draft - Final Review and prepare for 1st Sub	12	09-Oct-20	22-Oct-20	6	05-Jan-21 A	11-Jan-21 A		Final Review and prep	are for 1st Sub		
B263871	DDA - 1st Sub	0		22-Oct-20	0		11-Jan-21 A	DDA - 1st Su	9			
B263861	DDA - Review by SO	28	23-Oct-20	19-Nov-20	45	12-Jan-21 A	25-Feb-21 A		5	DDA - Review by SO		
B263921	DDA - Review by IP / DC	28	23-Oct-20	19-Nov-20	77	12-Jan-21 A	29-Mar-21 A				DDA - Review by	y IP / DC
B263881	DDA - Further information required by SO	12	20-Nov-20	03-Dec-20	16	26-Feb-21 A	16-Mar-21 A			DDA - Fu	inther information r	
B263901	DDA - 2nd Sub	0		03-Dec-20	0		16-Mar-21 A	++		◆ DDA - 2r		
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Page 6 of 26	♦ ♦ Milestone ▼ Summary											

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Milestone
Planned Bar

Actual Milestone
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Baseline MilestoneBaseline Bar

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

BOUYGUES TRAVAUX PUBLICS

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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish												2021									
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B263891	DDA - 2nd Review by SO	35	04-Dec-20	07-Jan-21	14	17-Mar-21 A	30-Mar-21 A			24 3		14	21 .	20 07			• • • • •	Review by		9 10 23	30 0	0 13	20 21	04 1	1 10	23 01	00 15	22 .7
B2597571	DDA - Further information required by SO	0			30	01-Apr-21 A		· † 						 ·					·	DDA - Fur	ther inform	ation rec	uired by S	50 10				
B2597581	DDA - 3rd Sub	0			0		11-May-21 A	+						+						DDA - 3rd			·	++				
B2597591	DDA - 3rd Review by SO	0			35	12-May-21 A	15-Jun-21	+						+								D	DA - 3rd F	Reviewby	y SØ			
B263841	DDA - SO Consent for Construction	0		07-Jan-21	0	,	15-Jun-21	¦														• D	DA - SO (Consent f	or Const	ruction		
DDACUE	Entrance ELS	39	12-Sep-20	30-Oct-20	37	18-Dec-20 A	02-Feb-21 A	· †																+				
B260830	DDA - Further information required by SO	12	12-Sep-20	25-Sep-20	24			. +		DA - Fur	ther inf	ormation	n requii	ed by S	0									+				
B260840	DDA - 2nd Sub	0		25-Sep-20	0		18-Jan-21 A	· 		DA - 2nd														+				
B260850	DDA - 2nd Review by SO	35	26-Sep-20	30-Oct-20	15	19-Jan-21 A	02-Feb-21 A	+		· · · · · · · · · ·	DDA	-2nd Re	eviewik	by SO										+				
B260860	DDA - SO Consent for Construction	0		30-Oct-20	0		02-Feb-21 A			•	!	- SO Co			truction									+				
	Permanent Works	0	21-Oct-20	21-Oct-20	48	09-Dec-20 A				·														+				
B2596431	DDA - Further information required by SO	0			9		18-Dec-20 A	urther inform	nation re	equired	by SO													+				
B2596441	DDA - 3rd Sub	0			0		18-Dec-20 A	- +																++				
	DDA - 3rd Review by SO	0			27	19-Dec-20 A			DDA -	3rd Re	eview by	v SO												++				
B2596641	DDA - Further information required by SO	0			7	15-Jan-21 A		· .				informa	tion re	quired b	y SO									+				
B2596651	DDA - 3rd Sub	0			0		22-Jan-21 A	+		DDA - 3	'		+-											+				
B2596661	DDA - 3rd Review by SO	0			14	23-Jan-21 A	05-Feb-21 A	· 	·····	·	!)A - 3rd I	Reviev	v by SO										+				
B260950	DDA - SO Consent for Construction	0		21-Oct-20	0		05-Feb-21 A	· 		·	!				nstruction	ו ו								+				
	CUE L10 (N) Permanent Works	66	03-Dec-21	24-Feb-22	38	05-Dec-20 A				·														+				
B261240	AIP - Draft - Final Review and prepare for 1st Sub	12	03-Dec-21	16-Dec-21	2	05-Dec-20 A																		+				
B261250	AIP - 1st Sub	0		16-Dec-21	0		07-Dec-20 A																	++				
B261270	AIP - Review by SO	28	17-Dec-21	13-Jan-22	16	08-Dec-20 A																		++				
B261260	AIP - Review by IP / DC	28	17-Dec-21	13-Jan-22	16	08-Dec-20 A																		+				
B261280	AIP - Further information required by SO	12	14-Jan-22	27-Jan-22					i																			
B261290	AIP - 2nd Sub	0		27-Jan-22	0	21 200 2011	15-Jan-21 A	•	>															·				
B261300	AIP - 2nd Review by SO	28	28-Jan-22	24-Feb-22	6	16-Jan-21 A				·																		
B261310	AIP - SO Consent for DDA Submission	0	20 3011 22	24-Feb-22	0	10 3412171	21-Jan-21 A																					
	CUE L10 (N) Permanent Works	88	22-Feb-22	11-Jun-22	173	12-Dec-20 A	17-Jul-21																	+				
B261060	DDA - Draft - Final Review and prepare for 1st Sub	12	22-Feb-22	07-Mar-22		12-Dec-20 A															•			+				
B261070	DDA - 1st Sub	0		07-Mar-22	0	.2.000.2071	14-Jan-21 A	•																+				
B261090	DDA - Review by SO	28	08-Mar-22	04-Apr-22	40	15-Jan-21 A	23-Feb-21 A						.											++				
B261080	DDA - Review by IP / DC	28	08-Mar-22	04-Apr-22	77	15-Jan-21 A				·														+				
B261100	DDA - Further information required by SO	24	06-Apr-22	07-May-22	32	24-Feb-21 A	•	· .																				
B261110	DDA - 2nd Sub	0		07-May-22	0		01-Apr-21 A	· .		·						••••												
B261120	DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	43	02-Apr-21 A	14-May-21 A	· 											 	_				+				
B2597961	DDA - Further information required by SO	0			24	15-May-21 A		· 		·												DD/	A - Furthei	informat	ion requ	ired by SO		
B2597971	DDA - 3rd Sub	0			0		12-Jun-21	+		·												DD	A - 3rd Su	bi i	·			
B2597981	DDA - 3rd Review by SO	0			35	13-Jun-21	17-Jul-21	+																+		A - 3rd Re	view by SO	
B261130	DDA - SO Consent for Construction	0		11-Jun-22	0		17-Jul-21	+						+										++	••••			<u>+</u> -
	District Cooling System Permanent Works	0	12-Aug-20	12-Aug-20	0	16-Dec-20 A		+																+	·			
B263931	AIP - SO Consent for DDA Submission	0		12-Aug-20	0		16-Dec-20 A	Consent for [DDA Su	ubmissi	on			+										+				
ISTEI DDA	District Cooling System Permanent Works	27	30-Sep-20	04-Nov-20	135	21-Jan-21 A	10-Jul-21	ent Works																+				
B264081	DDA - 2nd Sub	0		30-Sep-20	0		21-Jan-21 A	- +	•	DDA - 2	ndSub								$-\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$		· - ; - :			+ +	·			
B264071	DDA - 2nd Review by SO	35	01-Oct-20	04-Nov-20	32	22-Jan-21 A	22-Feb-21 A	- 1 1		·¦ -·					Reviewby				· - 1 							¦		
B2596881	DDA - Further information required by SO	0			38	23-Feb-21 A		· 										DDA - Furt	her informa	tion require	d by SÓ			++				
B2596891	DDA - 3rd Sub	0			0		12-Apr-21 A	+									•	DDA - 3rd	Sub		-			+				
B2596901	DDA - 3rd Review by SO	0			24	13-Apr-21 A	1												DI	DA - 3rd Rev	view by SO)		++	·			
B2597781	DDA - Further information required by SO	0			25	07-May-21 A	-	- 						 					· - +				rther infor	mationre	quired b	y so		
B2597791	DDA - 4th Sub	0			0		05-Jun-21	· 						 					$-\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$			DDA - 4th	n Sub¦	+ +				
B2597801	DDA - 4th Review by SO	0			35	06-Jun-21	10-Jul-21	- 											· -					÷	DDA - 4t	h Review b	y SO	
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Data Date: 29	9-May-21 Planned Bar Critical Activity	E	D/201	8/04 T	run	ik Roa	d T2 a	nd In	nfra	astr	uct	ure	e W	/ork	(S						18-Dec-		00V0 00V1		WYu			
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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish							2021						
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B264021	DDA - SO Consent for Construction	0		04-Nov-20	0		10-Jul-21		0 17 24		17 21				30 00 13	20 21		DDA - S(0 Conser	nt for Construction
[STE] AIP [District Cooling System Temporary Works	0	14-Aug-20	14-Aug-20	33	08-Dec-20 A	19-Jan-21 A	+									++-			
	AIP - 3rd Sub	0			0		08-Dec-20 A	-++			++						+			
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B2596461	AIP - Further information required by SO	0			9		05-Jan-21 A			mation rea	quired by SO									
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B258970	AIP - SO Consent for DDA Submission	0		14-Aug-20	0	00 30112177	19-Jan-21 A	++			nt for DDA Su	Ibmission						·		
	District Cooling System Temporary Works	29	05-Oct-20	09-Nov-20	62	11 Doc 20 A	01-Mar-21 A	inorany W										·		
B259040	DDA - 2nd Sub	0	03-001-20	05-Oct-20	02	TI-DEC-20 A	11-Dec-20 A	· · · · · · · · · · · · · · · · · · ·										·		
B259040 B259050	DDA - 2nd Review by SO		06-Oct-20	09-Nov-20	27	12-Dec-20 A	07-Jan-21 A		DA 2nd Dovid											
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B2596921	DDA - 4th Sub	0			0		11-Feb-21 A				DDA - 4th									
B2596931	DDA - 4th Review by SO	0			18	12-Feb-21 A		ļ				DDA - 4th Review by					+			
B259060	DDA - SO Consent for Construction	0		09-Nov-20	0		01-Mar-21 A			J	· · · · · · · · · · · · · · · · · · ·	DDA - \$O Consent for	or Construction				+-+			
[STE] AIP H	loi Bun Road Junction	0	30-Nov-20	30-Nov-20	58	29-Jan-21 A	15-Apr-21 A	d Junctio									L			
B2596501	AIP - 4th Sub	0			0		29-Jan-21 A		•	AIP - 4th	Sub									
B2596511	AIP - 4th Review by SO	0			18	30-Jan-21 A	16-Feb-21 A				AIP - 4	th Review by SO								
B2596941	AIP - Further information required by SO	0			10	17-Feb-21 A	27-Feb-21 A					AIP - Further information								
B2596951	AIP - 5th Sub	0			0		27-Feb-21 A				•	AIP - 5th Sub								
B2596961	AIP - 5th Review by SO	0			16	01-Mar-21 A	16-Mar-21 A					AIP - 5th	Review by SO					,		
B2597391	AIP - Further information required by SO	0			13	17-Mar-21 A	31-Mar-21 A						AIP - Further infor	mation required by SO				;		
B2597401	AIP - 6th Sub	0			0		31-Mar-21 A	1					🔶 AIP - 6th Sub							
B2597411	AIP - 6th Review by SO	0			15	01-Apr-21 A	15-Apr-21 A	+++			+		AIP - 0	6th Review by SO			·-+			
B259780	AIP - SO Consent for DDA Submission	0		30-Nov-20	0		15-Apr-21 A			 			◆ AIP -	SO Consent for DDA Subr	nission		+			
[STE] DDA	Hoi Bun Road Junction - Permanent Utility Design	0	01-Mar-21	01-Mar-21	128	20-Jan-21 A	02-Jul-21	+				▼ [STE] DDA Hoi Bun I	Road Junction + Perm	anent Utility Design			++-			
B2596531	DDA - 3rd Sub	0			0		20-Jan-21 A	+++	🔷 DDA -	3rd \$ub	++						+			
B2596541	DDA - 3rd Review by SO	0			30	21-Jan-21 A	19-Feb-21 A	+		¦	DDA	- 3rd Review by SO						!		
B2596971	DDA - Further information required by SO	0			32	20-Feb-21 A						· · · · · · · · · · · · · · · · · · ·	DDA - Further inform	mation required by SO						
B2596981	DDA - 4th Sub	0			0		29-Mar-21 A					•	DDA - 4th Sub							
B2596991	DDA - 4th Review by SO	0			31	30-Mar-21 A								DDA - 4th Review by						
B2597811	DDA - Further information required by SO	0			22	30-Apr-21 A									DDA - Further	information	hrequired	l hv SO		
B2597821	DDA - 4th Sub	0			0	50 Api 21 A	27-May-21 A				·				DDA:- 4th Sub					
B2597821 B2597831	DDA - 4th Review by SO	0			0	20 May 21 A	01-Jul-21											4th Revie	aw by SO	
B2597831 B259510	DDA - 4th Review by SO DDA - SO Consent for Construction	0		01-Mar-21	30	28-May-21 A	01-Jul-21 02-Jul-21				·	_						!		onstruction
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	Hoi Bun Road Junction - Alignment, Traffic Sign, Road Marking a	27	25-Jan-21	01-Mar-21		03-Feb-21 A	10-Jul-21								arking aru fraii		F			
B263261	DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21		03-Feb-21 A						DDA - 2nd Review by	/ SV		+					
B263271	DDA - 2nd Sub	0		25-Jan-21	0	0/ 5 1	03-Feb-21 A		.	אַטע ♦ µDA	2nd Sub	·			.		+			
B2597421	DDA - Further information required by SO	0			27	26-Feb-21 A				 	; ; [·	ala da ser da ser da ser da	mation required by SO	.		+-++-			
B2597441	DDA - 3rd Sub	0			0		29-Mar-21 A			 	·	↓	DDA - 3rd Sub				+			
B2597431	DDA - 3rd Review by SO	0			30	01-Apr-21 A		ļ		 				DDA - 3rd Review b					÷	
B2597841	DDA - Further information required by SO	0			29	03-May-21 A		ļ							.	urther info	rmation re	equired by	y SO	
B2597851	DDA - 4th Sub	0			0		05-Jun-21								◆ DDA - 4	1th Sub				
B2597861	DDA - 4th Review by SO	0			35	06-Jun-21	10-Jul-21											DDA - 4tl	th Review	by SO
B263211	DDA - SO Consent for Construction	0		01-Mar-21	0		10-Jul-21										•	DDA - SC	≎Consen	nt for Construction
[STE] DDA	Hoi Bun Road Junction - Roadworks and Street Furniture	0	01-Mar-21	01-Mar-21	89	20-Jan-21 A	13-May-21 A				·	🛡 [STE] DDA Hoi Bun I	Road Junction - Road	works and Street Furniture				;		
B2596711	DDA - 3rd Sub	0			0		20-Jan-21 A		🔷 DDA -	3rd \$ub								;		
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Page 8 of 26	A Milestone V Summary Planned Bar								,			I 🦯			05-Nov-19	00V0		WYu		

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Data Date: 29-May-21

Milestone Values Planned Bar Critical A divity

Actual Milestone
 Actual Work

Baseline Milestone
 Baseline Bar

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

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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021
								January February March April 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02
B2596721	DDA - 3rd Review by SO	0			21	21-Jan-21 A	10-Feb-21 A	DDA - 3rd Review by SO
B2597001	DDA - Further information required by SO	0			45	11-Feb-21 A	12-Apr-21 A	DDA - Further in
B2597011	DDA - 4th Sub	0			0		12-Apr-21 A	
B2597021	DDA - 4th Review by SO	0			31	13-Apr-21 A	13-May-21 A	
B259600	DDA - SO Consent for Construction	0		01-Mar-21	0	· · ·	13-May-21 A	
[STE] DDA	Hoi Bun Road Junction - Street Lighting	0	01-Mar-21	01-Mar-21	154	12-Dec-20 A	24-Jun-21	V [STE] DDA Hoi Bun Road Junction ⊦ Street Lightin
B2596551	DDA - Further information required by SO	0			31	12-Dec-20 A	20-Jan-21 A	DDA + Further information required by SO
B2596561	DDA - 3rd Sub	0			0		20-Jan-21 A	♦ DDA -Brd \$ub
B2596571	DDA - 3rd Review by SO	0			27	21-Jan-21 A	16-Feb-21 A	DDA - 3rd Review by SO
B2597451	DDA - Further information required by SO	0			31	17-Feb-21 A	24-Mar-21 A	DDA + Further information requi
B2597461	DDA - 4th Sub	0			0		24-Mar-21 A	♦ DDA + 4th Sub
B2597471	DDA - 4th Review by SO	0			27	25-Mar-21 A	20-Apr-21 A	
B2597601	DDA - Further information required by SO	0			24	21-Apr-21 A	20-May-21 A	
B2597621	DDA - 5th Sub	0			0	· · ·	20-May-21 A	· · · · · · · · · · · · · · · · · · ·
B2597611	DDA - 5th Review by SO	0			35	21-May-21 A	24-Jun-21	
B259690	DDA - SO Consent for Construction	0		01-Mar-21	0		24-Jun-21	
[STE] AIP S	Slip Road S5	24	20-Feb-21	20-Mar-21	23	29-May-21	26-Jun-21	▼ [STE] AIP Slip Road S5
B2593751	AIP - 2nd Sub	0		20-Feb-21	0		29-May-21	
B2593761	AIP - 2nd Review by SO	28	21-Feb-21	20-Mar-21	28	30-May-21	26-Jun-21	╼╋┇╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍╍╞╍╍
B260140	AIP - SO Consent for DDA Submission	0		20-Mar-21	0		26-Jun-21	
[STE] DDA	A Slip Road S5 - Permanent Utility Design	76	22-Mar-21	25-Jun-21	77	28-Jun-21	27-Sep-21	
B259880	DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	28-Jun-21	05-Jul-21	
B259890	DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	06-Jul-21	12-Jul-21	
B259900	DDA - 1st Sub	0		08-Apr-21	0		12-Jul-21	
B259920	DDA - Review by SO	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B259910	DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B259930	DDA - Further information required by SO	12	07-May-21	21-May-21	12	10-Aug-21	23-Aug-21	
B259940	DDA - 2nd Sub	0		21-May-21	0		23-Aug-21	
B259950	DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	24-Aug-21	27-Sep-21	
ISTEI DDA	Slip Road S5 - Alignment, Traffic Sign, Road Marking and Traffic	76	22-Mar-21	25-Jun-21	77	28-Jun-21	27-Sep-21	
B263371	DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	28-Jun-21	05-Jul-21	
B263311	DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	06-Jul-21	12-Jul-21	
B263331	DDA - 1st Sub	0		08-Apr-21	0		12-Jul-21	
B263321	DDA - Review by SO	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B263381	DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B263341	DDA - Further information required by SO	12	07-May-21	21-May-21	12	10-Aug-21	23-Aug-21	
B263361	DDA - 2nd Sub	0		21-May-21	0		23-Aug-21	
B263351	DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	24-Aug-21	27-Sep-21	
ISTEI DDA	A Slip Road S5 - Roadworks and Street Furniture	76	22-Mar-21	25-Jun-21	77	28-Jun-21	27-Sep-21	
B259790	DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	28-Jun-21	05-Jul-21	
B259800	DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	06-Jul-21	12-Jul-21	
B259810	DDA - 1st Sub	0		08-Apr-21	0		12-Jul-21	
B259830	DDA - Review by SO	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B259820	DDA - Review by IP / DC	28	09-Apr-21	06-May-21	28	13-Jul-21	09-Aug-21	
B259840	DDA - Further information required by SO	12	07-May-21	21-May-21	12	10-Aug-21	23-Aug-21	
B259850	DDA - 2nd Sub	0	5. may 21	21-May-21	0		23-Aug-21	
B259860	DDA - 2nd Review by SO	35	22-May-21	25-Jun-21	35	24-Aug-21	27-Sep-21	
	Slip Road S5 - Street Lighting	76	22-May 21	25-Jun-21	77	28-Jun-21	27-Sep-21	
B259970	DDA - Draft - Preparation by Designer	6	22-Mar-21	27-Mar-21	6	28-Jun-21	05-Jul-21	
B259980	DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-21	08-Apr-21	6	06-Jul-21	12-Jul-21	╶ ┧┊╌╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╍┊╍╸┊
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Page 9 of 26 Data Date: 29-May-21

Milestone
 Planned Bar

Summary

Actual Milestone
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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 (May-21)

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No. No. <th>Activity ID</th> <th>Activity Name</th> <th>Dur</th> <th>01V3 Start</th> <th>01V3 Finish</th> <th>Dur</th> <th>Start</th> <th>Finish</th> <th colspan="8">2021</th>	Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021							
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BOUYGUES TRAVAUX PUBLICS

Three Months Rolling Programme (May-21)

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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021
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B20220	DDA - Review by SO	28	10-Oct-20	06-Nov-20	32	20-Mar-21 A	20-Apr-21 A	DDA - Review by SO
B20200	DDA - Review by IP / DC	28	10-Oct-20	06-Nov-20	77	20-Mar-21 A	04-Jun-21	DDA - Review by IP / DC
B20230	DDA - Further information required by SO	30	07-Nov-20	11-Dec-20	43	21-Apr-21 A	11-Jun-21	DDA - Further information required by SO
B20240	DDA - 2nd Sub	0		11-Dec-20	0		11-Jun-21	◆ DDA - 2nd Sub
B20250	DDA - 2nd Review by SO	35	12-Dec-20	15-Jan-21	35	12-Jun-21	16-Jul-21	DDA - 2nd Review by SO
B20260	DDA - SO Consent for Construction	0		15-Jan-21	0		16-Jul-21	♦ DDA - SO Consent for Constructio
DDA - Sub	-sea Tunnel - TBM Confinement	132	02-Jan-21	16-Jun-21	200	02-Jan-21 A	04-Sep-21	V DDA - Sub-sea Tunnet - TBM Confinement
B20270	DDA - Draft - Preparation by Designer	36	02-Jan-21	16-Feb-21	36	02-Jan-21 A	16-Feb-21 A	DDA - Draft - Preparation by Designer
B20280	DDA - Draft - Final Review and prepare for 1st Sub	24	17-Feb-21	16-Mar-21	88	17-Feb-21 A	05-Jun-21	DDA - Draft - Final Review and prepare for 1st Sub
B20290	DDA - 1st Sub	0		16-Mar-21	0		05-Jun-21	◆ DDA - 1st Sub
B20320	DDA - Review by SO	28	17-Mar-21	13-Apr-21	28	06-Jun-21	03-Jul-21	DDA - Reviewby SQ
B20300	DDA - Review by IP / DC	28	17-Mar-21	13-Apr-21	28	06-Jun-21	03-Jul-21	DDA - Reviewby IP// DC
B20330	DDA - Further information required by SO	24	14-Apr-21	12-May-21	24	05-Jul-21	31-Jul-21	DDA - Further informa
B20340	DDA - 2nd Sub	0		12-May-21	0		31-Jul-21	◆ DDA - 2nd Sub
B20350	DDA - 2nd Review by SO	35	13-May-21	16-Jun-21	35	01-Aug-21	04-Sep-21	
DDA - Sub	-sea Tunnel - Internal Structure	89	08-Aug-20	23-Nov-20	158	29-Dec-20 A	14-Jul-21	mal Structure
B20480	DDA - Draft - Final Review and prepare for 1st Sub	12	08-Aug-20	21-Aug-20		29-Dec-20 A		DDA - Draft - Final Review and prepare for 1st Sub
B20490	DDA - 1st Sub	0		21-Aug-20	0		26-Jan-21 A	DDA - 1st Sub
B20520	DDA - Review by SO	28	22-Aug-20	18-Sep-20	27	27-Jan-21 A	22-Feb-21 A	DDA - Review by SO
B20500	DDA - Review by IP / DC	28	22-Aug-20	18-Sep-20		27-Jan-21 A	04-Jun-21	
B20530	DDA - Further information required by SO	24	19-Sep-20	19-Oct-20		23-Feb-21 A	09-Jun-21	DDA - Further Information required by SO
B20540	DDA - 2nd Sub	0	17-360-20	19-Oct-20	0	23-1 60-21 A	09-Jun-21	◆ DDA - 2nd Sub
		-	20 Oct 20		-	10 Jun 21		
B20550	DDA - 2nd Review by SO	35	20-Oct-20	23-Nov-20	35	10-Jun-21	14-Jul-21	DDA - 2nd Review by SO DDA - SO Consent for Construction
B20560	DDA - SO Consent for Construction	0	04.01	23-Nov-20	0	15 1 1 0 1	14-Jul-21	
	el - General Building Plan	54	24-Nov-20	28-Jan-21	54	15-Jul-21	15-Sep-21	▼ DDA Tunnel - General Building Plan
B2594661	DDA - Draft - Preparation by Designer	30	24-Nov-20	30-Dec-20	30	15-Jul-21	18-Aug-21	
B2594601	DDA - Draft - Final Review and prepare for 1st Sub	24	31-Dec-20	28-Jan-21	24	19-Aug-21	15-Sep-21	
CROSS PAS		174	10-Oct-20	14-May-21	184	17-Feb-21 A	29-Sep-21	▼ CROSS FASSAGE
	ss Passage - CP Tympanum	42	16-Jan-21	09-Mar-21	42	17-Jul-21	03-Sep-21	V DDA - Cross Passage - CP Tympanum
B20670	DDA - Draft - Preparation by Designer	42	16-Jan-21	09-Mar-21	42	17-Jul-21	03-Sep-21	
DDA - Cros	ss Passage - CP TBM Jacking Pipes	104	07-Dec-20	17-Apr-21	147	17-Feb-21 A	16-Aug-21	▼ DDA - Cross Passage - CP TBM Jacking Pipes
B20780	DDA - Draft - Final Review and prepare for 1st Sub	24	07-Dec-20	06-Jan-21	61	17-Feb-21 A	04-May-21 A	DDA - Draft - Final Review and prepare for 1st Sub
B20790	DDA - 1st Sub	0		06-Jan-21	0		04-May-21 A	♦ DDA - 1st Sub
B20820	DDA - Review by SO	28	07-Jan-21	03-Feb-21	31	05-May-21 A	04-Jun-21	DDA - Review by \$0
B20810	DDA - Review by GEO via SO	28	07-Jan-21	03-Feb-21	31	05-May-21 A	04-Jun-21	DDA - Review by GEO via SO
B20800	DDA - Review by IP / DC	28	07-Jan-21	03-Feb-21	31	05-May-21 A	04-Jun-21	
B20830	DDA - Further information required by SO	30	04-Feb-21	13-Mar-21	30	05-Jun-21	12-Jul-21	DDA - Further information required by
B20840	DDA - 2nd Sub	0		13-Mar-21	0		12-Jul-21	DDA - 2nd Sub
B20850	DDA - 2nd Review by SO	35	14-Mar-21	17-Apr-21	35	13-Jul-21	16-Aug-21	DDA - 2n
B20860	DDA - SO Consent for Construction	0		17-Apr-21	0		16-Aug-21	♦ DDA - \$C
DDA - Cros	ss Passage - CP TBM Confinement	80	07-Jan-21	17-Apr-21	84	31-May-21	07-Sep-21	▼ DDA - Cross Passage - CP TBM Confinement
B20870	DDA - Draft - Preparation by Designer	36	07-Jan-21	20-Feb-21	36	31-May-21	13-Jul-21	DDA - Draft - Preparation by Design
B20880	DDA - Draft - Final Review and prepare for 1st Sub	24	22-Feb-21	20-Mar-21	24	14-Jul-21	10-Aug-21	DDA - Draft + F
B20890	DDA - 1st Sub	0		20-Mar-21	0		10-Aug-21	◆ DDA - 1st Sub
B20920	DDA - Review by SO	28	21-Mar-21	17-Apr-21	28	11-Aug-21	07-Sep-21	
B20900	DDA - Review by IP / DC	28	21-Mar-21	17-Apr-21	28	11-Aug-21	07-Sep-21	
	ss Passage - CP TBM - DCRA	42	22-Mar-21	14-May-21	42	11-Aug-21	29-Sep-21	DDA - Cross Passage - CP, TBM - DCRA
B20970	DDA - Draft - Preparation by Designer	42	22-Mar-21	14-May-21	42	11-Aug-21	29-Sep-21	
	ss Passage - Traditional (CP28, 29 & 30) - Temp Support for Exca	113	10-Oct-20	26-Feb-21		03-May-21 A	07-Sep-21	DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp Support for Excavation
B21070	DDA - Draft - Preparation by Designer	42	10-Oct-20	28-Nov-20		03-May-21 A		DDA - Draft - Preparation by Designer
B21070		42	10-001-20	201100-20	55		12-Juli-21	
Page 11 of 20	6 ♦ ♦ Milestone ▼ Summary		_					Date Revision Checked Approved
Data Date: 29	9-May-21 Planned Bar	F	D/201	8/04 T	run	k Roa	d T2 a	Ind Infrastructure Works
	Critical A divity		_,			_		BOUVOUE0
	Actual Work			tor L	Jev	elopm	ents a	t South Apron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu 09-Apr-20 01V1 SPa/LLo WYu
	Baseline Milestone						_	
1	Baseline Bar		Th	ree Mo	onth	is Roll	ing Pr	ogramme (May-21)

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish		2021
								January	February March April May June July August 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 12 19
B21080	DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	24	15-Jun-21	13-Jul-21		DDA - Draft Final Review and prepa
B21090	DDA - 1st Sub	0		29-Dec-20	0		13-Jul-21		◆ DDA - 1st Sµb
B21120	DDA - Review by SO	28	30-Dec-20	26-Jan-21	28	14-Jul-21	10-Aug-21		DDA - Review
B21110	DDA - Review by GEO via SO	28	30-Dec-20	26-Jan-21	28	14-Jul-21	10-Aug-21		DDA - Review
B21100	DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	28	14-Jul-21	10-Aug-21	·	DDA - Review
B21130	DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	24	11-Aug-21	07-Sep-21		
DDA - Cro	ss Passage - Traditional - Lining Structure	60	30-Dec-20	13-Mar-21	60	14-Jul-21	21-Sep-21	· · · · · · · · · · · · · · · · · · ·	DDA - Cross Passage - Traditional - Lining Structure
B21170	DDA - Draft - Preparation by Designer	36	30-Dec-20	10-Feb-21	36	14-Jul-21	24-Aug-21	· · · · · · · · · · · · · · · · · · ·	
B21180	DDA - Draft - Final Review and prepare for 1st Sub	24	11-Feb-21	13-Mar-21	24	25-Aug-21	21-Sep-21		
DRILL & BF	REAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	0	22-Sep-20	22-Sep-20	118	08-Jan-21 A	04-Jun-21		
DDA - D&E	BR / D&BL Tunnel - Lining & Internal Structure	0	22-Sep-20	22-Sep-20	118	08-Jan-21 A	04-Jun-21		
B2596731	DDA - Further information required by SO	0			19	08-Jan-21 A	29-Jan-21 A		DDA - Further information required by SO
B2596741	DDA - 4th Sub	0			0		29-Jan-21 A		DDA - 4th Sub
B2596751	DDA - 4th Review by SO	0			20	30-Jan-21 A	18-Feb-21 A		DDA: 4th Review by \$0
B2597031	DDA - Further information required by SO	0			11	19-Feb-21 A	03-Mar-21 A	++	DDA - Further information required by SO
B2597041	DDA - 5th Sub	0			0		03-Mar-21 A	++	♦ DDA ; 5th Sub
B2597051	DDA - 5th Review by SO	0			9	04-Mar-21 A		++	DDA - 5th Review by SO
B2597481	DDA - Further information required by SO	0			30	13-Mar-21 A			DDA Eurther information control by So
B2597491	DDA - 6th Review by SO	0			45	21-Apr-21 A	04-Jun-21	++	DDA - Putitien information red bir 30
B2597501	DDA - 6th Sub	0			0	21.149.21.11	21-Apr-21 A		♦ DDA - 6th Sub
B21860	DDA - SO Consent for Construction	0		22-Sep-20	0		04-Jun-21		◆ DDA - SQ Consent for Construction
	TILATION BUILDING [EVB]	48	19-Sep-20	18-Nov-20		11-Feb-21 A	25-Sep-21	IEVB1	
	Permanent Structure	-0	19-Sep-20	19-Sep-20		11-Feb-21 A	30-Jul-21		╬╍╌╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬╍╍╬
	AIP - 5th Sub	0	17-360-20	17-360-20	0		11-Feb-21 A		
B2596601	AIP - 5th Review by SO	0			26	12-Feb-21 A			AIP - 5th Review by SO
B2590001 B2597511	AIP - Further information required by SO	0			20				AIP - Further information required by SO
	AIP - Future information required by SO AIP - 6th Sub	-				18-Mar-21 A			Arr + differention required by 30
B2597521		0			0	17 Apr 01 A	16-Apr-21 A		AIP - 6th Review by \$0
B2597531	AIP - 6th Review by SO	0			34	17-Apr-21 A			AIP - On Review by SO
	AIP - Further information required by SO					29-May-21 A			◆ AIP - 6th;Sub
B2597941	AIP - 6th Sub	0			0	00 1 01	26-Jun-21		
B2597951	AIP - 6th Review by SO	0		10.0	28	28-Jun-21	30-Jul-21		AIP - 6th Review by SC
B21960	AIP - SO Consent for DDA Submission	0	01.0.00	19-Sep-20	0	01 1 101	30-Jul-21		◆ AIP - SO Consent for C
	- Permanent Structure (including Foundation)	36	21-Sep-20	04-Nov-20	36	31-Jul-21	10-Sep-21	Foundation)	
B22070	DDA - Draft - Preparation by Designer	36	21-Sep-20	04-Nov-20	36	31-Jul-21	10-Sep-21	· · · · · · · · · · · · · · · · · · ·	
	- Tower Crane Foundation	36	21-Sep-20	04-Nov-20	36	31-Jul-21	10-Sep-21	· · · · · · · · · · · · · · · · · · ·	<u></u>
B2595011	DDA - Draft - Preparation by Designer	36	21-Sep-20	04-Nov-20	36	31-Jul-21	10-Sep-21	• +	
	- Aesthetic Design	48	21-Sep-20	18-Nov-20	48	31-Jul-21	25-Sep-21	.	╣╌╶┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╷┊╴╷┊╴╴╡╴╴┊╴╴┊╴╴┊╴╴ <mark>╷</mark> ╎╴┊╴╴╡╴╴┆╴╴┆╴╴┆╴╴┆╴╴┊╴╴┊╴╴┊╴╴ <u>╎╴╴┊╴╴┊╴╴┊</u>
B2594751	DDA - Draft - Preparation by Designer	48	21-Sep-20	18-Nov-20	48	31-Jul-21	25-Sep-21		
	M INSTALLATION & COMMISSIONING	219	06-Oct-20	06-Jul-21	241	11-Dec-20 A	06-Oct-21		
	I Tunnel Ventilation Design	113	19-Nov-20	10-Apr-21	179	12-Dec-20 A	24-Jul-21		₩ DDA - E&M Tunnel Ventilation Desigh
B22780	DDA - Draft - Final Review and prepare for 1st Sub	24	19-Nov-20	16-Dec-20	107	12-Dec-20 A	27-Apr-21 A	· · · · · · · · · · · · · · · · · · ·	DDA - Draft Final Reve wand prepare for 1st Sub
B22790	DDA - 1st Sub	0		16-Dec-20	0		27-Apr-21 A		◆ DDA - 1st Sub
B22800	DDA - Review by SO	28	17-Dec-20	13-Jan-21	24	28-Apr-21 A	,		DDA Review by SO
B22820	DDA - Review by IP / DC	28	17-Dec-20	13-Jan-21	38	28-Apr-21 A	04-Jun-21		DDA - Review by IP / DC
B22830	DDA - Further information required by SO	42	14-Jan-21	06-Mar-21	24	22-May-21 A	19-Jun-21		DDA - Further information; required by SO
B22840	DDA - 2nd Sub	0		06-Mar-21	0		19-Jun-21		◆ DDA - 2nd Sub
B22850	DDA - 2nd Review by SO	35	07-Mar-21	10-Apr-21	35	20-Jun-21	24-Jul-21		DDA - 2nd Review by SO
B22860	DDA - SO Consent for Construction	0		10-Apr-21	0		24-Jul-21		DDA - SQ Consent for Cons
DDA-E&N	Air Purification System (WVB)	101	30-Nov-20	07-Apr-21	168	26-Dec-20 A	24-Jul-21		DDA E&Mt Air Purification \$ystem (WVB)
B22380	DDA - Draft - Final Review and prepare for 1st Sub	12	30-Nov-20	12-Dec-20	63	26-Dec-20 A	15-Mar-21 A		DDA - Draft - Final Review and prepare for 1st Sub
Dame 40, 60	6 Milestone Summary								Date Revision Checked Approved
Page 12 of 2		-							
Data Date: 2	9-May-21 CriticalActivity		:D/201	0/U4	run	к коа	u 12 a	ina intras	Iruclure vvorks
	Actual Milestone			for [Dev	elonm	ents a	t South A	Dron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu
	Actual Work				•	2.2011	5.1000		09-Apr-20 01V1 SPa/LLo WYu
	Saseline Milestone								

🔷 Baseline Milestone Baseline Bar

01V2

01V3

17-Jul-20 09-Oct-20

SPa/LLo

SPa/LLo

WYu

WYu

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish			I	F .1		1 M.		1 A		2021	Maria			Luca			A	
									anuary 0 17	24 3		oruary 14 21	28 07	14 21 2	Apr 28 04 11		5 02 0	9 16	23 30	06	13 20	27 04	11 18 25 01	August	22 !9
B22390	DDA - 1st Sub	0		12-Dec-20	0		15-Mar-21 A				-			DDA - 1si	Sub										
B22400	DDA - Review by SO	28	13-Dec-20	09-Jan-21	57	16-Mar-21 A	11-May-21 A									; ;			Review by	s0					
B22420	DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	81	16-Mar-21 A	04-Jun-21													DDA	- Review b	y IP / DC			
B22430	DDA - Further information required by SO	42	11-Jan-21	03-Mar-21	32	12-May-21 A	19-Jun-21						-									A - Further in	nformation required	by SO	
B22440	DDA - 2nd Sub	0		03-Mar-21	0		19-Jun-21						♦	· · · · · · · · · · · · · · · · · · ·								A-2nd Sub			
B22450	DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	35	20-Jun-21	24-Jul-21																DDA - 2	2nd Review b	y SO
B22460	DDA - SO Consent for Construction	0		07-Apr-21	0		24-Jul-21					,			♦								🔶 DDA - 1	SO Consent f	or Cons
AIP - E&M	Fire Services Installation	24	06-Nov-20	04-Dec-20	32	19-Feb-21 A	29-Mar-21 A	vices Insta	allation]					
B24640	AIP - 2nd Sub	0		06-Nov-20	0		19-Feb-21 A						2nd Sub												
B24650	AIP - 2nd Review by SO	28	07-Nov-20	04-Dec-20	38	20-Feb-21 A	29-Mar-21 A								AIP 2nd Re	view by	SO								
B24660	AIP - SO Consent for DDA Submission	0		04-Dec-20	0		29-Mar-21 A								AIP - SO Co										
DDA-E&	A Fire Services Installation	101	05-Dec-20	13-Apr-21	124	01-Apr-21 A	01-Sep-21	· · · · · · · ·				; ;)DA - E8	M Fire Ser	vices Inst							
B22570	DDA - Draft - Preparation by Designer	30	05-Dec-20	12-Jan-21	51	01-Apr-21 A	05-Jun-21									<u></u>						reparation b	y Designer		
B22580	DDA - Draft - Final Review and prepare for 1st Sub	18	13-Jan-21	02-Feb-21	18	07-Jun-21	28-Jun-21	,		;; ;											·	DDA - D	raft - Final Review a	ind prepare fo	or 1st/S
B22590	DDA - 1st Sub	0		02-Feb-21	0		28-Jun-21	· · · · · · · · ·		\$	>											• DDA - 1s			
B22600	DDA - Review by SO	28	03-Feb-21	02-Mar-21	28	29-Jun-21	26-Jul-21	· · · · · · · · · · · · · · · · · · ·				i i												Review by S	50
B22620	DDA - Review by IP / DC	28	03-Feb-21	02-Mar-21	28	29-Jun-21	26-Jul-21	++			(i+ +	⊢; ➡										DDA	Review by I	P/D¢
B22630	DDA - Further information required by SO	32	03-Mar-21	13-Apr-21	32	27-Jul-21	01-Sep-21	++							- ,',' ,','										
AIP - E&M	MVAC	23	23-Oct-20	20-Nov-20	23	08-Mar-21 A	08-Apr-21 A	+													·				
B24740	AIP - 2nd Sub	0		23-Oct-20	0		08-Mar-21 A	++				{	🔷 Alp	- 2nd Sub											
B24750	AIP - 2nd Review by SO	28	24-Oct-20	20-Nov-20	31	09-Mar-21 A	08-Apr-21 A	- 							AIP	2nd Rev	/iew by \$O								
B24760	AIP - SO Consent for DDA Submission	0		20-Nov-20	0		08-Apr-21 A	- +							♦ AIP	SO Con	sent for DD)A Submi	ssion						
DDA-E&	M MVAC	128	21-Nov-20	30-Apr-21	132	09-Apr-21 A	14-Sep-21	+				¦¦				1 1	T, DDA - I								
B22470	DDA - Draft - Preparation by Designer	32	21-Nov-20	30-Dec-20	36	09-Apr-21 A	•	• + + + + + + + + + + +											DDA - D	raft - Pr	eparation	by Designer			
B22480	DDA - Draft - Final Review and prepare for 1st Sub	17	31-Dec-20	20-Jan-21	12	24-May-21 A	05-Jun-21	+												DDA	- Draft - F	inal Review	and prepare for 1st	Sub	
B22490	DDA - 1st Sub	0		20-Jan-21	0	,	05-Jun-21	· ! 	♦											44-	-1stSub				
B22500	DDA - Review by SO	28	21-Jan-21	17-Feb-21	28	06-Jun-21	03-Jul-21	+						·								DDA	- Reviewby SO		
B22520	DDA - Review by IP / DC	28	21-Jan-21	17-Feb-21	28	06-Jun-21	03-Jul-21	· .															- Reviewby IP / D		
B22530	DDA - Further information required by SO	32	18-Feb-21	26-Mar-21	32	05-Jul-21	10-Aug-21	· .																	Further
B22540	DDA - 2nd Sub	0		26-Mar-21	0		10-Aug-21																	♦ DDA -	
B22550	DDA - 2nd Review by SO	35	27-Mar-21	30-Apr-21	35	11-Aug-21	14-Sep-21																		
	Plumbing & Drainage System	23	24-Oct-20	21-Nov-20	29	12-Jan-21 A	18-Feb-21 A	ae System	n																
B253871	AIP - 2nd Sub	0	21 00(20	24-Oct-20	0		12-Jan-21 A		AIP - 2	nd Sub															
B253881	AIP - 2nd Review by SO	28	25-Oct-20	21-Nov-20	37	13-Jan-21 A	18-Feb-21 A						2nd Review	by SO											
B253891	AIP - SO Consent for DDA Submission	0	20 001 20	21-Nov-20	0	10 54112177	18-Feb-21 A	· · · · · · · · · ·					SO Consent		bmission										
	A Plumbing & Drainage System	97	23-Nov-20	22-Mar-21	158	19-Feb-21 A	31-Aug-21	·							- E&M Plumb	nina & Dr	ainage Svs	tem							
B253901	DDA - Draft - Preparation by Designer	24	23-Nov-20	19-Dec-20	86	19-Feb-21 A	05-Jun-21	+						····							- Draft - P	reparation b	v Designer		
B253911	DDA - Draft - Final Review and prepare for 1st Sub	17	21-Dec-20	12-Jan-21	17	07-Jun-21	26-Jun-21	· ÷															ft - Final Review an	d prepare for	1st Sul
B253921	DDA - 1st Sub	0	21 200 20	12-Jan-21	0	of Sull21	26-Jun-21	·	,													DDA - 1st			
B253931	DDA - Review by SO	28	13-Jan-21	09-Feb-21	28	27-Jun-21	24-Jul-21	 				+												Review by SC	·
B253951	DDA - Review by SO DDA - Review by IP / DC	28	13-Jan-21	09-Feb-21	28	27-Jun-21	24-Jul-21		·															Review by IP	
B253961	DDA - Further information required by SO	32	10-Feb-21	22-Mar-21	32	26-Jul-21	31-Aug-21																		
B253971	DDA - 2nd Sub	0	10 1 00 21	22-Mar-21	0	20 301 21	31-Aug-21	· · · · · · · · · · · · · · · · · · ·																	
	Electrical Installation	65	06-Oct-20	22-Mar-21	122	15-Jan-21 A	18-Jun-21	E&M Elec	ctrical Ins	tallatinn															
B24390	AIP - 1st Sub	0	00 001 20	06-Oct-20	0		15-Jan-21 A	+	◆ AIP																
B24370 B24410	AIP - Review by SO	28	07-Oct-20	03-Nov-20	24	16-Jan-21 A	08-Feb-21 A	· · · · · · · · · · · · · · · · · · ·				IP - Review									· · · · · · · · · · · · · · · · · · ·				
B24400	AIP - Review by IP / DC	28	07-Oct-20	03-Nov-20	126	16-Jan-21 A		· · · · · · · · · · · · · · · · · · ·					·	·				<u></u>	AIP - Rev	view by	IP / DC				
B24430	AIP - Update & prepare for 2nd Sub	18	04-Nov-20	24-Nov-20	79	09-Feb-21 A	,	+										·		4	prepare for	2nd Sub			
B24430 B24440	AIP - 2nd Sub	0	07110120	24-Nov-20	0	5, 1 00 21 A	21-May-21 A												AIP - 2nd	4					
B24440 B24450	AIP - 2nd Review by SO	28	25-Nov-20	22-Dec-20	28	22-May-21 A	18-Jun-21	· · · · · · · · · · · · · · · · · · ·														2nd Review	v bv SO		
B21100			20110120	22 000 20				1			1			; ; 				; <u>†</u>				1 1	· · ·		
Page 13 of 2 Data Date: 2	Discussed Days	E	D/201	for E	Dev	ik Roa velopm ns Roll	ents a	t So	uth	Ар	ron			6	BC	OUYG /AUX I	UES PUBLICS		18-D 22-F 09-A 17-J	Date Nov-19 Dec-19 Feb-20 Apr-20 ul-20 Dct-20	00V	1 0 1 2	Checked WYu WYu SPa/LLo SPa/LLo SPa/LLo SPa/LLo	Approv WYu WYu WYu WYu	/ed
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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021 January February March April May June July August
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B24460	AIP - SO Consent for DDA Submission	0	00.0	22-Dec-20	0	10 1 01	18-Jun-21	AIP - SD Consent for DDA Submission
	Electrical Installation	67	23-Dec-20	17-Mar-21	67	19-Jun-21	06-Sep-21	▼ DDA - E&M Electrical Installation
B22870	DDA - Draft - Preparation by Designer	25	23-Dec-20	23-Jan-21	25	19-Jun-21*	19-Jul-21	
B22880	DDA - Draft - Final Review and prepare for 1st Sub	18	25-Jan-21	17-Feb-21	18	20-Jul-21	09-Aug-21	
B22890	DDA - 1st Sub	0		17-Feb-21	0		09-Aug-21	◆ DDA - 1s
	DDA - Review by SO	28	18-Feb-21	17-Mar-21	28	10-Aug-21	06-Sep-21	
B22920	DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	10-Aug-21	06-Sep-21	
	Submission - Power Supply to EVB & WVB	28	18-Feb-21	17-Mar-21	28	30-May-21	26-Jun-21	▼ DDA CLP Submission - Power Supply to EVB & WVB
B19820	DDA - Review by IP / DC	28	18-Feb-21	17-Mar-21	28	30-May-21	26-Jun-21	DDA - Review by IP / DC
	Tunnel Lighting Design	90	09-Nov-20	01-Mar-21		23-Dec-20 A	04-Jun-21	AIP - E&M Tunnel Lighting Design
B24890	AIP - 1st Sub	0	10 No. 20	09-Nov-20	0	04 D 00 A	23-Dec-20 A	1st Sub AIP - Review by SO
B24910	AIP - Review by SO	28	10-Nov-20	07-Dec-20	21		13-Jan-21 A	
	AIP - Review by IP / DC	28	10-Nov-20	07-Dec-20	131	24-Dec-20 A	,	All - Review by in 7/DC
	AIP - Update & prepare for 2nd Sub	45	08-Dec-20	01-Feb-21	86	14-Jan-21 A	,	
B24940	AIP - 2nd Sub	0	00 5 4 01	01-Feb-21	0	04.14. 01.4	03-May-21 A	♦ AIP - 2nd Sub
B24950	AIP - 2nd Review by SO	28	02-Feb-21	01-Mar-21		04-May-21 A	04-Jun-21	
B24960	AIP - SO Consent for DDA Submission	0	02 Mar 21	01-Mar-21	0	05 June 21	04-Jun-21	 AIP - SO Consent for DDA Submission ▼ DDA - E&M Tunnel Lighting Design
	I Tunnel Lighting Design	101	02-Mar-21	06-Jul-21	102	05-Jun-21	06-Oct-21	DDA - E&M iumer Lighting Design
B22670	DDA - Draft - Preparation by Designer	22	02-Mar-21	26-Mar-21	22	05-Jun-21*	02-Jul-21	DDA - Drait - Preparation by Designer
B22680	DDA - Draft - Final Review and prepare for 1st Sub	12	27-Mar-21	14-Apr-21	12	03-Jul-21	16-Jul-21	◆ DDA - Dtail - Finial Review.a
B22690	DDA - 1st Sub	0	15 Apr 01	14-Apr-21	0	17 1.1.01	16-Jul-21	
B22700	DDA - Review by SO	28	15-Apr-21	12-May-21	28	17-Jul-21	13-Aug-21	
B22720	DDA - Review by IP / DC	28	15-Apr-21	12-May-21	28	17-Jul-21	13-Aug-21	
B22730	DDA - Further information required by SO	44	13-May-21	06-Jul-21	44	14-Aug-21	06-Oct-21	AIP - E&M CMCS
AIP - E&M		141	10-Nov-20	05-May-21	194	11-Dec-20 A	10-Aug-21	
B24970	AIP - Draft - Preparation by Designer	41	10-Nov-20	29-Dec-20	36	11-Dec-20 A		AIP - Draft - Preparation by Designer
B24980	AIP - Draft - Final Review and prepare for 1st Sub	18	30-Dec-20	20-Jan-21		26-Jan-21 A	•	
B24990	AIP - 1st Sub	0	01 Jan 01	20-Jan-21	0	07 Apr 01 A	26-Apr-21 A	♦ AlP - 1st Sub
	AIP - Review by SO	28	21-Jan-21	17-Feb-21		27-Apr-21 A		
B25000	AIP - Review by IP / DC	28	21-Jan-21	17-Feb-21	39	27-Apr-21 A	04-Jun-21	AIP - Update & prepare for 2nc
B25030 B25040	AIP - Update & prepare for 2nd Sub AIP - 2nd Sub	38	18-Feb-21	07-Apr-21	37	29-May-21 A	13-Jul-21 13-Jul-21	Air - Opdate & prepare to 2 to ♦ AIP - 2nd Sub
	AIP - 2nd Sub AIP - 2nd Review by SO	0	00 Apr 21	07-Apr-21	20	14 Jul 21		
B25060	AIP - SO Consent for DDA Submission	28	08-Apr-21	05-May-21 05-May-21	28 0	14-Jul-21	10-Aug-21 10-Aug-21	♦ AIP - SC
DDA - E&M		22	06-May-21	03-way-21 01-Jun-21	22	11-Aug-21	04-Sep-21	v A" SC
B22270	DDA - Draft - Preparation by Designer	_	,					
		22 383	06-May-21 11-Jun-20	01-Jun-21 23-Sep-21	22 282	11-Aug-21* 07-Dec-20 A	04-Sep-21 19-Nov-21	
	RON EXTERNAL WORKS							
Road S20		327	18-Aug-20	23-Sep-21	232	07-Dec-20 A	18-Sep-21	
CUE	CLIE Typical Soction & Entrance Structure	207	11-Nov-20	26-Jul-21		01-Feb-21 A	15-Sep-21	CUE Typical Section & E
A1415 A1405	CUE Typical Section & Entrance Structure CUE Entrance Section ELS (Sheet pile)	72 15	27-Feb-21	28-May-21	136 15	01-Feb-21 A 19-Jul-21	21-Jul-21	
A 1405 A 1460	CUE UU Installation (Fresh & Salt Water)	48	11-Nov-20 29-May-21	27-Nov-20 26-Jul-21	48	22-Jul-21	04-Aug-21 15-Sep-21	
CUE RC S		48	27 =ivia y=2 1	∠o-jui-2 i	108	01-Feb-21 A	15-Sep-21 17-Jun-21	
	CUE Typical Section 10%	0			108	01-Feb-21 A	17-Juli-21 13-Feb-21 A	CUE Typical Section 10%
	CUE Typical Section 10%	0			5	15-Feb-21 A		CUE Typical Section 20%
	CUE Typical Section 30%	0			14	22-Feb-21 A		CUE Typical Section 30%
	CUE Typical Section 50%	0			7	10-Mar-21 A		CUE Typical Section 50%
	CUE Typical Section 60%	0			8	18-Mar-21 A		CUE Typical Section 60%
	CUE Typical Section 80%	0			52	27-Mar-21 A	02-Jun-21	
		0			52 12	03-Jun-21	17-Jun-21	CUE Typical Section 100%
K2Z94299,	A2294299: CUE Typical Section 100%				IZ	UJ-JUIFZ I	I/-JUII-ZI	
Page 14 of 26								Date Revision Checked Approve
Data Date: 29	P-May-21 Planned Bar Ortical Adivity		D/201	8/04 T	run	k Roa	d T2 a	Ind Infrastructure Works
	Actual Milestone							
	Actual Work			IOL	Jev	eiohiu	ents a	t South Apron
	A Baseline Milestone		-					
	Baseline Bar		Ih	ree Mo	ontr	is Koll	ing Pr	ogramme (May-21)
							-	

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish		2021
								January	February March April May June July August 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 02 19
Junction &		0			160	22-Feb-21 A	04-Sep-21		
A229430590	Junciton Sheet Pile 50%	0			40	22-Feb-21 A	-		Junciton Sheet Pile 50%
A229430600	Junciton Sheet Pile 80%	0			18		07-May-21 A		Junciton Sheet Plie 80%
A229430610	Junciton Sheet Pile 100%	0			24	08-May-21 A	-		Junciton Sheet Pile 100%
	Entrance Sheet Pile 20%	0			12	07-Jun-21	21-Jun-21		Entrançe Sheet Pile 20%
	Junction RC Structure 20%	0			12	07-Jun-21	21-Jun-21		Junction RC Structure 20%
	Entrance Sheet Pile 60%	0			8	22-Jun-21	30-Jun-21		Entrance Sheet Pile 60%
	Junction RC Structure 60%	0			12	22-Jun-21	06-Jul-21		Junction RC Structure 60%
	Entrance Sheet Pile 100%	0			8	02-Jul-21	10-Jul-21		Entrance Sheet Pile 100%
	Junction RC Structure 100%	0			12	07-Jul-21	20-Jul-21		Junction RC:Structure 100%
	Entrance RC Structure 20%	0			12	12-Jul-21	24-Jul-21		Entrance;RC Structure 20%
	Dentrance RC Structure 60%	0			12	26-Jul-21	07-Aug-21		Entrance RC Str
	Dentrance RC Structure 80%	0			12	09-Aug-21	21-Aug-21		Entra
	Entrance RC Structure 100%	0			12	23-Aug-21	04-Sep-21		
Road & Dra		327	18-Aug-20	23-Sep-21	232		18-Sep-21	· · · · · · · · · · · · · · · · · · ·	
Stage 2		154	18-Aug-20	23-Feb-21		14-Dec-20 A	04-Sep-21		▼ Stage 2
	S20 Stage 2 (Watermain)	5	17-Dec-20	22-Dec-20	5	06-Jul-21	10-Jul-21		
A1950	S20 Stage 2 (U channel, Catchpit, Gully)	24	23-Dec-20	22-Jan-21	24	12-Jul-21	07-Aug-21		S20 Stage 2 (Watermain)
A1960	S20 Stage 2 (Roadworks)	24	23-Jan-21	23-Feb-21	24	09-Aug-21	04-Sep-21		
	e 2 (Sewerage)	0				14-Dec-20 A			
	S20 Stage 2 (Sewerage) 50 %	0			34	14-Dec-20 A		- <u>.</u>	S20 Stáge 2 (Sewérage) 50 %
	S20 Stage 2 (Sewerage) 100 %	0			36	21-Dec-20 A	04-Feb-21 A	· · · · · · · · · · · · · · · · · · ·	S20 \$tage 2 (Sewerage) 100 %
	e 2 (Drainage)	1	18-Aug-20	18-Aug-20		05-Feb-21 A			
	S20 Stage 2 (Drainage) 40%	0				05-Feb-21 A			S20 Stage 2 (Drainage) 40%
A229428(S20 Stage 2 (Drainage) 80%	0			5	13-Feb-21 A	20-Feb-21 A		S20 Stage 2 (Drainage) 80%
A229428(S20 Stage 2 (Drainage) 100%	0			6	31-May-21	05-Jun-21		S20 Stage 2 (Drainage) 100%
A1680	S20 Stage 2 (Watermain)	1	18-Aug-20	18-Aug-20	12	07-Jun-21	21-Jun-21		S20 Stage 2 (Watermain)
S20 Stage	e 1 (U channel, Catchpit, Gully)	0			48	22-Jun-21	17-Aug-21		
A229428	S20 Stage 1 (U channel, Catchpit, Gully) 50%	0			12	22-Jun-21	06-Jul-21		\$20 Stage 1 (U channel, Catchpit, Gully) 5
A229428	S20 Stage 1 (U channel, Catchpit, Gully) 100%	0			12	07-Jul-21	20-Jul-21		S20 Stage 1; (U channel, Catch
A229429 ⁻	S20 Stage 1 & 2 Pavement 50%	0			12	21-Jul-21	03-Aug-21		\$20 Stage 1 & 2 P,a
A229429 ⁻	S20 Stage 1 & 2 Pavement 100%	0			12	04-Aug-21	17-Aug-21		S20 Stat
Stage 3		173	24-Feb-21	23-Sep-21	232	07-Dec-20 A	18-Sep-21		
A1969	S20 Stage 3 ELS	35	24-Feb-21	09-Apr-21	63	07-Dec-20 A	24-Feb-21 A		S20 Stage 3 E_S
A1980	S20 Stage 3 (Drainage)	42	20-May-21	09-Jul-21	161	15-Dec-20 A	06-Jul-21		S20¦Stage 3 (Drainage)
A1970	S20 Stage 3 (Sewerage)	32	10-Apr-21	18-May-21	141	21-Dec-20 A	17-Jun-21		S20 \$tage;3 (Sewerage)
A1990	S20 Stage 3 (Watermain)	4	10-Jul-21	14-Jul-21	4	07-Jul-21	10-Jul-21		s20 Stage β (Watermain)
A1995	S20 Stage 3 (UU Diversion)	12	15-Jul-21	28-Jul-21	12	12-Jul-21	24-Jul-21		S20 Stage 3 (UU, Diversi
A2000	S20 Stage 3 (U channel, Catchpit, Gully)	24	29-Jul-21	25-Aug-21	24	26-Jul-21	21-Aug-21		s:
A2010	S20 Stage 3 (Roadworks)	24	26-Aug-21	23-Sep-21	24	23-Aug-21	18-Sep-21		
AMAWBC		253	11-Jun-20	19-Apr-21	88	31-May-21	11-Sep-21		T AMAWBC
Drainage 8	& Sewerage	40	11-Jun-20	29-Jul-20	40	31-May-21	17-Jul-21		
Section B		40	11-Jun-20	29-Jul-20	40	31-May-21	17-Jul-21		
A2294251	Section B - ELS	18	11-Jun-20	03-Jul-20	18	31-May-21	21-Jun-21		Section; B - ELS
	Section B - Drainage	11	04-Jul-20	16-Jul-20	11	22-Jun-21	05-Jul-21		Section B - Drainage
A2294190	Section B - Sewerage	11	17-Jul-20	29-Jul-20	11	06-Jul-21	17-Jul-21		Seçtion B - Sewerage
Outfall 1		30	11-Mar-21	19-Apr-21	30	09-Aug-21	11-Sep-21		V Oµtfall 1
A229418950	Outfall 1 Excavation & Blinding	30	11-Mar-21	19-Apr-21	30	09-Aug-21	11-Sep-21		
	ct Cooling System for AMAWBC Section 6B	150	03-Dec-20	09-Jun-21	228	26-Jan-21 A	03-Nov-21		▼ [STE] District Cooling \$ystem for AMAWBC \$ection 6B
DCS Section	on 6B	150	03-Dec-20	09-Jun-21	228	26-Jan-21 A	03-Nov-21		▼ DCS \$ection 6B
Page 15 of 20					-				Date Revision Checked Approved 05-Nov-19 00V0 WYu
Data Date: 29			1 1/1/14		6116		A (') A	a = a + a = a	

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Data Date: 29-May-21

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

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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish				2021				
-								January	February	March	April May 28 04 11 18 25 02 09 16 23	June	20 27 04	July 11 18 25 01	August
A22941729	DCS - Section D part 1	48	03-Dec-20	30-Jan-21	144	26-Jan-21 A	24-Jul-21		51 07 17 21	20 07 17 21				DCS - S	Section D part 1
	DCS - Section C part 1	48	03-Dec-20	30-Jan-21	92	19-Apr-21 A	07-Aug-21	+							DCS - Section C
	DCS - Section D part 2	30	01-Feb-21	10-Mar-21	86	26-Apr-21 A	07-Aug-21	+++						· · · · · · · · · · · · · · · · · · ·	DCS - Section D
	DCS - Section A	72	11-Mar-21	09-Jun-21	72	09-Aug-21	03-Nov-21	++							
	DCS - Section C part 2	48	01-Feb-21	31-Mar-21	48	09-Aug-21	05-Oct-21	++							
DCS Sect		0			182	26-Jan-21 A	07-Sep-21	++							
Sheet Pile		0				26-Jan-21 A	27-Jul-21	+++							
	Bay 1 Sheet Pile	0				26-Jan-21 A			4	Bay 1 Sheet Pile					
	Bay 2 Sheet Pile	0			25	15-Mar-21 A	17-Apr-21 A				Bay 2 Sheet Pile				
	Bay 5 Sheet Pile 30%	0			46	19-Apr-21 A	12-Jun-21		· · · · · · · · · · · · · · · · · · ·			Bay	5 Sheet Pile 30	%	
	Bay 4 Sheet Pile	0			34	26-Apr-21 A	05-Jun-21		· · · · · · · · · · · · · · · · · · ·			Bay 4 She	et Pile		
	Bay 5 Sheet Pile 60%	0			18	15-Jun-21	06-Jul-21		· · · · · · · · · · · · · · · · · · ·				B	ay 5 Sheet Pile 60%	
	Bay 5 Sheet Pile 1000%	0			18	07-Jul-21	27-Jul-21		· · · · · · · · · · · · · · · · · · ·					Bay!	5 Sheet Pile 1000%
Excavatio		0			132	08-Mar-21 A	17-Aug-21								
A229430 ⁻	Bay 1 Excavation	0			11	08-Mar-21 A	20-Mar-21 A			Bay 1	I Excavation				
A229430 [°]	Bay 2 Excavation	0			25	19-Apr-21 A	19-May-21 A				Bay	2 Excavation			
	Bay 4 Excavation	0			18	07-Jun-21	28-Jun-21						Bay 4 E	xcavation	
	Bay 5 Excavation 50%	0			18	28-Jul-21	17-Aug-21								Bay 5 Ex
Pipe Insta	Illation	0			111	27-Apr-21 A	07-Sep-21					++			
A229430	Bay 1 Pipe Installation	0			39	27-Apr-21 A	12-Jun-21					Bay	1 Pipe Installatiç	on l	
A229430	Bay 2 Pipe Installation	0			24	20-May-21 A	17-Jun-21						3ay 2 Pipe Insta	llation	
A229430	Bay 4 Pipe Installation	0			18	29-Jun-21	20-Jul-21								Installation
A229431	Bay 5 Pipe Installation	0			18	18-Aug-21	07-Sep-21							· · · · · · · · · · · · · · · · · · ·	
[STE] Distri	ct Cooling System - Remaining Section 7B	96	17-Dec-20	19-Apr-21	162	17-Dec-20 A	09-Jul-21				▼ [STE] District Cooling Syster	n - Remaining Secti	on 7¦B		
Road L10S		96	17-Dec-20	19-Apr-21	162	17-Dec-20 A	09-Jul-21				Road Lios				
A1513	DCS - Material Procurement for Section 7B	96	17-Dec-20	19-Apr-21	141	17-Dec-20 A	12-Jun-21	· · · · · · · · · · · · · · · · · · ·				DCS	- Material Proc	urement for Section	7B
A1515	DCS - Pipe Installation under DPR	21	21-Jan-21	17-Feb-21	21	15-Jun-21	09-Jul-21						····	DCS - Pipe Installat	tion under DPR
Foot Bridge		144	02-Jan-21	30-Jun-21	194	26-Mar-21 A	19-Nov-21	V					Foot B	Bridae' FB-02	
A21372	Temporary Ramp provision	72	02-Jan-21	30-Mar-21		31-May-21*	24-Aug-21	· · · · · · · · · · · · · · · · · · ·							Ter
	Existing Ramp KF-64 demolition	72		30-Jun-21			19-Nov-21					-			
Foot Bridg		0			134	26-Mar-21 A	07-Sep-21	+++							
	FB-02 H-Pile (1 rig) P4/P5/LA&B/D 25%	0			42	26-Mar-21 A					FB-	02 H-Pile (1 rig) P4/	/P5/LA&B/D 259	6	
	FB-02 H-Pile (1 rig) P4/P5/LA&B/D 50%	0			16	21-May-21 A	08-Jun-21					- <mark>-</mark>		P5/LA&B/D 50%	
	FB-02 H-Pile (1 rig) P4/P5/LA&B/D 75%	0			12	09-Jun-21	23-Jun-21						FB-02 H-Pi	e (1 rig) P4/P5/LA&E	3/D 75%
	Temporary Ramp Construction 25%	0			12	15-Jun-21*	28-Jun-21						<u>+-</u> ++		
	FB-02 H-Pile (1 rig) P4/P5/LA&B/D 100%	0			12	24-Jun-21	08-Jul-21							FB-02 H-Pile (1 rig)	P4/P5/LA&B/D 100%
	Temporary Ramp Construction 50%	0			12	29-Jun-21	13-Jul-21					++			p Construction 50%
	Temporary Ramp Construction 75%	0			12	14-Jul-21	27-Jul-21	++				+++++++++++		Tem	porary Ramp Constru
	Temporary Ramp Construction 100%	0			12	28-Jul-21	10-Aug-21					+++++++++++++++			Temporary Ra
	Existing FB Demolition 50%	0			12	11-Aug-21	24-Aug-21	-++++				*****			Exi
	Existing FB Demolition 100%	0			12	25-Aug-21	07-Sep-21					++			
	un Road / Cheung Yip Street / Wang Chiu Road Junction	175	05-Dec-20	14-Jul-21		11-Jan-21 A	07-Oct-21			L		<u>-</u>		■▼ [STE] Hoi Bun I	Road / Cheung Yip S
	TTA Phasing	0		05-Dec-20	0		11-Jan-21 A	TTA Phasing				++			
	TMLG for XP validation	0		24-Dec-20	0		25-Jan-21 A		LG for XP validation			++			
A229425240		0		25-Jan-21	0		08-Feb-21 A	♦	XP validated			++			
	TMLG to TD for Approval	0		30-Jan-21	0		12-Feb-21 A			D for Approval		++			
	TMLG Approved	0		19-Feb-21	0		20-Feb-21 A			G Approvéd		++			
A229425270		0		01-Mar-21	0		26-Feb-21 A				rom RMO for TTA Implementation	++			
A216001	HBR / CYS / WCR Drainage Works	60	02-Mar-21	15-May-21	60	31-May-21	10-Aug-21							· · · · · · · · · · · · · · · · · · ·	HBR/CYS/V
A216002	HBR / CYS / WCR Sub-base, Kerb line modication & Pavement Works	48	17-May-21	14-Jul-21	48	11-Aug-21	07-Oct-21					<u>+</u> +			
Page 16 of 20	6 I I Milestone Summary											Date	Revision	Checked	Approved
Data Date: 29			- 1/201	8/01 T	run	k Roa	d T2 a	and Infrast	ructuro V	Vorka 🖌		05-Nov-19	00V0	WYu	

Data Date: 29-May-21

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

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

Activity ID	Activity Name	Dur 01V3	3 Start 01V3	Finish Du	r Start	Finish	2021
							January February March April May June July August 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 22
[STE] Road	L10 (Northern)	0		19	6 23-Dec-20 A	24-Aug-21	
CUE		0		19	6 23-Dec-20 A	24-Aug-21	
CUE		0		19	6 23-Dec-20 A	24-Aug-21	
A2294297'	CUE L10(N) ELS (Sheet pile) part 1 10%	0		33	23-Dec-20 A	02-Feb-21 A	CUE L10(N) ELS (Sheet pile) part 1 10%
A2294297	CUE L10(N) ELS (Sheet pile) part 1 20%	0		22	03-Feb-21 A	03-Mar-21 A	CUE L 10(N) ELS (Sheet pile) part 1 20%
A2294298	CUE L10(N) ELS (Sheet pile) part 1 40%	0		14	05-Mar-21 A	20-Mar-21 A	CUE L10(N) ELS (Sheet pile) part 1 40%
A2294298	CUE L10(N) ELS (Sheet pile) part 1 60%	0		18	22-Mar-21 A	16-Apr-21 A	CUE:L10(N) EL\$ (Sheet pile) pat 1 60%
A2294298	CUE L10(N) ELS (Sheet pile) part 1 80%	0		18	17-Apr-21 A	08-May-21 A	CUE L10(N) EL\$ (Sheet pile) part 1 80%
A2294298	CUE L10(N) ELS (Sheet pile) part 1 100%	0		17	10-May-21 A	29-May-21 A	CUE L 10(N) ELS (Sheet pile) part 1 100%
A2294298 [,]	CUE L10(N) ELS (Excavation) part 1 10%	0		12	31-May-21	12-Jun-21	CUE L10(N) ELS (Excavation) part 1 10%
A2294304!	CUE L10(N) ELS (Sheet pile) part 2 10%	0		12	31-May-21	12-Jun-21	CUE L10(N) ELS (Sheet pile) part 2 10%
A2294298!	CUE L10(N) ELS (Excavation) part 1 20%	0		12	15-Jun-21	28-Jun-21	CUE L 10(N) ELS (Excavation) part 1 20%
A2294304	CUE L10(N) ELS (Sheet pile) part 2 20%	0		12	15-Jun-21	28-Jun-21	CUE L 10(N) ELS (Sheel pile) part 2 20%
A2294298	CUE L10(N) ELS (Excavation) part 1 30%	0		12	29-Jun-21	13-Jul-21	CUE L ₁ 0(N) ELS (Excavation) par
A2294304	CUE L10(N) ELS (Sheet pile) part 2 30%	0		12	29-Jun-21	13-Jul-21	CUE L10(N) ELS (Sheet pile) part
A2294304:	CUE L10(N) ELS (Excavation) part 1 40%	0		12	14-Jul-21	27-Jul-21	¢UE L10(N) ELS (Exc
A2294304	CUE L10(N) ELS (Sheet pile) part 2 40%	0		12	14-Jul-21	27-Jul-21	CUE L10(N) ELS (She
A2294304:	CUE L10(N) ELS (Excavation) part 1 50%	0		12	28-Jul-21	10-Aug-21	
A2294314	CUE L10(N) ELS (Sheet pile) part 2 50%	0		12	28-Jul-21	10-Aug-21	
A2294304	CUE L10(N) ELS (Excavation) part 1 60%	0		12	11-Aug-21	24-Aug-21	
A2294314;	CUE L10(N) ELS (Sheet pile) part 2 60%	0		12	11-Aug-21	24-Aug-21	
DEPRESS	ED ROAD [DPR]	173 24-0	Oct-20 28-M	ay-21 25	4 01-Dec-20 A	11-Oct-21	V DEPRESSED ROAD [DPR]
Excavation	& Strutting	107 24-0	Oct-20 05-M	ar-21 17	8 01-Dec-20 A	12-Jul-21	▼ Excávation & Strutting
A9510	DPR - CH5962-6008 - Excavation S1	24 24-0	Dct-20 21-N	ov-20 63	01-Dec-20 A	18-Feb-21 A	DPR: CH5962-6008 + Excavation S1
A9530	DPR - CH6080-6150 - Excavation to S1	18 24-0	Oct-20 14-N	ov-20 55	15-Dec-20 A	23-Feb-21 A	DPR - CH6080-6150 - Excavation to S1
A95201	DPR - CH6008-6080 - Strut S1 Installation	12 19-N	lov-20 02-D	ec-20 26	25-Jan-21 A	26-Feb-21 A	DPR - CH6008-6080/- Strut S1 Installation
A95301	DPR - CH6080-6150 - Strut S1 Installation	12 16-N	lov-20 28-N	ov-20 16	15-Feb-21 A	05-Mar-21 A	DPR - CH6080-6150 - Strut S1 Installation
A95302	DPR - CH6080-6150 - Excavation to S2	12 30-N	lov-20 12-D	ec-20 20	22-Feb-21 A	16-Mar-21 A	DPR - CH6080-6150 - Excavation to S2
A95202	DPR - CH6008-6080 - Excavation to Strut S3	20 03-D	ec-20 28-D	ec-20 37	24-Feb-21 A	13-Apr-21 A	DPR - CH6008-6080 - Excavation to Strut S3
A95203	DPR - CH6008-6080 - Strut S3 Installation	12 29-D	ec-20 12-Ja	an-21 29	10-Mar-21 A	17-Apr-21 A	
A95303	DPR - CH6080-6150 - Strut S2 Installation	12 14-D	ec-20 29-D	ec-20 21	22-Mar-21 A	20-Apr-21 A	DPR - CH6080-6150 - Strut S2 Installation
A95304	DPR - CH6080-6150 - Excavation to S3	12 30-D	ec-20 13-Ja	an-21 42	25-Mar-21 A	18-May-21 A	DPR - CH6080-6150 - Excavation to S3
A95204	DPR - CH6008-6080 - Excavation to FEL	7 13-Ja	an-21 20-Ja	an-21 8	14-Apr-21 A	22-Apr-21 A	DPR- CH6008-6080 + Excavation to FEL
A95305	DPR - CH6080-6150 - Strut S3 Installation	12 14-Ja	an-21 27-Ja	an-21 15	19-May-21 A	05-Jun-21	DPR - C H6080-6150 - Strut S3 Installation
A95306	DPR - CH6080-6150 - Excavation to S4	12 28-J	an-21 10-Fe	eb-21 12	07-Jun-21	21-Jun-21	DPR - CH6080-6150 - Excavation to S4
A95307	DPR - CH6080-6150 - Strut S4 Installation	12 11-Fe	eb-21 27-Fe	eb-21 12	22-Jun-21	06-Jul-21	DPR - CH6080-6150 - \$trut \$4 Installati
A95308	DPR - CH6080-6150 - Excavation FEL	5 01-M	1ar-21 05-M	ar-21 5	07-Jul-21	12-Jul-21	DPR - CH6080-6150 - Excavation F
Open Cut	Section (Ch5962-6008)	0		88	15-Feb-21 A	04-Jun-21	
A229420380	Excavation Ch5963 - Ch5997	0		5	15-Feb-21 A	20-Feb-21 A	Excavatión Ch5963 - Ch5997
A229426190	Excavation Ch5997 - Ch6008	0		5	31-May-21	04-Jun-21	Excavation Ch5997 - Ch6008
Zone 1 (Ch	6008 - 6045)	0		91	14-Dec-20 A	10-Apr-21 A	
A229426451	Excavation Stage 1 - below strut S1	0		33	14-Dec-20 A	23-Jan-21 A	Excavatión Stage 1 - below strut S1
A229420340	Strut S1 installation (5 nos)	0		9	06-Feb-21 A	19-Feb-21 A	Strut S1 installation (5 nos)
A229420350	Excavation to S3 - 3,600m ³	0		19	24-Feb-21 A	17-Mar-21 A	Excavation to S3 - 3,600m ³
A229420360	Strut S3 installation (5 nos)	0		7	18-Mar-21 A	25-Mar-21 A	Strut:S3 installation (5 nos)
A229420370	Excavation Stage 3 - FEL	0		9	26-Mar-21 A	10-Apr-21 A	Excavation Stage 3 - FEL
Zone 2 (Ch	6045 - 6080)	0		10	9 01-Dec-20 A	17-Apr-21 A	
A229426531	Excavation Stage 1 - below strut S1	0		63	01-Dec-20 A	18-Feb-21 A	Excavation Stage 1 - below strut S1
A229420130	Strut S1 installation (4 nos)	0		5	19-Feb-21 A	24-Feb-21 A	Strut \$1 installation (4 nos)
A229429540	Excavation to S3	0		9	08-Mar-21 A	17-Mar-21 A	Excavation to S3
Page 17 of 0	S Milestone Summary						Date Revision Checked Approved
Page 17 of 20 Data Date: 29			2010/0	1	nk Daa		
	CriticalAdivity						and Infrastructure Works
4	Actual Milestone		f	or De	velopn	ients a	at South Apron BOUYGUES 22-Feb-20 01V0 SPa/LLo WYu

Actual Work

🔷 Baseline Milestone Baseline Bar

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for Developments at South Apron

TRAVAUX PUBLICS

09-Apr-20

17-Jul-20 09-Oct-20

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021	
								January February March April May June July August 03 10 17 24 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 19	
A229420150	Strut S3 installation (4 nos)	0			9	26-Mar-21 A	10-Apr-21 A	Strut S3 installation (4 nos)	
A229420160	Excavation to FEL	0			6	12-Apr-21 A	17-Apr-21 A	Excavation to FEL	
Zone 3 (Ch	i6080 - 6121)	0			142	07-Dec-20 A	03-Jun-21		
A229426611	Excavation Stage 1 - below strut S1	0			47	07-Dec-20 A	02-Feb-21 A	Excavation Stage 1 - below strut S1	
A229420180	Strut S1 installation (4 nos)	0			5	02-Feb-21 A	06-Feb-21 A	Strut S1 installation (4 nos)	
A229420210	Excv to below S2	0			18	22-Feb-21 A	13-Mar-21 A	Excy to below \$2	
A229426070	Strut S2 installation (4 nos)	0			9	22-Mar-21 A	31-Mar-21 A	Strut \$2 installation (4 nos)	
A229420170	Excavation to S3	0			6	13-Apr-21 A	20-Apr-21 A	Excavation to S3	
A229425930	Strut S3 Installation (4 nos)	0			23	19-Apr-21 A	15-May-21 A	Strut S3 nstallation (4 nos)	
A229425940	Excv to FEL	0			15	17-May-21 A	03-Jun-21	Excv(to FEL	
Zone 4 (Ch	6121 - 6150)	0			115	26-Dec-20 A	21-May-21 A		
A229426711	Excavation Stage 1 - below strut S1	0			46	26-Dec-20 A	23-Feb-21 A	Excavation Stage 1 - below strut S1	
A229426090	Strut S1 installation (4 nos)	0			4	24-Feb-21 A	27-Feb-21 A	Strut S1 installation (4 nos)	
A229420260	Excavation to below strut S2	0			11	22-Mar-21 A	08-Apr-21 A	Excavation;to below strut S2	
A229426050	Strut S2 installation (4 nos)	0			7	15-Apr-21 A	23-Apr-21 A	Strut S2 installation (4 nos)	
	Excavation to below strut S3	0			18		18-May-21 A	Excavation to below strut S3	
A229420290	Strut S3 installation (2 nos)	0			4		21-May-21 A	Strut \$3 installation (2 nos)	
Permanent	Structure	80	18-Feb-21	28-May-21	189	22-Feb-21 A	-	Permanent Structure	
	DPR - Drainage, Watermains & UU Installation CH5962-6080	30	18-Feb-21	24-Mar-21	30	10-Jul-21	13-Aug-21		
A9540	DPR - CH6080-6150 - Base Slab	66	06-Mar-21	28-May-21	66	24-Jul-21	11-Oct-21		
A95401	DPR - Drainage, Watermains & UU Installation CH6080-6150	24	25-Mar-21	26-Apr-21	24	14-Aug-21	10-Sep-21		
Open Cut S	Section (Ch5962-6008)	0			131	22-Feb-21 A	02-Aug-21		
	15962 - 5997)	0			43	22-Feb-21 A	17-Apr-21 A		
	Blinding & Waterproofing	0			12	22-Feb-21 A	06-Mar-21 A	Blinding & Waterpropfing	
	Base Slab	0			10	08-Mar-21 A	18-Mar-21 A	Base Slab	
A2294262	Drainage Works	0			10	08-Mar-21 A	18-Mar-21 A	Drainage Works	
A2294595	Retaining Wall	0			7	19-Mar-21 A	26-Mar-21 A	Retaining Wall	
	Waterproofing and Backfilling	0			9		17-Apr-21 A	Waterpropfing and Backfilling	
	15997 - 6008)	0			48	05-Jun-21	· ·		
A2294261	-	0			9	05-Jun-21	16-Jun-21		
	Base Slab	0			12	17-Jun-21	30-Jun-21	Base Slab	
A2294262	Drainage Works	0			10	18-Jun-21	29-Jun-21	Drainage Works	
A2294261:	Retaining Wall	0			18	02-Jul-21	22-Jul-21	Retaining Wall	
A2294261	Waterproofing	0			9	23-Jul-21	02-Aug-21	Waterproofing	
Zone 1 (Ch	16008 - 6045)	0			130	15-Apr-21 A	17-Sep-21		
A22941991		0			40	15-Apr-21 A	02-Jun-21		
A229429550	DCS Pipes	0			60	15-Apr-21 A	26-Jun-21	DCS Pipes	
A22941992	Base Slab	0			15	03-Jun-21	21-Jun-21	Base Slab	
A229420490) Strut S3 removal	0			6	22-Jun-21	28-Jun-21	Strut S3 removal	
A229420500	South Apron Adit Wall	0			21	29-Jun-21	23-Jul-21	South Apron Adit Wall	
A2294199	SP Removal	0			6	02-Jul-21	08-Jul-21	SP Removal	
A229426140	Blinding	0			6	09-Jul-21	15-Jul-21	Blinding	
A229420510	Road Slab	0			12	24-Jul-21	06-Aug-21	Road Slab	
A229426220	Drainage Works	0			10	26-Jul-21	05-Aug-21	Drainage Works	
A229426260	Waterproofing and Backfilling	0			9	07-Aug-21	17-Aug-21	Waterpro	
A229420520) Strut S1 removal	0			6	18-Aug-21	24-Aug-21	Str	
A229420530	Retaining Wall	0			21	25-Aug-21	17-Sep-21		
Zone 2 (Ch	n6045 - 6080)	0			110	16-Apr-21 A	26-Aug-21		
	Blinding & Waterproofing	0			45	16-Apr-21 A	09-Jun-21	Blinding & Waterproofing	
A229420390	Base Slab	0			15	17-Jun-21	05-Jul-21	Base Slab	
				-	-	1		Date Revision Checked Approved	
Page 18 of 20	Discussed Dark	-			-				
Data Date: 29	9-May-21 Critical Activity		:D/201	8/04 I	rur	к коа	a 12 a	and initastructure vvorks	
	Actual Milestone			for [Dev	elopm	ients a	BOUYGUES 22-Feb-20 01V0 SPallo WYu	
	Actual Work								

Actual Work 🔷 Baseline Milestone

Baseline Bar

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Three Months Rolling Programme (May-21)

17-Jul-20 09-Oct-20

01V2

01V3

SPa/LLo

SPa/LLo

WYu

WYu

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start														
								January 03 10 17 24		ruary 14 21	<u>_</u>	March	April	3 25 02	May 09 16 23	June June 30 06 13	20 27 04	July 11 18 25 0	August	22 !9
A22942040	0 Strut S3 removal	0			6	06-Jul-21	12-Jul-21											Strut S3 remova		
A22942041	0 South Apron Adit Wall	0			21	13-Jul-21	05-Aug-21												South Apro	on Adit \
A22942042	0 Road Slab	0			12	06-Aug-21	19-Aug-21													Road S
A22942623	0 Drainage Works	0			9	07-Aug-21	17-Aug-21													Drainage
A22943501	Strut S1 removal	0			6	20-Aug-21	26-Aug-21													S
Zone 3 (C	h6080 - 6121)	0			75	04-Jun-21	01-Sep-21													
A22942044	9 Blinding & Waterproofing	0			9	04-Jun-21	15-Jun-21										Blinding & Waterp	roofing		
A22942045	0 Base Slab	0			15	16-Jun-21	03-Jul-21										Bas	e Slab		
A22942046	0 Strut S3 removal	0			6	05-Jul-21	10-Jul-21											Strut S3 removal		
A22942047	0 South Apron Adit Wall	0			21	12-Jul-21	04-Aug-21												South Apro	on Adit V
A2294430	Road Slab	0			12	05-Aug-21	18-Aug-21													Road S
A22942624	0 Drainage Works	0			10	06-Aug-21	17-Aug-21		 											Drainage
A2294450	Strut S2 & S1 removal	0			12	19-Aug-21	01-Sep-21													
WEST VE	NTILATION BUILDING [WVB]	202	03-Dec-20	11-Aug-21	208	04-Jan-21 A	15-Sep-21				1 1								WEST	TVENT
ELS syste	m & Foundation	146	03-Dec-20	04-Jun-21	137	04-Jan-21 A	23-Jun-21									ELS syst	em & Foundation			
A9650	WVB - Sheet Piles Installation 50% completion	48	03-Dec-20	30-Jan-21	55	04-Jan-21 A	11-Mar-21 A				·····	WVB-SheetP	iles Installation	50% completi	on					
A96501	WVB - Sheet Piles Installation 100% completion	48	01-Feb-21	31-Mar-21	82	12-Mar-21 A	23-Jun-21							·	= = = p = = = = = = = = = = = = = = =		WVB - She	et Piles Installation 1		lon
A9640	WVB - H-piles Drilling / Installation / Grouting 50% completion	66	19-Dec-20	12-Mar-21	0	29-May-21 A	29-May-21 A									I WVB - H-piles	Drilling / Installati	on / Grouting 50% c	ompletion	
A96401	WVB - H-piles Drilling / Installation / Grouting 100% completion	66	13-Mar-21	04-Jun-21	0	29-May-21 A	29-May-21 A									WVB - H	piles Drilling / Ins	tallation / Grouting 1	00% complet	ion
ELS Syste	m	56	05-Jun-21	11-Aug-21	56	13-Jul-21	15-Sep-21												ELS S	System
A9660	WVB - Pile Load Test & Pump Test	36	05-Jun-21	19-Jul-21	36	13-Jul-21	23-Aug-21													WV
A9680	WVB - Excavation to 1st Strut	20	20-Jul-21	11-Aug-21	20	24-Aug-21	15-Sep-21													
Excavation	n & Strutting	0			52	09-Jul-21	07-Sep-21													
KP10131	Pumping Test	0			12	09-Jul-21	22-Jul-21											Pumping	j Test	
KP10141	Excavation to below S1 50%	0			10	23-Jul-21	03-Aug-21												Excavation	to below
KP10151	Bulk Excavation Start	0			0	23-Jul-21												◆ Bulk Ex	cavation Start	
KP10171	Excavation to below S1 100%	0			10	04-Aug-21	14-Aug-21													cavation
KP10181	Strut S1 Installation 50%	0			9	04-Aug-21	13-Aug-21												Stru	ut S1 Ins
KP10191	Strut S1 Installation 100%	0			9	14-Aug-21	24-Aug-21													Str
KP10201	Strut S1 Pre-loading	0			2	25-Aug-21	26-Aug-21													∎ ¦S
KP10211	Excavation to below S2 50%	0			10	27-Aug-21	07-Sep-21													
SOUTHA	PRON ADIT	24	01-Apr-21	04-May-21	17	22-Mar-21 A	15-Apr-21 A					Y			OUTH APRON	I ADIT				
A9790	South Apron Adit - Sheet piling	24	01-Apr-21	04-May-21	17	22-Mar-21 A	15-Apr-21 A								outh Apron Ad	it Sheet piling				
C&C TUN	NEL / LAUNCHING SHAFT [C&C / LS]	185	19-Feb-21	04-Oct-21	238	01-Dec-20 A	20-Sep-21			V										
Shaft Exca	vation & Strutting	119	19-Feb-21	16-Jul-21	221	01-Dec-20 A	31-Aug-21			V	++	···············	-iii	·			iii	Shaft Excava	tion & Struttin	۱g
A2360	C&C Shaft - Concete Strutting Slab + Excavation Step 1	22	19-Feb-21	16-Mar-21	13	21-Jan-21 A	04-Feb-21 A				<u></u>		- Concete Strut		cavation Step	1				
A23601	C&C Shaft - Concete Strutting Slab + Excavation Step 2	22	17-Mar-21	15-Apr-21	14	05-Feb-21 A	24-Feb-21 A						C8	C Shaft - Cor	cete Strutting S	Slab + Excavation	Step 2			1
A2340	Double Cells Shaft - Excavation - Stage 1 to below Concrete Strut	24	19-Feb-21	18-Mar-21	29	24-Feb-21 A	29-Mar-21 A		· · · · ·		· ·		Double Cells Sh	aft - Excavatio	n - Stage 1 to	below Concrete S	trut			
A23602	C&C Shaft - Concete Strutting Slab + Excavation Step 3	22	16-Apr-21	12-May-21	28	25-Feb-21 A	29-Mar-21 A		· · · · · · · · · · · · · · · · · · ·		· ·	· · · ·			C&C \$haf	ft Concete Strutti	ng Slab + Excava	tion Step 3		
A23401	Cell 1 & Cell 2 Concrete Strut Construction	14	19-Mar-21	08-Apr-21	7	30-Mar-21 A	12-Apr-21 A								crete Strut Con					
A23603	C&C Shaft - Concete Strutting Slab + Excavation Step 4	18	13-May-21	03-Jun-21	30	30-Mar-21 A	08-May-21 A		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·						C&C Shaf		ng Slab + Excavatio	n Step 4	
A23402	Double Cells Shaft - Excavation - Step 2 to FEL	48	09-Apr-21	05-Jun-21	60	15-Apr-21 A	26-Jun-21										Double C	ells Shaft - Excavat	on - Step 2 to) FEL
A23604	C&C Shaft - Steel Strutting + Excavation Step 5	18	04-Jun-21	25-Jun-21	26	10-May-21 A	09-Jun-21		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·							C&C Shaf	t - Steel Strutting +	Excavation St	iep 5
A23605	C&C Shaft - Steel Strutting + Excavation to FEL	17	26-Jun-21	16-Jul-21	17	10-Jun-21	30-Jun-21											— C&C Shaft -	Steel Strutting) + Exca
Cut & Cov	ver ELS	0			221	01-Dec-20 A	31-Aug-21													
S1 Strutt	ing Slab	0			41	01-Dec-20 A	21-Jan-21 A													
	Capping Beam & Strutting Slab S1) Part 1	0				01-Dec-20 A														
South		0			4	02-Dec-20 A		· · · · · · · · · · · · · · · · · · ·												
	1 DS-02 to DS-04 Formworks Erection (WKK)	0			4			rmworks Erection (WKK)	 											
Overall		0			7	01-Dec-20 A	08-Dec-20 A			1										
Page 19 of 2	26 I Milestone V Summary															Date	Revision	Checked	Approv	ved
Data Date: 2	Planned Bar	F	D/201	8/04 T	run	k Roa	d T2 a	and Infrast	ructi	Ire V	N∩rk	s 🖌				05-Nov-19	00V0	WYu		¹
	CriticalAdtivity							t South A					BOU	YGUES		18-Dec-19 22-Eeb-20	00V1	WYu SPa/U o		/'

Actual Milestone Actual Work

Baseline Milestone

Baseline Bar

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for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

22-Feb-20

09-Apr-20

17-Jul-20

09-Oct-20

01V0

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

WYu

Activity I)	Activity Name	Dur	01V3 Start	01V3 Finish Du	r Start	Finish	2021 January February March April May June July August
								03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 01 08 15 2
		Steel Fixing for Capping Beam & Strutting Slab	0		4			ping Beam & Strutting Slab
		Pour 1 Concreting	0		1		A 07-Dec-20	
		Formwork removal & CJ cleaning	0		1			al & CJ cleaning
		antry Beam)	0				A 04-Jan-21	
	North		0		14	11-Dec-20	A 29-Dec-20	
		Gantry Beam & Y2N formation works (SAMMON)	0		8			eam & Y2N formation works (SAMMON)
		Blinding Concrete (WKK)	0		1			Concrete (WKK)
		Steel Fixing of Gantry Beam (BP)	0		4			eel Fixing of Gantry Beam (BP)
	A114221	Formworks erection of Gantry Beam (WKK)	0		6			Formworks erection of Gantry Beam (WKK)
	South	ELC Malian & Charle Jacks (DTD)	0		17		A 31-Dec-20	& Struits Installation (BTP)
		ELS Waling & Struts Installation (BTP)	0		4			
		GW removal & Excavation to Gantry Beam soffit (BTP)	0		Z			rál & Excavation tó Ganthy Belam sóffit (BTP) y Beam & Y2S formation works (SAMMON)
		Gantry Beam & Y2S formation works (SAMMON)	0		5			
		Blinding Concrete (WKK)	0		1			ng Concrete (WKK)
		Steel Fixing of Gantry Beam (BP)	0		8	23-Dec-20	A 30-Dec-20	Steel Fixing of Gantry Beam (BP) Formworks erection of Gantry Beam (WKK)
		Formworks erection of Gantry Beam (WKK)	0		4			Formworks erection of Gantry Beam (WKK)
	Overall	Pour 2 Concreting (WKK)	0		2		A 04-Jan-21	Pour 2 Concreting (WKK)
			0					Pour 2 Concreang (WKK) Pour 2 Formworksitemoval & CJ Cleaning (WKK & BTP)
		Pour 2 Formworks removal & CJ Cleaning (WKK & BTP)	0				A 04-Jan-21 A 21-Jan-21	
	South	pping Beam & Strutting Slab S1) Part 2	0				A 06-Jan-21	╶┋╌╌╞╌╌╞╌╴╞╌╴╡╌╴╡╌╴╡╌╴╞╶╴╞╌╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴╞╴╴
		ELS Removal at Zone C (DARWIN)	0				A 06-Jan-21	ELS Removal at Zone C (DARWIN)
	Overall		0				A 21-Jan-21	
		Blinding Conrete (WKK)	0				A 07-Jan-21	Blinding Conrete (WKK)
		Backfilling & Formation	0		2		A 09-Jan-21	Backfilling & Formation
		Steel Fixing Pour 3 (BP)	0		4		A 14-Jan-21	Steel Fixing Pour 3 (BP)
		Pour 3 Concreting (WKK)	0		1		A 15-Jan-21	Pour 3 Concreting (WKK)
		Concrete Strength Gain	0		3		A 18-Jan-21	Concrete Strength Gain
		Cut & Cover Bulk Excavation Start	0		0			◆ Cut & Cover Bulk Excavation Start
		er Bulk Excavation	0				A 31-Aug-21	
		Excavation to below S2	0		15		A 04-Feb-21	Excavation to below S2
		Strut S2 Construction	0		9		A 13-Feb-21	Strut S2 Construction
		Excavation to below S3	0		8		A 23-Feb-21	Excavation to below S3
		Strut S3 Construction	0		10		A 05-Mar-21	Strut S3 Construction
		Excavation to below S4	0		10		A 19-Mar-21	Excavation to below S4
		Permanent Strutting Slab S4	0		20		A 17-Apr-21	Permanent Strutting Slab S4
		Excavation to below S5	0		16		A 08-May-21	Excavation to pelow:S5
		Steel Strut S5	0		17	· ·	A 29-May-21	Steel Strut S5
		Excavation to below S6	0		9		-	Excavation:to below S6
		Steel Strut S6	0		12			Siteel/Strut/S6
		Excavation to FEL	0		12			Excavation to FEL
		Barrette Trimming	0		9			Barrette Trimming
		Drainage, Blinding & Waterproofing	0		12			Drainage, Blind
		Base Slab Construction 40%	0		12			Bas
		Base Slab Construction 80%	0		12		-	
	aunching		0		16	0	Ū	
	Capping B		0		59	02-Dec-20	A 12-Feb-21	
	Cell 2		0		49		A 31-Jan-21	╶┇╌╌┇╌╴┇╌╴┇╌╴┇╌╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇
	Pour 4 (S	outh)	0				A 16-Jan-21	
	A229429	ELS Wailing & Struts for Pour 4,5 & 6	0		3	25-Dec-20	A 30-Dec-20	ELS Wailing & Struts for Pour 4,5 & 6
	A113311	Dwall Breaking	0		6	31-Dec-20	A 07-Jan-21	Dwall Breaking
D -	o 00 -f 00	Milestone			·	1		Date Revision Checked Approved
-	e 20 of 26		_	• • • •	0/01 T			
Data	a Date: 29	-May-21 Critical Activity		:D/201	0/04 I ru	IIK KO		
		♦ ♦ Actual Milestone			for De	velopr	nents	t South Apron BOUYGUES 22-Feb-20 01V0 SPa/LL0 WYu SPa/LL0 WYu SPa/LL0 WYu
		Actual Work						
ĺ		Baseline Milestonie		Th	ree Mon	the Rr	llina P	ogramme (May-21)
				111			ining i	Dgramme (Iviay-21)

bit display	June July August 06 13 20 27 04 11 18 25 01 08 15 22 1
A11323 Timming 0 2 08-Jan-21A 09-Jan-21A 09-Jan-21A 1 <th></th>	
A113341 Steel Fixing 0 3 11 Jan 21 A 13 Jan 21 A 5 Steel Fixing 1 A113351 Formworks Erection 0 2 14 Jan 21 A 15 Jan 21 A 16 Jan 21 A	
A113351 Formworks Erection 0 2 14-Jan21A 15-Jan21A 1 Formworks Erection A229422 Concrete 0 1 16-Jan21A 16-Jan21A 1 Concrete Pour 5 (Norh) 0 18 02-Dec:20A 90-Jan21A 1 Concrete 0 0 18 02-Dec:20A 22-Dec:20A Stell Breaking 7 timming A229422 Dwall Breaking 7 timming 0 6 23-Dec:20A 32-Dec:20A Dece:40A	
A113351 Formworks Erection 0 2 14.Jan.21 A 15.Jan.21 A 16.Jan.21 A 15.Jan.21 A 16.Jan.21 A 16.Jan.	
Pour 5 (North) 0 31 02-Dec/20A 09-Jan/21A 1 0 1	
Pour 5 (North) 0 31 02-Dec/20 09-Jan/21A 1 <th1< th=""> 1 <th1< th=""> <th< td=""><td></td></th<></th1<></th1<>	
A22942 Excavation & GW Breaking 0 18 02-Dec-20 A 22-Dec-20 A 24ion & GW Breaking 1	
A22942 Binding concrete 0 1 02 Jan 21 A 02 Jan 21 A Binding concrete A22942 Steel Fixing 0 4 04 Jan 21 A 07 Jan 21 A Steel Fixing 1 0 A22942 Formworks Erection 0 4 04 Jan 21 A 07 Jan 21 A Steel Fixing 1 0 A22942 Formworks Erection 0 2 07 Jan 21 A 08 Jan 21 A 109 Jan 21 A 09 Jan 21 A 109	
A22942 Steel Fixing 0 4 04-Jan-21 A 0-Jan-21 A Stee Fixing A22942 Formworks Erection 0 2 07-Jan-21 A 08-Jan-21 A Formworks Erection A22942 Concrete 0 1 09-Jan-21 A 09-Jan-21 A 08-Jan-21 A Concrete A22942 Concrete 0 1 09-Jan-21 A 09-Jan-21 A Concrete Image: Concrete Im	
A22942 Steel Fixing 0 4 04-Jan-21 A 0-Jan-21 A Stee Fixing A22942 Formworks Erection 0 2 07-Jan-21 A 08-Jan-21 A Formworks Erection A22942 Concrete 0 1 09-Jan-21 A 09-Jan-21 A 08-Jan-21 A Concrete A22942 Concrete 0 1 09-Jan-21 A 09-Jan-21 A Concrete Image: Concrete Im	
A22942 Formworks Erection 0 2 07-Jan-21 A 08-Jan-21 A 09-Jan-21 A 109-Jan-21 A	
A22942 Concrete 0 1 09-Jan-21 A 09-Jan-21 A Concrete 1	
Gantry Beam South 0 25 02-Jan-21 A 31-Jan-21 A A113951 Dwall Breaking / Trimming 0 12 02-Jan-21 A 15-Jan-21 A A113961 Hand Trimming & Blinding 0 3 16-Jan-21 A 19-Jan-21 A Hand Trimming & Blinding A113971 Steel Fixing 0 4 20-Jan-21 A 23-Jan-21 A Steel Fixing A113981 Formworks Erection 0 3 25-Jan-21 A 27-Jan-21 A Formworks Erection A113991 Concrete 0 1 28-Jan-21 A 28-Jan-21 A Econgrete	
A113961 Hand Trimming & Blinding 0 3 16-Jan-21 A 19-Jan-21 A Hand Trimming & Blinding A113971 Steel Fixing 0 4 20-Jan-21 A 23-Jan-21 A Steel Fixing A113981 Formworks Erection 0 3 25-Jan-21 A 27-Jan-21 A Formworks Erection A113991 Concrete 0 1 28-Jan-21 A 28-Jan-21 A Econcrete	
A113961 Hand Trimming & Blinding 0 3 16-Jan-21 A 19-Jan-21 A Hand Trimming & Blinding A113971 Steel Fixing 0 4 20-Jan-21 A 23-Jan-21 A Steel Fixing A113981 Formworks Erection 0 3 25-Jan-21 A 27-Jan-21 A Formworks Erection A113991 Concrete 0 1 28-Jan-21 A 28-Jan-21 A Concrete A22942t Concrete Strength Gain 0 3 29-Jan-21 A 31-Jan-21 A Concrete Strength Gain	
A113971 Steel Fixing 0 4 20-Jan-21 A 23-Jan-21 A Steel Fixing 1 1 A113981 Formworks Erection 0 3 25-Jan-21 A 27-Jan-21 A Image: Concrete Strength Gain 1 28-Jan-21 A 28-Jan-21 A 1mage: Concrete Strength Gain 1mag	
A113981 Formworks Erection 0 3 25-Jan-21 A 27-Jan-21 A Formworks Erection A113991 Concrete 0 1 28-Jan-21 A 28-Jan-21 A Concrete A22942t Concrete Strength Gain 0 3 29-Jan-21 A 31-Jan-21 A Concrete Strength Gain	
A113991 Concrete 0 1 28-Jan-21 A 28-Jan-21 A I Concrete A229428 Concrete Strength Gain 0 3 29-Jan-21 A 31-Jan-21 A I Concrete Strength Gain	
A229428 Concrete Strength Gain 0 3 29-Jan-21 A 31-Jan-21 A	
Cell 1 North 0 31 29-Dec-20 A 03-Feb-21 A	
Pour 8 & 9 0 31 29-Dec-20 A 03-Feb-21 A	
A113481 Sheet Pile for pour 8 & 9 0 3 29-Dec-20 A 31-Dec-20 A Sheet Pile for pour 8 & 9	
A113481 Sheet Pile for pour 8 & 9 0 3 29-Dec-20 A 31-Dec-20 A Sheet Pile for pour 8 & 9 A229422 Excavation & GW Breaking 0 16 02-Jan-21 A 20-Jan-21 A Excavation & GW Breaking 0 A113491 Dwall Breaking / Trimming 0 2 21-Jan-21 A 22-Jan-21 A 0 0 0	
A113491 Dwall Breaking / Trimming 0 2 21-Jan-21 A 22-Jan-21 A Dwall Breaking / Trimming	
A 113501 Blinding concrete	
A113511 Steel Fixing 0 5 25-Jan-21 A 29-Jan-21 A Steel Fixing	
A113521 Formworks Erection 0 3 30-Jan-21 A 02-Feb-21 A	
A113531 Concrete 0 1 03-Feb-21 A 03-Feb-21 A	
Ceil 1 South 0 35 02-Jan-21 A 12-Feb-21 A	
Pour 7 & 10 0 35 02-Jan-21 A 12-Feb-21 A	
A21 GW removal 0 5 02-Jan-21 A O7-Jan-21 A GW removal	
A31 Sheet Pile for Pour 0 4 08-Jan-21 A 12-Jan-21 A 🖬 Sheet Pile for Pour	
A41 ELS Wailing & Struts 0 2 13-Jan-21 A 14-Jan-21 A ELS Wailing & Struts	
A411 Dwall Breaking 0 8 15-Jan-21 A 23-Jan-21 A Dwall Breaking	
A413 Blinding concrete 0 1 25-Jan-21 A 25-Jan-21 A	
A414 Steel Fixing 0 11 26-Jan-21 A 06-Feb-21 A Steel Fixing	
A415 Formworks Erection 0 2 06-Feb-21 A 08-Feb-21 A	
A416 Concrete 0 1 09-Feb-21 A 09-Feb-21 A	
A417 Concrete Strength Gain 0 3 10-Feb-21 A 12-Feb-21 A	
Cell 1 & Cell 2 Excavation Bulk Excavation 0 118 29-Jan-21 A 26-Jun-21	
A52 Pump System Setup 0 6 29-Jan-21 A 04-Feb-21 A Pump System Setup	
A61 Pumping Test 0 13 05-Feb-21 A 23-Feb-21 A	
A74 Cell 1 & 2 Bulk Excavation Start 0 0 24-Feb-21 A	
A2294283! Excavation to -3.3mPD 0 14 24-Feb-21 A 11-Mar-21 A	
A2294283' Excavation to -10.2mPD 0 10 12-Mar-21 A 23-Mar-21 A C Excavation to -10.2mPD Excavation to -10.2mPD	
A2294284 Excavation to -14.75mPD 0 5 24-Mar-21 A 29-Mar-21 A	
A2294284 Concrete Strut Construction 0 7 30-Mar-21 A 12-Apr-21 A	
A2294290! Excavation to -21.25mPD 0 42 15-Apr-21 A 04-Jun-21	Excavation to -21.25mPD
A2294284 Excavation to -26.45mPD 0 9 05-Jun-21 16-Jun-21	Excavation to -26.45mPD
A2294284: Excavation to FEL 0 9 17-Jun-21 26-Jun-21	Excavation to FEL

Page 21 of 26 Data Date: 29-May-21 Milestone
 Summary
 Planned Bar

Actual Milestone
 Actual Work
 Baseline Milestone

Baseline Bar

iticalActivity

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

ED/2018/04 Trunk Road T2 and Infrastructure Works

BOUYGUES TRAVAUX PUBLICS



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

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish						
								January February March April May June July August 03 10 17 24 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 10 08 15 22 19					
Civil Works	for TBMAssembly	99	07-Jun-21	04-Oct-21	72	28-Jun-21	20-Sep-21						
A2370	Cell 2 WB Base slab	24	07-Jun-21	06-Jul-21	24	28-Jun-21	26-Jul-21	Cell 2 WB Base slab					
A2380	Cell 1 WB Tympanum	36	07-Jun-21	20-Jul-21	36	28-Jun-21	09-Aug-21						
A2425	C&C Dwal Removal Lead time	12	17-Jul-21	30-Jul-21	12	02-Jul-21	15-Jul-21	C&C Dwal Removal Le					
A2470	C&C Shaft - Base Slab	36	31-Jul-21	10-Sep-21	36	16-Jul-21	26-Aug-21						
A2390	Cell 1 WB Base Slab	24	07-Jul-21	03-Aug-21	24	27-Jul-21	23-Aug-21						
A2400	Cell 2 EB Base slab	24	07-Jul-21	03-Aug-21	24	27-Jul-21	23-Aug-21	Cell					
A2410	Cell 1 EB Tympanum	36	21-Jul-21	31-Aug-21	36	10-Aug-21	20-Sep-21						
A2420	Cell 1 EB Base Slab	24	04-Aug-21	31-Aug-21	24	24-Aug-21	20-Sep-21						
A2520	C&C Strut removal for G2 Shifting	18	11-Sep-21	04-Oct-21	18	27-Aug-21	16-Sep-21						
Launching	Shaft RC Structure	0			63	28-Jun-21	09-Sep-21						
Base Slat		0			63	28-Jun-21	09-Sep-21						
A2294309:	Blinding & Waterproofing	0			9	28-Jun-21	08-Jul-21	Blinding & Wateproofing					
A2294296	Base Slab Cell 2 30%	0			12	09-Jul-21	22-Jul-21	Base Slab Cell 2 30%					
	Base Slab Cell 2 80%	0			12	23-Jul-21	05-Aug-21	Base Slab Cell 2 8					
	Base Slab Cell 2 100%	0			6	06-Aug-21	12-Aug-21	Base Slab C					
	Base Slab Cell 1 25%	0			12	13-Aug-21	26-Aug-21						
	Base Slab Cell 1 50%	0			12	27-Aug-21	09-Sep-21						
Tympanu		0			57	28-Jun-21	02-Sep-21						
	Blinding & Waterproofing	0			9	28-Jun-21	08-Jul-21	Blinding & Waterproofing					
	Tympanum Pour 1	0			12	09-Jul-21	22-Jul-21	Tympanum Pour 1					
	Tympanum Pour 2	0			6	23-Jul-21	29-Jul-21	Tympanum Pour 2					
	Tympanum Pour 3	0			10	30-Jul-21	10-Aug-21	T;ympanum Pc					
	Tympanum Pour 4	0			10	11-Aug-21	21-Aug-21						
	Tympanum Pour 5	0			10	23-Aug-21	02-Sep-21						
	TBM TUNNEL - WESTBOUND	351	23-Oct-20	29-Dec-21	251	01-Dec-20 A	07-Oct-21						
Precast Fal		216	12-Apr-21	29-Dec-21		21-Dec-20 A	07-Oct-21						
	ast Segments	216	12-Apr-21	29-Dec-21		21-Dec-20 A	07-Oct-21						
	Precast TBM Segment - 10%	36	12-Apr-21	25-May-21		21-Dec-20 A							
	Precast TBM Segment - 20%	36	26-May-21	08-Jul-21	58		27-Mar-21 A						
	5	36	09-Jul-21	19-Aug-21	48		29-May-21 A						
	Precast TBM Segment - 40%	36	20-Aug-21	02-Oct-21	36	31-May-21	13-Jul-21						
		36	04-Oct-21	15-Nov-21	36	14-Jul-21	24-Aug-21						
	Precast TBM Segment - 60%	36	16-Nov-21	29-Dec-21	36	25-Aug-21	07-Oct-21						
Site Establi		275	23-Oct-20	27-Sep-21		01-Dec-20 A	27-Sep-21						
	ements Storage Yard	0				22-Mar-21 A	13-Sep-21						
Segment		0				22-Mar-21 A	13-Sep-21						
	Foundation civil works part 1	0			59	22-Mar-21 A	04-Jun-21	Foundation civil works part 1					
	RC Beam & Rail Installation 50% part 1	0			12	05-Jun-21	19-Jun-21	RC Beam & Rail Installation 50% part 1					
A2294290	RC Beam & Rail Installation 100% part 1 Gantry Crane Assembly part 1 50%	0			12 12	21-Jun-21 06-Jul-21	05-Jul-21 19-Jul-21	Gantry Crane Assembly part 1					
		0			12	20-Jul-21	02-Aug-21	Gantry Crane Assem					
	Foundation civil works part 2	0			12	03-Aug-21*	16-Aug-21	Foundatic					
		0			12	17-Aug-21	30-Aug-21						
	-	0			12	31-Aug-21	13-Sep-21	╶┼┇╌╌┇╌╴┇╌╴┇╌╴┇╌╴┇╌╴┇╌╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇╴╴┇					
	ane Setup for TBMAssembly	66	13-Apr-21	02-Jul-21	99	22-Mar-21 A	23-Jul-21	Gantry Crane Setup for TBM Assembly					
A229020	Gantry Crane - Ground Beam Construction	24	13-Apr-21	11-May-21	69	22-Mar-21 A	17-Jun-21	Gantry Crane - Ground Beam Construction					
A229030	Gantry Crane - Delivery & Assembly	36	12-May-21	24-Jun-21	24	18-Jun-21	16-Jul-21	Gantry Crane - Delivéry & Assemb					
A229040	Gantry Crane - Commissioning & Load Test	6	25-Jun-21	02-Jul-21	6	17-Jul-21	23-Jul-21	Gantry Crane - Commissioni					
	atment Plant	96	12-May-21	03-Sep-21	183	25-Jan-21 A	07-Sep-21						
			.2 100 / 21	00 0 0 p 2 1	100	20 00112171	0.00021						
Page 22 of 2	Discussed Days	_						Date Revision Checked Approved 05-Nov-19 00V0 WYu					
Data Date: 29	9-May-21 Critical Adivity		:D/201	8/04 I	run	K Koa	d 12 a	and Initastructure vvorks					
	Actual Milestone			for [)ev	elonm	ents a	BOUYGUES 22-Feb-20 01V0 SPa/LLO WYU					
	Actual Work					2.2011		09-Apr-20 01V1 SPa/LLo WYu					
4	Baseline Bar		Th		ntt	ne Roll	ina Dr	rogramme (May-21)					
	Baseline Bar Three Months Rolling Programme (May-21) Image: Descence Bar Image: Descence Bar Image: Descence Bar Three Months Rolling Programme (May-21)												

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish									2021							
								Janu 03 10			ebruary	21 28		arch	April	May 25 02 09 16 23		une 13 20 1	27 04		18 25		August
A6930	Slurry Treatment Plant - Civil works	36	12-May-21	24-Jun-21	105	18-Feb-21 A	28-Jun-21												I Slurry	Freatmer	nt Plant -	Civilworks	
A6940	Slurry Treatment Plant - Delivery & Assembly	24	10-Jun-21	09-Jul-21	24	15-Jun-21	13-Jul-21													🗖 Slu	rry Treatn	nent Plant	t - Delivery & A
A6945	Slurry Treatment Plant - Installation	48	10-Jul-21	03-Sep-21	48	14-Jul-21	07-Sep-21																
Desan	ding Area	0			48	25-Jan-21 A	24-Mar-21 A									····							
A22942	91 Trench	0			10	25-Jan-21 A	04-Feb-21 A			Tre	ench					····							ii-
A22942	91. Slab	0			10	18-Feb-21 A	01-Mar-21 A						Slab			· · · · · · · · · · · · · · · · · · ·							ii-
A22942	91: Desanding Area 1 Wall 25%	0			17	02-Mar-21 A	20-Mar-21 A							Desanc	ling Area 1 Wall 25%	· · · · · · · · · · · · · · · · · · ·							· · · · · ·
A22942	91. Desanding Area 1 Wall 50%	0			17	02-Mar-21 A	20-Mar-21 A							Desanc	ling Area 1 Wall 50%								
A22942	91! Desanding Area 1 Wall 75%	0			15	08-Mar-21 A	24-Mar-21 A							Des	anding Area 1 Wall 7	5%							
A22942	91/ Desanding Area 1 Wall 100%	0			15	08-Mar-21 A	24-Mar-21 A							Des	anding Area 1 Wall 1	00%							
Water	Treatment Plant	0			31	22-Mar-21 A	30-Apr-21 A																
A22942	911 Slab	0			10	22-Mar-21 A	07-Apr-21 A								Slab								
A22942	92' Tank Assembly part 1	0			11	19-Apr-21 A	30-Apr-21 A									Tank Assembly part							
TANK	I Area	0			26	03-May-21 A	02-Jun-21																
A22942	92: Slab	0			12	03-May-21 A	15-May-21 A									Slab							
A22942	921 Tank Assembly part 1	0			14	17-May-21 A	02-Jun-21										Tank A	ssembly pa	irt 1				
Filter P	ress Building Side	0			124	06-Mar-21 A	06-Aug-21																
A22942	91' Trench 50%	0			5	06-Mar-21 A	11-Mar-21 A							rench 50%									
A22942	921 Trench 100%	0			3	12-Mar-21 A	15-Mar-21 A							Trench 100	%								
A22942	92 Slab	0			4	13-Apr-21 A	17-Apr-21 A								🗖 Slab								
A22942	96: Wall FP 5	0			17	19-Apr-21 A	08-May-21 A									Wall FP 5							
A22942	96: Wall FP 6	0			12	10-May-21 A	24-May-21 A		· · · · · · · · · · · · · · · · · · ·							V	Vall FP 6						iii-
A22943	02 Wall FP 4	0			10	31-May-21	10-Jun-21		· · · · · · · · · · · · · · · · · · ·							····		Nall FP 4					iii-
A22943	02: Wall FP 3	0			10	11-Jun-21	23-Jun-21									·			/all FP 3				ii-
A22943	02: Wall FP 2	0			10	24-Jun-21	06-Jul-21									·				Wall FP 2	2		ii-
A22943	10/ Wall FP 1	0			10	07-Jul-21	17-Jul-21														Wall FP 1		
A22943	10 [°] Stock File Wall	0			12	19-Jul-21	31-Jul-21															Stock Fil	le Wall
A22943	10: Acide Wall	0			5	02-Aug-21	06-Aug-21											+				🗖 Adio	de Wall
Filter P	ress Sea Side	0			15	05-Feb-21 A	25-Feb-21 A																
A22942	92· Trench 50%	0			9	05-Feb-21 A	18-Feb-21 A					Trench 5	50%										
A22942	92! Trench 100%	0			6	19-Feb-21 A	25-Feb-21 A					Tre	ench 100	%									
TANK	2 Area	0			8	05-Apr-21 A	16-Apr-21 A		·														
A22942	92: Slab	0			8	05-Apr-21 A	16-Apr-21 A		· · · · · · · · · · · · · · · · · · ·						Slab	·							ii-
Extern	al Trenches	0			84	16-Mar-21 A	29-Jun-21																
A22942	971 Trench 30%	0			12	16-Mar-21 A	29-Mar-21 A								Trench 30%								
A22942	97 Trench 10	0			18	31-May-21	21-Jun-21											Tre	nch 10				
A22942	97. Trench 1	0			7	22-Jun-21	29-Jun-21												Trenc	h1			
Mortar I	Plant	72	12-May-21	06-Aug-21	185	01-Dec-20 A	20-Jul-21									▼						Mo Mo	ortar Plant
A229388	0 Mortar Plant - Installation	48	12-May-21	09-Jul-21	82	03-Mar-21 A	12-Jun-21													1		nstallation	
A229389	0 Mortar Plant - Commissioning	24	10-Jul-21	06-Aug-21	24	15-Jun-21	13-Jul-21		· · ·													— Мо	rtar Plant - Co
Mortar	Plant	0			185	01-Dec-20 A	20-Jul-21		· · ·														
A22942	87! batchers & Conveyors Civil works	0			9	01-Dec-20 A	10-Dec-20 A	iveyors Civil	l works						·								
A22942	75: Mixer & Silos Assembly 33%	0			31	07-Jan-21 A	15-Feb-21 A						ilos Asser										
A22942	75- Mixer & Silos Assembly 66%	0			26	16-Feb-21 A	17-Mar-21 A							Mixer & \$	ilos Assembly 66%								
A22942	75! Mixer & Silos Assembly 100%	0			63	18-Mar-21 A	05-Jun-21									·	Mixe	r & Silos A	sembly 1	00%			
A22942	77 Secatol & Aggregates Civil works 50%	0			9	07-Jun-21	17-Jun-21											🗖 Secat	ol & Aggr	gates	ivil works	50%	
A22942	87. Batchers & Conveyors Assembly 33%	0			12	07-Jun-21	21-Jun-21											Ba	tchers & (Conveyo	rs Assem	oly 33%	
A22942	77: Secatol & Aggregates Civil works 100%	0			9	18-Jun-21	28-Jun-21															vil works 1	
A22942	87: Batchers & Conveyors Assembly 66%	0			12	22-Jun-21	06-Jul-21											·		Batchers	& ¢onve	yors Asse	embly 66%
A22942	87. Batchers & Conveyors Assembly 100%	0			12	07-Jul-21	20-Jul-21								· · · · · · · · · · · · · · · · · · ·			i			Batche	rs & Conv	veyors Assemb
	f 26 ♦ Milestone ▼ Summary											1					Date		evision	(Checked		Approved
Page 23 of		–					а то ₋	سمطاب	f = - 1		4.		ر ام م				05-Nov-19			WY		· + - '	
Data Date:	29-May-21 Critical Adivity		:D/201	0/U4 I	rur	ik Roa	uıza	ina in	iirast	ruc	lure	; VV	OLK	5 /			18-Dec-19			WY		+	
		1		<i>c</i> -	~										ROUV								/

Actual Milestone Actual Work

> Baseline Milestone \diamond Baseline Bar

for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

22-Feb-20

09-Apr-20

17-Jul-20 09-Oct-20

01V0

01V1

01V2

01V3

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

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Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish	2021
								January February March April May June July August 03 10 17 24 31 07 14 21 28 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25 19
DG Store /	Medical Lock	243	01-Dec-20	27-Sep-21	243	01-Dec-20 A	27-Sep-21	
A2293920	Hyperbaric Intervention - LD consultation & Approval	144	01-Dec-20	31-May-21	188	01-Dec-20 A	23-Jul-21	Hyperbanic Intervention - LD
A2293930	DG Store / Medical Lock Installation	48	02-Aug-21	27-Sep-21	48	02-Aug-21*	27-Sep-21	
Barging Po	int at Portion P	24	23-Oct-20	20-Nov-20	23	22-Dec-20 A	20-Jan-21 A	
	Barging Point - Commissioning	24	23-Oct-20	20-Nov-20	20	28-Dec-20 A	20-Jan-21 A	Barging Point - Commissioning
Barging Pe	oint Spoil Ramp Instalation	0			23	22-Dec-20 A	20-Jan-21 A	
A2294276	Barging Point - Cover Installation	0			3	22-Dec-20 A	26-Dec-20 A	arging Point - Cover Installation
A2294292	Barging Point - Commissioning	0			20	28-Dec-20 A	20-Jan-21 A	Barging Point - Commissioning
TBMAssem	bly	24	15-Jun-21	13-Jul-21	53	06-Jul-21	05-Sep-21	TBM Assembly
A229425040	Installation of Seal Rings / Launching Seals for WB TBM Launching	24	15-Jun-21	13-Jul-21	24	06-Jul-21	02-Aug-21	Installation of Seal R
S1281 TBN	Assembly	0			40	21-Jul-21	05-Sep-21	
TBM Shiel	d Segment	0			40	21-Jul-21	05-Sep-21	
A100	TBM Delivery 1st Batch	0			0	21-Jul-21*		◆ TBM Delivery 1st Batch
A105	Shield Segment Assembly	0			14	14-Aug-21*	27-Aug-21	
A160	Shield Bolts & Cutterhead connection	0			9	28-Aug-21	05-Sep-21	
SUB-SEAT	BM TUNNEL - EASTBOUND	24	28-Jul-21	24-Aug-21	24	17-Aug-21	13-Sep-21	v su
TBMAssem	bly	24	28-Jul-21	24-Aug-21	24	17-Aug-21	13-Sep-21	
	Installation of Seal Rings / Launching Seals for EB TBM Launching	24	28-Jul-21	24-Aug-21	24	17-Aug-21	13-Sep-21	
	UNNEL CROSS PASSAGE (CP7-CP27a/b)	216	05-May-21	21-Jan-22	311	01-Feb-21 A	21-Feb-22	
	sign / Fabrication / FAT / Delivery	216	05-May-21	21-Jan-22	311	01-Feb-21 A	21-Feb-22	
A229424430		72	05-May-21	30-Jul-21		01-Feb-21 A		
A229424440		144	31-Jul-21	21-Jan-22	144	27-Aug-21	21-Feb-22	
	LING ROAD WORKS	84	23-Jul-20	31-Oct-20			28-Jun-21	
	et / Cha Kwo Ling Road Junction	84	23-Jul-20	31-Oct-20		01-Dec-20 A	28-Jun-21	
	WYS/CKLR Demolition of Island, Laying of Gully Pipes & Street Light Ducting	21	23-Jul-20	15-Aug-20	40	05-Dec-20 A		WY\$/CKLR Demolition of:Island, Laying of:Gully.Pipes & Street Light Ducting
	WYS/CKLR Construction of New Road Crossing	18	17-Aug-20	05-Sep-20	16	25-Jan-21 A		WYS/CKLR Construiction of New Road Crossing
	WYS/CKLR Setting of Oil Drum & Laying of Ducting for ATC	15	07-Sep-20	23-Sep-20	23	12-Feb-21 A		WYS/CKLR Setting of Oil Drum & Laying of Ducting for ATC
	WYS/CKLR Removal of Planter, Set back road Kerb and relocation of gully	18	24-Sep-20	16-Oct-20	23	22-Feb-21 A		WY.S/CKLR Removal of Planter, Set back road Kerb and relocation of gully
	WYS/CKLR Pavement works, Street Furniture & Road Lighting	12	17-Oct-20	31-Oct-20	24	22-Mar-21 A		WYS/CKLR Pavement works, Street Furniture & Road Lighting
	Section 8E Completion	0	17 Oct 20	31-Oct-20	0		17-Apr-21 A	◆ Section 8E Completion
	eet / Cha Kwo Ling Road Junction	0		51 001 20		01-Dec-20 A	28-Jun-21	
	TTA Stage 4	0			9	01-Dec-20 A		
	TTA Stage 3-2 part 1	0			10	09-Dec-20 A		de 3-2 part 1
	TTA Stage 3-2 part 2	0			33	21-Dec-20 A		TTA Stage 3-2 part 2
	TTA Stage 7 part 1	0			10	01-Feb-21 A		TTA Stage 7 part 1
	TTA Stage 7 part 2	0			27	15-Feb-21 A		TTA Stage 7 part 2
	TTA Stage 10	0			8	17-Feb-21 A		
	TTA Stage 11	0			40	26-Feb-21 A		TTA Stage 11
	TTA Stage 9	0			3	15-Mar-21 A		TTA Stage 9
	TTA Stage 8 part 1	0			6	19-Mar-21 A		TTA Stage 8 part 1
	TTA Stage 8 part 2	0			17	25-Mar-21 A		TTA Stage 8 part 2
	Reinstatement	0			58	19-Apr-21 A	28-Jun-21	Reinstatement
	REAK TUNNEL [D&BR]	95	05-Mar-21	02-Jul-21	95	09-Jun-21	30-Sep-21	▼. DRILL & BREAK TUNNEL:[D&BR]
Tunnel Exca		95	05-Mar-21	02-Jul-21	95	09-Jun-21	30-Sep-21	Tunhel Excavation
	EB - D&Br Tunnel - CH9057-9040 Type D - Excavation	34	05-Mar-21	17-Apr-21	34	09-Jun-21	20-Jul-21	EB - D&Br Tunnef - CH9057-9(
	Probe hole at CH9040	1	19-Apr-21	19-Apr-21	1	21-Jul-21	20-Jul-21	Probe hole at CH 9040
	EB - D&Br Tunnel - CH9040-9010 Type D - Excavation	60	20-Apr-21	02-Jul-21	60	22-Jul-21	30-Sep-21	
	LAST TUNNEL [D&BL]	171	17-Nov-20	18-Jun-21		01-Dec-20 A	16-Sep-21	▼ DRILL & BLAST TUNNEL [D&BL]
Tunnel Exca		159	17-Nov-20	03-Jun-21		01-Dec-20 A		▼ Tunnel Excavation
		139	17-1100-20	UJ-JUII-Z I	22.5	UT-DEC-20 A	02-3ep-21	
·		_						Date Pavision Checked Approved

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Data Date: 29-May-21

Milestone
 Planned Bar
 Oritical Activity

Summary

Actual Milestone
 Actual Work
 Baseline Milestone

aseline Bar

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



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		Approved
00V0	WYu	
00V1	WYu	
01V0	SPa/LLo	WYu
01V1	SPa/LLo	WYu
01V2	SPa/LLo	WYu
01V3	SPa/LLo	WYu
-	00V1 01V0 01V1 01V2	00V1 WYu 01V0 SPa/LLo 01V1 SPa/LLo 01V2 SPa/LLo

Activity ID	Activity Name	Dur	01V3 Start	01V3 Finish	Dur	Start	Finish					-	2021	-					/
								03	January	February	March	April April 11 18	May 3 25 02 09 16 23	June 30 06 13 20 13	27 04	July	18 25		August 8 15 22 9
Eastbound		159	17-Nov-20	03-Jun-21	223	01-Dec-20 A	02-Sep-21		* * *					Eastbound			0 20		10 22 11
	Drill & Blast	159	17-Nov-20	03-Jun-21		01-Dec-20 A	· ·	+	·		+ +			Full Face Drill & B	last				
A1236	Probe hole at CH9190	1	17-Nov-20	17-Nov-20	1	07-Dec-20 A		9,190			++								
A1240	EB - D&BI Tunnel - CH9190-9160 Type A - Excavation	13	18-Nov-20	02-Dec-20	43	08-Dec-20 A			+	EB D&BI Tunnel - C	H9190-9160 Type A - E>	cavation							
A1250	Probe hole at CH9160	1	03-Dec-20	03-Dec-20	1	30-Jan-21 A		-++		Probe hole at CH91	60								
A1260	EB - D&BI Tunnel - CH9160-9130 Type A&B&C - Excavation	18	04-Dec-20	24-Dec-20	32	01-Feb-21 A							130 Type A&B&C - Excavation						
A1270	Probe hole at CH9130	1	28-Dec-20	28-Dec-20	1	13-Mar-21 A			+		Probe hole								
A1270	EB - D&BI Tunnel - CH9130-9100 Type C - Excavation	20	20-Dec-20 29-Dec-20	20-Dec-20 21-Jan-21	27	15-Mar-21 A			·				EB - D&BI Tunnel - CH9130-9	100 Type C - Excavation					
A 1280		20	29-Dec-20 22-Jan-21	21-Jan-21 22-Jan-21	1	20-Apr-21 A	· ·	÷	· · · · ·				Probe hole at CH9100						
	Probe hole at CH9100	20			1 	-	-		·····	<u>{</u>				B - D&Bl Tunnel - CH9				covotion	
A1295	EB - D&BI Tunnel - CH9100-9070 Type C&D - Excavation	20	23-Jan-21	18-Feb-21	29	21-Apr-21 A	-		·					Probe hole at CH9070			αD - ΕΧ		
A1296	Probe hole at CH9070	11	19-Feb-21	19-Feb-21	10	27-May-21 A		\ 			<u> </u>								votion
A1300	EB - D&BI Tunnel - CH9070-9057 Type D - Excavation	11	20-Feb-21	04-Mar-21		28-May-21 A									шеі;- Сг -	19070-903 			
A1330	EB - D&BI Tunnel - CH9150-9090 Type B/C - Enlargement	38	05-Mar-21	22-Apr-21	38	09-Jun-21	24-Jul-21		·										unnel - CH915C
A1331	Probe hole at Branch Tunnel S01	1	23-Apr-21	23-Apr-21	1	26-Jul-21	26-Jul-21		·				•						e at Branch Tuni
A1340	EB - D&BI Tunnel - Branch Tunnel S01	33	24-Apr-21	03-Jun-21	33	27-Jul-21	02-Sep-21				¦ + + + + +								
	Tunnel - CH9220-9190 Type A - Excavation	0				01-Dec-20 A					· · · · · · · · · · · · · · · · · · ·								
	EB - D&BI Tunnel - CH9200-9190 Type A - Excavation 100%	0			5				00-9190 Type A -	Excavation 100%									
	Probe hole at CH9190	0			1	07-Dec-20 A		§190											
	Tunnel - CH9190-9160 Type A - Excavation	0				08-Dec-20 A													
	EB - D&BI Tunnel - CH9190-9175 Type A - Excavation 50%	0				08-Dec-20 A			· · · · · · · · · · · · · · · · · · ·	0-9175 Type A - Exca									
	EB - D&BI Tunnel - CH9175-9160 Type A - Excavation 100%	0			26	28-Dec-20 A					9175-9160 Type A - Exc	avation 100%							
	Probe hole at CH9160	0			1	28-Jan-21 A	28-Jan-21 A			Probe hole at CH9160	0								
	Tunnel - CH9160-9130 Type A&B&C - Excavation	0			155	29-Jan-21 A	10-Aug-21		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	l							
	EB - D&BI Tunnel - CH9160-9145 Type A&B&C - Excavation 50%	0			7	29-Jan-21 A		- ÷		EB D&B Tunn	el - CH9160-9145 Type								
	EB - D&BI Tunnel - CH9145-9135 Type A&B&C - Excavation 100%	0			22	06-Feb-21 A							Type A&B&C - Excavation 100	%					
	EB - D&BI Tunnel - CH9135-9115 Type C	0			20	08-Mar-21 A	30-Mar-21 A					I 🛱 - D&BI Tunn	el - CH9135-9115 Type C						
A229428:	EB - D&BI Tunnel - CH9119-9100 Type C	0			13	31-Mar-21 A	19-Apr-21 A						EB - D&BI Tunnel - CH9'119-9	100 Type C					
A229428:	EB - D&BI Tunnel - CH9103-9090 Type C	0			13	20-Apr-21 A	05-May-21 A	A					EB - D&BI †unne	I CH9103-9090 Type C					
A229429 ⁻	EB - D&BI Tunnel - CH9103-9075 Type C	0			14	06-May-21 A	22-May-21 A	۱					EB	- D&BI Tunnel - CH9103	-9075 T	ype C			
A229429 ⁻	EB - D&BI Tunnel - CH9103-9060 Type C	0			18	24-May-21 A	12-Jun-21							EB-D&BI					
A229430:	EB - D&BI Tunnel - CH9135-9115 Type C - Bench Enlargement 25%	0			12	15-Jun-21	28-Jun-21								EB - D)&Bl Tu¦nn	nel ¦ CH9	9135-9115	5 Type C - Benc
A229430.	EB - D&BI Tunnel - CH9135-9115 Type C - Bench Enlargement 50%	0			12	29-Jun-21	13-Jul-21												СН9135-9115 Ту
A229431	EB - D&BI Tunnel - CH9135-9115 Type C - Bench Enlargement 75%	0			12	14-Jul-21	27-Jul-21											1 1	I Tunnel - CH91
A229431(EB - D&BI Tunnel - CH9135-9115 Type C - Bench Enlargement 100%	0			12	28-Jul-21	10-Aug-21												EB - D&BI Tµr
Westbound	l l	78	07-Jan-21	15-Apr-21	187	29-Dec-20 A	17-Aug-21	▼	· · · · ·		<u>+</u> +	₩ We	stþound						
Full Face	Drill & Break	0			187	29-Dec-20 A	17-Aug-21	+	· · · · · · · · · · · · · · · · · · ·									·	
	_ Drill & Break	0			187	29-Dec-20 A	17-Aug-21	- 									<u> </u>		
A229428	WB - D&BI CH9248-9247 Type A - Excavation	0			28	29-Dec-20 A	30-Jan-21 A		++	WB - D&BI CH9248	9247 Type A - Excavatio	n						1	
A229428	WB - D&BI CH9198-9208 Type A - Excavation	0			25	27-Feb-21 A	27-Mar-21 A				++++++++	WB - D&BI CH919	8-9208 Type A - Excavation		+				
A229428	WB - D&BI CH9188-9178 Type A - Excavation	0			23	29-Mar-21 A	28-Apr-21 A						WB - D&BI CH9188-91	78 Type A - Excavation					
A229428 ⁻	WB - D&BI CH9178-9168 Type A - Excavation	0			9	29-Apr-21 A	10-May-21 A	۸ · · · · ·			* *		WB - D&BI C	H9178-9168 Type A - Ex	cavatio	n¦			
A229428 ⁻	WB - D&BI CH9168-9158 Type A - Excavation	0			10	11-May-21 A	22-May-21 A	\					WB	- D&BI CH9168-9158 Ty	ype A - E	Excavation	n		
	WB - D&BI CH9158-9148 Type A - Excavation	0			12	24-May-21 A									58-9148	B'Type A	- Excava	ation	
	WB - D&BI CH9148-9138 Type A - Excavation	0			12	07-Jun-21	21-Jun-21							WB	- D&BI (CH9148-9	913'8 Typ	pe A - Exc	avation
	WB - D&BI CH9198-CH9140 SG Excavation	0			6	22-Jun-21	28-Jun-21												Excavation
	WB - D&BI CH9228-9240 Type A - Excavation	0			12	29-Jun-21	13-Jul-21												9240 Type A - E
	WB - D&BI CH9198-CH9140 SG Excavation	0			6	14-Jul-21	20-Jul-21		· · · · · · · · · · · · · · · · · · ·										9198-CH9140'S
	WB Tunnel Service Gallery A Installation 50%	0			12	21-Jul-21	03-Aug-21		· · · · · · · · · · · · · · · · · · ·										Tunnel Service
	WB Tunnel Service Gallery A Installation 100%	0			12	04-Aug-21	17-Aug-21												WB Tun
	-	78	07-Jan-21	15-Apr-21	87	04-Aug-21 01-Apr-21 A	20-Jul-21		· · · · · · · · · · · · · · · · · · ·			Ful	I Face Drill & Blast						
	Drill & Blast	70	UT-Jail-21	13-Apt-21	07	UT-API-ZT A	20-JUI-21	•				▼ i'u							
 		1												Date R	, violon		Chaalia		Approved

- Page 25 of 26 Data Date: 29-May-21
- Milestone V Planned Bar

Summary

Critical A divity

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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 TRAVAUX PUBLICS

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

	Activity Name	Dur 01V3 Start 01V3 Finish Dur Start Finish 2021																		
								January February		ary	March		April	May	June	Ju	y	August		
								03 10	1/ 24	31 07	14 21	28 07	14 21 2	8 04 11 18 25	02 09 16 23	30 06 13 20	2/ 04 11	18 25 01	08 15	22 !9
41180	Probe hole at CH 9200	1	07-Jan-21	07-Jan-21	1	01-Apr-21 A	01-Apr-21 A	1 0 ; ;												
41190	WB - D&BI Tunnel - CH9200-9170 Type A - Excavation	23	08-Jan-21	03-Feb-21	29	02-Apr-21 A	11-May-21 A								WB - D&BI		0 Type A - Excav	ation		
41200	Probe hole at CH 9170	1	04-Feb-21	04-Feb-21	1	12-May-21 A	12-May-21 A			•	· · · ·				Probe hole	at CH9170				
41210	WB - D&BI Tunnel - CH9170-9140 Type A - Excavation	23	05-Feb-21	06-Mar-21	26	13-May-21 A	12-Jun-21									WB - D				on
A12111	WB - D&BI Tunnel - Backifling up to CH9140	30	08-Mar-21	15-Apr-21	30	15-Jun-21	20-Jul-21						· · · ·					💻 WB - D&BI	Tunnel - Ba	ckiflling
nnel Struc	ture WB CH9262-9140 Type A	33	10-May-21	18-Jun-21	33	10-Aug-21	16-Sep-21								V	V Tu	nnel Structure Wi	3 CH9262-9140	Туре А	
500	WB - D&BI Tunnel - CH9262-9140 Type A - Base slab / Kicker	33	10-May-21	18-Jun-21	33	10-Aug-21	16-Sep-21													
350	WB - W/P Gantry Type A Assembly	18	17-May-21	07-Jun-21	18	17-Aug-21	06-Sep-21												=	
oss Passa	age	49	08-Mar-21	08-May-21	139	19-Feb-21 A	09-Aug-21				· · · · ·	V			Cross Passa	e				
P 31		13	23-Apr-21	08-May-21	13	26-Jul-21	09-Aug-21							▼	▼ CP31					
229416832	CP31 - D&BI Excavation 16.7m	13	23-Apr-21	08-May-21	13	26-Jul-21	09-Aug-21												CP31	D&BI E
-32		7	08-Mar-21	15-Mar-21	7	19-Feb-21 A	26-Feb-21 A				· · · ·	V	▼ CP32							
1440	CP32 - D&BI Excavation 13.5m	7	08-Mar-21	15-Mar-21	7	19-Feb-21 A	26-Feb-21 A													
P32		0			7	19-Feb-21 A	26-Feb-21 A													
42294297!	CP32 - D&BI Excavation 13.5m	0			7	19-Feb-21 A	26-Feb-21 A					CP32 - Da	BI Excavation	13.5m						
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Page 26 of 26 Data Date: 29-May-21	 Milestone Planned Bar Critical A divity Actual Milestone Actual Work Baseline Milestone Baseline Bar 	ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron Three Months Rolling Programme (May-21)	BOUYGUE TRAVAUX PUBLI

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

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

	Actu	ual Quantitie	s of Inert C&	D Materials Ge	Actual Quantities of C&D Wastes Generated Monthly						
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused d. Reused ir in the Other Contract 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	17.559	0.000	0.500	16.698	0.361	0.000	14.800	0.200	0.000	0.200	0.125
February	18.317	0.000	0.390	17.814	0.113	0.000	12.500	0.000	0.000	0.000	0.082
March	35.911	0.000	0.000	35.818	0.093	0.000	0.000	0.000	0.000	0.000	0.113
April	19.056	2.107	0.820	16.703	1.533	0.000	273.540	0.000	0.000	0.000	0.094
May	24.657	1.209	0.397	3.112	21.148	0.000	113.200	0.000	0.000	0.000	0.072
June											
Sub-total	115.499	3.316	2.107	90.145	23.247	0.000	414.040	0.200	0.000	0.200	0.486
July											
August											
September											
October											
November											
December											
Total	115.499	3.316	2.107	90.145	23.247	0.000	414.040	0.200	0.000	0.200	0.486

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).