Civil Engineering and Development Department

Trunk Road T2 (under EP-458/2013/C)

Monthly Environmental Monitoring and Audit Report for June 2022

(version 1.0)

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

REMARKS:

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

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

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Ref.: CEDKTDT2EM00_0_0363L.22

13 July 2022

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 (June 2022) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for June 2022 (Version 1.0) certified by the ET Leader and provided to us via email on 13 July 2022. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

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

Y H Hui Independent Environmental Checker

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

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EXECUTIVE SUMMARY

Introduction

1. This is the 26th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of June 2022.

Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
 - Tunnel Segment delivery
 - West Bound Drill & Blast Tunnel
 - West Bound RC Structure Construction
 - CP 33 Excavation
 - East Bound RC Structure Construction
 - East Bound Service Gallery Drill & Blast
 - East Bound Service Gallery A Installation
 - East Ventilation Building WB Blinding & Waterproofing
 - East Ventilation Building EB Excavation
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Construction Noise

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

Air Quality

• Regularly watering on site to avoid dust generation.

Landscape and Visual

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

Environmental Monitoring Works

4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.

5. Summary of the non-compliance (exceedance) in the reporting month for the Project is tabulated in **Table I**.

Environment al Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken	
-	Action Level	Limit Level	Action Level	Limit Level		
Air Quality	0	0	0	0	N/A	
Noise	0	1	0	0	Detail refer to App N	
Marine Water Quality	N/A	N/A	N/A	N/A	N/A	
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A	
Ecological	N/A	N/A	N/A	N/A	N/A	
Cultural Heritage	N/A	N/A	N/A	N/A	N/A	
Landfill Gas	N/A ⁽¹⁾	N/A	N/A ⁽¹⁾	N/A	N/A	

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

Note: (1): No Action Level for Landfill Gas Monitoring.

Air Quality Monitoring

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

Construction Noise Monitoring

- 8. No Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table III**.
- 9. One (1) Limit Level exceedance for day time construction noise monitoring were recorded in the reporting month. Detail shall refer to **Appendix N**.

Water Quality Monitoring

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

Waste Management

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

Ecological Monitoring

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

Fisheries Impact Monitoring

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

Monitoring on Cultural Heritage

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

Landscape and Visual Monitoring and Audit

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

Landfill Gas Monitoring

18. Monitoring of landfill gases was commenced in December 2016. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required

Hazard to Life Monitoring

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

Environmental Site Inspection

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

Key Information in the Reporting Month

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

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

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

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

 Table III
 Summary of Complaints Details in Reporting Month

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure	
-	-	_	

Reporting Changes

23. The 24 TSP Monitoring at AM4(A) is suspended and under application for relocation in this reporting month. Once the proposal for relocation is approved, the monitoring at AM4(A) will at conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP- 451/2013), is located in close proximity to AM4(A); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for CKL2.

Future Key Issues

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

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

Site Activities (July 2022)		Key Environmental Issues
1.	Tunnel Segment delivery	
2.	West Bound – Drill & Blast Tunnel	
3.	West Bound – RC Structure Construction	
4.	East Bound – RC Structure Construction	(A) / (B) / (C) / (D)
5.	East Bound – Service Gallery Drill & Blast	(A) / (B) / (C) / (D)
6.	East Bound – Service Gallery A Installation	
7.	East Ventilation Building WB Blinding & Waterproofing	
8.	East Ventilation Building EB Excavation	

Note:

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

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

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

(D) Wastewater and runoff discharge from site.

1 INTRODUCTION

Background

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

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

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

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

1.5 Cinotech Consultants Ltd. was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project").

Purpose of the Report

1.6 This is the 26th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in June 2022.

Project Organizations

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

Table 1.1	Key Hoject Contacts			
Party	Role Contact Person		Phone No.	
CEDD	Permit Holder Mr. Wong Chi Wai, Tommy		3842 7111	
HMJV	Supervisor Representative Ms. Hazel Tang		2149 8524	
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091	
		Ms. Karina Chan	2157 3880	
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850	
BTP	BTP Contractor Ms. Ality Chan		5185 4462	

Table 1.1Key Project Contacts

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

Construction Activities undertaken during the Reporting Month

- 1.10 The major site activities undertaken in the reporting month included:
 - Tunnel Segment delivery
 - West Bound Drill & Blast Tunnel
 - West Bound RC Structure Construction
 - CP 33 Excavation
 - East Bound RC Structure Construction
 - East Bound Service Gallery Drill & Blast
 - East Bound Service Gallery A Installation
 - East Ventilation Building WB Blinding & Waterproofing
 - East Ventilation Building EB Excavation

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in June 2022.

Status of Environmental Licensing and Permitting

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

Table 1.2 Summary of Environmental License and Permit

	Valid	Statura			
Permit / License No.	From	То	Status		
Environmental Permit (EP)					
EP-451/2013	19 Sep 2013	N/A	Valid		
EP-458/2013/C	20 Jan 2017	N/A	Valid		
Notification pursuant to Air Pollution (Const	truction Dust) R	Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid		
Billing Account for Construction Waste Disp	osal				
A/C No.: 7036016	09 Dec 2019	N/A	Valid		
Construction Noise Permit					
CNP No. (For Portion Q): GW-RE0227-22	24 Mar 2022	23 Sep 2022	Valid		
CNP No. (For Portion T1): GW-RE0199-22	05 Mar 2022	04 July 2022	Valid		
CNP No. (For Portion T1): GW-RE0408-22	08 May 2022	07 July 2022	Valid		
Wastewater Discharge License					
WT00036699-2020	14 Jan 2021	31 Jan 2026	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 Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 1-hour and 24-hour TSP monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

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

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

Table 2.1 Air Quality Monitoring Locations

Remarks:

(1) For 1-hour TSP monitoring;

(2) For 24-hour TSP monitoring

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

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

(**) AM4(A) is not available for conducing monitoring due to the demolition of administrative office. Relocation of monitoring station is under progress and no 24 hr TSP monitoring being conducted prior to the approval of relocation from EPD. Detail refer to S2.13

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and	Parameters of Air Q	Quality Monitorin	g

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

(*): No 24 hr TSP monitoring being conducted prior to the approval of relocation from EPD.

Monitoring Equipment

- 2.4 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-173/2013), Section 2.3.1, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.5 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House for logging wind speed and wind direction such that the wind sensors are clear of obstructions or turbulence caused by building. The wind data monitoring equipment is recalibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

Equipment	Model	Quantity	
1-hour TSP Dust Meter	Sibata Model No. LD-5R	2	
1-nour TSP Dust Meter	(Serial No.: 972781, 972778)	2	
	GMW model: GS2310	2	
HVS Sampler	(Serial No.: 1287, 10379, 10599)	5	
	TE 5170 (Serial No.: 1956)	1	
Calibrator	TISCH Model: TE-5025A	1	
Calibrator	(Serial No.: 3864)	1	
Wind Anomomotor	Davis Weather Monitor II, Model no. 7440	1	
Wind Anemometer	(Serial No.: MC01010A44)	1	

Table 2.3Air Quality Monitoring Equipment

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.

- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

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

Operating/analytical procedures for the operation of HVS

- 2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.

- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of $0.3\mu m$ 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 (ALS Technichem (HK) Pty 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

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

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

Results and Observations

- 2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3 and AM4 are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report. The 24 TSP Monitoring at AM4(A) is suspended and under application for relocation in this reporting month. Once the proposal for relocation is approved, the monitoring at AM4(A) will at conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP- 451/2013), is located in close proximity to AM4(A); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for CKL2. The location of monitoring station CKL2 is shown in **Figure 2**.
- 2.14 The impact air quality monitoring was conducted at all five monitoring stations as scheduled. The monitoring schedule is shown in **Appendix D**.
- 2.15 No Action/ Limit Level exceedance were recorded for 24-hour TSP monitoring in the reporting month.

- 2.16 No Action/ Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Monitoring Stations	Major Dust Source
	Road Traffic at Cha Kwo Ling Road, non-project
AM1 – Tin Hau Temple	related influence and the construction activity from
	other construction site
AM2 – Sai Tso Wan Recreation	Road Traffic along Sin Fat Road
Ground	Road Traffic along Shi Fat Road
	Road Traffic near Eastern Cross Harbour Tunnel Toll
AM3 – Yau Lai Estate Bik Lai House	Plaza, non-project related influence and the
	construction activity from other construction site
AM4 - Sitting-out Area at Cha Kwo	Road Traffic at Cha Kwo Ling Road
Ling Village	Road Hame at Cha Kwo Ling Road
AM4(A) - Cha Kwo Ling Public	
Cargo Working Area Administrative	Road Traffic at Cha Kwo Ling Road ^(*)
Office	

Table 2.4 Major Dust Source during Air Quality Monitoring

(*): Field observation observed at CKL2 during monitoring is presented. Detail refer to S2.13.

Comparison of EM&A Result with EIA Prediction

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

Table 2.5 Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report	Table 2.5	Comparison of 1-	hr TSP Monitoring	Data with Prediction	s in EIA Report
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Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (June 2022), µg/m ³
AM1 – Tin Hau Temple	CL1	707	57.2
AM2 – Sai Tso Wan Recreation Ground	CL6	266	52.8

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (June 2022), μg/m ³
AM3 – Yau Lai Estate Bik Lai House	CL9	507	52.8
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	50.6

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- 173/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (June 2022), µg/m ³
AM1 – Tin Hau Temple	CL1	199	96.9
AM2 – Sai Tso Wan Recreation Ground	CL6	109	36.1
AM3 – Yau Lai Estate Bik Lai House	CL9	123	47.6
AM4(A) - Cha Kwo Ling Public Cargo Working Area Administrative Office ^(*)	N/A ⁽¹⁾	N/A ⁽¹⁾	88.2(**)

Remarks:

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

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

(**): Monitoring results at CKL2 is presented. Detail refer to S2.13

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

3 NOISE

Monitoring Requirements

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

Monitoring Locations

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

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

Table 3.1 Noise Monitoring Stations

Monitoring Parameters, Frequency and Duration

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

 Table 3.2
 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1				L (20 :)	Façade Measurement
CM2	0700 1000 1			L ₁₀ (30 min.) dB(A)	Façade Measurement
CM3	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Façade Measurement
CM4				$L_{eq}(30 \text{ min.})$	Façade Measurement
CM5				dB(A)	Façade Measurement

Monitoring Equipment

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

Table 5.5 Noise Monitoring f	quipment	
Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN 957 (Serial No.: 23852, 21455)	2
Calibrator	ST-120 (Serial No.: 181001608)	1

Table 3.3Noise Monitoring Equipment

Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - The wind speed was frequently checked with the portable wind meter.
 - At the end of the monitoring period, the L_{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

- 3.6 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.8 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a

known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

Results and Observations

- 3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.
- 3.10 No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- 3.11 One(1) Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month. Detail shall refer to **Appendix N**.
- 3.12 Noise monitoring results and graphical presentations are shown in Appendix G.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major noise sources identified at the noise monitoring stations are shown in Table 3.4.

Monitoring Stations	Major Noise Source
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CIVII	related construction activities
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CIVIZ	related construction activities
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project
CIVIS	related construction activities
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction
CIVI4	activities
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza,
CM5	Construction activity from other construction site,
	Road Traffic at Yau Tong Road

 Table 3.4
 Other Noise Source Identified during Noise Monitoring

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

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

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

Comparison of EM&A Result with EIA Prediction

3.14 The noise monitoring data was compared with the predictions in Table 4.15 of EIA Report (AEIAR-173/2013) as summarised in **Table 3.6**.

Table 3.6	Maximum Predicted Mitigated Construction Noise Levels in EIA Report	rt
1 abic 5.0	Maximum I realetted Miligated Construction 1005c Devels in Diff Repo	11

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (June 2022), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	77.9
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	75.4
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	75.6
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	67.2
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	70.6

3.15 The result at CM1, CM2 and CM3 were higher than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), that may due to the fluctuation of road traffic near Eastern Cross Harbour Tunnel Toll Plaza and the non-project related construction activities. However, the results at CM4and CM5 were lower than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013). One (1) Limit level exceedance was recorded in the reporting period. Detail of exceedance is presented in **Appendix N**.

4 WATER QUALITY

Monitoring Requirement

Groundwater Quality

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

Marine Water Quality

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

Groundwater Level Monitoring (Piezometer Monitoring)

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

5 WASTE MANAGEMENT

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

6 ECOLOGY

Post-Translocation Coral Monitoring

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

7 FISHERIES

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

8 CULTURAL HERITAGE

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

Mitigation Measures for Cultural Heritage

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

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

9 LANDSCAPE AND VISUAL IMPACT

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

10 LANDFILL GAS MONITORING

Monitoring Requirement

10.1 In accordance with Section 10.1.1 of the EM&A Manual (AEIAR-173/2013), monitoring of landfill gas is required for construction works within the Sai Tso Wan Landfill Consultation Zone during the construction phase. Since no excavation activity for this Project was carried out within the Sai Tso Wan Landfill Consultation Zone in the reporting month, no landfill gas monitoring is required.

11 HAZARD TO LIFE

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

12 ENVIRONMENTAL AUDIT

Site Audits

- 12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 12.2 Site audits were conducted on 02, 09, 17, 23 and 30 June 2022 in the reporting month. Site inspection of the IEC was conducted on 30 June 2022. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

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

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	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	26 May 2022	Stagnant muddy water was observed.	Stagnant water was pumped out discharge via sedimentation tank
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	30 June 2022	Oil stain was observed near generator. Contractor is suggested to prepare an emergency spill kit as to clean up spills of oil /chemical. Oil /Chemical was stored at different container. Designated area for chemical storage should be provided for proper storage of chemical /oil. Chemical waste producer license should be displayed properly	Follow-up on the next reporting period.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

 Table 12.1
 Observations and Recommendations of Site Audit

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

- No Action Level exceedance was recorded due to the documented complaint in the reporting month.
- One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

13 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

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

14 FUTURE KEY ISSUES

- 14.1 Tentative construction programmes for the next three months are provided in Appendix O.
- 14.2 Major site activities undertaken for the coming months are summarized as follows:
 - Tunnel Segment delivery
 - West Bound Drill & Blast Tunnel
 - West Bound RC Structure Construction
 - East Bound RC Structure Construction
 - East Bound Service Gallery Drill & Blast
 - East Bound Service Gallery A Installation
 - East Ventilation Building WB Blinding & Waterproofing
 - East Ventilation Building EB Excavation
- 14.3 Key environmental issues in the coming months include:
 - Make sure noise mitigation measures are implemented accordingly;
 - Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain; and,
 - Make sure mitigation measure for dust suppression are implemented on site.

Monitoring Schedule

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

CONCLUSIONS AND RECOMMENDATIONS

Conclusions

14.5 This is the 26th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

- 14.8 No Action Level exceedance was recorded due to documented complaint in the reporting month.
- 14.9 One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

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

Complaint, Notification of Summons and Successful Prosecution

14.11No environmental complaint was received in the reporting period. No notifications of summons and successful prosecutions were received in the reporting month.

Recommendations

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

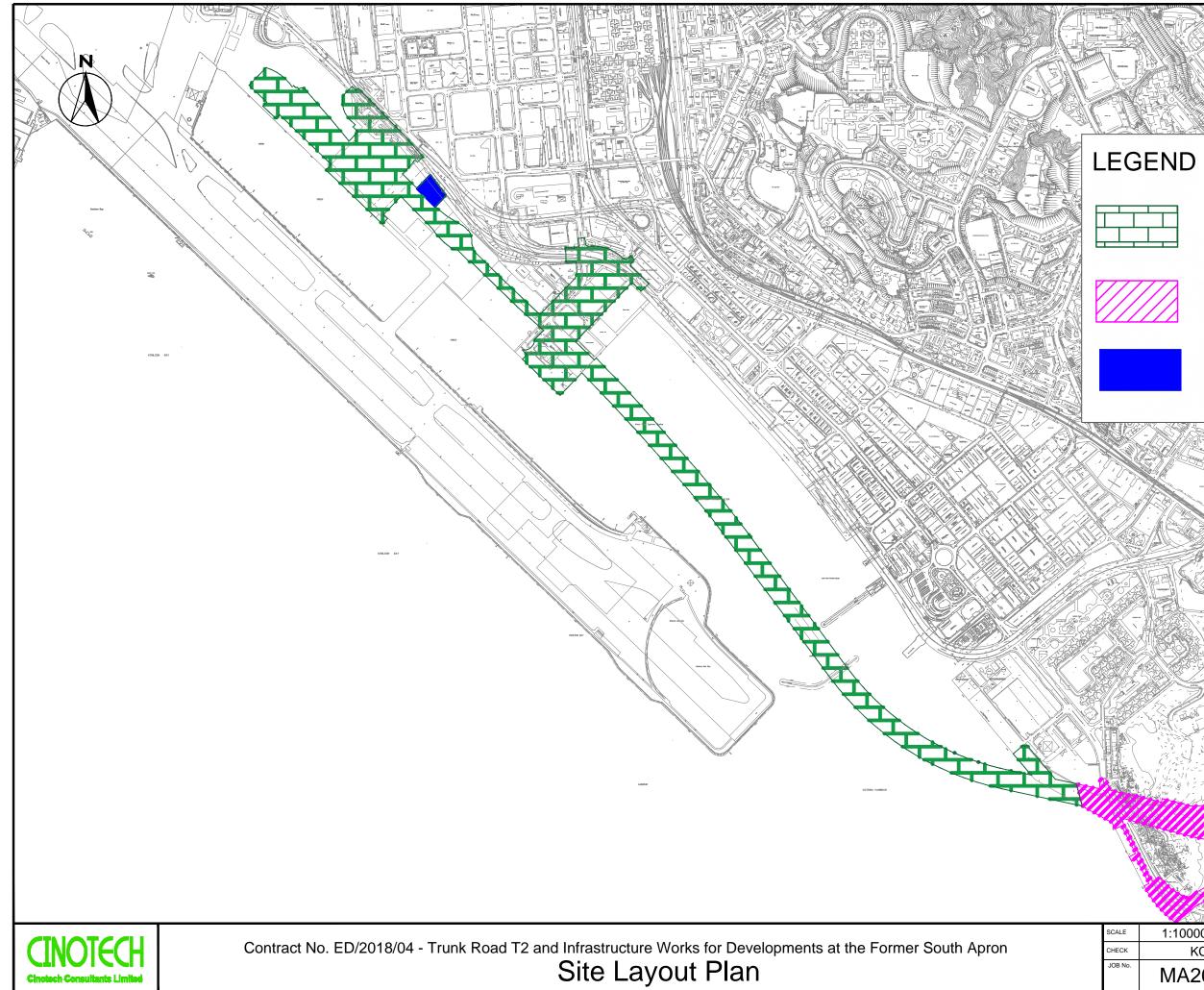
Water Quality

• Pounding water should be avoided.

Waste Management

- Contractor is suggested to prepare an emergency spill kit as to clean up spills of oil /chemical.
- Designated area for chemical storage should be provided for proper storage of chemical /oil.
- Chemical waste producer license should be displayed properly.

FIGURES



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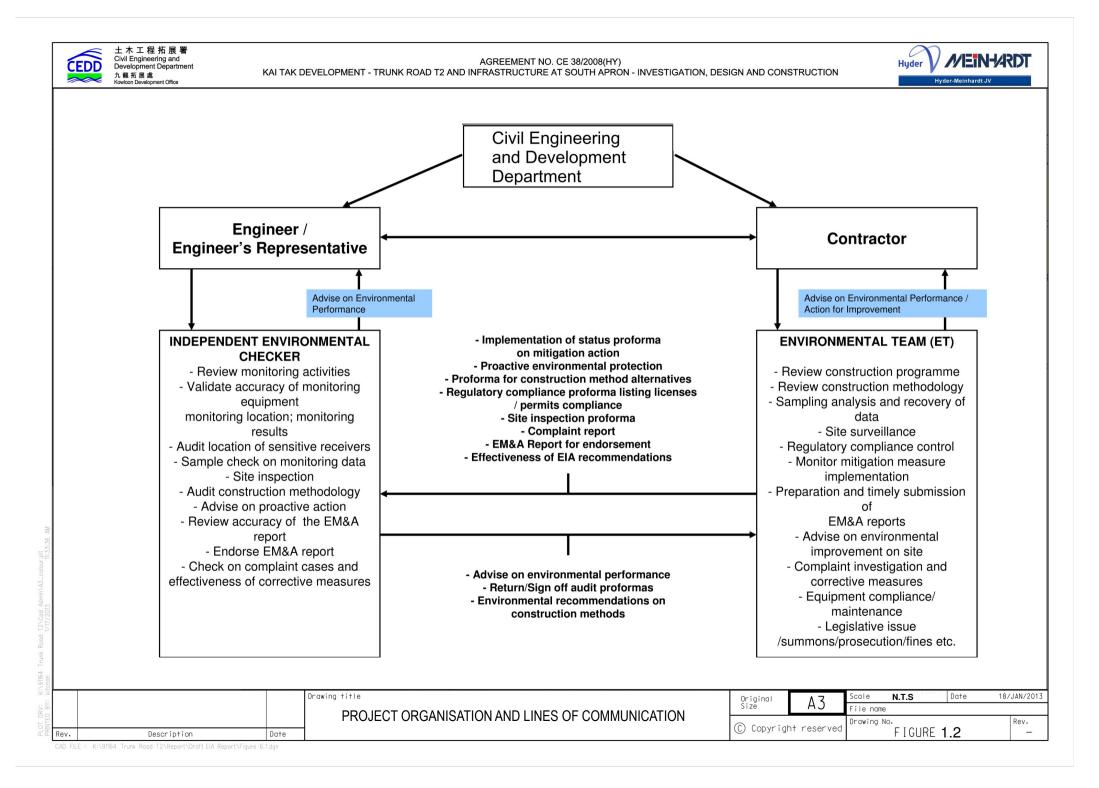
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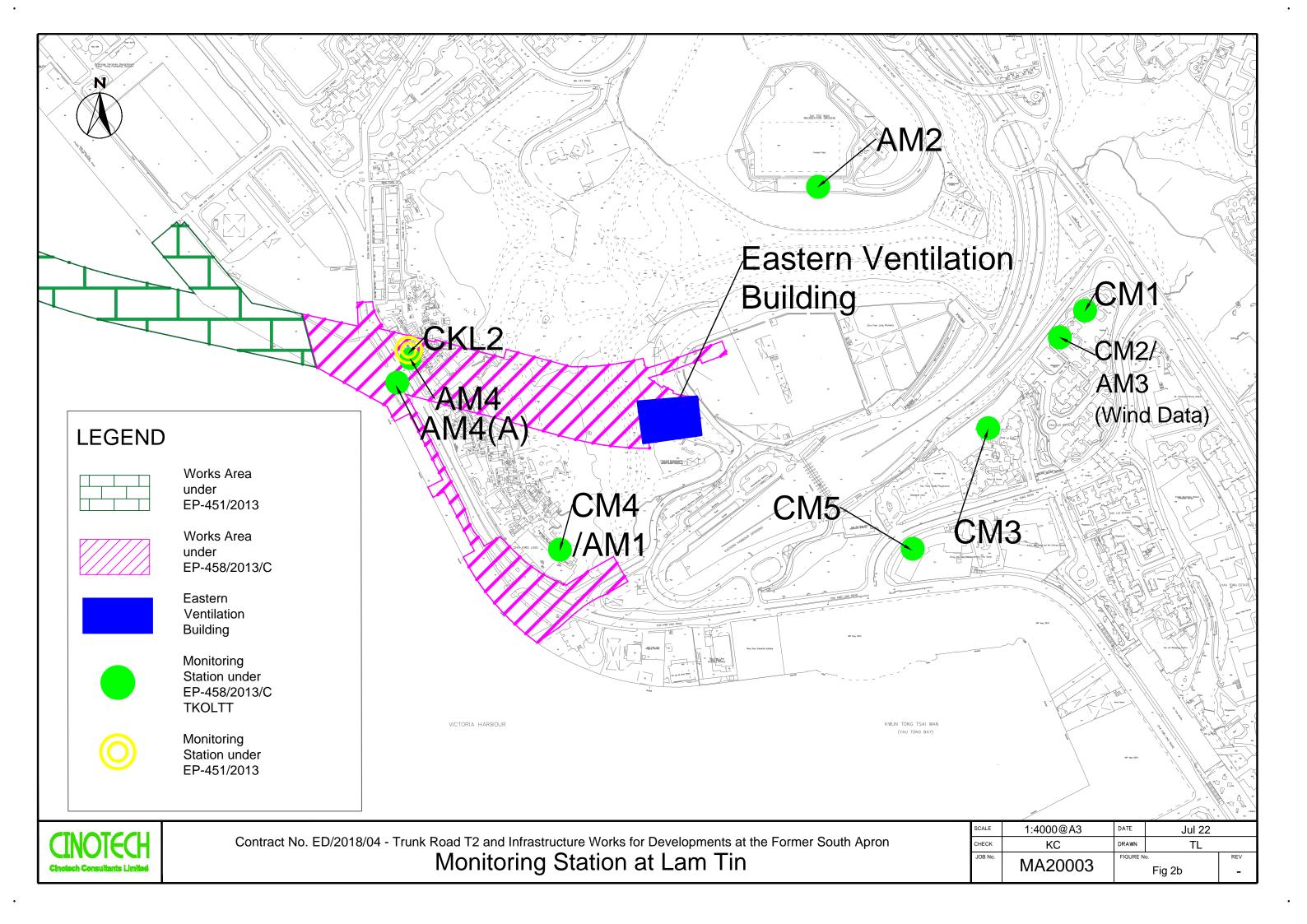
Works Area under Trunk Road T2

Works Area under Cha Kwo Ling Tunnel

Ventilation Building

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APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

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

24-hr TSP

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

<u>Noise</u>

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

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

Landfill Gas Monitoring

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

.



File No. MA16034/05/0035

Project No.	AM1 - Tin Hau	1 Temple				
Date:	9-A	pr-22	Next Due Date:	9-Jun-22	Operator:	SK
Equipment No.:	: A-01-05		Model No.:	GS2310	Serial No.	10599
Temperatu	re, Ta (K)	296.1	Ambient Condit Pressure, Pa (mmF		760	
1 •1110 •11414		22001	11000010,10 (11111	-8/	,	

Orifice Transfer Standard Information						
Serial No. 3864 Slope, mc 0.05922 Intercept, bc -0.02420						
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:						

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	3.64	61.96	9.6	3.11		
2	10.2	3.20	54.51	7.2	2.69		
3	7.7	2.78	47.42	5.4	2.33		
4	5.4	2.33	39.77	3.3	1.82		
5	3.0	1.74	29.75	2.0	1.42		
By Linear Regression of Y on X Slope , mw = <u>0.0535</u> Intercept, bw = <u>-0.2213</u> Correlation coefficient* = 0.9973							
		0.9973	-				
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.					
			-11-4				
From the TSD Fi	ald Calibration C	Set Point C urve, take Qstd = 43 CFM					
		e "Y" value according to					
From the Regres	sion Equation, the	e i value according to					
		mw x Qstd + bw = $[\Delta W x]$	x (Pa/760) x (29	98/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.29			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	k	X. Jan J	Date: 9-Apr-22		
Checked by:	Henry I	Leung Signature:	-lem	j Xoz_	Date: 9-Apr-22		



File No. MA16034/08/0035

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	9-A	pr-22	Next Due Date:	9-J	Jun-22	Operator:	SK
Equipment No.:	A-()1-08	Model No.: GS2310		52310	Serial No.	1287
			Ambient C	ondition			
Temperatu	re, Ta (K)	296.1	Pressure, Pa	(mmHg)		760	
			fice Transfer Star		ation		
	Serial No. 3864			Slope, mc 0.05922 Intercept, bc -0.024 mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)] ^{1/2}			-0.02420
Last Calibra		31-Jan-22					
Next Calibr	ation Date:	31-Jan-23	•	Q std = {[$\Delta H x$	(Pa/760) x (298/	1 a)] -bc} / n	10
		•	Calibration of [TSP Samplar			
~ 111 .		Or	fice	isi sampiel		HVS	
Calibration Point	ΔH (orifice), in. of water		0) x $(298/Ta)$] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/7	760) x (298/Ta)] ^{1/2} Y-axis
1	13.2		3.64		9.4		3.08
2	10.4		3.24		6.8		2.62
3	7.8		2.80	47.72	5.2		2.29
4	5.4		2.33	39.77	3.4		1.85
5	3.0		1.74	29.75	2.0		1.42
	0.0510 coefficient* =	_	9973	Intercept, bw -	-0.138	37	
			Set Point Ca	alculation			
		Curve, take Qstd he "Y" value acco	= 43 CFM				
Therefore, So	et Point; W = (n		$p = [\Delta W x]^2 x (760 / Pa) x $		98/Ta)] ^{1/2} 4.19		
Remarks:				h			
Conducted by:	Wong S	hing Kwai	Signature:	(/	八-	Date:	9-Apr-22

nducted by:	Wong Shing Kwai	Signature:		Date:	9-Apr-22	
Checked by:	Henry Leung	Signature:	fleng drag	Date:	9-Apr-22	



File No. MA16034/03/0035

Project No.	AM3 - Yau La					
Date:	9-A	Apr-22	Next Due Date:	9-Jun-22	Operator:	SK
Equipment No.:	ment No.: A-01-03		Model No.: GS2310		Serial No.	10379
			Ambient Condit	ion		
Temperatu	ure, Ta (K)	296.1	Pressure, Pa (mmI	Hg)	760	
			-			

Orifice Transfer Standard Information							
Serial No.	3864 Slope, mc 0.05922 Intercept, bc -0.02420						
Last Calibration Date:	31-Jan-22	I	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date: 31-Jan-23 $Qstd = \{[\Delta H \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2} - bc\} / mc$							

Calibration of TSP Sampler						
Calibration		Orfice		HVS		
Point	ΔH (orifice), in. of water	$[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Y-axis	
1	13.2	3.64	61.96	9.4	3.08	
2	10.4	3.24	55.04	7.0	2.65	
3	8.4	2.91	49.51	5.6	2.37	
4	5.4	2.33	39.77	3.4	1.85	
5	3.0	1.74	29.75	2.0	1.41	
By Linear Regression of Y on X Slope , mw = 0.0516 Intercept, bw0.1629						
Correlation	coefficient* =	0.9983				
*If Correlation C	Coefficient < 0.99	0, check and recalibrate.	_			
		Set Point C	alculation			
From the TSP Fi	eld Calibration C	urve, take Qstd = 43 CFM				
From the Regres	sion Equation, the	e "Y" value according to				
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\mathbf{\Delta}\mathbf{W}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (mv	$(x + bw)^2 x (760 / Pa) x ($	Ta / 298) =	4.20		
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	K	火	Date: 9-Apr-22	
Checked by:	Henry I	Leung Signature:	-lem	J	Date: 9-Apr-22	

.



File No. MA16034/05/0036

Project No.	AM1 - Tin Hau	ı Temple				
Date:	9-Jun-22		Next Due Date:	9-Aug-22	Operator: SK	
Equipment No.:	A-	01-05	Model No.:	GS2310	Serial No.	10599
			Ambient Condit	ion		
Temperatu	re, Ta (K)	299.3	Pressure, Pa (mm	Hg)	754	

Orifice Transfer Standard Information						
Serial No. 3864 Slope, mc 0.05922 Intercept, bc -0.02420						
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$				
Next Calibration Date:						

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	13.4	3.64	61.84	9.8	3.11		
2	10.3	3.19	54.27	7.4	2.70		
3	7.9	2.79	47.58	5.6	2.35		
4	5.5	2.33	39.77	3.5	1.86		
5	3.2	1.78	30.43	2.1	1.44		
By Linear Regression of Y on X Slope , mw = <u>0.0540</u> Intercept, bw : <u>-0.2347</u> Correlation coefficient* = 0.9988							
		0.9988	-				
*If Correlation C	Coefficient < 0.990), check and recalibrate.					
		Set Point C	alculation				
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 43 CFM					
		"Y" value according to					
rom the regres	sion Equation, the	¹ Value according to					
		$\mathbf{m}\mathbf{w} \mathbf{x} \mathbf{Q}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{b}\mathbf{w} = [\Delta \mathbf{W} \mathbf{x}]$	x (Pa/760) x (29	98/Ta)] ^{1/2}			
Therefore, Se	et Point; W = (mv	$(x + y + y)^{2} x (760 / Pa) x (760 / Pa)$	Ta / 298) =	4.42			
Remarks:							
Conducted by:	Wong Shi	ng Kwai Signature:	K	火.	Date: 9-Jun-22		
Checked by:	Henry I	Leung Signature:	- lem	3 7 ^{dro} 7	Date: 9-Jun-22		



File No. MA16034/08/0036

Project No.	AM2 - Sai Tso Wan Recreation Ground						
Date:	9-J	un-22	Next Due Date:	9-Aug-22	Operator:	SK	
Equipment No.:	A-	01-08	Model No.:	GS2310	Serial No.	1287	
			Ambient Condit	ion			
Temperatu	ıre, Ta (K)	299.3	Pressure, Pa (mml	Hg)	754		

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left({Pa/760} \right) x \left({298/Ta} \right) \right]^{1/2} \mbox{-bc} \} \mbox{/}$	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	13.4	3.64	61.84	9.7	3.10	
2	10.6	3.24	55.05	7.0	2.63	
3	8.0	2.81	47.88	5.4	2.31	
4	5.5	2.33	39.77	3.7	1.91	
5	3.2	1.78	30.43	2.2	1.47	
By Linear Regression of Y on X Slope , mw = 0.0505 Correlation coefficient* = 0.9972 *If Correlation Coefficient < 0.990, check and recalibrate.			Intercept, bw = _	-0.090	3	
Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) =						
Remarks:						
·	Wong Shi Henry I		: :lem	y. y Xroy	Date: 9-Jun-22 Date: 9-Jun-22	



File No. MA16034/03/0036

Project No.	AM3 - Yau Lai Estate, Bik Lai House					
Date:	9-Jun-22		Next Due Date:	9-Aug-22	Operator:	SK
Equipment No.:	A-01-03		Model No.:	GS2310	Serial No.	10379
			Ambient Condit	ion		
Temperatu	re, Ta (K)	299.3	Pressure, Pa (mml	Hg)	754	

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	31-Jan-23	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	12.9	3.57	60.69	9.1	3.00	
2	10.1	3.16	53.75	6.8	2.59	
3	8.1	2.83	48.17	5.3	2.29	
4	5.0	2.22	37.94	3.2	1.78	
5	2.8	1.66	28.49	1.8	1.33	
By Linear Regression of Y on X Slope , mw =						
Correlation	coefficient* =	0.9990	-			
*If Correlation C	Coefficient < 0.990), 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	"Y" value according to				
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =						
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature:	K	<u>у</u>	Date: 9-Jun-22	
Checked by:	Henry I	Leung Signature:	-lem	N- 7 ^{Xro} 7	Date: 9-Jun-22	



File No. MA20003/55/0014

Project No.	CKL 2 - Flat 103 Cha Kwo Ling Village					
Date:	5-May-22		Next Due Date:	5-Jul-22	Operator:	SK
Equipment No.:	A-01-55		Model No.:	TE 5170	Serial No.	1956
			Ambient Condit	on		
Temperatu	ıre, Ta (K)	297.2	Pressure, Pa (mmH	Ig)	759.3	

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05922	Intercept, bc	-0.02420
Last Calibration Date:	31-Jan-22	mc x Qstd + bc = $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$			
Next Calibration Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \mathbf{x}] \}$	$\left(Pa/760\right) x \left(298/Ta \right)]^{1/2} \ \text{-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	3.62	61.58	10.1	3.18	
2	11.1	3.33	56.72	7.8	2.80	
3	8.8	2.97	50.55	6.2	2.49	
4	5.5	2.35	40.05	3.5	1.87	
5	3.1	1.76	30.17	2.0	1.42	
By Linear Regression of Y on X Slope , mw =0.0555 Intercept, bw :0.3042 Correlation coefficient* =0.9972 *If Correlation Coefficient < 0.990, check and recalibrate.						
		Set Point (Calculation			
		urve, take Qstd = 43 CFM e "Y" value according to				
From the Regress	sion Equation, the					
$mw \ x \ Qstd + bw = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =						
Remarks:						
Conducted by:	Wong Shi	ng Kwai Signature	:	N. 1 Xoz	Date: 5-May-22	
Checked by:	Henry I	Leung Signature	:len	j Koz	Date: 5-May-22	

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00160



Issue Date : 10 Jan 2022

: HP00040 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-07 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 21455 Microphone No. 22391

Date Received	:	03 Jan 2022
Test Period	:	10 Jan 2022 to 10 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

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Issue Date : 10 Jan 2022

Report No.:00160Application No.:HP00040

Certificate of Calibration

Measuring

equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	113.8	-0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00168



Issue Date : 25 Jan 2022

: HP00044 Application No. **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Integrating Sound Level Meter. **Equipment No.:** : N-08-11 Manufacturer: : SVANTEK Other information : Model No. SVAN 957 Serial No. 23852 Microphone No. 22454 Data Racaivad 20 Jan 2022

Date Received	:	20 Jan 2022
Test Period	:	21 Jan 2022 to 21 Jan 2022
Test Requested	:	Performance checking for Sound Level Meter
Test Method	:	The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.
Test conditions	:	Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%
Test Result	:	Refer to the test result(s) on page 2.

: 1. Information of the sample description provided by the Applicant. Remark

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

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:



Issue Date : 25 Jan 2022

Report No.:00168Application No.:HP00044

Certificate of Calibration

Measuring

equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.2	+0.2	± 1.5

Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

Report No.

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

: 00150



Issue Date : 16 Nov 2021

Application No. : HP00032 **Certificate of Calibration** Applicant : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong Sample Description : Submitted equipment stated to be Sound Level Calibrator. Equipment No.: : N-13-01 Manufacturer: : SOUNDTEK Other information : Model No. ST-120 Serial No. 181001608 : 05 Nov 2021 Date Received Test Period : 08 Nov 2021 to 12 Nov 2021 : Performance checking for Sound Level Calibrator **Test Requested** Test Method : The Sound Level Meter and Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent. **Test conditions** : Room Temperature: 22-25 degree Celsius Relative Humidity: 35-70%

Test Result : Refer to the test result(s) on page 2.

Remark : 1. Information of the sample description provided by the Applicant.

2. The result(s) relate only to the items tested or calibrated.

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

S

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin NT, Hong Kong Tel: +852 3841 4388 Website: https://www.hpct.com.hk

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:



Issue Date : 16 Nov 2021

Report No.:00150Application No.:HP00032

Certificate of Calibration

Measuring equipment

Sound Calibrator
Brüel & Kjær
TYPE 4231
2326353
N-02-01
Sound Meter
BSWA Technology
BSWA 308
570188
570608
N-12-03

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 0.3
114.0	114.0	0.0	± 0.5

- Note : 1. "Instrument Readings" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.
 - 2. The indication value was obtained from the average of ten replicated measurement.

- End of report -

CINOTECH CONSULTANTS LIMITED



Certificate of Calibration

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

Description:	Digital Dust Indicator	Date	of Calibration	29-May-22	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calib	oration Record	29-Jul-22	
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity 0.001 mg/m3	_		
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensitivity Adjustment	735 CPM		
Tisch Calibration	n Orifice No.: <u>3864</u>	After Sensitivity Adjustment	735 CPM		
	Ca	libration of 1 hr TSP			
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (µg/ X-axis	m3) Ma	Mass concentration (µg/m ³) Y-axis		
1	75.0		157.0		
2	66.0		136.0		
3	53.0		113.0		
Average	64.7		135.3		
By Linear Regr Slope , mw = Correlation co	ression of Y on X <u>1.9837</u> pefficient* = <u>0.9969</u>	Intercept, bw =	7.0572		
	Se	t Correlation Factor			
Particaulate Con	centration by High Volume Sampler ($(\mu g/m^3)$	135.3		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)			64.7		
Measureing time	e, (min)		60.0		
Set Correlation I	Factor, SCF				

In-house method in according to the instruction manual:

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]

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

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

Calibrated by:

Approved by: 1 an Project Manager (Henry Leung)

2.1

Technical Officer (Wong Shing Kwai)

CINOTECH CONSULTANTS LIMITED



Certificate of Calibration

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

Description:	Digital Dust Indicator		Date	of Calibration	29-May-22
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibr	ration Record	29-Jul-22
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3	_	
High Volume Sa	ampler No.: A-01-03	Before Sensitiv	vity Adjustment	734 CPM	
Tisch Calibratio	on Orifice No.: 3864	After Sensitivi	ty Adjustment	734 CPM	
	Ca	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor	•		HVS	
Point	Mass Concentration (µg/	Mass concentration ($\mu g/m^3$)			
	X-axis		Y-axis		
1	78.0		157.0		
2	66.0			136.0	
3	53.0			110.0	
Average	65.7		134.3		
By Linear Reg Slope , mw = Correlation c			cept, bw =	10.7708	
	Se	t Correlation F	actor		
Particaulate Concentration by High Volume Sampler ($\mu g/m^3$)			134.3		
Particaulate Concentration by Dust Meter ($\mu g/m^3$)			65.7		
Measureing time	e, (min)		60.0		
Set Correlation	Factor, SCF				
SCF = [K=Hig	h Volume Sampler / Dust Meter, (μ	g/m3)]	2.0		

In-house method in according to the instruction manual:

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

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

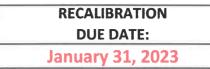
Calibrated by:

Approved by: _____

Technical Officer (Wong Shing Kwai)

Project Manager (Henry Leung)





Certificate of Calibration

			Calibration	Certificatio	on Informat	ion		
Cal. Date:	January 31	, 2022	Rootsi	meter S/N:	438320	Ta:	294	°K
Operator:	Jim Tisch				Pa:	Pa: 752.6		
Calibration Model #: TE-5025A Cal				prator S/N:	3864			mm Hg
								1
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4490	3.2	2.00	
	2	3	4	1	1.0320	6.4	4.00	
	3	5	6	1	0.9160	7.9	5.00	
	5	7	8 10	1	0.8730	8.8	5.50 8.00	
		9				1.2.7	8.00]
	L			Data Tabula	tion			
	Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right)}$)(<u>Tstd</u>) Ta)		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	is)	Va	(x-axis)	(y-axis)	
	0.9995	0.6898	1.416		0.9957	0.6872	0.8839	
	0.9952	0.9643	2.003		0.9915	0.9608	1.2500	
	0.9932	1.0843	2.240		0.9895	1.0802	1.3976	
	0.9920	1.1363	2.349		0.9883	1.1321	1.4658	
	0.9868	1.3649	2.833		0.9831	1.3598	1.7678	
			2.09281				1.31048	
	QSTD	b=	-0.024		QA	b=	-0.01514	
	r= 0.99			993		ľ=	0.99993	I
				Calculatio				
)/Pstd)(Tstd/Ta	a)	Va= ΔVol((Pa-ΔP)/Pa)			
	Qstd=	Vstd/∆Time			Qa= Va/ΔTime			
			For subsequ	uent flow rate calculations:				
	Qstd=	1/m ((Pa Tstd Pstd Ta)-ь)	Qa=	1/m ((√∆H	l(Та/Ра))-b)	
	Standard	Conditions						
Tstd:					RECALIBRATION			
Pstd:		mm Hg			LIS EDA room	mmonde	nnual recalibratio	on ner 1000
		(ey ter reading (i	n H2O)		US EPA recommends annual recalibration per 199 40 Code of Federal Regulations Part 50 to 51,			
		eter reading (i			_			
		perature (°K)			Appendix B to Part 50, Reference Method for th Determination of Suspended Particulate Matter			
		ressure (mm					erided Particulation erided Particulation erided Particulation erided eride	
b: intercept					LTI(e Aunosphe	sie, 3.2.17, page	50
m: slope								

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Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	<u>Davis7440</u>
Serial No.:	<u>MC01010A44</u>
Equipment No.:	<u>SA-03-04</u>
Date of Calibration	<u>19-Feb-2022</u>
Next Due Date	<u>19-Aug-2022</u>

1. Performance check of Wind Speed

Wind Sp	beed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.5	2.5	0.0
4.2	4.3	-0.1

2. Performance check of Wind Direction

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

Test Specification:

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

APPENDIX C WEATHER INFORMATION

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity	Precipitation (mm) ³
		(%) ²	
1-Jun-22	28.7	81	1.2
2-Jun-22	28.8	80	11.9
3-Jun-22	29.2	81	1.6
4-Jun-22	29.6	78	Trace
5-Jun-22	29.6	78	Trace
6-Jun-22	28.9	83	2.5
7-Jun-22	27.4	86	33.8
8-Jun-22	25.8	93	66.0
9-Jun-22	26.3	90	28.7
10-Jun-22	26.1	92	25.8
11-Jun-22	26.8	89	47.5
12-Jun-22	28.4	84	2.6
13-Jun-22	28.9	80	0.0
14-Jun-22	27.4	87	42.8
15-Jun-22	26.7	88	11.0
16-Jun-22	27.6	84	2.6
17-Jun-22	29.0	79	1.0
18-Jun-22	28.8	81	1.3
19-Jun-22	29.3	81	0.1
20-Jun-22	29.2	80	2.8
21-Jun-22	29.4	80	Trace
22-Jun-22	29.5	78	0.0
23-Jun-22	30.0	74	0.0
24-Jun-22	30.0	73	0.0
25-Jun-22	29.6	74	0.0
26-Jun-22	30.0	74	0.3
27-Jun-22	30.1	73	0.1
28-Jun-22	30.6	71	0.0
29-Jun-22	30.2	78	0.7
30-Jun-22	27.5	89	64.9

Appendix C - Weather Conditions During Impact Monitoring Period

(Reporting Month:June 2022)

Remarks:

Source - Hong Kong Observatory

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

June 2022				
Data	-	nd Directions Direction	Wind Snood m. o	
Date			Wind Speed m-s	
1 Jun 2022 1 Jun 2022	12:00 AM 1:00 AM	NE NE	0.4	
1 Jun 2022	2:00 AM	NNE	0.4	
1 Jun 2022	3:00 AM	N	0.4	
1 Jun 2022	4:00 AM	NNE	0.4	
1 Jun 2022	5:00 AM	NNE	0.4	
1 Jun 2022	6:00 AM	NNE	0.0	
1 Jun 2022	7:00 AM	NNE	0.0	
1 Jun 2022	8:00 AM	NNE	0.4	
1 Jun 2022	9:00 AM	NNE	0.4	
1 Jun 2022	10:00 AM	NNE	0.9	
1 Jun 2022	11:00 AM	N	0.9	
1 Jun 2022	12:00 PM	NNE	0.9	
1 Jun 2022	1:00 PM	NNE	0.9	
1 Jun 2022	2:00 PM	NE	0.9	
1 Jun 2022	3:00 PM	ENE	1.8	
1 Jun 2022	4:00 PM	NE	1.8	
1 Jun 2022	5:00 PM	NNE	0.9	
1 Jun 2022	6:00 PM	NNE	0.4	
1 Jun 2022	7:00 PM	SSE	0.4	
1 Jun 2022	8:00 PM	NNE	0.4	
1 Jun 2022	9:00 PM	NE	0.4	
1 Jun 2022	10:00 PM	NE	0.9	
1 Jun 2022	11:00 PM	ENE	1.3	
2 Jun 2022	12:00 AM	ENE		
2 Jun 2022 2 Jun 2022			2.2	
2 Jun 2022	1:00 AM 2:00 AM	ENE NNE	0.9	
2 Jun 2022	3:00 AM	ENE	0.9	
2 Jun 2022	4:00 AM	ENE	1.8	
2 Jun 2022 2 Jun 2022	4:00 AM 5:00 AM	ENE	1.8	
2 Jun 2022	6:00 AM	ENE	0.9	
2 Jun 2022 2 Jun 2022	7:00 AM	ENE	1.3	
2 Jun 2022 2 Jun 2022	8:00 AM	ENE	1.5	
		ENE	2.2	
2 Jun 2022	9:00 AM	ENE	3.1	
2 Jun 2022 2 Jun 2022	10:00 AM 11:00 AM	ENE	2.7	
2 Jun 2022	12:00 PM	ENE	2.7	
2 Jun 2022	1:00 PM	ENE	3.1	
2 Jun 2022	2:00 PM	ENE	0.4	
2 Jun 2022	3:00 PM	ENE	0.9	
2 Jun 2022	4:00 PM	ENE	0.9	
2 Jun 2022	5:00 PM	ENE	0.9	
2 Jun 2022	6:00 PM	ENE	0.9	
2 Jun 2022	7:00 PM	ENE	0.9	
2 Jun 2022	8:00 PM	ENE	1.8	
2 Jun 2022	9:00 PM	ENE	1.8	
2 Jun 2022	10:00 PM	ENE	0.9	
2 Jun 2022	11:00 PM	SW	0.9	
3 Jun 2022	12:00 AM	NNE ENE	0.9	
3 Jun 2022	1:00 AM	ENE	1.8	
3 Jun 2022	2:00 AM	ENE	1.8	
3 Jun 2022	3:00 AM	ENE	1.8	
3 Jun 2022	4:00 AM	ENE	3.1	
3 Jun 2022	5:00 AM	NNE	0.4	
<u>3 Jun 2022</u>	6:00 AM	WSW	0.0	
3 Jun 2022	7:00 AM	ESE	0.4	
3 Jun 2022	8:00 AM	SW	0.9	

June 2022					
Data	Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s		
3 Jun 2022	9:00 AM	SW	1.3		
3 Jun 2022 3 Jun 2022	10:00 AM	NE E	0.9		
3 Jun 2022 3 Jun 2022	11:00 AM 12:00 PM		1.3		
3 Jun 2022 3 Jun 2022	12:00 PM 1:00 PM	ENE SW	1.3		
3 Jun 2022	2:00 PM	<u> </u>	1.8		
3 Jun 2022	2:00 PM 3:00 PM	ESE	1.3		
3 Jun 2022	4:00 PM	SW	1.3		
3 Jun 2022	5:00 PM	SW	1.3		
3 Jun 2022	6:00 PM	SW	0.9		
3 Jun 2022	7:00 PM	SW	0.4		
3 Jun 2022	8:00 PM	ESE	0.4		
3 Jun 2022	9:00 PM	ESE	0.9		
3 Jun 2022	10:00 PM	SW	0.9		
3 Jun 2022	11:00 PM	SW	0.9		
4 Jun 2022	12:00 AM	ENE	0.9		
4 Jun 2022 4 Jun 2022	12.00 AM 1:00 AM	ENE	1.8		
4 Jun 2022 4 Jun 2022	2:00 AM	ENE	1.8		
4 Jun 2022 4 Jun 2022	2:00 AM 3:00 AM	E	0.9		
		ENE	0.9		
4 Jun 2022 4 Jun 2022	4:00 AM	ENE	1.3		
	5:00 AM				
4 Jun 2022	6:00 AM	ENE	0.9		
4 Jun 2022	7:00 AM	SE	0.4		
4 Jun 2022	8:00 AM	SW	0.9		
4 Jun 2022	9:00 AM	ENE	1.3		
4 Jun 2022	10:00 AM	ESE	1.3		
4 Jun 2022	11:00 AM	E	1.3		
4 Jun 2022	12:00 PM	ESE	1.8		
4 Jun 2022	1:00 PM	ESE	1.3		
4 Jun 2022	2:00 PM	S	1.3		
4 Jun 2022	3:00 PM	SW	1.3		
4 Jun 2022	4:00 PM	SW	0.9		
4 Jun 2022	5:00 PM	ENE	1.3		
4 Jun 2022	6:00 PM	SW	1.3		
4 Jun 2022	7:00 PM	SW	0.9		
4 Jun 2022	8:00 PM	NE	0.9		
4 Jun 2022	9:00 PM	ENE	1.8		
4 Jun 2022	10:00 PM	ENE	2.2		
4 Jun 2022	11:00 PM	ENE	1.8		
<u>5 Jun 2022</u>	12:00 AM	ENE	2.2		
5 Jun 2022	1:00 AM	ENE	2.2		
5 Jun 2022	2:00 AM	ENE	2.7		
5 Jun 2022	3:00 AM	ENE	2.2		
5 Jun 2022	4:00 AM	ENE	2.2		
5 Jun 2022	5:00 AM	ENE	2.2		
5 Jun 2022	6:00 AM	ENE	2.2		
5 Jun 2022	7:00 AM	ENE	1.8		
5 Jun 2022	8:00 AM	ENE	1.8		
5 Jun 2022	9:00 AM	ENE	2.2		
5 Jun 2022	10:00 AM	ENE	2.2		
5 Jun 2022	11:00 AM	ENE	1.3		
5 Jun 2022	12:00 PM	ENE	1.3		
5 Jun 2022	1:00 PM	ESE	1.3		
5 Jun 2022	2:00 PM	ENE	1.3		
5 Jun 2022	3:00 PM	ENE	1.8		
5 Jun 2022	4:00 PM	ENE	1.8		
5 Jun 2022	5:00 PM	ENE	2.2		

June 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
5 Jun 2022 5 Jun 2022	6:00 PM 7:00 PM	ENE ENE	1.8	
5 Jun 2022	8:00 PM	ENE	0.4	
5 Jun 2022	9:00 PM	ENE	0.9	
5 Jun 2022	10:00 PM	ENE	0.9	
5 Jun 2022	11:00 PM	ENE	0.9	
6 Jun 2022	12:00 AM	ENE	0.9	
6 Jun 2022	1:00 AM	ENE	1.8	
6 Jun 2022	2:00 AM	ENE	1.8	
6 Jun 2022	3:00 AM	ENE	0.9	
6 Jun 2022	4:00 AM	ENE	2.7	
6 Jun 2022	5:00 AM	ENE	2.2	
6 Jun 2022	6:00 AM	ENE	1.8	
6 Jun 2022	7:00 AM	ENE	1.8	
6 Jun 2022	8:00 AM	ENE	1.8	
6 Jun 2022	9:00 AM	ENE	2.7	
6 Jun 2022	10:00 AM	ENE	2.2	
6 Jun 2022	11:00 AM	ENE	1.3	
6 Jun 2022	12:00 PM	ENE	3.1	
6 Jun 2022	1:00 PM	ENE	2.7	
6 Jun 2022	2:00 PM	ENE	1.3	
6 Jun 2022	3:00 PM	ENE	2.7	
6 Jun 2022	4:00 PM	ENE	2.7	
6 Jun 2022	5:00 PM	ENE	3.1	
6 Jun 2022	6:00 PM	ENE	1.3	
6 Jun 2022	7:00 PM	ENE	2.7	
6 Jun 2022	8:00 PM	ENE	0.4	
6 Jun 2022	9:00 PM	ENE	0.9	
6 Jun 2022	10:00 PM	ENE	0.9	
6 Jun 2022	11:00 PM	ENE	0.9	
7 Jun 2022	12:00 AM	ENE	0.9	
7 Jun 2022	1:00 AM	ENE	0.9	
7 Jun 2022	2:00 AM	ENE	1.8	
7 Jun 2022	3:00 AM	ENE	1.8	
7 Jun 2022	4:00 AM	ENE	0.9	
7 Jun 2022	5:00 AM	ENE	2.2	
7 Jun 2022	6:00 AM	ENE	2.2	
7 Jun 2022	7:00 AM	ENE	2.7	
7 Jun 2022	8:00 AM	ENE	2.2	
7 Jun 2022	9:00 AM	E	1.3	
7 Jun 2022	10:00 AM	ENE	1.8	
7 Jun 2022	11:00 AM	ESE	1.8	
7 Jun 2022	12:00 PM	ENE	1.3	
7 Jun 2022	1:00 PM	ESE	1.3	
7 Jun 2022	2:00 PM	E	1.8	
7 Jun 2022	3:00 PM	ENE	1.8	
7 Jun 2022	4:00 PM	ESE	1.8	
7 Jun 2022	5:00 PM	ENE	1.8	
7 Jun 2022	6:00 PM	SE	1.3	
7 Jun 2022	7:00 PM	ENE	1.8	
7 Jun 2022	8:00 PM	ENE	1.3	
7 Jun 2022	9:00 PM	ESE	0.9	
7 Jun 2022	10:00 PM	E	0.9	
7 Jun 2022	11:00 PM	ENE	0.9	
8 Jun 2022	12:00 AM	ENE	0.9	
8 Jun 2022	1:00 AM	ESE	0.4	
8 Jun 2022	2:00 AM	SE	0.9	

June 2022					
D. (Wind Speed and Directions				
Date		Direction	Wind Speed m-s		
8 Jun 2022	3:00 AM	ENE	1.3		
8 Jun 2022 8 Jun 2022	4:00 AM 5:00 AM	SW ENE	0.9		
8 Jun 2022 8 Jun 2022	6:00 AM	ENE E	0.9		
8 Jun 2022 8 Jun 2022	6:00 AM 7:00 AM	SW	0.9		
8 Jun 2022	8:00 AM	ENE	0.4		
8 Jun 2022	9:00 AM	ENE	0.9		
8 Jun 2022	10:00 AM	SW	1.8		
8 Jun 2022	10:00 AM 11:00 AM	SW	0.4		
8 Jun 2022	12:00 PM	SSW	0.4		
8 Jun 2022	12.00 PM	SW	0.9		
8 Jun 2022	2:00 PM	SW	0.9		
8 Jun 2022	3:00 PM	SW	1.8		
8 Jun 2022	4:00 PM	SW	0.9		
8 Jun 2022	5:00 PM	SW	0.9		
8 Jun 2022	6:00 PM	SSE	0.4		
8 Jun 2022 8 Jun 2022	7:00 PM	NE SSE	0.0		
8 Jun 2022 8 Jun 2022	8:00 PM	NE	0.9		
8 Jun 2022	9:00 PM	NE	0.4		
	9:00 PM 10:00 PM	NE	0.9		
8 Jun 2022	10:00 PM 11:00 PM	ENE	0.9		
8 Jun 2022					
9 Jun 2022 9 Jun 2022	12:00 AM	SW	0.9		
9 Jun 2022 9 Jun 2022	1:00 AM	SSW			
	2:00 AM	SW	0.9		
9 Jun 2022	3:00 AM	SW	0.0		
9 Jun 2022	4:00 AM	SW	0.4		
9 Jun 2022	5:00 AM	SW	0.4		
9 Jun 2022	6:00 AM	SW	0.9		
9 Jun 2022	7:00 AM	SSW	0.0		
9 Jun 2022	8:00 AM		0.0		
9 Jun 2022	9:00 AM	NE	0.9		
9 Jun 2022	10:00 AM	ENE	1.3		
9 Jun 2022	11:00 AM	ENE			
9 Jun 2022	12:00 PM	SW	1.8		
9 Jun 2022	1:00 PM	ENE	0.9		
9 Jun 2022	2:00 PM	ENE	3.1		
9 Jun 2022 9 Jun 2022	3:00 PM	ENE	2.7		
	4:00 PM	ENE	2.2		
9 Jun 2022 9 Jun 2022	5:00 PM	ENE	2.2		
9 Jun 2022 9 Jun 2022	6:00 PM 7:00 PM	ENE	0.9		
9 Jun 2022 9 Jun 2022	7:00 PM 8:00 PM	ENE SW	0.9		
9 Jun 2022					
9 Jun 2022 9 Jun 2022	9:00 PM 10:00 PM	NNE ENE	0.4		
9 Jun 2022	11:00 PM	ENE	1.3		
10 Jun 2022	12:00 AM	ENE	1.3		
10 Jun 2022	12.00 AM 1:00 AM	ENE	1.3		
10 Jun 2022	2:00 AM	NE	1.3		
10 Jun 2022	3:00 AM	ENE	1.3		
10 Jun 2022	4:00 AM	ENE	0.9		
10 Jun 2022	4.00 AM 5:00 AM	ENE	1.3		
10 Jun 2022	6:00 AM	ENE	1.3		
10 Jun 2022	6:00 AM 7:00 AM	NE	1.3		
10 Jun 2022	7:00 AM 8:00 AM	NE	2.7		
10 Jun 2022	9:00 AM	NNE	3.1		
		N	3.1		
10 Jun 2022	10:00 AM	IN NNE	2.7		
10 Jun 2022	11:00 AM	ININE	2.1		

June 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
10 Jun 2022	12:00 PM	NNE	1.8	
10 Jun 2022	1:00 PM	NNE	1.3	
10 Jun 2022	2:00 PM	NNE	2.7	
10 Jun 2022	3:00 PM	NNE	2.2	
10 Jun 2022	4:00 PM	NNE	2.7	
10 Jun 2022	5:00 PM	NNE	3.1	
10 Jun 2022	6:00 PM	N	2.2	
10 Jun 2022	7:00 PM	NNE	1.3	
10 Jun 2022	8:00 PM	NNE	2.2	
10 Jun 2022	9:00 PM	NE	1.8	
10 Jun 2022	10:00 PM	ENE	2.2	
10 Jun 2022	11:00 PM	NE	3.1	
11 Jun 2022	12:00 AM	ENE	3.1	
11 Jun 2022	1:00 AM	ENE	3.6	
11 Jun 2022	2:00 AM	ENE	2.7	
11 Jun 2022	3:00 AM	ENE	2.2	
11 Jun 2022	4:00 AM	ENE	2.2	
11 Jun 2022	5:00 AM	ENE	2.2	
11 Jun 2022	6:00 AM	ENE	1.3	
11 Jun 2022	7:00 AM	ENE	1.3	
11 Jun 2022	8:00 AM	ENE	2.2	
11 Jun 2022	9:00 AM	ENE	2.7	
11 Jun 2022	10:00 AM	Е	1.3	
11 Jun 2022	11:00 AM	ESE	1.3	
11 Jun 2022	12:00 PM	ENE	1.3	
11 Jun 2022	1:00 PM	ENE	1.8	
11 Jun 2022	2:00 PM	Е	1.3	
11 Jun 2022	3:00 PM	SE	1.3	
11 Jun 2022	4:00 PM	ESE	1.8	
11 Jun 2022	5:00 PM	E	1.3	
11 Jun 2022	6:00 PM	ESE	0.9	
11 Jun 2022	7:00 PM	ESE	0.9	
11 Jun 2022	8:00 PM	ESE	0.9	
11 Jun 2022	9:00 PM	ENE	1.3	
11 Jun 2022	10:00 PM	ENE	2.2	
11 Jun 2022	11:00 PM	ENE	2.2	
12 Jun 2022	12:00 AM	ENE	2.2	
12 Jun 2022	1:00 AM	ENE	2.2	
12 Jun 2022	2:00 AM	ENE	2.7	
12 Jun 2022	3:00 AM	ENE	2.7	
12 Jun 2022	4:00 AM	ENE	1.8	
12 Jun 2022	5:00 AM	ENE	1.3	
12 Jun 2022	6:00 AM	ENE	2.2	
12 Jun 2022	7:00 AM	ENE	1.8	
12 Jun 2022	8:00 AM	ENE	1.8	
12 Jun 2022	9:00 AM	ENE	1.8	
12 Jun 2022	10:00 AM	ENE	0.9	
12 Jun 2022	11:00 AM	ENE	1.3	
12 Jun 2022	12:00 PM	ENE	1.8	
12 Jun 2022	1:00 PM	ENE	1.8	
12 Jun 2022	2:00 PM	Е	1.3	
12 Jun 2022	3:00 PM	ESE	1.3	
12 Jun 2022	4:00 PM	ENE	1.3	
12 Jun 2022	5:00 PM	ENE	1.3	
12 Jun 2022	6:00 PM	Е	0.9	
12 Jun 2022	7:00 PM	Е	0.9	
12 Jun 2022	8:00 PM	ENE	0.4	

June 2022				
Wind Speed and Directions				
Date		Direction	Wind Speed m-s	
12 Jun 2022	9:00 PM	SW	0.9	
12 Jun 2022	10:00 PM	SW	0.4	
12 Jun 2022	11:00 PM	ENE	1.3	
13 Jun 2022	12:00 AM	NNE	1.3	
13 Jun 2022	1:00 AM	NNE	0.9	
13 Jun 2022	2:00 AM	NE	1.3	
13 Jun 2022	3:00 AM	NNE	0.4	
13 Jun 2022	4:00 AM	NE	0.4	
13 Jun 2022	5:00 AM	NE	0.4	
13 Jun 2022	6:00 AM	NNE	0.4	
13 Jun 2022	7:00 AM	NE	0.9	
13 Jun 2022	8:00 AM	ENE	1.8	
13 Jun 2022	9:00 AM	ENE	1.8	
13 Jun 2022	10:00 AM	SW	0.9	
13 Jun 2022	11:00 AM	ENE	1.3	
13 Jun 2022	12:00 PM	ENE	1.3	
13 Jun 2022	1:00 PM	ENE	0.9	
13 Jun 2022	2:00 PM	SW	1.3	
13 Jun 2022	3:00 PM	ENE	1.8	
13 Jun 2022	4:00 PM	ENE	3.6	
13 Jun 2022	5:00 PM	ENE	3.1	
13 Jun 2022	6:00 PM	ENE	3.1	
13 Jun 2022	7:00 PM	ENE	2.7	
13 Jun 2022	8:00 PM	ENE	1.3	
13 Jun 2022	9:00 PM	ENE	1.3	
13 Jun 2022	10:00 PM	ENE	0.9	
13 Jun 2022	1		1.3	
	11:00 PM	ENE		
14 Jun 2022	12:00 AM	ENE	1.3	
14 Jun 2022	1:00 AM	NNE	0.9	
14 Jun 2022	2:00 AM	SW	0.4	
14 Jun 2022	3:00 AM	SW	1.3	
14 Jun 2022	4:00 AM	SW	1.3	
14 Jun 2022	5:00 AM	SW	0.9	
14 Jun 2022	6:00 AM	E	0.4	
14 Jun 2022	7:00 AM	SW	0.9	
14 Jun 2022	8:00 AM	ENE	0.4	
14 Jun 2022	9:00 AM	SW	0.9	
14 Jun 2022	10:00 AM	ENE	1.3	
14 Jun 2022	11:00 AM	ENE	2.2	
14 Jun 2022	12:00 PM	ENE	1.8	
14 Jun 2022	1:00 PM	ENE	1.8	
14 Jun 2022	2:00 PM	NE	1.8	
14 Jun 2022	3:00 PM	NE	1.3	
14 Jun 2022	4:00 PM	NNE	1.8	
14 Jun 2022	5:00 PM	N	1.3	
14 Jun 2022	6:00 PM	NNE	1.3	
14 Jun 2022	7:00 PM	NNE	1.3	
14 Jun 2022	8:00 PM	NNE	0.9	
14 Jun 2022	9:00 PM	NNE	1.8	
14 Jun 2022	10:00 PM	NNE	1.3	
14 Jun 2022	10:00 PM 11:00 PM	NNE	1.3	
15 Jun 2022	12:00 AM	NNE	0.9	
15 Jun 2022	1:00 AM	N	1.3	
15 Jun 2022	2:00 AM	NNE	0.9	
15 Jun 2022	3:00 AM	NNE	0.9	
15 Jun 2022	4:00 AM	NE	0.9	
15 Jun 2022	5:00 AM	ENE	0.9	

June 2022					
Data	Wind Speed and Directions Date Time Direction Wind Speed m-s				
Date	Time		Wind Speed m-s		
15 Jun 2022 15 Jun 2022	6:00 AM 7:00 AM	NE NE	0.4		
15 Jun 2022	8:00 AM	SSW	0.0		
15 Jun 2022	9:00 AM	SSW	0.9		
15 Jun 2022	10:00 AM	<u> </u>	1.3		
15 Jun 2022	11:00 AM	ENE	0.9		
15 Jun 2022	12:00 PM	ENE	0.9		
15 Jun 2022	1:00 PM	ENE	3.6		
15 Jun 2022	2:00 PM	ENE	2.2		
15 Jun 2022	3:00 PM	ENE	1.3		
15 Jun 2022	4:00 PM	SW	2.2		
15 Jun 2022	5:00 PM	SW	1.8		
15 Jun 2022	6:00 PM	SW	2.2		
15 Jun 2022	7:00 PM	SW	2.7		
15 Jun 2022	8:00 PM	SW	1.8		
15 Jun 2022	9:00 PM	SSW	0.9		
15 Jun 2022	10:00 PM	SSW	0.9		
15 Jun 2022	11:00 PM	SW	1.3		
16 Jun 2022	12:00 AM	SW	1.3		
16 Jun 2022	1:00 AM	SW	0.9		
16 Jun 2022	2:00 AM	SW	0.9		
16 Jun 2022	3:00 AM	SW	1.3		
16 Jun 2022	4:00 AM	WSW	0.4		
16 Jun 2022	5:00 AM	ENE	0.9		
16 Jun 2022	6:00 AM	SSE	0.4		
16 Jun 2022	7:00 AM	ENE	0.4		
16 Jun 2022	8:00 AM	ENE	0.4		
16 Jun 2022	9:00 AM	ENE	0.9		
16 Jun 2022	10:00 AM	ENE	0.9		
16 Jun 2022	11:00 AM	ENE	0.9		
16 Jun 2022	12:00 PM	ENE	0.9		
16 Jun 2022	1:00 PM	ENE	0.9		
16 Jun 2022	2:00 PM	ENE	1.8		
16 Jun 2022	3:00 PM	ENE	1.8		
16 Jun 2022	4:00 PM	ENE	0.9		
16 Jun 2022	5:00 PM	SW	2.2		
16 Jun 2022	6:00 PM	SW	3.6		
16 Jun 2022	7:00 PM	SW	1.3		
16 Jun 2022	8:00 PM	SW	0.9		
16 Jun 2022	9:00 PM	SW	0.9		
16 Jun 2022	10:00 PM	SW	0.4		
16 Jun 2022	10.00 PM 11:00 PM	SW	0.4		
17 Jun 2022	12:00 AM	SW	1.8		
17 Jun 2022	12:00 AM 1:00 AM	SW	0.9		
17 Jun 2022	2:00 AM	SW	0.9		
17 Jun 2022	3:00 AM	SW	1.3		
17 Jun 2022	4:00 AM	SW	1.3		
17 Jun 2022	5:00 AM	SW	0.4		
17 Jun 2022	6:00 AM	SW	0.9		
17 Jun 2022	7:00 AM	SW	1.3		
17 Jun 2022	8:00 AM	SW	0.9		
17 Jun 2022	9:00 AM	SW	0.9		
17 Jun 2022	9:00 AM 10:00 AM	SW	0.9		
17 Jun 2022 17 Jun 2022	10:00 AM 11:00 AM	SW	1.3		
17 Jun 2022 17 Jun 2022	12:00 AM	SW	1.3		
17 Jun 2022 17 Jun 2022	12:00 PM 1:00 PM	SW	2.2		
		SW	1.3		
17 Jun 2022	2:00 PM	2 44 6	1.3		

Cinotech

June 2022					
Data	Wind Speed and Directions				
Date		Direction	Wind Speed m-s		
17 Jun 2022	3:00 PM	NE	0.9		
17 Jun 2022	4:00 PM	SW	0.4		
17 Jun 2022	5:00 PM	SW	1.3		
17 Jun 2022	6:00 PM	SW	1.3		
17 Jun 2022	7:00 PM	SW	1.3		
17 Jun 2022	8:00 PM	NNE	0.4		
17 Jun 2022	9:00 PM	NNE	0.4		
17 Jun 2022	10:00 PM	SW	0.4		
17 Jun 2022	11:00 PM	SW	0.9		
18 Jun 2022	12:00 AM	SW	0.4		
18 Jun 2022	1:00 AM	SW	0.9		
18 Jun 2022	2:00 AM	SW	0.9		
18 Jun 2022	3:00 AM	SW	0.9		
18 Jun 2022	4:00 AM	SSW	0.4		
18 Jun 2022	5:00 AM	SW	0.4		
18 Jun 2022	6:00 AM	SW	0.9		
18 Jun 2022	7:00 AM	Е	0.9		
18 Jun 2022	8:00 AM	SW	0.4		
18 Jun 2022	9:00 AM	SW	0.9		
18 Jun 2022	10:00 AM	SW	1.3		
18 Jun 2022	11:00 AM	SW	0.9		
18 Jun 2022	12:00 PM	SW	1.3		
18 Jun 2022	1:00 PM	SW	1.8		
18 Jun 2022	2:00 PM	ENE	0.9		
18 Jun 2022	3:00 PM	ENE	0.4		
18 Jun 2022	4:00 PM	SW	0.4		
18 Jun 2022		SW			
	5:00 PM		0.9		
18 Jun 2022	6:00 PM	ENE	1.3		
18 Jun 2022	7:00 PM	ENE	0.4		
18 Jun 2022	8:00 PM	ENE	1.3		
18 Jun 2022	9:00 PM	SW	0.9		
18 Jun 2022	10:00 PM	SW	0.4		
18 Jun 2022	11:00 PM	SW	0.4		
19 Jun 2022	12:00 AM	SW	0.4		
19 Jun 2022	1:00 AM	SW	0.9		
19 Jun 2022	2:00 AM	SW	0.0		
19 Jun 2022	3:00 AM	ENE	0.3		
19 Jun 2022	4:00 AM	ENE	0.8		
19 Jun 2022	5:00 AM	ENE	0.2		
19 Jun 2022	6:00 AM	NE	0.0		
19 Jun 2022	7:00 AM	ENE	0.9		
19 Jun 2022	8:00 AM	NNE	0.4		
19 Jun 2022	9:00 AM	SW	0.9		
19 Jun 2022	10:00 AM	SW	1.3		
19 Jun 2022	11:00 AM	NNE	0.4		
19 Jun 2022	12:00 PM	ENE	0.9		
19 Jun 2022	1:00 PM	SW	1.8		
19 Jun 2022	2:00 PM	SW	2.2		
19 Jun 2022	3:00 PM	SW	2.2		
19 Jun 2022	4:00 PM	SW	2.2		
19 Jun 2022	5:00 PM	SW	1.8		
19 Jun 2022	6:00 PM	SW	1.8		
19 Jun 2022	7:00 PM	SW	0.9		
19 Jun 2022	8:00 PM	SW	1.3		
19 Jun 2022	9:00 PM	SW	1.8		
19 Jun 2022	10:00 PM	SW	0.9		
19 Jun 2022	11:00 PM	SW	0.9		

June 2022 Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
20 Jun 2022	12:00 AM	NNE	0.4
20 Jun 2022	1:00 AM	ENE	0.0
20 Jun 2022	2:00 AM	NE	0.4
20 Jun 2022	3:00 AM	NE	0.4
20 Jun 2022	4:00 AM	NNE	0.4
20 Jun 2022	5:00 AM	Ν	0.9
20 Jun 2022	6:00 AM	NNE	1.3
20 Jun 2022	7:00 AM	NNE	0.9
20 Jun 2022	8:00 AM	NNE	1.3
20 Jun 2022	9:00 AM	NNE	0.9
20 Jun 2022	10:00 AM	NNE	1.3
20 Jun 2022	11:00 AM	NNE	1.3
20 Jun 2022	12:00 PM	NNE	0.9
20 Jun 2022	1:00 PM	Ν	1.3
20 Jun 2022	2:00 PM	NNE	1.8
20 Jun 2022	3:00 PM	NNE	2.2
20 Jun 2022	4:00 PM	NE	3.1
20 Jun 2022	5:00 PM	ENE	3.1
20 Jun 2022	6:00 PM	NE	3.1
20 Jun 2022	7:00 PM	ENE	2.7
20 Jun 2022	8:00 PM	ENE	0.9
20 Jun 2022	9:00 PM	SW	1.8
20 Jun 2022	10:00 PM	ENE	0.9
20 Jun 2022	11:00 PM	NNE	0.4
21 Jun 2022	12:00 AM	ENE	0.4
21 Jun 2022	1:00 AM	ENE	0.4
21 Jun 2022	2:00 AM	ENE	0.4
21 Jun 2022	3:00 AM	SE	0.4
21 Jun 2022	4:00 AM	ENE	0.9
21 Jun 2022	5:00 AM	ENE	1.3
21 Jun 2022	6:00 AM	ENE	1.3
21 Jun 2022	7:00 AM	ENE	0.9
21 Jun 2022	8:00 AM	ENE	1.3
21 Jun 2022	9:00 AM	ENE	1.3
21 Jun 2022	10:00 AM	ENE	1.8
21 Jun 2022	11:00 AM	ENE	2.2
21 Jun 2022	12:00 PM	ENE	3.1
21 Jun 2022	1:00 PM	ENE	2.7
21 Jun 2022	2:00 PM	ENE	3.1
21 Jun 2022	3:00 PM	ENE	4.5
21 Jun 2022	4:00 PM	ENE	4.0
21 Jun 2022	5:00 PM	ENE	4.0
21 Jun 2022	6:00 PM	ENE	4.0
21 Jun 2022	7:00 PM	ENE	2.7
21 Jun 2022	8:00 PM	ENE	2.7
21 Jun 2022	9:00 PM	ENE	2.7
21 Jun 2022	10:00 PM	ENE	1.8
21 Jun 2022	11:00 PM	ENE	1.3
22 Jun 2022	12:00 AM	ENE	1.8
22 Jun 2022	1:00 AM	ENE	1.3
22 Jun 2022	2:00 AM	ENE	0.9
22 Jun 2022	3:00 AM	ENE	0.9
22 Jun 2022	4:00 AM	ENE	0.9
22 Jun 2022	5:00 AM	ENE	0.9
22 Jun 2022	6:00 AM	ENE	0.4
22 Jun 2022	7:00 AM	ENE	0.9
22 Jun 2022	8:00 AM	ENE	0.9

June 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
22 Jun 2022 22 Jun 2022	9:00 AM 10:00 AM	ENE	2.2	
22 Jun 2022 22 Jun 2022	10:00 AM 11:00 AM	ENE NE	3.1	
22 Jun 2022 22 Jun 2022	11:00 AM 12:00 PM	ENE	2.7	
22 Jun 2022	12:00 PM 1:00 PM	ENE	3.1	
22 Jun 2022 22 Jun 2022	2:00 PM	ENE	3.1	
22 Jun 2022	3:00 PM	ENE	2.7	
22 Jun 2022	4:00 PM	ENE	2.7	
22 Jun 2022	5:00 PM	ENE	2.2	
22 Jun 2022	6:00 PM	ENE	1.8	
22 Jun 2022	7:00 PM	ENE	1.8	
22 Jun 2022	8:00 PM	ENE	2.2	
22 Jun 2022 22 Jun 2022	9:00 PM	ENE	1.3	
22 Jun 2022 22 Jun 2022	10:00 PM	ENE	1.3	
22 Jun 2022 22 Jun 2022	10:00 PM	ENE	1.3	
23 Jun 2022	12:00 AM	ENE	1.3	
23 Jun 2022	1:00 AM	NE	0.9	
23 Jun 2022	2:00 AM	ENE	0.9	
23 Jun 2022	3:00 AM	ENE	0.9	
23 Jun 2022			0.9	
23 Jun 2022	4:00 AM 5:00 AM	ENE ENE	0.9	
23 Jun 2022	6:00 AM	NNE	0.4	
23 Jun 2022	7:00 AM	NE	0.4	
23 Jun 2022	8:00 AM	ENE	1.3	
23 Jun 2022	9:00 AM	NE	1.3	
23 Jun 2022	10:00 AM	NNE	0.9	
23 Jun 2022	11:00 AM	ENE	1.3	
23 Jun 2022	12:00 PM	SW	0.9	
23 Jun 2022	1:00 PM	ENE	0.9	
23 Jun 2022	2:00 PM	ENE	1.3	
23 Jun 2022	3:00 PM	ESE	1.3	
23 Jun 2022	4:00 PM	E	1.3	
23 Jun 2022	5:00 PM	E	0.9	
23 Jun 2022	6:00 PM	SW	1.3	
23 Jun 2022	7:00 PM	SW	0.9	
23 Jun 2022	8:00 PM	E	0.9	
23 Jun 2022	9:00 PM	NE	0.4	
23 Jun 2022	10:00 PM	NE	1.3	
23 Jun 2022	11:00 PM	NNE	1.8	
24 Jun 2022	12:00 AM	N	0.9	
24 Jun 2022	1:00 AM	NNE	0.9	
24 Jun 2022	2:00 AM	NNE	0.9	
24 Jun 2022	3:00 AM	NNE	0.4	
24 Jun 2022	4:00 AM	NNE	0.4	
24 Jun 2022	5:00 AM	NNE	0.9	
24 Jun 2022	6:00 AM	NNE	1.3	
24 Jun 2022	7:00 AM	NNE	1.3	
24 Jun 2022	8:00 AM	N	1.3	
24 Jun 2022	9:00 AM	NNE	0.9	
24 Jun 2022	10:00 AM	NNE	1.3	
24 Jun 2022	11:00 AM	NE	3.1	
24 Jun 2022	12:00 PM	ENE	2.7	
24 Jun 2022	1:00 PM	NE	3.1	
24 Jun 2022	2:00 PM	SW	2.2	
24 Jun 2022	3:00 PM	SW	2.7	
24 Jun 2022	4:00 PM	SW	2.2	
24 Jun 2022	5:00 PM	SW	2.2	

	June 2022				
Data	Wind Speed and Directions				
Date	Time	Direction SW	Wind Speed m-s		
24 Jun 2022	6:00 PM		2.7		
24 Jun 2022	7:00 PM	SW	0.9		
24 Jun 2022	8:00 PM	ENE	1.3		
24 Jun 2022	9:00 PM	ENE	1.3		
24 Jun 2022	10:00 PM	ENE	0.9		
24 Jun 2022	11:00 PM	SW	0.9		
25 Jun 2022	12:00 AM	SW	1.8		
25 Jun 2022	1:00 AM	SW	0.9		
25 Jun 2022	2:00 AM	SW	0.9		
25 Jun 2022	3:00 AM	SW	0.9		
25 Jun 2022	4:00 AM	SW	0.9		
25 Jun 2022	5:00 AM	SW	0.9		
25 Jun 2022	6:00 AM	SW	0.9		
25 Jun 2022	7:00 AM	SW	1.8		
25 Jun 2022	8:00 AM	SW	1.8		
25 Jun 2022	9:00 AM	SW	1.8		
25 Jun 2022	10:00 AM	SW	2.2		
25 Jun 2022	11:00 AM	ESE	0.9		
25 Jun 2022	12:00 PM	ESE	1.3		
25 Jun 2022	1:00 PM	ESE	1.3		
25 Jun 2022	2:00 PM	SW	1.8		
25 Jun 2022	3:00 PM	SW	2.2		
25 Jun 2022	4:00 PM	SW	2.7		
25 Jun 2022	5:00 PM	SW	2.7		
25 Jun 2022	6:00 PM	NE	3.1		
25 Jun 2022	7:00 PM	NE	2.7		
25 Jun 2022		NE			
	8:00 PM		0.9		
25 Jun 2022	9:00 PM	N	0.9		
25 Jun 2022	10:00 PM	NNE	1.3		
25 Jun 2022	11:00 PM	NNE	0.9		
26 Jun 2022	12:00 AM	NNE	1.3		
26 Jun 2022	1:00 AM	NNE	0.4		
26 Jun 2022	2:00 AM	NNE	0.9		
26 Jun 2022	3:00 AM	NNE	0.9		
26 Jun 2022	4:00 AM	NNE	0.4		
26 Jun 2022	5:00 AM	Ν	1.3		
26 Jun 2022	6:00 AM	NNE	0.9		
26 Jun 2022	7:00 AM	NNE	0.9		
26 Jun 2022	8:00 AM	NE	1.3		
26 Jun 2022	9:00 AM	ENE	2.2		
26 Jun 2022	10:00 AM	NE	0.4		
26 Jun 2022	11:00 AM	NE	0.4		
26 Jun 2022	12:00 PM	ENE	0.4		
26 Jun 2022	1:00 PM	ENE	0.9		
26 Jun 2022	2:00 PM	ENE	1.8		
26 Jun 2022	3:00 PM	SW	0.9		
26 Jun 2022	4:00 PM	E	0.4		
26 Jun 2022	5:00 PM	ENE	0.9		
26 Jun 2022	6:00 PM	ENE	2.7		
26 Jun 2022	7:00 PM	ENE	1.3		
26 Jun 2022	8:00 PM	ENE	1.3		
26 Jun 2022	9:00 PM	ENE	0.9		
26 Jun 2022	10:00 PM	SSW	0.9		
26 Jun 2022	11:00 PM	NNE	1.3		
27 Jun 2022	12:00 AM	NNE	1.3		
27 Jun 2022	1:00 AM	NNE	1.3		
27 Jun 2022	2:00 AM	NNE	1.8		

June 2022				
	Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s	
27 Jun 2022	3:00 AM	NNE	1.8	
27 Jun 2022	4:00 AM	NNE	1.3	
27 Jun 2022	5:00 AM	NE	1.8	
27 Jun 2022	6:00 AM	NNE	1.8	
27 Jun 2022	7:00 AM	NNE	1.8	
27 Jun 2022	8:00 AM	NNE	2.2	
27 Jun 2022	9:00 AM	NNE	2.2	
27 Jun 2022	10:00 AM	NNE	2.2	
27 Jun 2022	11:00 AM	NNE	1.8	
27 Jun 2022	12:00 PM	NNE	2.2	
27 Jun 2022	1:00 PM	NE	1.8	
27 Jun 2022	2:00 PM	NNE	1.8	
27 Jun 2022	3:00 PM	NNE	2.2	
27 Jun 2022	4:00 PM	NNE	2.2	
27 Jun 2022	5:00 PM	NNE	2.7	
27 Jun 2022	6:00 PM	NE	2.7	
27 Jun 2022	7:00 PM	NE	2.7	
27 Jun 2022	8:00 PM	NNE	2.2	
27 Jun 2022	9:00 PM	NNE	2.7	
27 Jun 2022	10:00 PM	NNE	2.7	
27 Jun 2022	11:00 PM	NNE	2.2	
28 Jun 2022	12:00 AM	NE	1.8	
28 Jun 2022	1:00 AM	NNE	1.3	
28 Jun 2022	2:00 AM	NNE	1.8	
28 Jun 2022	3:00 AM	SSE	1.3	
28 Jun 2022	4:00 AM	NNE	2.2	
28 Jun 2022	5:00 AM	NNE	2.2	
28 Jun 2022	6:00 AM	NNE	2.2	
28 Jun 2022	7:00 AM	NNE	2.2	
28 Jun 2022	8:00 AM	NE	1.8	
28 Jun 2022	9:00 AM	SSW	1.8	
28 Jun 2022	10:00 AM	NNE	2.7	
28 Jun 2022	11:00 AM	SW	2.2	
28 Jun 2022	12:00 PM	W	2.2	
28 Jun 2022	1:00 PM	W	2.7	
28 Jun 2022	2:00 PM	W	3.1	

	June 2022 Wind Speed and Directions			
Date Time Direction Wind Speed m-s				
28 Jun 2022	3:00 PM	W	3.1	
28 Jun 2022	4:00 PM	W	3.6	
28 Jun 2022	5:00 PM	WNW	2.2	
28 Jun 2022	6:00 PM	W	3.1	
28 Jun 2022	7:00 PM	W	2.7	
28 Jun 2022	8:00 PM	W	2.7	
28 Jun 2022	9:00 PM	W	2.2	
28 Jun 2022	10:00 PM	WNW	2.7	
28 Jun 2022	11:00 PM	W	2.2	
29 Jun 2022	12:00 AM	W	2.2	
29 Jun 2022	1:00 AM	W	1.8	
29 Jun 2022	2:00 AM	WNW	1.8	
29 Jun 2022	3:00 AM	W	2.2	
29 Jun 2022	4:00 AM	WNW	2.7	
29 Jun 2022	5:00 AM	W	2.2	
29 Jun 2022	6:00 AM	W	2.7	
29 Jun 2022	7:00 AM	W	2.7	
29 Jun 2022	8:00 AM	NW	3.6	
29 Jun 2022	9:00 AM	WNW	2.2	
29 Jun 2022	10:00 AM	W	2.2	
29 Jun 2022	11:00 AM	W	2.7	
29 Jun 2022	12:00 PM	WNW	2.2	
29 Jun 2022	1:00 PM		0.0	
29 Jun 2022	2:00 PM	ENE	1.8	
29 Jun 2022	3:00 PM	NE	1.8	
29 Jun 2022	4:00 PM	NE	2.2	
29 Jun 2022	5:00 PM	NE	2.2	
29 Jun 2022	6:00 PM	NNE	2.7	
29 Jun 2022	7:00 PM	Ν	2.7	
29 Jun 2022	8:00 PM	NNE	2.7	
29 Jun 2022	9:00 PM	NNE	2.2	
29 Jun 2022	10:00 PM	NNE	2.7	
29 Jun 2022	11:00 PM	NNE	2.7	
30 Jun 2022	12:00 AM	NNE	2.2	
30 Jun 2022	1:00 AM	NNE	1.8	
30 Jun 2022	2:00 AM	NNE	1.3	
30 Jun 2022	3:00 AM	Ν	1.8	
30 Jun 2022	4:00 AM	NNE	1.3	
30 Jun 2022	5:00 AM	NNE	2.2	
30 Jun 2022	6:00 AM	NE	2.2	
30 Jun 2022	7:00 AM	ENE	2.2	
30 Jun 2022	8:00 AM	NE	2.2	
30 Jun 2022	9:00 AM	NNE	1.8	
30 Jun 2022	10:00 AM	NNE	1.8	
30 Jun 2022	11:00 AM	NE	2.7	
30 Jun 2022	12:00 PM	WNW	2.2	
30 Jun 2022	1:00 PM	NE	2.2	
30 Jun 2022	2:00 PM	NE	0.4	
30 Jun 2022	3:00 PM	NE	0.9	
30 Jun 2022	4:00 PM	NE	0.4	
30 Jun 2022	5:00 PM	NNE	0.4	
30 Jun 2022	6:00 PM	NNE	0.4	
30 Jun 2022	7:00 PM	NNE	0.4	
30 Jun 2022	8:00 PM	NE	0.4	
30 Jun 2022	9:00 PM	ENE	0.0	
30 Jun 2022	10:00 PM	NNE	0.4	
30 Jun 2022	11:00 PM	ENE	0.0	

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (June 2022)

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

 $AM4(A)^{(2)(3)}$ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Noise Monitoring Station

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

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring; (3) Monitoring at AM4(A) is suspended and under application for relocation

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 2022)

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
	4 000	5 541		, su	0 54	<i>y</i> 30
			1-hr TSP X3			
		24-hrs TSP	Noise			24-hrs TSP
		24-ms 15P				24-IIIS 13P
10-Jul	11-Jul	12-Jul	13-Jul	14-Jul	15-Jul	16-Jul
	1-hr TSP X3			1-hr TSP X3		
	Noise			1-11 151 745		
			24-hrs TSP			
17-Jul	18-Jul	19-Jul	20-Jul	21-Jul	22-Jul	23-Jul
			1-hr TSP X3			
		24-hrs TSP	Noise			
		24 115 151				
24-Jul	25-Jul	` 26-Jul	27-Jul	28-Jul	29-Jul	30-Jul
		1-hr TSP X3				
		Noise				
	24-hrs TSP					24-hrs TSP
31-Jul						

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽¹⁾ - Sitting-out Area at Cha Kwo Ling Village

 $AM4(A)^{(2)(3)}$ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

CM5 - CCC Kei Faat Primary School, Yau Tong

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring; (3) Monitoring at AM4(A) is suspended and under application for relocation

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (August 2022)

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

 $\rm AM4^{(1)}$ - Sitting-out Area at Cha Kwo Ling Village $\rm AM4(A)^{(2)(3)}$ - Cha Kwo Ling Public Cargo Working Area Administrative Office

Noise Monitoring Station

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

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring; (3) Monitoring at AM4(A) is suspended and under application for relocation

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (September 2022)

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

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

Air Quality Monitoring Station 1-hr TSP / 24-hrs TSP AMI - Tin Hau Temple AM2 - Sai Tso Wan Recreation Ground AM3 - Yau Lai Estate Bik Lai House AM4⁽¹⁾, Sitting-out Area at Cha Kwo Ling Village AM4(A)⁽²⁾⁽³⁾. Cha Kwo Ling Public Cargo Working Area Administrative Office Noise Monitoring Station

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

Notes: (1) For 1-hour TSP monitoring; (2) For 24-hours TSP monitoring; (3) Monitoring at AM4(A) is suspended and under application for relocation

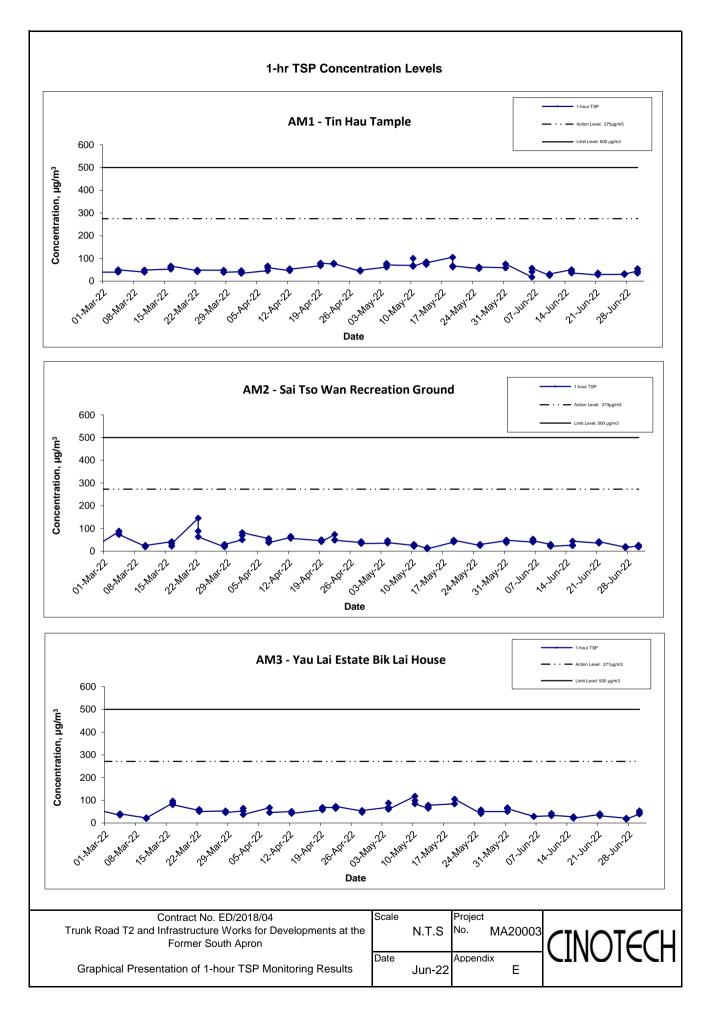
APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

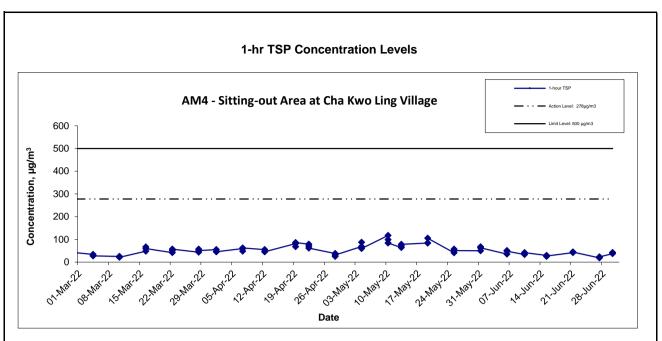
Location AM1 -	Tin Hau Ten	nple	
Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Jun-22	14:20	Cloudy	17.6
6-Jun-22	15:20	Cloudy	41.8
6-Jun-22	16:20	Cloudy	57.2
10-Jun-22	13:00	Cloudy	25.2
10-Jun-22	14:00	Cloudy	29.4
10-Jun-22	15:00	Cloudy	31.5
15-Jun-22	13:00	Cloudy	50.4
15-Jun-22	14:00	Cloudy	42.0
15-Jun-22	15:00	Cloudy	35.7
21-Jun-22	13:00	Sunny	27.3
21-Jun-22	14:00	Sunny	35.7
21-Jun-22	15:00	Sunny	29.4
27-Jun-22	13:00	Sunny	29.4
27-Jun-22	14:00	Sunny	33.6
27-Jun-22	15:00	Sunny	31.5
30-Jun-22	13:00	Cloudy	44.0
30-Jun-22	14:00	Cloudy	55.0
30-Jun-22	15:00	Cloudy	35.2
		Average	36.2
		Maximum	57.2
		Minimum	17.6

Location AM2 -	Sai Tso War	n Recreation Grou	und
Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Jun-22	16:00	Rainly	39.6
6-Jun-22	17:00	Rainly	52.8
6-Jun-22	18:00	Rainly	46.2
10-Jun-22	9:00	Cloudy	29.4
10-Jun-22	10:00	Cloudy	25.2
10-Jun-22	11:00	Cloudy	21.0
15-Jun-22	13:20	Cloudy	26.4
15-Jun-22	14:20	Cloudy	24.2
15-Jun-22	15:20	Cloudy	44.0
21-Jun-22	9:00	Fine	35.2
21-Jun-22	10:00	Fine	39.6
21-Jun-22	11:00	Fine	41.8
27-Jun-22	14:15	Sunny	17.6
27-Jun-22	15:15	Sunny	19.8
27-Jun-22	16:15	Sunny	15.4
30-Jun-22	9:00	Cloudy	24.0
30-Jun-22	10:00	Cloudy	18.0
30-Jun-22	11:00	Cloudy	26.0
		Average	30.3
		Maximum	52.8
		Minimum	15.4

Location AM3 -	Yau Lai Esta	ate Bik Lai House	
Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Jun-22	12:50	Cloudy	28.6
6-Jun-22	13:50	Cloudy	28.6
6-Jun-22	14:50	Cloudy	28.6
10-Jun-22	16:00	Cloudy	31.5
10-Jun-22	17:00	Cloudy	42.0
10-Jun-22	18:00	Cloudy	33.6
15-Jun-22	9:00	Cloudy	27.3
15-Jun-22	10:00	Cloudy	23.1
15-Jun-22	11:00	Cloudy	21.0
21-Jun-22	9:00	Sunny	37.8
21-Jun-22	10:00	Sunny	39.9
21-Jun-22	11:00	Sunny	31.5
27-Jun-22	9:00	Sunny	21.0
27-Jun-22	10:00	Sunny	16.8
27-Jun-22	11:00	Sunny	16.8
30-Jun-22	16:00	Fine	39.6
30-Jun-22	17:00	Fine	52.8
30-Jun-22	18:00	Fine	46.2
		Average	31.5
		Maximum	52.8
		Minimum	16.8

Location AM4 -	Sitting-out A	Area at Cha Kwo I	Ling Village
Date	Time	Weather	Particulate Concentration (µg/m ³)
6-Jun-22	16:25	Cloudy	35.2
6-Jun-22	17:25	Cloudy	50.6
6-Jun-22	18:25	Cloudy	48.4
10-Jun-22	9:00	Cloudy	33.6
10-Jun-22	10:00	Cloudy	39.9
10-Jun-22	11:00	Cloudy	42.0
15-Jun-22	16:00	Cloudy	29.4
15-Jun-22	17:00	Cloudy	25.2
15-Jun-22	18:00	Cloudy	27.3
21-Jun-22	16:00	Sunny	42.0
21-Jun-22	17:00	Sunny	44.1
21-Jun-22	18:00	Sunny	44.1
27-Jun-22	16:00	Sunny	18.9
27-Jun-22	17:00	Sunny	21.0
27-Jun-22	18:00	Sunny	23.1
30-Jun-22	9:00	Cloudy	37.4
30-Jun-22	10:00	Cloudy	41.8
30-Jun-22	11:00	Cloudy	41.8
		Average	35.9
		Maximum	50.6
		Minimum	18.9





Notes:

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

Contract No. ED/2018/04	Scale	H H O	Project	
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron		N.T.S	No. MA20003	CINOTECH
Graphical Presentation of 1-hour TSP Monitoring Results	Date	Jun-22	Appendix E	

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	Weather	Filter W	eight (g)	Particulate	ate Elapse Time		Sampling	Flow Rat	e (m³/min.)	Av. flow	Total vol	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Jun-22	Cloudy	3.2930	3.4605	0.1675	10097.5	10121.5	24.0	1.20	1.20	1.20	1729.0	96.9
9-Jun-22	Cloudy	3.3358	3.4118	0.0760	10121.5	10145.5	24.0	1.21	1.21	1.21	1738.0	43.7
14-Jun-22	Fine	3.3282	3.4204	0.0922	10145.5	10169.5	24.0	1.22	1.22	1.22	1755.2	52.5
20-Jun-22	Sunny	3.3768	3.4840	0.1072	10169.5	10193.5	24.0	1.21	1.21	1.21	1747.2	61.4
25-Jun-22	Sunny	2.6688	2.7604	0.0916	10193.5	10217.5	24.0	1.21	1.21	1.21	1748.4	52.4
29-Jun-22	Fine	3.3617	3.4787	0.1170	10217.5	10241.5	24.0	1.21	1.22	1.21	1746.4	67.0
											Min	43.7
											Max	96.9
											Average	62.3

Location AM2 - Sai Tso Wan Recreation Ground

Start Date	Weather	Filter W	eight (g)	Particulate	articulate Elapse Time		Sampling	Flow Rat	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Jun-22	Cloudy	3.3385	3.4009	0.0624	31218.4	31242.4	24.0	1.20	1.20	1.20	1728.6	36.1
9-Jun-22	Cloudy	3.3281	3.3667	0.0386	31242.4	31266.4	24.0	1.21	1.21	1.21	1737.9	22.2
14-Jun-22	Cloudy	3.2691	3.3047	0.0356	31266.4	31290.4	24.0	1.22	1.22	1.22	1754.6	20.3
20-Jun-22	Fine	3.3087	3.3578	0.0491	31290.4	31314.8	24.4	1.21	1.21	1.21	1772.3	27.7
25-Jun-22	Sunny	3.3181	3.3433	0.0252	31314.8	31338.8	24.0	1.21	1.21	1.21	1747.3	14.4
29-Jun-22	Cloudy	3.3142	3.3470	0.0328	31338.8	31362.8	24.0	1.21	1.21	1.21	1745.2	18.8
											Min	14.4
											Max	36.1
											Average	23.3

Location AM3 - Yau Lai Estate, Bik Lai House

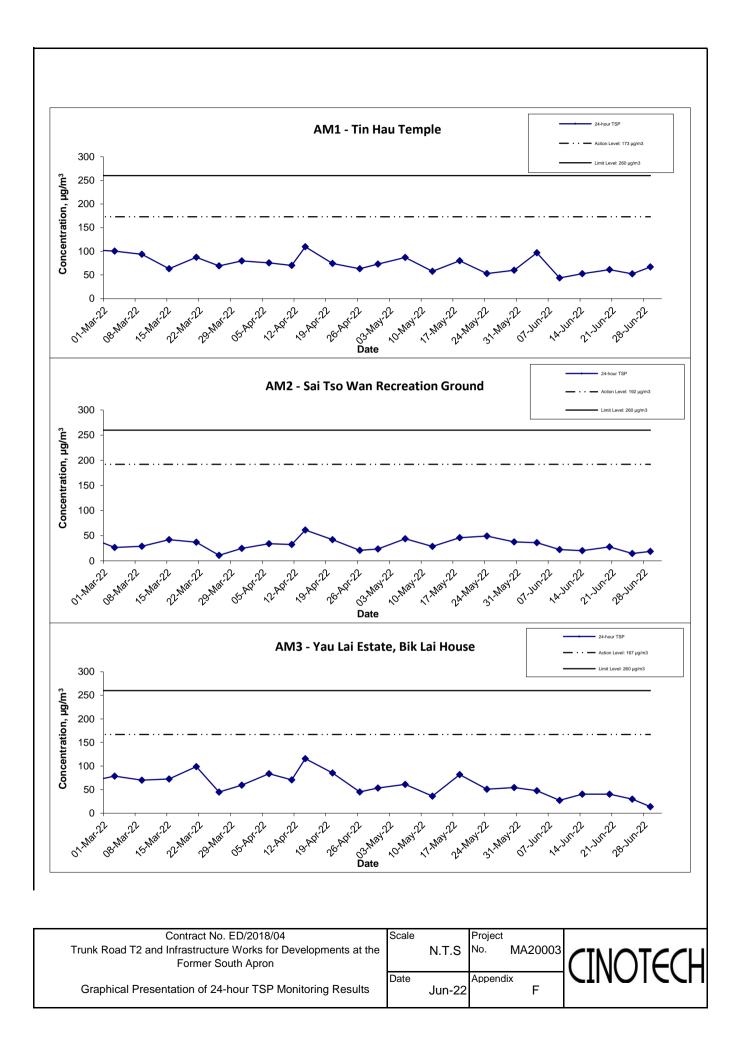
Start Date	Weather	Filter W	eight (g)	Particulate Elapse Time S		Sampling	Sampling Flow Rate (m ³ /min.)			Total vol.	Conc.	
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m³)
4-Jun-22	Cloudy	3.2945	3.3769	0.0824	5585.5	5609.5	24.0	1.20	1.20	1.20	1729.5	47.6
9-Jun-22	Cloudy	3.3369	3.3842	0.0473	5609.5	5633.5	24.0	1.21	1.21	1.21	1738.7	27.2
14-Jun-22	Fine	3.3567	3.4274	0.0707	5633.5	5657.5	24.0	1.22	1.22	1.22	1754.8	40.3
20-Jun-22	Sunny	3.3084	3.3788	0.0704	5657.5	5681.5	24.0	1.21	1.21	1.21	1746.5	40.3
25-Jun-22	Sunny	3.3823	3.4341	0.0518	5681.5	5705.5	24.0	1.21	1.21	1.21	1747.8	29.6
29-Jun-22	Fine	3.3291	3.3533	0.0242	5705.5	5729.5	24.0	1.21	1.21	1.21	1745.7	13.9
											Min	13.9
											Max	47.6

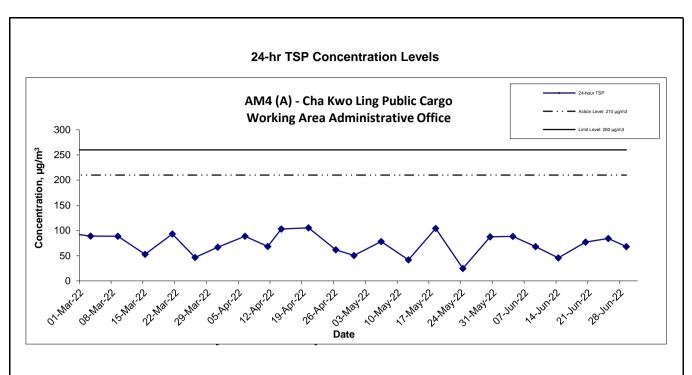
Average 33.6

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

Start Date	Weather	Filter W	eight (g)	Particulate	articulate Elapse Time		Sampling	Flow Rat	e (m³/min.)	Av. flow	Total vol.	Conc.
otart Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Jun-22	Cloudy	3.3042	3.4574	0.1532	16527.7	16551.7	24.0	1.21	1.21	1.21	1736.3	88.2
9-Jun-22	Cloudy	3.3608	3.4794	0.1186	16551.7	16575.7	24.0	1.21	1.21	1.21	1745.0	68.0
14-Jun-22	Cloudy	3.3528	3.4323	0.0796	16599.7	16623.7	24.0	1.21	1.21	1.21	1744.9	45.6
20-Jun-22	Cloudy	3.3277	3.4613	0.1336	16647.7	16671.7	24.0	1.21	1.21	1.21	1737.9	76.9
25-Jun-22	Fine	3.3808	3.5269	0.1461	16671.7	16695.7	24.0	1.21	1.21	1.21	1738.3	84.0
29-Jun-22	Fine	3.2802	3.3982	0.1180	16695.7	16719.7	24.0	1.20	1.21	1.21	1736.3	67.9
											Min	45.6
											Max	88.2
											Average	71.8

*In June 2022, the 24 TSP Monitoring at AM4(A) is suspended and under application for relocation.Once the proposal for relocation is approved, the monitoring at AM4(A) will at conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP-451/2013), is located in close proximity to AM4(A); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for CKL2.





Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 2.17.
- 4) *In June 2022, the 24 TSP Monitoring at AM4(A) is suspended and under application for relocation.Once the proposal for relocation is approved, the monitoring at AM4(A) will at conducted at AM4(B). For the time being, as the station CKL2 for the 24 hr TSP monitoring, carried out under EM&A works for Trunk Road T2 Project (EP-451/2013), is located in close proximity to AM4(A); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(A), which has similar environment when compared with that for CKL2.

Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Scale N.T.S	Project No. MA20003	CINOTECH
Graphical Presentation of 24-hour TSP Monitoring Results	Date Jun-22	Appendix	

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CM1 -	Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong											
				Unit: dB (A) (30-min)								
Date	Time We		Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level					
		Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}					
6 Jun 2022	11:22	Cloudy	77.9	79.8	75.2	65.5	<u>78</u>					
15 Jun 2022	11:55	Cloudy	70.5	71.9	68.4	65.5	69					
21 Jun 2022	10:33	Sunny	72.5	75.5	70.0	65.5	72					
27 Jun 2022	12:09	Sunny	74.4	77.9	68.2	65.5	74					

Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong Unit: dB (A) (30-min)

					Uni	l. dd (A) (30-mm)		
Date	Time	Weather	Meas	Measured Noise Level B		Baseline Level	Construction Noise Level	
Dato	11110	ribuildi						
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
6 Jun 2022	13:07	Drizzle	75.4	77.1	73.2	63.6	75	
15 Jun 2022	11:12	Cloudy	74.4	77.2	69.4	63.6	74	
21 Jun 2022	9:05	Sunny	72.3	75.5	69.3	63.6	72	
27 Jun 2022	11:27	Sunny	73.4	77.4	68.2	63.6	73	

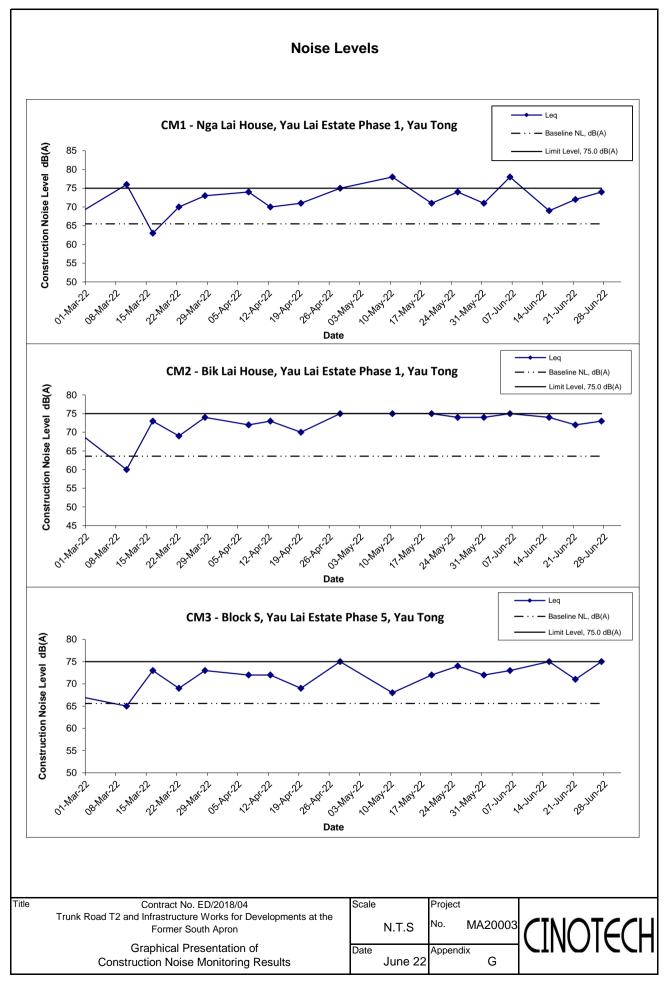
Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong										
					Uni	t: dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Date		Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
6 Jun 2022	10:00	Drizzle	74.1	76.2	71.3	65.6	73			
15 Jun 2022	14:23 Cloudy		75.4	77.4	72.8	65.6	75			
21 Jun 2022	9:51	Sunny	71.9	74.8	68.8	65.6	71			
27 Jun 2022	14:42	Sunny	75.6	77.3	73.4	65.6	75			

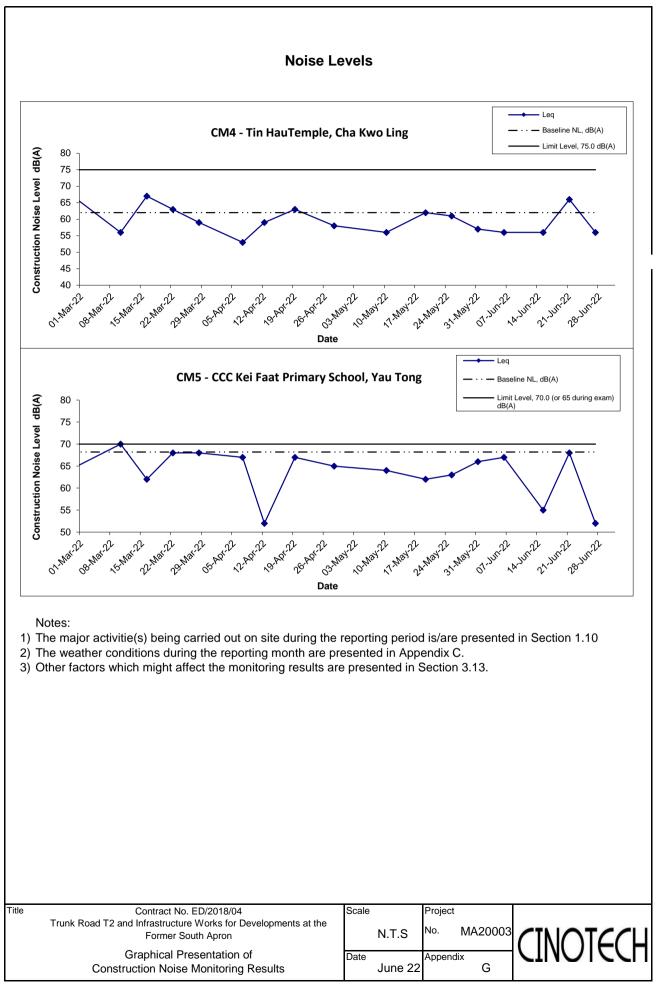
Location CM4 - Tin Hau Temple, Cha Kwo Ling

				Unit: dB (A) (30-min)					
Date	Time	ime Weather	Measured Noise Level			Baseline Level	Construction Noise Level		
Date									
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}		
6 Jun 2022	14:42	Cloudy	56.3	58.3	52.7	62.0	56 Measured ≦ Baseline		
15 Jun 2022	16:17	Cloudy	56.1	59.5	51.7	62.0	56 Measured ≦ Baseline		
21 Jun 2022	13:12	Sunny	67.2	69.3	65.5	62.0	66		
27 Jun 2022	16:22	Sunny	55.5	56.9	51.3	62.0	56 Measured ≦ Baseline		

Location CM5 -	ocation CM5 - CCC Kei Faat Primary School, Yau Tong									
					Uni	t: dB (A) (30-min)				
Date	Time	ne Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Duto	Time		L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
6 Jun 2022	14:00	Cloudy	70.6	73.0	67.5	68.2	67			
15 Jun 2022	15:27	Cloudy	68.4	70.9	65.0	68.2	55			
21 Jun 2022	11:27	Sunny	68.2 70.4 64.3 68.2		68.2	68 Measured ≦ Baseline				
27 Jun 2022	15:34	Sunny	68.3	70.8	64.9	68.2	52			

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APPENDIX H WASTE GENERATION IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2022 (CKL)

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

	Actu	al Quantities	of Inert C&D	Materials G	enerated Mo	nthly	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 in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		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	4.615	4.615	0.000	4.615	0.000	0.000	0.000	0.000	0.000	0.000	0.031
February	1.374	1.374	0.000	1.374	0.000	0.000	0.000	0.000	0.000	0.000	0.005
March	2.227	2.227	0.000	2.227	0.000	0.000	0.000	0.000	0.000	0.000	0.009
April	2.249	2.249	0.000	2.249	0.000	0.000	0.000	0.000	0.000	0.000	0.019
May	4.334	4.334	0.000	4.334	0.000	0.000	0.000	0.000	0.000	3.200	0.024
June	2.307	2.307	0.000	2.307	0.000	0.000	0.000	0.000	0.000	0.000	0.026
Sub-total	17.106	17.106	0.000	17.106	0.000	0.000	0.000	0.000	0.000	3.200	0.114
July											
August											
September											
October											
November											
December											
Total	17.106	17.106	0.000	17.106	0.000	0.000	0.000	0.000	0.000	3.200	0.114

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).

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 220602 Checklist Reference Number 220602 Date 02 June 2022 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:220526), all item has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	02 June 2022
Checked by	Karina Chan	Zalle	02 June 2022

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

Weekly Site Inspection Record Summary Inspection Information 220609 Checklist Reference Number 220609 Date 09 June 2022 (Thursday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	 Follow up on the previous session (Ref No.:220602), no major environmental deficiency was identified. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	09 June 2022
Checked by	Karina Chan	Zelle	09 June 2022

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

Weekly Site Inspection Record Summary Inspection Information Checklist Reference Number 220617 Date 17 June 2022 (Friday) Time 09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:220609), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	17 June 2022
Checked by	Karina Chan	Zalle	17 June 2022

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

Weekly Site Inspection Record Summary Inspection Information 220623 Checklist Reference Number 220623 Date 23 June 2022 (Thursday) Time 09:30 – 12:00

Re	ef. No.	Non-Compliance	Related Item No.
	-	None identified	-

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	• No environmental deficiency was identified during site inspection	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:220617), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	23 June 2022
Checked by	Karina Chan	Zalle	23 June 2022

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

Weekly Site Inspection Record Summary Inspection Information

preecon	
Checklist Reference Number	220630
Date	30 June 2022 (Thursday)
Time	09:30 - 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
220630 - R1	• Oil stain was observed near generator. Contractor is suggested to prepare an emergency spill kit as	<i>E</i> 8
220 (20) D2	to clean up spills of oil /chemical.	F 2
220630 - R2	• Oil /Chemical was stored at different container. Designated area for chemical storage should be provided for proper storage of chemical /oil.	E3iii
220630 - R3	 Chemical waste producer license should be displayed properly. 	E2iii
	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.:220623), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cigl-	30 June 2022
Checked by	Karina Chan	Zalle	30 June 2022

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?			
Air Quality	ir Quality								
\$3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	АРСО			
\$3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO			
\$3.8.7	 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. 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. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles on site haul roads. Where possible, routing of vehicles and positioning 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 covereed entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. 	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation			
/	Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur disel fuel (ULSD) 	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO			

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
/	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO
Noise Impact (Constr	ruction Phase)					
S4.8	 Use of quiet PME. Use of movable noise barriers for Excavator, Lorry, Dump Truck, Mobile Crane, Compactor, Concrete Mixer Truck, Concrete Lorry Mixer, Breaker, Mobile Crusher, Backhoe, Vibratory Poker, Saw, Asphalt Paver, Vibratory Roller, Vibrolance, Hydraulic Vibratory Lance and Piling (Vibration Hammer). Use of full enclosure for Air Compressor, Compressor, Bar Bender, Generator, Drilling Rig, Chisel, Large Diameter Bore Piling, Grout Mixer & Pump and Concrete Pump. 	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
\$4.9	 Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be deffectively utilized, wherever practicable, in screening noise from on-site construction activities. 	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Impac	et (Construction Phase)					
\$5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m ³ , with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	 Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site. 	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.3	 Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; floating single silt curtain shall be employed for all marine works; all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and 	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
\$5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	 To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) The temporary barrier fully enclosing the dredging and underwater filling works, site shall not be removed before completion of all dredging and underwater filling works. Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation. It is important that appropriate measures are implemented to control runoff and drainage and prevent 	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.5	high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ under the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM- DSS
\$5.8.8 \$5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: • use of sediment traps; and	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.8	adequate maintenance of drainage systems to prevent flooding and overflow.					
\$5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ³ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
\$5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.25 - \$5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction are set out in Table 5.18.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
\$5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more elaborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and sitt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used slurry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5,8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; • chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and • storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
\$6.8.4	 Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities 	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S6.8.5	Standard Good Site Practice • Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. • Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. • Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. • General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. • Open burning on works sites is illegal, and should be strictly prohibited. • Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	 Measure to Minimize Groundwater Inflow The drained tunnel construction method with groundwater inflow control measures would generally be adopted. During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements. 	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
S6.8.8	 Measure to Minimize Impact on Corals <u>Coral translocation</u> It is recommended to translocate the affected coral colonies, except the locally common <i>Ouldstreat crispata</i>, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). A detailed coral translocation plan with a description on the methodology for pretranslocation methodology, identification/proposal of coral recipient site, monitoring methodology for posttranslocation should be prepared during the detailed design stage. The coral translocation plan should be subject to approval by relevant authorities (e.g., EPD and AFCD) before commencement of the coral translocation. Post translocation Monitoring A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities. Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral connunsities. 	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$6.8.9 \$6.8.10	Measure to Control Water Quality Impact • • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. • Diverting of the site runoff to silt trap facilities before discharging into storm drain; • Proper waste and dumping management; and • Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
\$6.8.11	Compensation for Vegetation Loss Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition. 	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
\$7.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management (Construction Phase)					
S8.6.3	 Good Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waste; Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. 	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$8.6.4	 Good Site Practices and Waste Reduction Measures (con't) Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.6	Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible. 	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.7	Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: • Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; • Maintain and clean storage areas routinely; • Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and • Different locations should be designated to stockpile each material to enhance reuse.	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	 Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed. 	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	 Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills 	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	 Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be keyt wet during excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment to the barge should be controlled to avoid splashing and overflowing of the sediment shury to the surrounding water. 		Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.24 - S8.6.28/ Waste Management Plan	 Sediments (con't) The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excavated sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be proved by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be conductively paved or covered by limings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportanion. In addition, monitoring of the barge should be conducted to ensure thal loss of material does not take place during transportation. Transport barges or vessels shall be equipped with acrit buninise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided or site. Another possible arrangement for Type 3 disposal is by geosynthetic containment. Af geosynthetic containment method is a method whereby the sediments are seale	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	Chemical Wastes. If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	General Refuse • General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material.	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural H	eritage (Construction Phase)					
\$9.6.4	Dust and visual impacts • Temporarily fenced off buffer zone with allowance for public access (minimum 1 m) should be provided; • The open yard in front of the temple should be kept as usual for annual Tin Hau festival; • Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
\$9.6.4	Indirect vibration impact • Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of Smm/s measured inside the historical buildings; • Monitoring of vibration should be carried out during construction phase. • Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. • A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	 Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded. 	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Visua	l Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1/ Landscape Mitigation Plan	CM5 - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazard	(Design and Construction Phase)					
\$11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below:	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
	Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%			Consultation Zone		Guidance Note

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$11.5.10 \$11.5.25	 Safety Measures For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces. When controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). The permit to work procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for superofing the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out ho works in confined areas. Where there are any temporary site offices, or any other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces whit the capacity to accumu	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note Labour Department's Code of Practice for Safety and Health at Work in Confined Space

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	 The contractor should formulate a health and safety policy, standards and instructions for site personnel to follow. All personnel who work on the site and all visitors to the site should be made aware of the possibility of ginition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. 					
\$11.5.10 \$11.5.25	 Service runs within the Consultation Zone should be designated as "special routes"; utilities companies should be informed of this and precautionary measures should be implemented. Precautionary measures should include ensuring that staff members are aware of the potential hazards of working in confined spaces such as manholes and service chambers, and that appropriate monitoring procedures are in place to prevent hazards due to asphysiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). 					
	 Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person. 					
\$11.5.26 - \$11.5.31	 Monitoring Routine monitoring should be carried out in all excavations, manholes, chambers, relocation of monitoring wells and any other confined spaces that may have been created. All measurements in excavations should be made with the extended monitoring tube located not more than 10 mm from the exposed ground surface. Monitoring should be performed properly to make sure that the area is free of landfill gas before any man enters into the area. For excavations deeper than 1m, measurements should be carried out: at the ground surface before excavation commences;- immediately before any worker enters the excavation; at the beginning of each working day for the entire period the excavation remains open; and periodically throughout the working day whilst workers are in the excavation. For excavations between 300mm and 1m deep, measurements should be carried out: directly after the excavation has been completed; and periodically whilst the excavation remains open. For excavations less than 300mm deep, monitoring may be omitted, at the discretion of the Safety Officer or other appropriately qualified person. Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or other appropriately qualified person. The exact frequency of monitoring should be dearried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system. 	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note
\$11.5.32	The hazards from landfill gas during the construction stage within the Sai Tso Wan Landfill Consultation Zone should be minimized by suitable precautionary measures recommended in Chapter 8 of the Landfill Gas Hazard Assessment Guidance Note.	construction stage within the Sai Tso Wan Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

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

Key:

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

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

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
	-			
Construction N	Noise Impact			
Water Quality	Impact			
	Pounding water should be avoided.	Stagnant muddy water was observed.	26 May 2022	\checkmark
Ecological Imp	pact			
Fisheries Impa	let			
Waste Manage				
	Contractor is suggested to prepare an emergency spill kit as to clean up spills of oil /chemical.	Oil stain was observed near generator.	30 Jun 2022	#
	Designated area for chemical storage should be provided for proper storage of chemical /oil.	Oil /Chemical was stored at different container.	30 Jun 2022	#
	Chemical waste producer license should be displayed properly.	Chemical waste producer license should be displayed properly.	30 Jun 2022	#
Landscape and	l Visual Impact	·		
Landfill Gas H	lazards			

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

	ACTION										
EVENT	ET	IEC	ER	CONTRACTOR							
Action level being exceeded by one sampling	 Identify source, investigate the causes of complaint and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate. 							
Action level being exceeded by two or more consecutive sampling	 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 and Contractor on remedial actions required; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; 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. 							

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

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

Event and Action Plan for Construction Noise

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

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

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

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: June 2022

Table M1Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting
Period

Log Ref.	Location	Received Date	Details of Complaint/warning/su mmon and prosecution	Nature	Investigation/Mitigation Action	Status
-	-	-	-	-	-	-

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

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N02	Portion T1	10-Oct- 2020	Resident of Yau Lai Estate complained that i) an excavator operated before 7 am on 9 and 10 October 2020; and, ii) the height of noise barriers are not sufficient for noise reduction.	Noise	 Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance. Since the complaint location stated in part II is situated out of the project boundary and within the other construction site, no investigation shall be conducted for non-project related complaint. 	Closed
		9-Feb- 2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside	
Complaint #N04	Portion T1			Noise	the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.	Closed

Table M2	Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution
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Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting	Month: Jun	e 2022				
Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point 5 of the CNP (GW-RE0071-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		18 July 2021	Complainant informed that breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) from the ground during 3-4 a.m. on 17 Jul and 18 Jul 2021.		• The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne	
Complaint #N05	Portion T1	27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.	Noise	 noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to 	Closed

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point 5 of the CNP (GW-RE0399-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	
Complaint #N06	Portion T1	03-Nov- 2021	Complainant informed that underground breaking noise was heard at his/her residence (near Cha Kwo Ling Main Road) at about 10 p.m. on 03 Nov 2021. Also, the complainant further informed that recently they continued to hear underground breaking noise which had caused serious noise nuisance to the residents.	Noise	 No major construction noise related environmental deficiency was identified during ad-hoc inspection carried out by ET, RE and the Contractor representative on 12 November 2021. The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side on the evening time and night- time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance. 	Closed

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N06	Portion T1	25-Nov- 2021	Follow up complaint from the same complainant which informed that there was still ground bound noise nuisance after 10 p.m occasionally. The complainant further requested if the relevant works that may contribute to ground bound noise nuisance could be stopped after 10 p.m.	Noise	 A valid CNP was hold and the investigation is still undertaken in order to investigate the construction activities being taken were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP. According to the condition 3.d point 5 of the CNP (GW-RE1035-21), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	Closed

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint	Portion	17-Feb- 22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day.	Nuine	 The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken 	Classi
#N07	T1	24- March-22	Follow up complaint from the same complainant was received and he/she informed that the day time ground-borne noise nuisance had deteriorated this week.	Noise	 were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide 	Closed

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution			Status
		12-April- 22	3 rd complaint from the same complainant was received again, he/ she complained that his/ her family were affected by the noise from construction site of T2 at the night-time period and felt no improvement on this issues.		 regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE1201-21, GW-RE0199-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	

APPENDIX N SUMMARY OF EXCEEDANCE

Contract No. ED/2018/04

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

Appendix N – Summary of Exceedance

Reporting Period: June 2022

(A) Exceedance Report for Air Quality

No Action/ Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

No Action/ Limit Level exceedance of 1hr TSP monitoring was recorded in this reporting month.

(B) Exceedance Report for Construction Noise

No Action Level exceedance was recorded due to the documented complaint in the reporting month.

One (1) Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Date	Monitoring Location Level (L _{eq} dB(A))		Baseline Noise Level (L _{eq} dB(A))	Construction Noise Level (L _{eq} dB(A))	Limit Level
06 June 2022	CM1	77.9	65.5	<u>78</u>	75

The results of exceedance investigation are attached as below

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

- Notification of Exceedances

NOE No. 220606_noise (CM1) Exceedance Level: Limit

Time of Measurement: 10:52 -11:52

Date of Noise Monitoring: <u>06 June 2022</u>

Part A – Exceedance Summary Tables

Table I:Parameter(s) – Construction Noise

Station	Location	Time	Measured Level (L _{eq} dB(A))	Baseline Noise Level (L _{eq} dB(A))	Construction Noise Level (L _{eq} dB(A))	Action Level	Limit Level (L _{eq} dB(A))	Level exceeded
CM1	Nga Lai House, Yau Lai Estate Phase 1,	10:52	77.9	65.5	<u>77.6</u>	When one documented	75	Limit
CMI	Yau Tong	11:22	72.6	05.5	71.7	complaint is received.	15	

Field Observation(s) and Conclusion

(a) Statement of exceedance(s)

Construction noise measured at CM1 exceeded the construction noise (day time) limit level.

(b) Cause of exceedance(s)

According to the observation of our field staff, the major noise source(s) and/or reason(s) for exceedance identified at CM1 is/are as follow:

- 1. A breaker was being operated at Portion IVB of TKOLTT during monitoring. Despite noise barrier was placed near at the breaker, it was not able to block the direct line of sight (See Photo 1 and 2).
- 2. Percussive / breaking noise from LTI and Portion IVB of TKOLTT were heard during the first measurement
- 3. Road traffic along the adjacent slip road approaching to EHC tunnel.

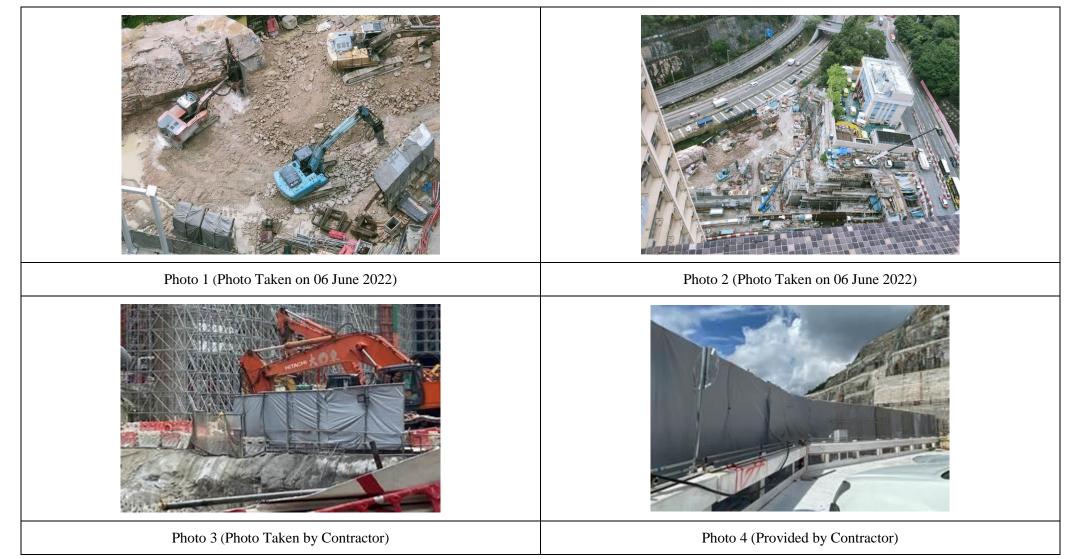
Review on the implementation of noise mitigation measures of the Project of Trunk Road T2:

1. Noise barriers were erected on the site of Trunk Road T2 (See Photo 3 and 4).

Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

- Notification of Exceedances

Photo Record



Environmental Permit No.: EP-458/2013/C Environmental Team for Trunk Road T2

- Notification of Exceedances

Part B – Conclusion:

Based on the finding(s) and observation(s) above, the limit level exceedance of construction noise recorded at station CM1 on 06 June 2022 was due to the construction activities of the TKOLTT project. Therefore, the exceedance is considered as **non-project related**.

Part C – Recommendation:

Although the exceedance is considered as non-project related, it is recommended that the following construction noise mitigation measures shall always be implemented on site to reduce/ minimize the construction noise nuisance due to the construction activities.

- 1. Use of temporary or fixed noise barriers with a surface density of at least 10kg/m2 to screen noise from movable and stationary plant;
- 2. Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc;
- 3. Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;
- 4. Mobile plant, if any, should be sited as far from NSRs as possible;
- 5. Use of site hoarding as a noise barrier to screen noise at low level NSRs;
- 6. 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
- 7. Any material stockpiles and other structures should be effectively utilized, wherever practicable, to screen the noise from on-site construction activities.

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur 02\	02V0 Start 02V0 Finis	nish Start					Apr		
					January February 02 09 16 23 30 06 13 20 27	March April May 27 06 13 20 27 03 10 17 24 01 08 15	June 22 29 05 12 19		ugust September 14 21 28 04 11 18 25	
ED/2018/04 - Trunk Road T2	914 30-3	30-Sep-20 29-Jun-2	-24 13-Mar-21 A	A 08-Aug-24						
DESIGN SUBMISSION & APPROVAL		16-Nov-20 19-Sep-2		A 15-Oct-22						
GENERAL		22-Jan-21 22-Jul-2	· · ·	A 29-Jun-22						
DDA Street Lighting (AGR/DPR/S20/L10/L18)		22-Jan-21 22-Jan-2		A 29-Mar-22 A	I I I I I				·	
DDA - 7th Review by SO	35				A DDA - 7th Review by SO					
DDA - Further information required by SO	12		08-Jan-22 A			on required by SO				
DDA - 8th Sub	0			27-Jan-22 A						
DDA - 8th Review by SO	35		28-Jan-22 A			DDA - 8th Review by SO				
DDA - SO Consent for DDA Submission	0	22-Jan-2		29-Mar-22 A		DDA - SO Consent for DDA Submission				
DDA Landscape Design		20-May-21 22-Jul-2		A 29-Jun-22						
DDA - Further information required by SO		20-May-21 17-Jun-2			A DDA Further information required by:SO)				
DDA - 2nd Sub	0	17-Jun-2			A 🔷 DDA - 2nd Sub					
DDA - 2nd Review by SO	35 18-	18-Jun-21 22-Jul-2				DDA - 2nd Review by SO				
DDA - Further information required by SO	24		15-Mar-22 A	A 25-May-22 A	A			mation required by SO		
DDA - 3rd Sub	0			25-May-22 A	A		DDA 3rd \$ub			
DDA - 3rd Review by SO	35		26-May-22 A	A 29-Jun-22				DDA - 3rd Review by SO		
DDA - SO Consent for Construction	0	22-Jul-2	21	29-Jun-22				DDA - SO Consent for Construct	on	
DEPRESSED ROAD [DPR]	199 05-1	05-Dec-20 19-Feb-2	21 09-Sep-21 A	A 04-May-22 A	A					
DDA DPR - Portal Structure		05-Dec-20 19-Feb-2		A 04-May-22 A	·					
DDA - Review by IP / DC		05-Dec-20 01-Jan-2			A DDA - Review by IP / DC					
DDA - Further information required by SO	12 02-	02-Jan-21 15-Jan-2	21 06-Oct-21 A	、 07-Jan-22 /	A DDA - Further information required by S	\$O				
DDA - 2nd Sub	0	15-Jan-2	۷1	07-Jan-22 A	A 🔷 DDA - 2nd Sub					
DDA - 2nd Review by SO	35 16-	16-Jan-21 19-Feb-2	-21 08-Jan-22 A	A 21-Feb-22 A		A - 2nd Review by SO				
DDA - Further information required by SO	12		22-Feb-22 A	A 10-Mar-22 A	A	DDA - Further information required by SO				
DDA - 3rd Sub	0			10-Mar-22 A	A	◆ DDA- 3rd Sub				
DDA - 3rd Review by SO	35		11-Mar-22 A	A 31-Mar-22 A	A	DDA- 3rd Review by SO				
DDA - Further information required by SO	12		01-Apr-22 A	A 06-Apr-22 A	A	DDA + Further information required	J by SQ			
DDA - 4th Sub	0			06-Apr-22 A	A	◆ DDA - 4th \$ub				
DDA - 4th Review by SO	35		07-Apr-22 F	A 04-May-22 A	A	DDA - 4th R	eview by SO			
DDA - SO Consent for Construction	0	19-Feb-2	21	04-May-22 A	A	◆ DDA SO C	onsent for Construction			
Stage 1A Completion	0	19-Feb-2		04-May-22 A		Stage 1A Co	ompletion			
WEST VENTILATION BUILDING [WVB]		10-Feb-21 11-Sep-2		A 20-Aug-22						
DDA WVB - ABWF		06-Jun-21 11-Sep-2		<u> </u>						
DDA - Review by SO		06-Jun-21 03-Jul-2	21 11-Sep-21 A	-	K		DDA - F	Review by SO		
DDA - Review by IP / DC	28 06-	06-Jun-21 03-Jul-2	21 11-Sep-21 A	A 10-Jun-22			DDA - F	Review by IP / DC		
DDA - Further information required by SO	30 05-	05-Jul-21 07-Aug-2	-21 11-Jun-22	16-Jul-22			····	DDA - Further infor	mation required by SO	
DDA - 2nd Sub	0	07-Aug-2	21	16-Jul-22				◆ DDA - 2nd Sub		
DDA - 2nd Review by SO	35 08-/	08-Aug-21 11-Sep-2	-21 17-Jul-22	20-Aug-22	2				DDA - 2nd Review by SO	
DDA - SO Consent for Construction	0	11-Sep-2		20-Aug-22					DDA - SO Consent for Consti	
DDA WVB - Aesthetic Design		10-Feb-21 20-Jul-2		A 19-Aug-22						
DDA - Review by IP / DC		10-Feb-21 09-Mar-2		A 10-Jun-22	· · · · · · · · · · · · · · · · · · ·		DDA - F	Review by IP / DC		

- Page 1 of 24 Data Date: 04-Jun-22
 - in-22
 - Actual Work

 Actual Work
 Baseline Milestone

 Baseline Bar

Milestone

Planned Bar

CriticalActivity

Actual Milestone

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2022
						January February March April May June July August September 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 04 11 18 25
DDA - 2nd Review by SO	35	11-Apr-21	15-May-21	20-Jun-21 A	16-Jun-22	DDA-2nd Review by SO
DDA - 2nd Review by IP	35	11-Apr-21	15-May-21	20-Jun-21 A	16-Jun-22	DDA- 2nd Review by IP
DDA - Further information required by SO	24	17-May-21	15-Jun-21	17-Jun-22	15-Jul-22	DDA - Further information required by SO
DDA - 3rd Sub	0		15-Jun-21		15-Jul-22	DDA - 3rd Sub
DDA - 3rd Review by SO	35	16-Jun-21	20-Jul-21	16-Jul-22	19-Aug-22	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0		20-Jul-21		19-Aug-22	◆ DDA - SØ Consent for Constri
SOUTH APRON ROAD WORKS	244	25-May-21	19-Sep-22	29-Oct-21 A	27-Aug-22	
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking and Traffic	149	25-May-21	25-May-21	11-Nov-21 A	11-Jun-22	
DDA - Further information required by SO	12			11-Nov-21 A	01-Apr-22 A	
DDA - 6th Sub	0				01-Apr-22 A	
DDA - 6th Review by SO	35			02-Apr-22 A	11-Jun-22	DDA - 6th Review by SO
DDA - SO Consent for Construction	0		25-May-21		11-Jun-22	◆ DDA - SO Consent for Construction
DDA Road L10 (S) - Roadworks and Street Furniture	190	19-Aug-21	19-Aug-21	18-Nov-21 A	14-Jul-22	
DDA - Further information required by SO	12			18-Nov-21 A	31-Mar-22 A	DDA- Further information required by SO
DDA - 7th Sub	0				31-Mar-22 A	
DDA - 7th Review by SO	35			01-Apr-22 A	06-May-22 A	A DDA - 7th Review by SO
DDA - Further information required by SO	12			07-May-22 A	01-Jun-22 A	DDA - Further information required by SO
DDA - 8th Sub	0				01-Jun-22 A	DDA - 8th Sub
DDA - 8th Review by SO	35			02-Jun-22 A	14-Jul-22	DDA:- 8th;Review by;SO
DDA - SO Consent for Construction	0		19-Aug-21		14-Jul-22	◆ DDA- SO Consent for Construction
AIP - Kiosk	21	03-May-22	03-May-22	04-Dec-21 A		
AIP - 3rd Review by SO	28			04-Dec-21 A	03-Jan-22 A	AlP - 3rd Review by SQ
AIP - SO Consent for DDA Submission	0		03-May-22		03-Jan-22 A	♦ AIP - \$O Consent for DDA Submission
DDA - Kiosk	169	04-May-22	· ·		27-Aug-22	
DDA - Draft - Preparation by Designer	36	04-May-22	16-Jun-22	04-Jan-22 A	15-Feb-22 A	
DDA - Draft - Final Review and prepare for 1st Sub	14	17-Jun-22	04-Jul-22	16-Feb-22 A	11-Jun-22	DDA - Draft Final Review and prepare for 1st Sub
DDA - 1st Sub	0		04-Jul-22		11-Jun-22	◆ DDA - 1st Sub
DDA - Review by SO	28	05-Jul-22	01-Aug-22	12-Jun-22	09-Jul-22	DDA - Review by SO
DDA - Review by IP / DC	28	05-Jul-22	01-Aug-22	12-Jun-22	09-Jul-22	DDA - Review by IP / DC
DDA - Further information required by SO	12	02-Aug-22	15-Aug-22	11-Jul-22	23-Jul-22	DDA - Further information require
DDA - 2nd Sub	0		15-Aug-22		23-Jul-22	◆ DDA - 2nd Sub
DDA - 2nd Review by SO	35	16-Aug-22	19-Sep-22	24-Jul-22	27-Aug-22	DDA -
DDA - SO Consent for Construction	0		19-Sep-22		27-Aug-22	◆ DDA -
[STE] AIP Kai Hing Road / Lam Chak Street Modification	115	15-Dec-21	11-Mar-22	29-Oct-21 A	21-Mar-22 A	
AIP - Review by IP / DC	28	15-Dec-21	11-Jan-22	29-Oct-21 A	17-Jan-22 A	
AIP - Further information required by SO	24	12-Jan-22	11-Feb-22	20-Nov-21 A	20-Jan-22 A	AIP - Further information required by SO
AIP - 2nd Sub	0		11-Feb-22		20-Jan-22 A	
AIP - 2nd Review by SO	28	12-Feb-22	11-Mar-22	21-Jan-22 A	04-Feb-22 A	AIP - 2nd Review by SO
AIP - Further information required by SO	24			05-Feb-22 A	18-Feb-22 A	AIP - Further information required by SO
AIP - 2nd Sub	0				18-Feb-22 A	AIP - 2nd Sub
AIP - 2nd Review by SO	28			19-Feb-22 A	21-Mar-22 A	AlP - 2nd Review by SO
	+		!		I	Date Revision Checked Approved
Page 2 of 24					. –	Date Revision Checked Approved

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- - Actual Milestone
 Actual Work

Baseline Milestone

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BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2022
						Ja 02 09	anuary 9 16 23	February March April May June July August September 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 21 28 04 11 18 25
AIP - SO Consent for DDA Submission	0		11-Mar-22		21-Mar-22 A			♦ AIP - SO Consent for DDA Submission
[STE] DDA KHR Modification - Permanent Utility Design	124	12-Mar-22	11-Jun-22	28-Dec-21 A				
DDA - Draft - Preparation by Designer	6	12-Mar-22	18-Mar-22	28-Dec-21 A			 ; 	DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	6	19-Mar-22	25-Mar-22	21-Jan-22 A	31-Jan-22 A			DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		25-Mar-22		31-Jan-22 A			◆ DDA - 1st Sub
DDA - Review by SO	28	26-Mar-22	22-Apr-22	01-Feb-22 A	11-Mar-22 A			DDA - Review by SO
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	01-Feb-22 A	27-Apr-22 A			DDA - Review by IP / DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	12-Mar-22 A	03-May-22 A			DDA - Further information required by SO
DDA - 2nd Sub	0		07-May-22		03-May-22 A			◆ ◆ DD/A - 2nd Sub
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	04-May-22 A	27-May-22 A			DDA - 2nd Review by SO
DDA - Further information required by SO	24			28-May-22 A	25-Jun-22			DDA - Further information required by SO
DDA - 3rd Sub	0				25-Jun-22			◆ DDA - 3rd Sub
DDA - 3rd Review by SO	35			26-Jun-22	30-Jul-22			DDA - 3rd Review by \$O
DDA - SO Consent for Construction	0		11-Jun-22		30-Jul-22			DDA - SO Consent for Construction
[STE] DDA KHR Modification - Alignment, Traffic Sign, Road Marking a	139	12-Mar-22	11-Jun-22	03-Jan-22 A	07-Jul-22			
DDA - Draft - Preparation by Designer	6	12-Mar-22	18-Mar-22	03-Jan-22 A	12-Jan-22 A			DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	6	19-Mar-22	25-Mar-22	13-Jan-22 A	17-Jan-22 A			DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		25-Mar-22		17-Jan-22 A		•	◆ DDA - 1st Sub
DDA - Review by SO	28	26-Mar-22	22-Apr-22	18-Jan-22 A	21-Mar-22 A			DDA - Review by SO
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	18-Jan-22 A	24-Mar-22 A			DDA - Review by IP // DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	22-Mar-22 A	24-Mar-22 A			DDA - Further information required by SO
DDA - 3rd Sub	0		07-May-22		24-Mar-22 A			DDA - 3rd Sub
DDA - 3rd Review by SO	35	08-May-22	11-Jun-22	25-Mar-22 A	13-Apr-22 A			DDA - 3rd Review by SO
DDA - Further information required by SO	12			14-Apr-22 A	03-May-22 A			DDA - Further information required by \$0
DDA - 4th Sub	0				03-May-22 A			◆ DDA - 4th Sub
DDA - 4th Review by SO	35			04-May-22 A	19-May-22 A			DDA - 4th Review by SO
DDA - Further information required by SO	12			20-May-22 A	02-Jun-22 A			DDA - Further information required by SO
DDA - 5th Sub	0				02-Jun-22 A			◆ DDA-5th;Sub
DDA - 5th Review by SO	35			03-Jun-22 A	07-Jul-22			DDA:- 5th;Review by;SO
DDA - SO Consent for Construction	0		11-Jun-22		07-Jul-22			◆ DDA:- SO;Consent for Construction
[STE] DDA KHR Modification - Roadworks and Street Furniture	163	12-Mar-22	11-Jun-22	03-Jan-22 A	23-Jul-22			
DDA - Draft - Preparation by Designer	9	12-Mar-22	18-Mar-22	03-Jan-22 A	12-Jan-22 A			DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	4	19-Mar-22	25-Mar-22	13-Jan-22 A	17-Jan-22 A			DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		25-Mar-22		17-Jan-22 A		•	DDA - 1st Sub
DDA - Review by SO	28	26-Mar-22	22-Apr-22	18-Jan-22 A	11-Mar-22 A		·	DDA - Review by SO
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	18-Jan-22 A	02-Mar-22 A			DDA - Review by IP // DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	12-Mar-22 A	27-Apr-22 A			DDA - Further, information required by SO
DDA - 2nd Sub	0		07-May-22		27-Apr-22 A			ODA - 2nd Sub
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	28-Apr-22 A	27-May-22 A			DDA - 2nd Review by SO
DDA - Further information required by SO	12			28-May-22 A	18-Jun-22			DDA - Further information required by SQ

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Actual Milestone Actual Work

Planned Bar

CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish				2022
						02	January 09 16	23 3	February March April May June July August September 3 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 01 18 25
DDA - 3rd Sub	0				18-Jun-22				◆ DDA - 3nd Sub
DDA - 3rd Review by SO	35			19-Jun-22	23-Jul-22				DDA - 3nd Review by SO
DDA - SO Consent for Construction	0		11-Jun-22		23-Jul-22				DDA - SO Consent for Construction
[STE] DDA KHR Modification - Street Lighting	161	12-Mar-22	11-Jun-22	28-Dec-21 A	16-Jul-22				
DDA - Draft - Preparation by Designer	20	12-Mar-22	18-Mar-22	28-Dec-21 A	20-Jan-22 A	i			DDA - Draft - Preparation by Designer
DDA - Draft - Final Review and prepare for 1st Sub	9	19-Mar-22	25-Mar-22	21-Jan-22 A	31-Jan-22 A				DDA - Draft - Final Review and prepare for 1st Sub
DDA - 1st Sub	0		25-Mar-22		31-Jan-22 A			•	◆ DDA - 1st Sub
DDA - Review by SO	28	26-Mar-22	22-Apr-22	01-Feb-22 A	12-Mar-22 A				DDA - Review by SØ
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	01-Feb-22 A	30-Mar-22 A				DDA - Review by IP / DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	14-Mar-22 A	30-Mar-22 A	+-			DDA - Further information required by SQ
DDA - 2nd Sub	0		07-May-22		30-Mar-22 A				♦ DDA - 2nd Sub
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	31-Mar-22 A					DDA - 2nd Review by SO
DDA - Further information required by SO	12			07-Apr-22 A	· · · · · · · · · · · · · · · · · · ·				DDA - Further information required by SQ
DDA - 3rd Sub	0			5. npi 22 /1	11-Jun-22				◆ DDA - 3rd Sub
DDA - 3rd Review by SO	35			12-Jun-22	16-Jul-22				DDA - 3rd Review by SQ
			11 1	IZ-JUIFZZ					DDA - Sturkeyew by So DDA - Source w by So
DDA - SO Consent for Construction	0	01 1 00	11-Jun-22	10.5 01.4	16-Jul-22				
[STE] DDA Road L10 (N) - Permanent Utility Design DDA - 3rd Review by SO	158 35	21-Jun-22	21-Jun-22	18-Dec-21 A	25-Jul-22 05-Jan-22 A			eview	
DDA - Further information required by SO	12			06-Jan-22 A					DDA - Further information required by SO
				UO-Jali-22 A					 DDA - 4 th Sub
DDA - 4th Sub	0				25-Feb-22 A				
DDA - 4th Review by SO	35			26-Feb-22 A					DDA - 4th Review by SO
DDA - Further information required by SO	12			24-Mar-22 A	· · · · · · · · · · · · · · · · · · ·				DDA Further information required by SO
DDA - 5th Sub	0				20-Apr-22 A				◆ DDA - 5th Sub
DDA - 5th Review by SO	35			21-Apr-22 A	28-May-22 A				DDA - 5th Review by SD
DDA - Further information required by SO	12			30-May-22 A	20-Jun-22				DDA Further information required by SO
DDA - 6th Sub	0				20-Jun-22				◆ DDA - 6th Sub
DDA - 6th Review by SO	35			21-Jun-22	25-Jul-22				DDA - 6th Review by SD
DDA - SO Consent for Construction	0		21-Jun-22		25-Jul-22				♦ DDA - SO Consent for Construction
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Marking and T	188	21-Jun-22	21-Jun-22	02-Dec-21 A	22-Jun-22	+-			
DDA - Further information required by SO	12			02-Dec-21 A	18-May-22 A				DDA - Further information required by SO
DDA - 6th Sub	0				18-May-22 A	\ \			◆ DDA - 6th Sub
DDA - 6th Review by SO	35			19-May-22 A	22-Jun-22				DDA 6th Review by SO
DDA - SO Consent for Construction	0		21-Jun-22		22-Jun-22				DDA - SO Consent for Construction
[STE] DDA Road L10 (N) - Roadworks and Street Furniture	108	21-Jun-22	21-Jun-22	07-Dec-21 A	11-Apr-22 A				
DDA - Further information required by SO	12			07-Dec-21 A	16-Mar-22 A				DDA - Further information required by SO
DDA - 7th Sub	0				16-Mar-22 A				◆ DDA 7th \$ub
DDA - 7th Review by SO	35			17-Mar-22 A	11-Apr-22 A				DDA - 7th Review by SO
DDA - SO Consent for Construction	0		21-Jun-22		11-Apr-22 A	+-			◆ DDA SO Consent for Construction
SUPPORTING UNDERGROUND STRUCTURE [SUS]	154	30-Mar-21	21-Sep-21	17-Dec-21 A	22-Jul-22				
DDA SUS - Interna I Structure	154	30-Mar-21	21-Sep-21	17-Dec-21 A	22-Jul-22	÷-			
DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	17-Dec-21 A	15-Feb-22 A			1-	DDA - Draft - Preparation by Designer
									Date Revision Checked Approved
Page 4 of 24 Milestone									Date Revision Checked Approved

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

BOUYGUES TRAVAUX PUBLICS



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

ctivity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	
						January February March April May June July August September 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 14 21 28 04 11
DDA - Draft - Final Review and prepare for 1st Sub	24	17-May-21	15-Jun-21	16-Feb-22 A	29-Mar-22 A	
DDA - 1st Sub	0		15-Jun-21		29-Mar-22 A	A DDA - 1st Sub
DDA - Review by SO	28	16-Jun-21	13-Jul-21	30-Mar-22 A	13-Apr-22 A	A DDA Revewby SO
DDA - Review by IP / DC	28	16-Jun-21	13-Jul-21	30-Mar-22 A	10-Jun-22	2 DDA - Review by IP / DC
DDA - Further information required by SO	30	14-Jul-21	17-Aug-21	14-Apr-22 A	17-Jun-22	2 DDA - Further information required by SO
DDA - 2nd Sub	0		17-Aug-21		17-Jun-22	2 DDA - 2hd Sub
DDA - 2nd Review by SO	35	18-Aug-21	21-Sep-21	18-Jun-22	22-Jul-22	2 DDA- 2nd Review by SO
DDA - SO Consent for Construction	0		21-Sep-21		22-Jul-22	2 DDA - SO Consent for Construction
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	258	22-Dec-20	03-Mar-21	17-Jul-21 A	16-Jun-22	
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	258	22-Dec-20	22-Dec-20	17-Jul-21 A	16-Jun-22	
DDA - Further information required by SO	39			17-Jul-21 A	12-May-22 A	DDA- Further information required by SO
DDA - 5th Sub	0				12-May-22 A	A DDA-5th;Sub
DDA - 5th Review by SO	35			13-May-22 A	16-Jun-22	2 DDA:- 5th; Review by SO
DDA - SO Consent for Construction	0		22-Dec-20		16-Jun-22	
Stage 2A Completion	0		22-Dec-20		16-Jun-22	2 ♦ Stage 24 Completion
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scheme)	258	03-Mar-21	03-Mar-21	17-Jul-21 A	16-Jun-22	
DDA - Further information required by SO	39			17-Jul-21 A	12-May-22 A	
DDA - 5th Sub	0				12-May-22 A	A DDA:- 5th;Sub
DDA - 5th Review by SO	6			13-May-22 A	16-Jun-22	
DDA - SO Consent for Construction	0		03-Mar-21		16-Jun-22	
SUB-SEA TBM TUNNEL	244	28-Dec-20	28-Aug-21	29-May-21 A		
DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD)	134	28-Dec-20 28-Dec-20	01-Mar-21	29-May-21 A		
DDA - Further information required by SO	24	28-Dec-20	25-Jan-21	-		A DDA:- Further information required by \$0
DDA - 2nd Sub	0		25-Jan-21		06-Jan-22 A	A • DDA- 2nd Sub
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	07-Jan-22 A	09-Feb-22 A	A DDA - 2nd ;Review by: SO
DDA - SO Consent for Construction	0		01-Mar-21		09-Feb-22 A	
DDA Tunnel - General Building Plan	35	20-Jul-21	28-Aug-21	16-Dec-21 A		
DDA - 2nd Review by SO	35	20-Jul-21 20-Jul-21	28-Aug-21 28-Aug-21			A DDA 2nd Review by SO
DDA - SO Consent for Construction	0		28-Aug-21		05-Jan-22 A	
FER - Fire Engineering Report (SG Scheme)	159	18-Jun-21	18-Jun-21	29-Dec-21 A	09-Jul-22	
FER - 3rd Review by SO	45	TO-JUII-2 T	IO-JUIFZ I	29-Dec-21 A		
FER - Further information required by SO	48				21-May-22 A	
FER- 4th Sub	0			00112271	21-May-22 A	
FER - 4th Review by SO	45			23-May-22 A	09-Jul-22	
FER - SO Consent for Construction	45		18-Jun-21	25 Way-22 A	09-Jul-22	
		20 1		0/ Nov 01 4		
DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (SG Scheme DDA - 4th Review by SO	47 35	28-Jun-21	28-Jun-21	06-Nov-21 A 06-Nov-21 A		
DDA - SO Consent for Construction	0		28-Jun-21	00 110 V-2 T A	05-Jan-22 A	
		20.14.04		01.001.0		
CROSS PASSAGE DDA - Cross Passage - CP TBM Confinement	254 218	30-May-21 30-May-21	26-Nov-21 06-Sep-21	01-Sep-21 A 01-Sep-21 A		
DDA - Cross Passage - CP TBM Confinement DDA - Review by IP / DC	218	30-May-21 30-May-21	26-Jun-21	01-Sep-21 A		
DDA - Further information required by SO	30	28-Jun-21	02-Aug-21	07-Oct-21 A		
			02-Aug-21			
Page 5 of 24						Date Revision Checked Appro
Data Date: 04-Jun-22		ED/	2018/0)4 Trur	ık Roa	bad T2 and Infrastructure Works
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for Developments at South Apron

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09-Apr-20

17-Jul-20

09-Oct-20 02-Jul-21

01V1

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish								2022									
						02	January 09 16 23	February	20 2	March 7 06 13	20 27	April	May 08 15	22 29	June	26 03 10	July	24 31		gust 14 21 28	Septembe	
DDA - 2nd Sub	0		02-Aug-21		28-Jan-22 A	02		DDA - 2nd Sub	20 2	7 00 13	20 27			22 27	03 12 17				07	7 21 20		0 23
DDA - 2nd Review by SO	35	03-Aug-21	06-Sep-21	29-Jan-22 A	26-Mar-22 A			<u></u>			D	DA - 2nd Review by SO									$-\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	
DDA - Further information required by SO	30			28-Mar-22 A	21-May-22 A	+								DDA Fi	urther information	equired by S	0					
DDA - 3rd Sub	0				21-May-22 A								•	DDA 31	d Sub					/	$-\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	
DDA - 3rd Review by SO	35			23-May-22 A	26-Jun-22				+						· · · · · · · · ·	DDA - 3rd F	Reviewby	ı SO		·	$-\frac{1}{1}$	
DDA - SO Consent for Construction	0		06-Sep-21		27-Jun-22										•••••	DDA - \$0 (Consent f	or Const	truction		$-\frac{1}{1}$ = $\frac{1}{1}$ =	
DDA - Cross Passage - CP TBM - D	DCRA 237	18-Aug-21	26-Nov-21	01-Sep-21 A	27-Jun-22																$-\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	
DDA - Review by IP / DC	28	18-Aug-21	14-Sep-21	01-Sep-21 A	26-Jan-22 A			DDA - Review by	IP / DC	>												
DDA - Further information required by SO	30	15-Sep-21	22-Oct-21	07-Oct-21 A	28-Jan-22 A			DDA - Further in	formati	ion required by	SO											
DDA - 2nd Sub	0		22-Oct-21		28-Jan-22 A			DDA - 2nd Sub														
DDA - 2nd Review by SO	35	23-Oct-21	26-Nov-21	29-Jan-22 A	26-Mar-22 A						D	DA - 2nd Review by SO										
DDA - Further information required by SO	30			28-Mar-22 A	21-May-22 A								1		urther information	equired by S	0					
DDA - 2nd Sub	0				21-May-22 A								•	DDA 21	nd Sub							
DDA - 2nd Review by SO	35			23-May-22 A	26-Jun-22											DDA - 2nd	Review by	y SÓ				
DDA - SO Consent for Construction	0		26-Nov-21		27-Jun-22										•	DDA - SO (Consent f	or Const	truction			
EAST VENTILATION BUILDING [EV			16-May-22	26-Oct-21 A	15-Oct-22																	
DDA - EVB - ABWF DDA - Draft - Final Review and prepare for	181 1st Sub 24	16-Nov-20 16-Nov-20	24-Mar-21 12-Dec-20		20-Aug-22 04-Feb-22 A					I Review and p	roparo f	for 1st Sub										
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DDA - Review by SO	28	13-Dec-20	09-Jan-21	05-Feb-22 A	10-Jun-22										DDA - Revi	-why SO						
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	05-Feb-22 A	10-Jun-22										DDA - Revi							
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	11-Jun-22	16-Jul-22										·····		1 1	- Further	r, informa	ation required	1 by SO	
DDA - 2nd Sub	0		17-Feb-21		16-Jul-22												🔶 DDA					
DDA - 2nd Review by SO	35	18-Feb-21	24-Mar-21	17-Jul-22	20-Aug-22															DDA -	2nd Review by	SO
DDA - SO Consent for Construction	0		24-Mar-21		20-Aug-22															• DDA -	SO Consent fo	r Consti
DDA - EVB - Aesthetic Design	249		09-Jun-21	05-Nov-21 A	15-Oct-22			· · · · · · · · · · · · · · · · · · ·													·	
DDA - Review by SO	28	30-Dec-20	26-Jan-21	05-Nov-21 A	10-Jun-22				+						DDA - Revi							
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	05-Nov-21 A	10-Jun-22										DDA - Revi							
DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	11-Jun-22	09-Jul-22														rmation r	required by S	0	
DDA - 2nd Sub	0	07 E. h. 01	26-Feb-21	10 1 1 2 2	09-Jul-22											• U	DA - 2nd	Sup				
DDA - 2nd Review by SO	35	27-Feb-21	02-Apr-21	10-Jul-22	13-Aug-22														J	DDA - 2nd R	Review by SO	
DDA - 2nd Review by IP	35	27-Feb-21	02-Apr-21	10-Jul-22	13-Aug-22																	- Furthe
DDA - Further information required by SO	24	07-Apr-21	05-May-21	15-Aug-22	10-Sep-22																	
DDA - 3rd Sub	0	0/ May 21	05-May-21	11 C -= 22	10-Sep-22																◆ DDA	- 31/0 SL
DDA - 3rd Review by SO	35	06-May-21	09-Jun-21	11-Sep-22	15-Oct-22																	
DDA Foot Bridge FT-03 [NEW] DDA - Review by SO	232	13-Feb-22 13-Feb-22	16-May-22 12-Mar-22	26-Oct-21 A 26-Oct-21 A	13-Aug-22 10-Jun-22										DDA - Revi	ew by SO						
DDA - Review by IP / DC	28	13-Feb-22	12-Mar-22	26-Oct-21 A	10-Jun-22										DDA - Revi							
DDA - Further information required by SO	24	14-Mar-22	11-Apr-22	11-Jun-22	09-Jul-22										·		DA - Furt	herinfori	mation r	required by S	0	
DDA - 2nd Sub	0		11-Apr-22		09-Jul-22							·····					DA - 2nd					
DDA - 2nd Review by SO	35	12-Apr-22	16-May-22	10-Jul-22	13-Aug-22															DDA - 2nd I	Review by SO	
	A 10 1					<u>i :</u>			1		1					Date		evision	<u> </u>	Checked	Approv	
Page 6 of 24 ♦ Data Date: 04-Jun-22	Milestone Planned Bar		2010/0			- h		d Infraa	tru	oturo V		rko			18	-Dec-19	00V1			Yu		
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	Actual Work		1	or Dev	elopn	nen	ts at S	South A	pro	on		TRA	VAUX	PUBLIC		-Apr-20 '-Jul-20	01V1 01V2			Pa/LLo Pa/LLo	WYu WYu	——
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	-		innee		19 17 0	mić		yrannine	; (I)	nay-22	<u> </u>				02	-Jul-21	02V0)	SF	Pa/LLo	WYu	

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2022
						January February March April May June July August September 02 09 16 23 30 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 04 11 18 25
DDA - SO Consent for Construction	0		16-May-22		13-Aug-22	◆ DDA - SO Consent for Constructio
DDA - EVB - General Building Plan (including SoA) (SG Scheme)	79	07-Apr-21	07-Apr-21	04-Dec-21 A	28-Feb-22 A	
DDA - 3rd Review by SO	35			04-Dec-21 A	28-Feb-22 A	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0		07-Apr-21		28-Feb-22 A	DDA - SO Consent for Construction
TUNNEL E&M INSTALLATION & COMMISSIONING	370	10-Jan-21	30-Dec-21	15-Mar-21 A	07-Oct-22	
DDA - E&M Tunnel Ventilation Design (SG Scheme)	140	20-May-21	20-May-21	08-Dec-21 A	16-Jul-22	
DDA - 3rd Review by SO	35				24-Feb-22 A	
DDA - Further information required by SO	42			25-Feb-22 A	11-Jun-22	DDA - Further information required by SO
DDA - 4th Sub	0				11-Jun-22	🔶 DDA - 4th Sub
DDA - 4th Review by SO	35			12-Jun-22	16-Jul-22	DDA - 4th Review by SO
DDA - SO Consent for Construction	0		20-May-21		16-Jul-22	◆ DDA - SQ Consent for Construction
DDA - E&M Air Purification System (WVB)	307	10-Jan-21	05-May-21	15-Mar-21 A	22-Jul-22	
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	03-Mar-22 A	I I I I I I I I I I I I I I I I I I I
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	10-Mar-22 A	DDA- Further information required by SO
DDA - 2nd Sub	0		31-Mar-21		10-Mar-22 A	◆ DDA- 2nd Sub
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	11-Mar-22 A	12-Apr-22 A	DDA - 2nd Review by SO
DDA - Further information required by SO	42			13-Apr-22 A	17-Jun-22	DDA - Further information required by SO
DDA - 3rd Sub	0				17-Jun-22	◆ DDA - 3rd Sub
DDA - 3rd Review by SO	35			18-Jun-22	22-Jul-22	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0		05-May-21		22-Jul-22	◆ DDA - SQ Consent for Canstruction
DDA - E&M Fire Services Installation	244	26-Feb-21	11-Jun-21	09-Jun-21 A	10-Jun-22	
DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	10-Feb-22 A	DDA- Review by IP / DC
DDA - Further information required by SO	32	26-Mar-21	07-May-21	07-Jul-21 A	11-Feb-22 A	DDA - Further information required by SO
DDA - 2nd Sub	0		07-May-21		11-Feb-22 A	DDA - 2nd Sub
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	12-Feb-22 A	26-Mar-22 A	DDA - 2nd Review by SO
DDA - Further information required by SO	32			28-Mar-22 A	14-Apr-22 A	DDA- Further information required by SO
DDA - 3rd Sub	0				14-Apr-22 A	◆ DDA:- 3rd Sub
DDA - 3rd Review by SO	35			15-Apr-22 A	10-Jun-22	DDA - 3rd Review by SO
DDA - SO Consent for Construction	0		11-Jun-21		10-Jun-22	◆ DDA - SQ Consent for Construction
DDA - E&M MVAC	278	03-Jun-21	03-Jun-21	17-Dec-21 A		
DDA - Further information required by SO	32				21-Feb-22 A	DDA - Further information required by SO
DDA - 3rd Sub	0				21-Feb-22 A	◆ DDA - 3rd Sub
DDA - 3rd Review by SO	35			22-Feb-22 A	23-Mar-22 A	DDA + 3rd Review by SO
DDA - Further information required by SO	32				06-May-22 A	
DDA - 4th Review by SO	35			05-May-22 A	-	DDA + 4th Review by SO
DDA - 4th Sub	0			,	06-May-22 A	
DDA - SO Consent for Construction	0		03-Jun-21		08-Jun-22	◆ DDA + SO Consent for Construction
DDA - E&M Plumbing & Drainage System	148	22-Apr-21	26-May-21	24-Dec-21 A	30-Jun-22	
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21		24-Jan-22 A	DDA - 2nd Review by SO
DDA - Further information required by SO	32	· ·			26-May-22 A	
DDA - 3rd Sub	0				26-May-22 A	
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Page 7 of 24 Data Date: 04-Jun-22 Milestone

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Critical A divity

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish									20		-							
							lanuary 9 16 23	February 30 06 13	20 27		<i>l</i> arch 13 20 27 03	April	7 24 0	Ma 1 08	5	29 05	June 12 19	26 03	July 10 17	24 31		gust 14 21 2	September 8 04 11 18 2
DDA - 3rd Review by SO	35			27-May-22 A	30-Jun-22													DDA	- 3rd Revie	w by SC)		
DDA - SO Consent for Construction	0		26-May-21		30-Jun-22				; <u>;</u>								·; ;	🔶 DDA	-SOCons	ent for C	Constructi	on	
DDA - E&M Electrical Installation	248	25-Feb-21	11-Jun-21	16-Jul-21 A	30-Jun-22	+																	
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	19-Jan-22 A	- II - I		Review by IP /															
DDA - Further information required by SO	33	25-Mar-21	07-May-21	25-Aug-21 A	19-Jan-22 A		DDA -	Further informa	ation requ	uired by	so						·		+				
DDA - 2nd Sub	0		07-May-21		19-Jan-22 A		DDA	2nd Sub	¦									·					
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	20-Jan-22 A	24-Feb-22 A				DD	DA-2nd	Review by SO						·	++					
DDA - Further information required by SO	33			25-Feb-22 A	26-May-22 A										1 I I		1	nation requir	ed by SO				
DDA - 3rd Sub	0				26-May-22 A										•	DDA - 3rd	Sub						
DDA - 3rd Review by SO	35			27-May-22 A	30-Jun-22													DDA	- 3rd Revie	w by SC)		
DDA - SO Consent for Construction	0		11-Jun-21		30-Jun-22												·	🔶 DDA	-SO¦Cons	ent for C	Constructi	on	
DDA CLP Submission - Power Supply to EVB & WVB	63	11-Aug-21	11-Aug-21	11-Dec-21 A	28-Feb-22 A				1 1 1 1									·					
DDA - Further information required by SO	34			11-Dec-21 A	10-Feb-22 A			DDA	- Further	r informa	tion required by SC)											
DDA - 4th Sub	0				10-Feb-22 A			♦ DDA	- 4th Sul	b													
DDA - 4th Review by SO	35			11-Feb-22 A	28-Feb-22 A				¦	DDA - 4	th Review by SO		·				·		+				
DDA - SO Consent for Construction	0		11-Aug-21		28-Feb-22 A				•	DDA - \$	O Consent for Con	struction					·	·					
DDA - E&M Tunnel Lighting Design	146	26-Apr-21	03-Sep-21	29-Nov-21 A	15-Jun-22	+																	
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	29-Nov-21 A	13-Jan-22 A		DDA - Dra	t - Final Review	and pre	pare for	1st Sub												
DDA - 1st Sub	0		10-May-21		13-Jan-22 A		♦ DDA - 1st	Sub															
DDA - Review by SO	28	11-May-21	07-Jun-21	14-Jan-22 A	07-Feb-22 A			DDA -	Reviewb	oy SO							·;	·					
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	14-Jan-22 A	07-Feb-22 A				Reviewb		C						·		+				
DDA - Further information required by SO	24	08-Jun-21	30-Jul-21	08-Feb-22 A	11-May-22 A						·····			DI	DA - Furth	er informat	tion requi	red by SO					
DDA - 2nd Sub	0		30-Jul-21		11-May-22 A									♦ DI	DA 2nd S	1 1 1							
DDA - 2nd Review by SO	35	31-Jul-21	03-Sep-21	12-May-22 A	15-Jun-22												DDA	2nd Revie	w by SO				
DDA - SO Consent for Construction	0		03-Sep-21		15-Jun-22													- SO Conse	ent for Cons	truction			
DDA - E&M CMCS	157	07-Jul-21	13-Oct-21	04-Dec-21 A	22-Jul-22	÷			;; ; , , , , , , , , , , , , , , , , , , ,								·;						
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	04-Dec-21 A	10-Jun-22								1				DDA - R	eview by IP	/ DC				
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	23-Dec-21 A	17-Jun-22								1				DD	A - Further i	information	required	l by SO		
DDA - 2nd Sub	0		08-Sep-21		17-Jun-22												♦ DD	A - 2nd Sub)				
DDA - 2nd Review by SO	35	09-Sep-21	13-Oct-21	18-Jun-22	22-Jul-22													· · · · · · · · · · · · · · · · · · ·		DDA - 2	2nd Revie	ew by SO	
DDA - SO Consent for Construction	0		13-Oct-21		22-Jul-22													· · · - 	•	DDA - S	SOCons	ent for Cons	truction
AIP - Civil Provision for TCSS	63	15-Oct-21	30-Dec-21	23-Jul-22	07-Oct-22												·						
AIP - Draft - Preparation by Designer	22	15-Oct-21	09-Nov-21	23-Jul-22	17-Aug-22																	1 1	aft - Preparation by D
AIP - Draft - Final Review and prepare for 1st Sub	12	10-Nov-21	23-Nov-21	18-Aug-22	31-Aug-22																		AIP - Draft - Final
AIP - 1st Sub	0		23-Nov-21		31-Aug-22																	•	AIP - 1st Sub
AIP - Review by SO	28	24-Nov-21	21-Dec-21	01-Sep-22	28-Sep-22	1																	
AIP - Review by IP / DC	28	24-Nov-21	21-Dec-21	01-Sep-22	28-Sep-22								····				·j						
AIP - Update & prepare for 2nd Sub	6	22-Dec-21	30-Dec-21	29-Sep-22	07-Oct-22	1																	
PAYMENT MILESTONE	228	30-Sep-20	04-Mar-23	13-Jan-22 A	28-Sep-22																		
-	98	13-Jan-22	13-Apr-22	13-Jan-22 A	13-Apr-22 A							+ -					·		+ 				
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 26	0		13-Jan-22		13-Jan-22 A		1.1.42 Mor	hthly Remaining	value of	this Cos	t Centre 1 Month 2	6					-						
		1																Date		Revisio		Chaolicad	Approved

Page 8 of 24 Data Date: 04-Jun-22

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish												2022								
						02	Janu 09	iary 16 23	Februar 30 06 13	ry 20	27	Marc 06 13	ch 3 20 2	7 03 1	April 0 17 2	24 01	May 08 15 2	2 29 0	June June	19 26	Jul 03 10	y 17 24	31 0	August	September 28 04 11 18 25
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 27	0		14-Feb-22		14-Feb-22 A			10 20						e of this Co	-						00 10	.,			
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 28	0		14-Mar-22		14-Mar-22 A								1.1.42 Mo	nthly Rem	aining valu	e of this	Cost Centre 1	Month 28	3						
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 29	0		13-Apr-22		13-Apr-22 A		++			+					> 1.1.42 M	/lonthly	Remaining val	ue of this C	Cost Centr	re 1 Moi	nth 29				
3.1 for Trunk Road T2	138	29-Mar-21	21-Sep-21	13-Jan-22 A	22-Jul-22	+	+			+															
3.1.50 Approval AIP for completion of SUS	0		29-Mar-21		13-Jan-22 A		♦	8.1.50 App	roval AIP for c	ompletio	on of S	SUS													
3.1.52 Approval DDA for completion of SUS	0		21-Sep-21		22-Jul-22																	♦ 3.1	52 Appr	oval DDA for p	ompletion of SUS
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (Southe	0	26-Feb-21	26-Feb-21	13-Jan-22 A	13-Jan-22 A		++			·															
3.3 .16 Approval DDA for waterworks	0		26-Feb-21		13-Jan-22 A		♦	3.3 .16 App	roval DDA for	waterwo	orks														
3.4 for the Remaining Stage 5 Infrastructure Works - FT02	51	09-Mar-21	09-Mar-21	13-Jan-22 A	14-Mar-22 A	ii	;; ; ;			·															
3.4 .10 Approval DDA for modification of existing footbridge	0		09-Mar-21		13-Jan-22 A		♦	3.4 .10 App	roval DDA for	modifica	ation o		<u> </u>												
3.4 .12 Approval Demolition plan for existing footbridge	0		09-Mar-21		14-Mar-22 A										1		isting footbridg	e							
3.4 .13 Complete whole activities of this cost centre	0		09-Mar-21		14-Mar-22 A							•	3.4 .13 Co	omplete wh	ole activiti	es of thi	scostcentre								
3.5 for Lam Chak Street and Kai Hing Road	6	11-Jun-22	11-Jun-22	23-Jul-22	30-Jul-22																				
3.5 .8 Approval DDA for roadworks	0		11-Jun-22		23-Jul-22														♦					oval DDA for r	
3.5.24 Approval DDA for landscape works	0		11-Jun-22		23-Jul-22														♦			• 3.5	24 App	roval DDA for	andscape works
3.5.25 Complete whole activities of this cost centre	0		11-Jun-22		23-Jul-22														♦			♦ 3.5	.25 Con	nplete whole a	ctivities of this cost centre
3.5 .12 Approval DDA for storm water drainage works	0		11-Jun-22		30-Jul-22														♦				3.5 .1	2 Approval DC	A for stormwater drainag
3.5 .16 Approval DDA for waterworks	0		11-Jun-22		30-Jul-22	i;				· · · · · · · · · · · · · · · · · · ·		;							♦				3.5 .1	6 Approval DC	A for waterworks
3.5 .20 Approval DDA for sewage works	0		11-Jun-22		30-Jul-22					+					++-				♦				3.5 .2	0 Approval DC	A for sewage works
3.6 for Road L10 (Northern Section)	0	21-Jun-22	21-Jun-22	04-Jun-22	04-Jun-22		+			+															
3.6 .8 Approval DDA for Road L10 (northern section)	0		21-Jun-22		04-Jun-22*	i;				÷								•		♦ 3.6.8	Approval D	DA for Roa	d L10 (I	northern sectio	n)
3.6.9 Complete whole activities of this cost centre	0		21-Jun-22		04-Jun-22*										++-			• • • • • • • • • • • • • • • • • • • •		♦ 3.6.9	Complete v	hole activi	ties of tl	nis cost centre	
3.9 for the Pipelines for District Cooling System for Commissioning of	0	30-Sep-20	30-Sep-20	04-Jun-22	04-Jun-22					+					++-										
3.9.11 Submit O&M manual for DCS pipelines	0		30-Sep-20		04-Jun-22													• 3	3.9.11 Sul	bmit O&	M manual for	DCS pipe	lines		
4.2 Depressed Road and Remaining Ventilation Adits at the South Aprc	0	20-Apr-21	14-Sep-21	04-Jun-22	04-Jun-22		÷																		
4.2 .17 Complete South Apron Adist permanent structure 1	0		31-Aug-21		04-Jun-22*													• 4	4.2 .17 Cc	omplete	Sputh Apron	Adist perm	anent s	tructure 1	
4.2 .23 Complete foundation of Depressed Road by length 1	0		20-Apr-21		04-Jun-22*													• 4	4.2 .23 Cc	omplete	foundation of	Depresse	d Road	by length 1	
4.2.31 Complete permanent structure of Depressed Road by length 1	0		14-Sep-21		04-Jun-22*													• 4	4.2 .31 Co	omplete	permanent s	ructure of	Depress	ed Road by le	ngth 1
5.2 Completion of SUS	93	17-Nov-21	06-Apr-22	04-Jun-22	24-Sep-22		÷																		
5.2 .29 Complete remaining works in SUS by length 0.5	0		17-Nov-21		04-Jun-22													• 5	1 1		remaining wo				
5.2 .30 Complete remaining works in SUS by length 0.6	0		31-Dec-21		18-Jun-22														•	5.2.30	Complete re	naining wo	orks in S	US by length (.6
5.2 .31 Complete remaining works in SUS by length 0.7	0		16-Feb-22		01-Aug-22																		• 5.2 .	31 Complete r	emaining works in SUS b
5.2.5 Complete overhead ventilation duct slab by length 0.1	0		07-Feb-22		05-Aug-22	h			 	·+													◆ 5	.2 .5 Complete	overhead ventilation duc
5.2.6 Complete overhead ventilation duct slab by length 0.2	0		23-Feb-22		22-Aug-22					♦	-													◆ 5.2	.6 Complete overhead v
5.2 .15 Complete Thermal barrier by length 0.1	0		25-Feb-22		24-Aug-22		+			♦														• 5	2.15 Complete Thermal
5.2.7 Complete overhead ventilation duct slab by length 0.3	0		11-Mar-22		07-Sep-22		+					\													♦ 5.2.7 Complete
5.2 .32 Complete remaining works in SUS by length 0.8	0		30-Mar-22		13-Sep-22					·			<	>											◆ 5.2.32 Cor
5.2 .20 Complete Thermal barrier by length 0.6	0		06-Apr-22		19-Sep-22		+			·				♦											◆ 5.2 .2(
5.2 .8 Complete overhead ventilation duct slab by length 0.4	0		28-Mar-22		24-Sep-22								♦												♦ 5.2
5.2 .16 Complete Thermal barrier by length 0.2	0		28-Mar-22		24-Sep-22								♦												♦ 5.2
6.2 TBM Tunnel	21	23-Mar-22	21-Apr-22	24-Aug-22	19-Sep-22					·															
6.2 .7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		23-Mar-22		24-Aug-22					·			♦											♦ 6	2.7 Complete excavatio
Page 0 of 24					<u> </u>	i		1 1		<u> </u>							: : :		-		Date	Revi	sion		d Approved
Page 9 of 24 ♦ ♦ Milestone Planned Bar Planned Bar			2018/0)4 Trur	nk Ros	- h	тっ	and	Infra	ctri	ict	lire	م <i>۱۸۱</i> ۲	nrke							Dec-19	00V1		WYu	
CriticalActivity													,	7113			BOUYG	UES				01V0		SPa/LLo SPa/LLo	WYu WYu
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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2022	
						January February March April May 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15	June July August September 22 29 05 12 19 26 03 10 17 24 31 07 14 21 28 04 11 18
6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		07-Apr-22		07-Sep-22		◆ 6.2.8 Cor
6.2.24 Complete TBM Tunnel waterproofing 0.4	0		07-Apr-22		07-Sep-22	◆	◆ 6.2.24 Cd
6.2 .9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0		21-Apr-22		19-Sep-22	◆	
6.3 Cross Passages for TBM Tunnel	34	07-Apr-22	23-May-22	18-Aug-22	28-Sep-22		······································
6.3 .5 Complete Ground treatment for all Cross Passages 0.2	0		07-Apr-22		18-Aug-22	◆	◆ 6.3.5 Complete; Ground t
6.3.14 Complete excavation and support of Cross Passages 0.1	0		23-Apr-22		31-Aug-22	◆ · · · · · · · · · · · · · · · · · · ·	◆ 6.3 .14 Comple
6.3 .6 Complete Ground treatment for all Cross Passages 0.3	0		23-May-22		28-Sep-22		
7.1 Western Ventilation Building	0	26-Feb-22	26-Feb-22	04-Jun-22	04-Jun-22		
7.1.5 Complete pile foundation for WVB 0.5	0		26-Feb-22		04-Jun-22	•	
7.1 .6 Complete pile foundation for WVB 1	0		26-Feb-22		04-Jun-22	•	7.1.6 Complete plle foundation for WVB
8.1 Eastern Ventilation Building	0	14-Jun-22	14-Jun-22	28-Sep-22	28-Sep-22		
8.1.3 Complete excavation for EVB 1	0		14-Jun-22		28-Sep-22		◆
9.1 Launching Shaft	21	01-Jun-22	16-Jun-22	08-Aug-22	01-Sep-22		
9.1.20 Complete permanent wall & bottom slab for Launching Shaft by length 0.6	0		01-Jun-22		08-Aug-22		◆ 9.1 .20 Complete permanent wal
9.1.18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0		01-Jun-22		18-Aug-22		 ♦ 9.1.18 Complete permar
9.1 .21 Complete permanent wall & bottom slab for Launching Shaft by length 0.8	0		16-Jun-22		22-Aug-22		◆ 9.1.21 Complete perr
9.1.22 Complete permanent wall & bottom slab for Launching Shaft by length 1	0		16-Jun-22		22-Aug-22		♦ 9.1.22 Complete perr
9.1 .19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0		16-Jun-22		01-Sep-22		♦ 9.1 .19 Compl
11.1 Drill and Break Tunnel	153	13-Aug-21	25-Jan-22	12-Feb-22 A	03-Sep-22		
11.1.2 Complete tunnel excavation 0.3 by length	0		13-Aug-21		12-Feb-22 A	11.1.2 Complete tunnel excavation 0.3 by length	
11.1.2 Complete tunnel excavation 0.4 by length	0		14-Sep-21		13-May-22 A	◆ 11.7	1.2 Complete tunnel excavation 0.4 by length
11.1.2 Complete tunnel excavation 0.5 by length	0		19-Oct-21		04-Jun-22*		◆ 11.1.2 Complete tunnel excavation 0.5 by length
11.1.3 Complete tunnel excavation 0.6 by length	0		19-Nov-21		04-Jun-22*		11.1.3 Complete tunnel excavation 0.6 by length
11.1.5 Complete tunnel excavation 0.7 by length	0		21-Dec-21		04-Jun-22*		11.1.5 Complete tunnel excavation 0.7 by length
11.1.7 Complete tunnel excavation 0.8 by length	0		25-Jan-22		03-Sep-22		◆ 11.3.7 Comp
12.1 Drill and Blast Tunnel	177	14-Feb-22	31-Mar-22	14-Mar-22 A	13-Apr-22 A		······································
12.1.10 Complete tunnel excavation 0.9 by length	0		14-Feb-22		14-Mar-22 A	12.1.10 Complete;tunnel excavation 0.9 by length	
12.1.11 Complete tunnel excavation 1 by length	0		31-Mar-22		13-Apr-22 A	♦ ♦ 12.1.11 Complete tunnel e	xcavation 1 by length
13.1 Lam Tin Interchange Works	51	20-Jun-22	19-Aug-22	20-Jun-22	19-Aug-22		
13.1.1 Complete foundation	0		20-Jun-22		20-Jun-22*		13.1.1 Complete foundation
13.1.2 Complete fabrication of structural frame	0		19-Aug-22		19-Aug-22*		♦ 13.1.2 Complete fabrica
14.3 Kiosks	77	20-Jun-22	20-Sep-22	20-Jun-22	20-Sep-22		╞╌╌┊╌╎╴╏╌╌┊╌╴┊╌╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴
14.3.1 Complete fabrication and application of protective systems for structural frame of	0		20-Jun-22		20-Jun-22*		14.3.1 Complete fabrication and application of protective systems for s
kinsk 1 14.3.2 Complete erection of structural frame of kiosk 1	0		20-Jul-22		20-Jul-22*		◆ 14.3.2 Complete erection of structural frame of
14.3.3 Complete cladding of kiosk 1	0		20-Aug-22		20-Aug-22*		♦ 14.3.3 Complete claddi
14.3.4 Complete architectural works and finishing of kiosk 1	0		20-Sep-22		20-Sep-22*		
15.0 E&M Design Works	86	10-May-21	03-Sep-21	13-Jan-22 A	15-Jun-22		<u></u>
15.0.25 Submit DDA for Tunnel lighting system	0		10-May-21		13-Jan-22 A	◆ 15.0 25 Submit DDA for Tunnel lighting system	
15.0.26 Approval DDA for Tunnel lighting system	0		03-Sep-21		15-Jun-22		♦ 15.0.26 Approval DDA for Tunnel lighting system
15.4 APS Works for Western Ventilation Building	0	17-Sep-22	17-Sep-22	17-Sep-22	17-Sep-22		╞╌╌┊╌┊╶┟╴┋╌╌┊╌╴┊╌╴┊╴╴╞┊╌╴┊╌╴┊╌╴┊╴╴╴┋╴╴┊╴╴┊╴╴┊╴╴┊╴╴┊╴╴
15.4.1 Complete site delivery of DeNO2 filters	0		17-Sep-22	1	17-Sep-22*		• 15
15.4.3 Complete site delivery of electrostatic precipitation system	0		17-Sep-22		17-Sep-22*		▲ 15
							Date Revision Checked Approve
Page 10 of 24 Pata Data: 0.1 Jun 22 Planned Bar			004010			52 and Infractory at the Marks	Date Revision Checked Approve 18-Dec-19 00V1 WYu
Data Date: 04-Jun-22						2 and Infrastructure Works	22-Feb-20 01V0 SPa/LLo WYu
Actual Milestone		1	1			to at Cauth Annan BOUY	

Actual Milestone Actual Work

♦ Baseline Milestone Baseline Bar

for Developments at South Apron

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09-Apr-20

17-Jul-20

09-Oct-20 02-Jul-21

01V1

01V2

01V3

02V0

SPa/LLo

SPa/LLo

SPa/LLo

SPa/LLo

WYu

WYu

WYu

WYu

Activity Name	Dur	02V0 Start																		
						January 02 09 16	23 3		ebruary March) 27	03 1	April 0 17	May 24 01 08 15 22	J 29 05 1	une 12 19	26 03 10	July) 17 24	31	August 07 14 21	September 28 04 11 18 25
15.4.5 Complete site delivery of wash down system	0		17-Sep-22		17-Sep-22*															♦ 15.4.5
15.4.7 Complete site delivery of support system	0		17-Sep-22		17-Sep-22*															◇ 15.4.7
17.1 Works under Sections 6A, 6C and 12 and Associated Landscape 1	0	21-Sep-21	04-Oct-21	04-Jun-22	04-Jun-22															
17.1.13 Complete footpath 0.25	0		21-Sep-21		04-Jun-22*									♦ 17.1	.13 Com	plete footpath	0.25			
17.1.17 Complete street furnitures of at-grade roads 0.25	0		04-Oct-21		04-Jun-22*							+		17.1	.17 Com	plete street fur	nitures of at-o	rade r	roads 0.25	
17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se	0	02-Aug-22	04-Mar-23	04-Jun-22	04-Jun-22															
17.4.1 Complete excavation and disposal of material works 0.25	0		17-Feb-23		04-Jun-22									•						
17.4.2 Complete excavation and disposal of material works 0.5	0		04-Mar-23		04-Jun-22*									•						
17.4 .21 Complete drainage installation 0.2	0		18-Oct-22		04-Jun-22*									•						
17.4 .25 Complete manhole for drainage 0.25	0		18-Oct-22		04-Jun-22*									•						
17.4 .31 Complete sewerage installation 0.25	0		02-Aug-22		04-Jun-22*									•				今 17	.4.31 Complete	sewerage installation 0.
17.4 .35 Complete manhole for sewerage 0.25	0		02-Aug-22		04-Jun-22*									•				今 17	.4.35 Complete	manhole for sewerage (
17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V	85	23-Dec-21	23-Jun-22	13-Apr-22 A	15-Sep-22															
17.5 .11 Complete concrete works of pile caps 0.5	0		23-Dec-21		13-Apr-22 A						•	17.5	.11 Complete concrete works	of pile cap	s 0,5	·				
17.5 .16 Complete concrete works of piers 0.25	0		07-Mar-22		13-May-22 A				♦				◆ 17.5 .16 ¢c	mplete cor	ncrete w	orks of piers 0	25			
17.5.12 Complete concrete works of pile caps 0.8	0		08-Jan-22		04-Jun-22	\$								17.5	.12 Com	plete concrete	works of pile	caps (0.8	
17.5.13 Complete concrete works of pile caps 1	0		20-Jan-22		04-Jun-22									♦ 17.5	.13 Com	plete concrete	works of pile	caps	1	
17.5.17 Complete concrete works of piers 0.5	0		07-Mar-22		04-Jun-22				• • • • • • • • • • • • • • • • • • •					♦ 17.5	.17 Com	plete concrete	works of pier	s 0.5		
17.5.18 Complete concrete works of piers 0.8	0		07-Mar-22		04-Jun-22									17.5	.18 Com	plete concrete	works of pier	s 0.8		
17.5.19 Complete concrete works of piers 1	0		28-Mar-22		25-Jun-22				· 	♦			++			♦ 17.5 .19 Co	mplete concr	ete woi	rks of piers 1	
17.5.21 Complete concrete works of deck 0.25	0		23-Jun-22		15-Sep-22															♦ 17.5.21 (
17.5.25 Complete prestressing works of deck 0.25	0		23-Jun-22		15-Sep-22															◆ 17.5.25 (
21.5 Establishment Works for Improvement Works at the Junctions of	72	20-Nov-21	20-Nov-21	13-Apr-22 A	13-Apr-22 A															
21.5.3 Complete establishment works for 9 mths completion of softworks	0		20-Nov-21		13-Apr-22 A						•	21.5	.3 Complete establishment w	rks for 9 m	nths com	pletion of softv	/orks			
21.5.4 Complete whole activities of this cost centre	0		20-Nov-21		13-Apr-22 A						•••••	21.5	.4 Complete whole activities of	f this cost o	centre					
22.1 Pipelines for District Cooling System for Commissioning of AMAV	95	17-Jul-21	16-Nov-21	13-Jan-22 A	11-Jun-22															
22.1.3 Complete DCS installation length 0.8	0		17-Jul-21		13-Jan-22 A	♦ 22.1	3 Com	plete DO	C\$ installation length 0.8											
22.1.5 Complete T&C of DCS system 1	0		16-Nov-21		11-Jun-22									•	22.1.5	Complete T&C	of DCS syste	m 1		
22.1.6 Complete whole activities of this cost centre 1	0		16-Nov-21		11-Jun-22									•	22.1.6	Complete who	e activities of	this co	ost centre 1	
34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works	72	06-Apr-22	21-Nov-22	08-Jun-22	02-Sep-22											+++				
34.2.2 Complete excavation of CUE	0		24-Aug-22		08-Jun-22									•					♦ 3	4.2.2 Complete excavati
34.2.4 Complete concrete works of base slab of CUE 0.5	0		06-Apr-22		11-Jun-22						♦			•	34.2.4	Complete conc	rete works of	base s	slab of CUE 0.5	
34.2 .8 Complete concrete works of walls of CUE 0.5	0		06-Apr-22		11-Jun-22						♦			•	34.2.8	Complete conc	rete works of	walls o	of CUE 0,5	
34.2 .12 Complete concrete works of top slab of CUE 0.5	0		06-Apr-22		11-Jun-22						♦			•	34.2.12	Complete con	crete works o	of top s	lab of CUE 0.5	
34.2 .5 Complete concrete works of base slab of CUE 0.75	0		21-Nov-22		02-Sep-22															•
34.2 .9 Complete concrete works of walls of CUE 0.75	0		21-Nov-22		02-Sep-22							1								•
34.2 .13 Complete concrete works of top slab of CUE 0.75	0		21-Nov-22		02-Sep-22															•
35 Services Gallery	97	08-Oct-21	14-Jun-22	13-Apr-22 A	28-Sep-22							$\frac{1}{1}$ $$								
35.16 Complete 20% of total length (measured on plan) of SG structures in Drill-and-Break and Drill-and-Blast Tunnel	0		04-Feb-22		13-Apr-22 A						•	3 5.1	6 Complete 20% of total lengt	(measure	d on pla	n) of SG struct	ures in Drill-a	nd-Bre	eak and Drill-and	BlastTunnel
35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basement	0		29-Nov-21		13-Apr-22 A						•	3 5.3	2 Complete 50% of total volur	e (measur	ed on pl	an) of excavati	on for Lower	Basem	nent of East Vent	ilation Building
of East Ventilation Building 35.9 Approval of DDA submission for Services Gallery E&M design by the SO	0		08-Oct-21		04-Jun-22*									♦ 35.9	Approva	I of DDA subm	ission for Ser	vicesO	Gallery E&M des	gh by the SO
						<u> </u>	· · ·	<u> </u>		<u> </u>		ı				· · ·	· · ·	· <u>·</u>		
Page 11 of 24																Date	Revi	sion	Checke	d Approved

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- - Actual Milestone
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 Baseline Bar

Activity

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

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish										2022									
						02	January	,	Fe 30 06	ebruary	Ma	rch 3 20 2	Ap 7 03 10	pril	May 1 08 15 22	Ju 29 05 1	une 12 19	26 03 10	July	4 31 07	August	1 28	Septen	nber 18 25
35.17 Complete 40% of total length (measured on plan) of SG structures in Drill-and-Break	0		04-Feb-22		04-Jun-22*				\$	10 20						◆ 35.17	Complete	40% of total	length (me			_	• • • • •	
and Drill-and-Blast Tunnel 35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basement	0		30-Apr-22		17-Aug-22					+-				\							♦ 35.	33 Comp	olete 75%	of total vol
of Fast Ventilation Building 35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and	0		04-Apr-22		31-Aug-22								♦									• 3	5.21 Com	plete 10%
ancillaries in TRM Tunnel 35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Break	0		07-Feb-22		14-Sep-22				- - ►														•	35.14 Con
and Drill-and-Blast Tunnel 35.34 Complete 100% of total volume (measured on plan) of excavation for Lower	0		14-Jun-22		28-Sep-22												>							•
Basement of Fast Ventilation Ruilding 35.35 Complete concreting works of 25% of the total gross plan area for the Lower	0		21-Mar-22		28-Sep-22							•												·
Basement of East Ventilation Building SOUTH APRON EXTERNAL WORKS	827	10-Mar-21	29-Jun-24	26-Nov-21 A	08-Aug-24																			
Road S20	231	19-Jul-21	17-Jan-22	13-Dec-21 A	14-Oct-22																			· · · · · · · · · · · · · · · · · · ·
CUE	186	19-Jul-21	17-Jan-22	28-Dec-21 A	14-Oct-22																			·
CUE FSI Forms submission to FSD (if applicable)	0		21-Oct-21		19-Jul-22														♦ CUE	FSI Forms	submissi	on to FS	D (if appli	cable)
CUE FS Inspection & Commissioning (if applicable)	48	19-Nov-21	17-Jan-22	17-Aug-22	14-Oct-22		¦																	· · · · · · · · · · · · · · · · · · ·
Entrance	108	19-Jul-21	18-Nov-21	28-Dec-21 A	21-May-22 A																			· · · · · · · · · · · · · · · · · · ·
Entrance- Remaining Structures (Wall & Top Slab)	12	19-Jul-21	31-Jul-21	28-Dec-21 A	-	+				+		Entrarice-	Remaining	Structures (M	all & Top Slab)									
Entrance - Utilities & E&M	72	18-Sep-21	18-Nov-21	16-Mar-22 A	21-May-22 A									- -	En	rance - Utilitie	es & E&M							·
Road & Drain	224	20-Jul-21	18-Nov-21	13-Dec-21 A	06-Oct-22																			· · · · · · · · · · · · · · · · · · ·
Stage 3	224	20-Jul-21	18-Nov-21	13-Dec-21 A	06-Oct-22																			
S20 Stage 3 (Watermain)	4	20-Jul-21	23-Jul-21	13-Dec-21 A	09-Jun-22											S	20 Stage 3	(Watermain)					
S20 Stage 3 (UU Diversion)	12	24-Jul-21	06-Aug-21	10-Jun-22	23-Jun-22													20 Stage 3 (UU Diversi	ion)				
S20 Stage 3 (U channel, Catchpit, Gully)	22	07-Aug-21	01-Sep-21	24-Jun-22	20-Jul-22													·	S 20) Stage 3 (L	I channel,	Catchpit	t, Gully)	
S20 Stage 3 (Roadworks)	22	02-Sep-21	28-Sep-21	21-Jul-22	15-Aug-22																S 20	Stage 3	(Roadwor	ks)
Utilities undertaker (by others)	36	07-Sep-21	21-Oct-21	26-Jul-22	05-Sep-22																		Uțilitie:	sundertak
Footpath, Road Marking & Road Lighting part 1	24	22-Oct-21	18-Nov-21	06-Sep-22	06-Oct-22																			
	242	16-Aug-21	10-Feb-22	26-Nov-21 A	17-Aug-22																			
Drainage & Sewerage	242	10-Sep-21	10-Feb-22	26-Nov-21 A	17-Aug-22																			
Section B	22	10-Sep-21	07-Oct-21	05-Apr-22 A	27-Apr-22 A					+									+					
Section B - Drainage	11	10-Sep-21	23-Sep-21	05-Apr-22 A	15-Apr-22 A									Section B -	Drainage									
Section B - Sewerage	11	24-Sep-21	07-Oct-21	16-Apr-22 A	27-Apr-22 A									––– S	ection B - Sewerage									
Section C	191	07-Dec-21	10-Feb-22	28-Feb-22 A	17-Jun-22																			
Section C - Drainage	21	07-Dec-21	03-Jan-22	28-Feb-22 A	05-Apr-22 A							· · ·	Secti	on C - Draina										
Section C - Sewerage	24	04-Jan-22	31-Jan-22	06-Apr-22 A	26-Apr-22 A									Se	ctioh C - Sewerage									
Section C - Watermain	6	04-Feb-22	10-Feb-22	11-Jun-22	17-Jun-22												Section	n C - Waterr	main					
Section D	236	07-Dec-21	17-Jan-22	26-Nov-21 A	-																			
Section D - Sewerage	14	07-Dec-21	22-Dec-21	26-Nov-21 A			Sec	tion D	\$ew'erage	e'														
Section D - Watermain	5	23-Dec-21	30-Dec-21	06-Jun-22	10-Jun-22											S 🗖	Section D -	Watermain						
Forecast	236	04-Jan-22	17-Jan-22	26-Nov-21 A	17-Aug-22		110/0-		(2 manha	ole) SM H1.10	1 10													
L18 (Drainage) (3 manhole) SMH1.10-1.12	18			26-Nov-21 A		1 1	1	- 1 T 1			1													
L10/L18 (Drainage) Sheet pile	35			03-Jan-22 A							Drainage) Sh nage) Backfil													
L18 (Drainage) Backfill	10			07-Feb-22 A								!!	10 / D											
L10/L18 (Drainage) Excavation	36			14-Feb-22 A						+-		; L10/L1	Urainage	e) Excavation		<u></u>	110// 40/						+	
L10/L18 (Drainage) (4 manhole) SMH1.6-1.9	24			21-Mar-22 A	11-Jun-22)rainage) (4 i						· · · · · · · · · · · · · · · · · · ·
L10/L18 (Drainage) Backfill	10			13-Jun-22	23-Jun-22					· · · · · · · · · · · · · · · · · · ·								10/L18 (Drai						
DSD Inspection	12	04-Jan-22	17-Jan-22	24-Jun-22	08-Jul-22													DS	SD Inspecti	ion				
		1																Date		vision				roved

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- - Actual Milestone
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09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish											2022										
		1				02 (Janu 09		February	<u> </u>		March 06 13		24 0		Vlay 15 22		une 12 19 1	26 03	July	24 31	Augus 07 14			eptember 11 18	
Section 6A Completion	0	,	17-Jan-22		17-Aug-22			>																6A Comp		
Outfall 1	109	16-Aug-21	07-Oct-21	07-Mar-22 A	A 17-Aug-22		·													·						1
Outfall 1 Excavation & Blinding	18	16-Aug-21	04-Sep-21	07-Mar-22 A	A 11-Jun-22									-					1	ion & Blinding	T 1					
Outfall 1 Installation & Alignment	48	06-Sep-21	27-Sep-21	13-Jun-22	08-Aug-22		:					, ,										💻 Outfall	ll 1 Instal	llation & Al	lignmen	1
Outfall 1 Backfilling & reinstatement	8	28-Sep-21	07-Oct-21	09-Aug-22	17-Aug-22																		Outfall 1	1 Backfill in	ıg & reir	staten
[STE] District Cooling System for AMAWBC Section 6B		27-Mar-21																		·						
Section 1 - Bay 3	98	30-Jul-21	01-Sep-21	23-Dec-21 A		+		·																		
DCS - Bay 3 Pipe Installation - Pipe welding	9	30-Jul-21					•			DCS¦-			nstallation Pipe welding													
DCS - Bay 3 Pipe Installation - Jointing (15nos)		10-Aug-21	20-Aug-21		A 28-Feb-22 A		!	·····			DCS -	- Bay 3	3 Pipe Installation - Jointing (15	5 nos)	<u>-</u>	<u>-</u> <u>-</u>										
DCS - Bay 3 Backfill		21-Aug-21					- 									· · · · · · · · · · · · · · · · · · ·		DCS - Bay	y 3 Back	ſil						
Section 2 - Bay 5		27-Mar-21	,		A 02-Mar-22 A	i ÷ - :		; 			+															
DCS - Bay 5 Pipe Installation - Jointing (30nos)		27-Mar-21	17-Apr-21		A 21-Feb-22 A								e Installation - Jointing (30nos)													
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21		A 02-Mar-22 A) 				DCS	3 Bay	y 5 Backfill			F . I I I I I I I										
Section 2 - S20		04-Aug-21	U		A 06-Jan-22 A	1 1	+				.+.															
DCS - S20 Pipe Installation - Jointing (27nos)		04-Aug-21	J J				JCS¦-	S20 Pipe	pe Installation - Joir	(nting)((27nos)															
Section 2 - CUE		04-Aug-21	17-Sep-21		A 19-Jan-22 A						· +															
DCS - CUE - Pipe welding		04-Aug-21	24-Aug-21		A 15-Jan-22 A		1		CUE - Pipe welding				· · · · · · · · · · · · · · · · · · ·													
DCS - CUE - Jointing (42nos)		25-Aug-21	17-Sep-21				! !	DCS -	S - CUE - Jointing ((42nos	/S)					· · · · · · · · · · · · · · · · · · ·										
Testing & Commissioning	48	18-Sep-21					- 			,						F <u>-</u>										
Overall DCS - Testing & Commissioning		18-Sep-21					¦		· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·					1 I I I	1	sting & Comm	nissioning	<u> </u>				
Section 6B completion	0	J	16-Nov-21		11-Jun-22		ļ	· · · · ·								· · · · · · · · · · · · · · · · · · ·	•	Section 6E	3 comple	etion						
[STE] District Cooling System - Remaining Section 7B		21-Oct-21	3					; ;;																1]
DCS (Section 3)		21-Oct-21	<u> </u>					·			÷															
DCS (L10(S)) DCS - L10(S) CH327-400 Sheet pile	184 38	21-Oct-21 21-Oct-21		27-Jan-22 A 27-Jan-22 A		<u>.</u>		·····		<u></u>	<u>.</u>					DCS-L	10(S) CH32	7.400 She	t nile							
DCS - L10(S) CH327-400 Sheet pile DCS - L10(S) CH327-400 Excavation		04-Dec-21		18-May-22 A			,	÷												DCS - L10(S)	СН327.	400 Excav	ration			//
DCS - L10(S) CH327-400 Excavation DCS - L10(S) CH252-327 Sheet pile		04-Dec-21	08-Jan-22 04-Jan-22				(¹	$\frac{i}{1}$ $\frac{1}{1}$ $\frac{i}{1}$		$\frac{1}{1}$ $\frac{1}{7}$										DCS - L 10(S	1					
· · · · · · · · · · · · · · · · · · ·							<u></u> !	<u>+</u> !	· {		+										() UI 1402 . 			10/C) CH	10E 9E9	Chat
DCS - L10(S) CH185-252 Sheet pile	37	05-Jan-22	19-Feb-22	05-Jul-22				+			÷													10(\$) CH1		
DCS - L10(S) CH327-400 Pipe Installation - Set up (DN900 73m)	12	10-Jan-22	22-Jan-22	05-Jul-22				;											·		1	(S) CH327-4			ທ - ຽຍເ 	ир (Dr
DCS - L10(S) CH252-327 Excavation	12	10-Jan-22	22-Jan-22					*													CS - L10(;	(S) CH252-3				
DCS - L10(S) CH327-400 Pipe Installation - Pipe welding	17	24-Jan-22	15-Feb-22	19-Jul-22																				H327-400		
DCS - L10(S) CH252-327 Pipe Installation - Set up (DN900 75m)	12	24-Jan-22	09-Feb-22	19-Jul-22	01-Aug-22																	DCS - L 10(\$	(S) CH25	2-327 Pip	e Install:	ution -
DCS - L10(S) CH327-400 Pipe Installation - Jointing (36nos)	24	16-Feb-22	15-Mar-22	08-Aug-22	03-Sep-22			j				,												DCS	3 - L10(S) CH:
DCS - L10(S) CH252-327 Pipe Installation - Pipe welding	18	16-Feb-22	08-Mar-22	08-Aug-22	27-Aug-22	-	·}														$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$			DCS-L10		
DCS - L10(S) CH185-252 Excavation	18	21-Feb-22	12-Mar-22	17-Aug-22	06-Sep-22	2	<u>}</u>	;;		<u> </u>							+							ф	CS - L10	J(\$) C
DCS - L10(S) CH252-327 Pipe Installation - Jointing (39nos)	26	16-Mar-22	19-Apr-22	05-Sep-22	07-Oct-22					1 <u>1</u> -			<u></u>											·		<u> </u>
DCS - L10(S) CH327-400 Backfill	12	16-Mar-22	29-Mar-22	05-Sep-22	19-Sep-22	2											+							· - ;		DCS -
DCS - L10(S) CH185-252 Pipe Installation - Set up (DN900 67m)	12	14-Mar-22	26-Mar-22	07-Sep-22	· ·		 			$\frac{1}{1}$ $\frac{1}{1}$														· -		1
DCS - L10(S) CH185-252 Pipe Installation - Pipe welding	16	28-Mar-22	19-Apr-22	22-Sep-22	· · ·			· · · · · · · · · · · · · · · · · · ·		$\frac{1}{1}$ $\frac{1}{1}$	÷															
DCS (Pipe Jacking)			17-May-22	· ·							+															
DCS (Pipe Jacking) DCS - Pipe Jacking Sheet pile	36	30-Nov-21 30-Nov-21	17-May-22 13-Jan-22	27-Jan-22 A			}	· · · · · · · · · · · · · · · · · · ·	<u></u>	·	<u></u>							DCS - Pip	e Jackir	ng Sheet pile	ži i 1 <u>i</u> 1 <u>i</u>			· - ::		
DCS - Pipe Jacking pils Excavation	25	14-Jan-22	15-Feb-22				<u> </u>	·'	+	+	÷									· · · ·	!!	king pits Ex	voavatior	, - <u> </u> -		
	20	+ Jun		10.500.22	12 50			<u>, </u>		<u> </u>					1				1			11.9 6.4				
Page 13 of 24 Milestone	,	Ι																	Dat		Revision		Checked	A E	Approve	эd
Data Date: 04-Jun-22	,	ED/	2018/	.)4 Tru ⁻	nk Ro	ad 7	Γ2	<u>an</u>	d Infra	str	ucti	Jre	Works						8-Dec-			WYu				
Critical Activity	,			/		<i>A</i> C		U		/	A &	/ · -		-	-				2-Feb-2	20 01V	<i>V</i> 0	SPa	I/LLO	WY	u	11

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for Developments at South Apron

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

Activity Name	Dur (02V0 Start	02V0 Finish	Start	Finish	2022
						January February March April May June July August September 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 04 11 18 25
DCS - Pipe Jacking	72 1	16-Feb-22	17-May-22	13-Jul-22	07-Oct-22	
Forecast	169			17-Jan-22 A		
Launching Pit DCS - Pipe Jacking Pre-treatment	169 12			17-Jan-22 A	29-Oct-22 26-Jan-22 A	DCS - Pipe Jacking Pre-treatment
DCS - Pipe Jacking Sheet pile	30				04-Apr-22 A	
DCS - Launching Pit Excavation	48			05-Apr-22 A		DCS - Launching Pit Excavation
DCS - Pipe Jacking Excavation	72			04-Aug-22	29-Oct-22	
Recieving Pit	50			10-May-22 A		DCS:- Pipe Jacking Pre-treatment
DCS - Pipe Jacking Pre-treatment	12				19-May-22 A	
DCS - Pipe Jacking Sheet pile	30			20-May-22 A		DCS Pipe Jacking Sheet pile
DCS - Receiving Pit Excavation	35			23-Jun-22	03-Aug-22	DCS Receiving Pit Excavation
Outfall 2 & Branch Drainage		03-Jan-22	01-Jun-22	06-Jun-22	27-Oct-22	
Coordinated Access to Portion H1 (NAH Site B)		03-Jan-22		06-Jun-22*		Coordinated Access to Portion H1 (NAH Site B)
Branch Drainage within Portion H1		03-Jan-22	30-Mar-22	06-Jun-22	29-Aug-22	Branch Drainage withi
Outfall 2 Excavation & Blinding	48 3	31-Mar-22	01-Jun-22	30-Aug-22	27-Oct-22	
Foot Bridge FB-02	281 1	10-Mar-21	25-Aug-22	07-Dec-21 A	18-Nov-22	
DSD KBSIS - Interface		10-Mar-21	07-Mar-22	14-Jan-22 A	02-Nov-22	
FB-02 Pipe Cap & waterproofing - P2/P3		30-Nov-21	20-Jan-22	14-Jan-22 A	26-Mar-22 A	
FB-02 Pier - P2/P3	36 2	21-Jan-22	07-Mar-22	28-Mar-22 A	23-May-22 A	
Temporary Ramp Construction	48 1	10-Mar-21	10-May-21	31-May-22 A	22-Jun-22	Temporary Ramp Construction
Existing Footbridge Disable Ramp - Demolition	36 1	11-May-21	08-Jun-21	23-Jun-22	04-Aug-22	Existing Footbridge Disable Ramp - Demo
FB-02 Pre-drilling - LC&D	8 1	17-Jun-21	23-Jun-21	05-Aug-22	13-Aug-22	
FB-02 H-pile - LC&D	30 2	24-Aug-21	28-Sep-21	15-Aug-22	19-Sep-22	FB-02
Forecast	236			14-Jan-22 A	02-Nov-22	
FB-02 Pipe Cap - P2	24			14-Jan-22 A	05-Feb-22 A	FB-02 Pipe Cap - P2
FB-02 Pipe Cap - P3	24			27-Jan-22 A	02-Mar-22 A	
FB-02 Pier - P3	36			07-Feb-22 A	04-Mar-22 A	FB-02 Pier - P3
FB-02 Pier - P2	36			20-Sep-22	02-Nov-22	
Road L10/ DPR	202 (04-Oct-21	28-Mar-22	07-Dec-21 A	18-Jul-22	
FB-02 Pipe Cap & waterproofing - P4/P5/A	42 3	30-Nov-21	20-Jan-22	21-Dec-21 A	10-May-22 A	
FB-02 Pile load test No.1 & 2	48 (04-Oct-21	29-Nov-21	30-Dec-21 A	24-Jan-22 A	
FB-02 Pier - P3/P4	36 2	21-Jan-22	07-Mar-22	26-Apr-22 A	28-May-22 A	FB 02 Pier - P3/P4
FB-02 Pier - P5	18 C	08-Mar-22	28-Mar-22	06-Jun-22	25-Jun-22	FB-02 Pier - P5
Forecast	202			07-Dec-21 A	18-Jul-22	
FB-02 Pipe Cap - LA&B	24			07-Dec-21 A	07-Mar-22 A	FB-02 Pipe ¢ap - LA&B
FB-02 Pipe Cap - P5	24			13-Dec-21 A	12-Mar-22 A	FB-02 Pipe Cap - P5
FB-02 Pipe Cap - P4	24			05-Apr-22 A	10-May-22 A	FB-02 Pipe Cap P4
FB-02 Pier - P4	36			11-May-22 A	28-May-22 A	FB ₀₂ Pfer - P4
FB-02 Pier - P5	36			06-Jun-22	18-Jul-22	FB-02 Pier - P5
Bridge Deck Construction	121 2	29-Mar-22	25-Aug-22	27-Jun-22	18-Nov-22	
FB-02 Bridge deck construction		29-Mar-22	25-Aug-22	27-Jun-22	18-Nov-22	
Road L18	66 3	31-Dec-21	22-Mar-22	18-Aug-22	05-Nov-22	

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CriticalActivity

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

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

ivity Name	Dur	02V0 Start	02V0 Finish	Start	Finish		lopuon	Fobruary	1	March	٨	ril	-	2022 May		luno	1	huhz.		luquet	Contom	or
							January)9 16 23	February 30 06 13 20	27 06	March 13 20 27 (Ap 03 10		01 (101 Niay 18 15 22	29 05	June 12 19	26 03 10	17 24		August	Septeml	
Road L18 - Utilities Coordination & Installation	66	31-Dec-21	22-Mar-22	18-Aug-22	05-Nov-22																	-
[STE] Kai Hing Road / Lam Chak Street Modification	674	26-Mar-22	29-Jun-24	26-Mar-22 A	08-Aug-24															·····		
TTA Phasing	0		26-Mar-22		26-Mar-22 A					♦ TTA	Phasing											
TMLG for XP validation	0		19-Apr-22		19-Apr-22 A							♦ TML(G for XP	validation								
XP validated	0		19-May-22		19-May-22 A									🔷 XP v	alidated							
TMLG to TD for Approval	0		25-May-22		25-May-22 A							+			TMLG to T	D for Appr	oval					
TMLG Approved	0		11-Jun-22		11-Jun-22	+						+			<	> TMLG A	Approved					
Roadworks advice from RMO for TTA Implementation	0		21-Jun-22		21-Jun-22							+					Roadworks adv	ice from RMC) for TTA	Implementati	on in in	
LCS / KHR - Public Road TTMS stages	600	22-Jun-22	29-Jun-24	01-Aug-22	08-Aug-24															<u> </u>	·	
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road Junction	358	06-Oct-21	17-Oct-22	26-Feb-22 A	22-Jun-23							+										
Stage 5 (Gas Station & HBR)	62	06-Oct-21	17-Oct-21	26-Feb-22 A	22-Jun-22							+										
Stage 5D (HBR Left Turn Lane 2)	62	06-Oct-21	17-Oct-21	26-Feb-22 A	22-Jun-22							+										
Reinstatement of carriageway	9	06-Oct-21	16-Oct-21	26-Feb-22 A	25-Mar-22 A					Reins	statemen	of carriag	jeway									
EMSD inspection & control box construction	9			07-Mar-22 A	11-Jun-22											EMSD i	nspection & co	ntrol box cons	truction			
Change over to permanent traffic signal	9			13-Jun-22	22-Jun-22			ii			i	+					Change over t	o permanent i	raffic sign	nal		
Section 8D [STE] - Completion	0		17-Oct-21		22-Jun-22*							+				•	Section 8D [S	E] - Complet	on			
Section 9F [STE] - Completion	0		17-Oct-21		22-Jun-22*							+				•	Section 9F [S	E] - Completi	on			
Establishment	365	18-Oct-21	17-Oct-22	23-Jun-22	22-Jun-23																	
HBR / CYS / WCR Junction Moditication - Establishment works	365	18-Oct-21	17-Oct-22	23-Jun-22	22-Jun-23		·	i				+ 				;; ; ; ; -	<u></u>			<u></u>		
[STE] Road L10 (Northern)	254	24-Nov-21	04-Jan-23	01-Dec-21 A	17-Oct-22							+										
CUE	254	24-Nov-21	04-Jan-23	01-Dec-21 A	17-Oct-22			·			i	+				i 				·····		
CUE L10(N) Structure part 1	108	24-Nov-21	06-Apr-22	01-Dec-21 A	11-Jun-22											CUEL1	0(N) Structure					-
CUE L10(N) Pump Test part 2	32	06-Jun-22	13-Jul-22	03-Jan-22 A	08-Jan-22 A													CUE L10(N)				
CUE L10(N) Excavation part 2	36	14-Jul-22	24-Aug-22	10-Jan-22 A	08-Jun-22			i				;; ; ;									UE L10(N) Exc	avation
CUE L10(N) Structure part 2	108	25-Aug-22	04-Jan-23	09-Jun-22	17-Oct-22							+				<u></u>	<u></u>					
Part 1	120			24-Dec-21 A	11-Jun-22							+										
CUE L10(N) Part 1 DL, Blinding, Waterproofing, BS (80m)	21			24-Dec-21 A	17-Mar-22 A					CUE L10(N)) Part 1 [)L, Blindin	g Water	proofing, BS (30m)							
CUE L10(N) Part 1 Backfill & Strut S3 Removal	7			18-Mar-22 A	28-Mar-22 A	÷				cui		1	1	trut S3 Remov								
CUE L10(N) Part 1 Wall & Top Slab (80m, 10d/20m)	32			29-Mar-22 A	11-Jun-22							+				CUE L1	0(N)Part1Wa	ll & Top Slab	(80m, 10o	d/20m)		
Part 2	186			10-Jan-22 A	19-Sep-22							+										
CUE L10(N) Part 2 Excavation (6262m3, 110m3/d)	57			10-Jan-22 A	15-Jun-22			i		······	i i	+				CUE	L10(N) Part 2	Excavation (6	262m 3, 1	10m3 <i>I</i> d)		;
CUE L10(N) Part 2 DL, Blinding, Waterproofing, BS (80m)	21			16-Jun-22	11-Jul-22							+					<u></u>	CUE L10(N) F	Part 2 DL,	Blinding, Wa	terproofing, B\$	(80m)
CUE L10(N) Part 2 Backfill & Strut S3 Removal	7			11-Jul-22	19-Jul-22							+						CUE L	10(N) Par	t 2 Backfill &	Strut S3 Remo	/al
CUE L10(N) Part 2 Wall & Top Slab (80m, 10d/20m)	32			20-Jul-22	25-Aug-22																UE L10(N) Par	t 2 Wall
CUE L10(N) Part 2 Backfill & Remove S2 (80m, 10d/20m)	32			30-Jul-22	06-Sep-22																	10(N) Pa
CUE L10(N) Part 2 Backfill & Remove S1 (80m, 10d/20m)	32			11-Aug-22	19-Sep-22														_			CUE
Part 3	107			06-Jun-22	12-Oct-22																	
CUE L10(N) Part 3 ELS (Sheet pile) (2252m2, 55m2/d)	40			06-Jun-22	22-Jul-22							+				 	<u></u>	CUE	L10(N) P	art 3 ELS (\$I	neet pile) (2252	m2, 55n
CUE L10(N) Part 3 Excavation (5120m3, 110m3/d)	46			23-Jul-22	15-Sep-22																· · · · · · · · · · · · · · · · · · ·	CUE L1
					· · ·							+										
Sheet Pile																	·	Sheet P	ile			
CUE L10(N) Part 3 DL, Blinding, Waterproofing, BS (60m) Remaining	21 78 24	ED/	2018/0	16-Sep-22 20-Jun-22 20-Jun-22*	12-Oct-22 20-Sep-22 18-Jul-22	ad T		l Infrastru	uctu	Ire Worl	ks						Date 18-Dec-19 22-Feb-20	Sheet P Revis 00V1 01V0	sion	Checker WYu SPa/LLo	l App WYu	prc

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Actual Work ♦ Baseline Milestone

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

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Revision	Checked	Approved
00V1	WYu	
01V0	SPa/LLo	WYu
01V1	SPa/LLo	WYu
01V2	SPa/LLo	WYu
01V3	SPa/LLo	WYu
02V0	SPa/LLo	WYu
	00V1 01V0 01V1 01V2 01V3	00V1 WYu 01V0 SPa/LLo 01V1 SPa/LLo 01V2 SPa/LLo 01V3 SPa/LLo

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	
						January February March April May June July August Septem 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 01 11
Excavation	18			19-Jul-22	08-Aug-22	2 Excavation
CUE	36			09-Aug-22	20-Sep-22	2
DEPRESSED ROAD [DPR]	249			13-Dec-21 A	06-Oct-22	
Portal Structure	249			13-Dec-21 A	06-Oct-22	
Forecast	249			13-Dec-21 A	06-Oct-22	
Remaining DPR Structure	249			13-Dec-21 A	06-Oct-22	
Breaking remaining SUS Bulkhead Dwall	60			13-Dec-21 A	19-Mar-22 A	A Breaking remaining SUS Bulkhead Dwall
Blinding & Waterproofing	4			06-Jun-22	09-Jun-22	2 Blinding & Waterproofing
Base Slab construction + Gain strength	7			10-Jun-22	17-Jun-22	2 Base Slab construction + Gain strength
Strut S4b removal	7			18-Jun-22	25-Jun-22	2 Strut S4b removal
Return Wall & External part 1 + Gain strength	12			27-Jun-22	11-Jul-22	2 Return Wall & External part 1 + Gain strength
Strut S3b removal	5			12-Jul-22	16-Jul-22	2 Strut S3b remioval
Remaining adit wall part 1 + Gain strength	14			18-Jul-22	02-Aug-22	2 Remaining adit wall part 1 + Gair
Concrete strut & lateral beam + Gain strength	9			03-Aug-22	12-Aug-22	2 Concrete:strut & lateral b
Strut S3 removal	3			13-Aug-22	16-Aug-22	
Return Wall & External part 2 + Gain strength	11			17-Aug-22	29-Aug-22	2 Return:Wall
Remaining adit wall part 2 + Gain strength	10			30-Aug-22	09-Sep-22	2
Remaining carriageway slab + Gain strength	10			10-Sep-22	22-Sep-22	2
Remaining external wall + Gain strength	10			23-Sep-22	06-Oct-22	
Portal Structure	146			03-Jan-22 A	01-Aug-22	2
Falsework erection	15			03-Jan-22 A	19-Mar-22 A	A Fallsework erection
West side Capping Beam (B4-B9)	18			28-Mar-22 A	02-Apr-22 A	A West side Capping Beam (B4-B9)
East side Capping Beam (B4-B9)	18			31-Mar-22 A	07-Apr-22 A	A East'side Capping Béam (B4-B9)
Portal Beam part 1 (B7-B9)	18			08-Apr-22 A	18-May-22 A	A Portal Beam part 1 (B7-B9)
Portal Beam part 2 (B4-B6)	18			09-May-22 A	31-May-22 A	A Portal Beam part 2 (B4-B6)
Portal secondary structure - Wall part 1 (B4-B10)	9			06-Jun-22	15-Jun-22	2 Portal secondary structure - Wall part 1 (B4-B10)
Portal secondary structure - Slab part 1 (B4-B10)	15			16-Jun-22	04-Jul-22	2 Portal secondary structure - Slab part 1 (B4-B10)
Steel Beam location Capping Beam	12			05-Jul-22	18-Jul-22	2 Steel Beam location Capping Beam
Steel Portal Beam installation (B1-B3)	12			19-Jul-22	01-Aug-22	2 Steel Portal Beam installation (B1
WEST VENTILATION BUILDING [WVB]	265	21-Sep-21	02-Aug-22	20-Dec-21 A	25-Nov-22	2
Excavation & Strutting		21-Sep-21	11-Dec-21	20-Dec-21 A		
Excavation to below Strut S3 11,905m ³		21-Sep-21	16-Oct-21	20-Dec-21 A	•	
Strut S3 Installation	24	28-Sep-21	22-Oct-21	03-Jan-22 A	19-Jan-22 A	A Strut \$β Installation
Strut S3 Pre-loading	2	23-Oct-21	25-Oct-21	20-Jan-22 A	21-Jan-22 A	A Strut S3 Pre-loading
Excavation to below Strut S4 8,930m ³	15	26-Oct-21	11-Nov-21	22-Jan-22 A	18-Feb-22 A	A Excavation to below Strut S4 8,930 m ³
Strut S4 Installation	20	30-Oct-21	22-Nov-21	10-Feb-22 A	15-Mar-22 A	A Strut \$4 Installation
Strut S4 Pre-loading	2	23-Nov-21	24-Nov-21	16-Mar-22 A	17-Mar-22 A	A Strut S4 Pre-loading
Excavation to FEL 9,230m ³	20	25-Nov-21	11-Dec-21	19-Mar-22 A	04-Apr-22 A	A Excavation to FEL 9,230m ³
Building Structure	172	13-Dec-21	02-Aug-22	05-Apr-22 A		
WVB - Earth Mat Installation	24	13-Dec-21	31-Dec-21	05-Apr-22 A	22-Apr-22 A	
WVB - B2 Wall + Column	48	28-Feb-22	28-Apr-22	28-Jun-22	23-Aug-22	2 WVB B2 Wall +
	· _ · _ ·	,				
Page 16 of 24 Milestone						Date Revision Checked App

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Actual Milestone

Baseline Milestone

Activitv

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish											2022									
		1		1			January 09 16 23	February	3 20	27 06	March 6 13 20	0 27 0	April 03 10 1		May 1 01 08 1	May 15 22 1	29 7	June 05 12 19	26	July 03 10	y 17 24	31 0	August 7 14 21		September 11 18 25
WVB - B2 Beam + Slab	36	07-Apr-22	24-May-22	05-Aug-22	16-Sep-22													/							WVB - E
WVB - B1 Wall + Column	58	25-May-22	02-Aug-22	17-Sep-22	25-Nov-22			 														·H			· · · · ·
Forecast	67			05-Apr-22 A	27-Jun-22		·			·		· · · · · · · · · · · · · · · · · · ·													
WVB - Earth Mat Installation	24	, 		05-Apr-22 A	22-Apr-22 A			 							VB - Earth Mat										1
Base Slab construction Bay 2 & 4	20	1		23-Apr-22 A	24-May-22 A	A				·;						B	Base Slab	lab construction I	1 Bay 2	& 4					
Base Slab construction Bay 1, 3 & 4	20		- [19-May-22 A	18-Jun-22					····;						· · · · · · · · · · · · · · · · · · ·		Base	se Slab	construct	ion Bay 1	, 3 & 4			
Tower Crane Erection	7		-	20-Jun-22	27-Jun-22					·;						 			При	wer Crane	Erection				
Tower Crane Operation	0		+	+	27-Jun-22														• Три	wer Crane	Operation	n			
SUPPORTING UNDERGROUND STRUCTURE [SUS]	84	20-Oct-21	21-Apr-22	04-Jul-22	12-Oct-22				+-	;															
Permanent Structure	30	20-Oct-21	07-Dec-21	04-Jul-22	06-Aug-22		·			····;															
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	04-Jul-22*	30-Jul-22	4		 														SUS -	WB Partition V	Wall CH61	,50-6237
SUS - EB Partition Wall CH6150-6260	30	03-Nov-21	07-Dec-21	04-Jul-22*	06-Aug-22					···-;			- 1 1 - 1 1 1 1 1 1 1									S	SUS - EB Partit	tion Wall ¢	≎H6150-6260
Tunnel Internal Structure & Finishing	60	29-Jan-22	21-Apr-22	01-Aug-22	12-Oct-22			 																	
Westbound	60	29-Jan-22	13-Apr-22	01-Aug-22	12-Oct-22																				·
SUS - WB - ISFG-1 Assembly	18	29-Jan-22	22-Feb-22	01-Aug-22	20-Aug-22			 			· · · · · · · · · · · · · · · · · · ·												SUS	3 - WB - ISI	SFG-1 Assembly
SUS - WB - Fire Board - Tunnel crown	28	23-Feb-22	26-Mar-22	22-Aug-22	23-Sep-22																			-4-4	SL ¹
SUS - WB - ISSG Assembly	18	07-Mar-22	26-Mar-22	02-Sep-22	23-Sep-22			· · · · · · · · · · · · · · · · · · ·				-													SU
SUS - WB - OHVD Slab / Damper Installation + Learning Curve	14	28-Mar-22	13-Apr-22	24-Sep-22	12-Oct-22			 		·;															
Eastbound	46	23-Feb-22	21-Apr-22	08-Aug-22	30-Sep-22		·	 ······································		···-;															
SUS - EB - ISFG-1 Assembly	18	23-Feb-22	15-Mar-22	08-Aug-22	27-Aug-22						-											-		SUS - EP	B - ISFG-1 Ass
SUS - EB - Fire Board - Tunnel crown	28	16-Mar-22	21-Apr-22	29-Aug-22	30-Sep-22			 						-							 		ſ		
SUS - EB - ISFG-3 Assembly	18	16-Mar-22	06-Apr-22	29-Aug-22	19-Sep-22								•										ſ		sus-
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	248	03-Jan-22	05-Aug-22	05-Feb-22 A	21-Oct-22					·;															
Civil Works for TBMAssembly	79			05-Feb-22 A		ii																			
Cell 1 & 2	79				23-Feb-22 A	i i		 																	J
Tympanum	79			05-Feb-22 A				 																	+
Westbound Additional Mass Fill	15	J J	I					 Vve			tional Mass F														·
Eastbound Additional Mass Fill	7	1						 		stbound	nd Additional	.i Mass Fill										-			
Tunnel Permanent Works	115		0		21-Oct-22			 								 									+!!''
Cell 1/2 Westbound	106		03-Aug-22		21-Oct-22	i i		 		- [;]										/B Thrust F	Fram's Dir				
WB Thrust Frame Dismantling	12		15-Jan-22	16-Jun-22	29-Jun-22			 					/+			· · · · · · · · · · · · · · · · · · ·			••••••••••••••••••••••••••••••••••••••						·
WB Ramp Concrete Fill			08-Feb-22	30-Jun-22	14-Jul-22			 													WB Ramp				
Cell 1/2 WB - Wall Below Road Level			18-May-22		04-Aug-22			 											· · · · · · · · · · · · · · · · · · ·				ell 1/2 WB - Wa		+
Cell 1/2 WB - Road Slab NCPS	12	,			-			 -+		, ,	· · · · · · · · · · · · · · · · ·										,				Road Slab NCPS
Road Diversion to WB NCPS	0		01-Jun-22		18-Aug-22			 		, ;													♦ Road		n'to WB NCPS
Cell 1/2 WB - Road Slab CPS			16-Jun-22	19-Aug-22				 · · · · · · · · · · · · · · · · · · ·		;	·														1/2 WB - Road
Cell 1/2 WB - Wall Road Level	12		30-Jun-22	02-Sep-22				 · · · · · · · · · · · · · · · · · · ·													·	-			Cell 1/2
Cell 1/2 WB - Wall Above Road Level	10	02-Jul-22	13-Jul-22	17-Sep-22																					
Cell 1/2 WB - Wall to TS	18	14-Jul-22	03-Aug-22																						
Cell 1/2 Eastbound			05-Aug-22		13-Oct-22					,,				· · · · · · · · · · · · · · · · · · ·											
EB Thrust Frame Dismantling			17-Feb-22	06-Jun-22	18-Jun-22													EB!		Frame Dis					
EB Ramp Concrete Fill	12	25-Feb-22	10-Mar-22	20-Jun-22	04-Jul-22					·····										EBRam	np Concre	∍te Fill			
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Page 17 of 24 Milestone	,												ļ						Da 18-Dec	Date	Rev	/ision			Approved

Page 17 of 24 Data Date: 04-Jun-22 Milestone

Actual Milestone
 Actual Work

Baseline Milestone

CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish							1		2022							
						Janu 02 09	,	February 30 06 13	20		March 13 20	27 03 10		May 01 08 15 2	22 29 05	June 12 19 2	J 26 03 10	uly 17 24		ugust 14 21 28	September 04 11 18 25
Cell 1/2 EB - Wall Below Road Level	18	26-Apr-22	18-May-22	05-Jul-22	25-Jul-22													C	ell 1/2 EB -	Wall Below Roa	d Level
Cell 1/2 EB - Road Slab NCPS	12	19-May-22	01-Jun-22	26-Jul-22	08-Aug-22						i i								C	ell 1/2 EB - Road	Slab NCPS
Road Diversion to EB NCPS	0		01-Jun-22		08-Aug-22														♦ R	pad Diversion to	EBNCPS
Cell 1/2 EB - Road Slab CPS	12	02-Jun-22	16-Jun-22	09-Aug-22	22-Aug-22															Cell 1/2	EB - Road Slab CP
Cell 1/2 EB - Wall Road Level	12	17-Jun-22	30-Jun-22	23-Aug-22	05-Sep-22												- <u> -</u>	·			Cell 1/2 EB - Wa
Cell 1/2 EB - Wall Above Road Level	12	02-Jul-22	15-Jul-22	06-Sep-22	20-Sep-22													 			¢ell :
Cell 1/2 EB - Wall to TS	18	16-Jul-22	05-Aug-22	21-Sep-22	13-Oct-22														; ;		
Cut & Cover	24	04-Feb-22	03-Mar-22	17-Jun-22	15-Jul-22																
C&C - Wall Stage 1 first 5m	9	04-Feb-22	14-Feb-22	17-Jun-22	27-Jun-22						;;						C&C - Wall	Stage 1 firs	t 5m		
C&C - Wall Stage 2 up to OHVD level	9	15-Feb-22	24-Feb-22	28-Jun-22	08-Jul-22												C&	¢ - Wall Sta	age 2 up to	OHVD level	
C&C - Wall Stage 3 up to Top Slab soffit	6	25-Feb-22	03-Mar-22	09-Jul-22	15-Jul-22													C&C - W	all Stage 3	up to Top \$lab so	offit
SUB-SEA TBM TUNNEL - WESTBOUND	280	05-May-21	27-Jun-22	27-Sep-21 A	20-Oct-22													· 			
Precast Fabrication	237	08-Sep-21	27-Jun-22	29-Nov-21 A	20-Oct-22																
TBM Precast Segments	213	23-Sep-21	18-Mar-22	29-Nov-21 A	20-Sep-22																
Precast TBM Segment - 70%	36	23-Sep-21	05-Nov-21	29-Nov-21 A	26-Feb-22 A					Precast	TBM Segm	ent - 70%									
Precast TBM Segment - 80%	36	06-Nov-21	17-Dec-21	28-Feb-22 A	25-Jun-22							+-					Precast TBM	Segment -	80%		
Precast TBM Segment - 90%	36	18-Dec-21	04-Feb-22	27-Jun-22	08-Aug-22														Pi	recast TBM Segn	nent - 90%
Precast TBM Segment - 100%	36	05-Feb-22	18-Mar-22	09-Aug-22	20-Sep-22			t <u></u>													Preca
Service Gallery	228	08-Sep-21	05-May-22	28-Dec-21 A	17-Oct-22																
Precast Service Gallery - 3%	24	08-Sep-21	07-Oct-21	28-Dec-21 A	01-Mar-22 A				+-	Preca	st Service C	Gallery - 3%									
Precast Service Gallery - 6%	24	08-Oct-21	05-Nov-21	02-Mar-22 A	02-Apr-22 A						 	Precast Se	erviće Ga	llery - 6%							
Precast Service Gallery - 10%	24	06-Nov-21	03-Dec-21	03-Apr-22 A	14-May-22 A									Preca	nst Service G	allery - 10%					
Precast Service Gallery - 20%	24	04-Dec-21	04-Jan-22	16-May-22 A	22-Jun-22											Pr	ecast Service	e Gallery - 2	0%		
Precast Service Gallery - 30%	24	05-Jan-22	04-Feb-22	23-Jun-22	21-Jul-22													Prec	ast Service	Gallery - 30%	
Precast Service Gallery - 40%	24	05-Feb-22	04-Mar-22	22-Jul-22	18-Aug-22			·											 		rvice Gallery - 40%
Precast Service Gallery - 50%	24	05-Mar-22	01-Apr-22	19-Aug-22	16-Sep-22																Precast
Precast Service Gallery - 60%	24	02-Apr-22	05-May-22	17-Sep-22	17-Oct-22									-							
OHVD Slab	191	15-Nov-21	27-Jun-22	01-Feb-22 A	20-Oct-22																
Concrete Mix - Plant Trial	72	15-Nov-21	12-Feb-22	01-Feb-22 A	12-May-22 A				+-					Concre	ete Mix - Plan	t Trial					
Precast OHVD Slab - Mould Fabrication & Setup	72	15-Nov-21	12-Feb-22	01-Feb-22 A	11-Jun-22				+-					kkkk		Precast OI	HVD Slab - M	lould Fabric	ation & Setu	цр	
Precast OHVD Slab - Inspection	12	14-Feb-22	26-Feb-22	13-Jun-22	25-Jun-22												Precast OHV	D Slab - Ins	pection		
Precast OHVD Slab - Mass Production Start	0	28-Feb-22		27-Jun-22					·····		 					•	Precast OH	VD Slab - N	lass Produc	tion Start	
Precast OHVD Slab - 3%	24	28-Feb-22	26-Mar-22	27-Jun-22	25-Jul-22				 c		·									/D Slab - 3%	
Precast OHVD Slab - 6%	24	28-Mar-22	28-Apr-22	26-Jul-22	22-Aug-22														 		OHVD Slab - 6%
Precast OHVD Slab - 10%	24	29-Apr-22	28-May-22	23-Aug-22	20-Sep-22								····								Preca
Precast OHVD Slab - 20%	24	30-May-22	27-Jun-22	21-Sep-22	20-Oct-22																
Site Establishment	226	05-May-21	25-Apr-22	27-Sep-21 A	15-Aug-22						 								 		
Gantry Crane Setup for TBMAssembly	48	24-Feb-22	25-Apr-22	20-Jun-22	15-Aug-22																
Gantry Crane - Dismantling	48	24-Feb-22	25-Apr-22	20-Jun-22	15-Aug-22													· · · · · · · · · · · · · · · · · · ·		Gantry Crane	e - Dismantling
Mortar Plant	24	05-May-21	02-Jun-21	27-Sep-21 A	12-Jan-22 A																
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	27-Sep-21 A	12-Jan-22 A	N	Nortar Plant	- Commissioni	ng	 											
				1	1	<u> </u>			:	ı			;				Date	Revi	ision	Checked	Approved
Page 18 of 24 ◆ ◆ Milestone Data Date: 04-Jun-22 Planned Bar			2010/0	۱/ T	ak Dar		لمص	Infra	.+	untu i	$r \sim 10^{10}$					18	B-Dec-19	00V1		VYu	
Critical A divity)4 Trur								UIKS		POUVO		22	2-Feb-20	01V0		SPa/LLo	WYu
Actual Miestone			1	for De\	/elopn	nents	at So	outh A	۱q	on				BOUYG) 09)-Apr-20	01V1	5	SPa/LLo	WYu

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Actual Work

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for Developments at South Apron

TRAVAUX PUBLICS

17-Jul-20

09-Oct-20 02-Jul-21

01V2

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2022
						January February March April May 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29
TBMAssembly	47	01-Dec-21	01-Dec-21	29-Nov-21 A	13-Jan-22 A	
Air / Water / Hydraulic Electrical Connections	10			29-Nov-21 A	01-Jan-22 A	Air / Water / Hydraulic Electrical Connections
Testing & Commissioning	12			09-Dec-21 A	13-Jan-22 A	Testing & Commissioning
WB TBM Break-in	0	01-Dec-21		13-Jan-22 A		◆ WB TBM Breakin
TBM Tunnelling	198	01-Dec-21	30-Apr-22	13-Jan-22 A	04-Oct-22	
WB TBM Tunnelling CH 6642-6659 B/I Plug 17m	15			13-Jan-22 A	19-Jan-22 A	WB TBM Tunnelling CH 6642 6659 B/l Plug:17m
WB TBM Tunnelling Stoppage due to Active Mortar injection	15			20-Jan-22 A	27-Jan-22 A	WB TBM Tunnelling Stoppage due to Active Mortar injection
WB TBM Tunnelling CH 6659-6660 B/I Plug 18m	15			28-Jan-22 A	28-Jan-22 A	WB TBM Tunnelling CH 6659-6660 B/I Plug 18m
WB TBM Tunnelling Stoppage due to Additional Mass Fill	15			29-Jan-22 A	12-Feb-22 A	WB TBM Tunnelling Stoppage due to Additional Mass Fill
WB TBM Tunnelling Stoppage due to Covid-19 outbreak	15			13-Feb-22 A	28-Feb-22 A	WB TBM Tunnelling Stoppage due to Covid-19 outbreak
WB TBM Tunnelling CH6660-6665 B/I Plug 23m	3	01-Dec-21	15-Dec-21	01-Mar-22 A	01-Mar-22 A	WB TBM Tunnelling CH 6660-6665 B/I Plug 23m
WB TBM forecsat re-start excavation	0			01-Mar-22 A		♦ WB TBM forecsat re-start excavation
WB TBM Tunnelling CH6665-6710 ALL/CDG 68m	16	16-Dec-21	31-Dec-21	02-Mar-22 A	10-Mar-22 A	WB JBM Junnelling CH6665-6710 ALL/CDG 68m
WB TBM Tunnelling CH6710-6725 ALL/CDG 83m	7	01-Jan-22	07-Jan-22	11-Mar-22 A	13-Mar-22 A	WB TBM Tunnelling CH/6710-6725 ALL/CDG 83m
WB TBM Tunnelling CH6725-6732 ALL/CDG 90m	7			14-Mar-22 A	04-Apr-22 A	WB TBM Tunnelling CH 6725-6732 ALL/CD
WB Stoppage due to Disc Cutter Issue	7			05-Apr-22 A	06-May-22 A	WB Stoppage due
WB TBM Tunnelling CH6732-6752 ALL/CDG 120m	7			07-May-22 A	22-May-22 A	WB TE
WB Stoppage due to Main Drive Issue (resumption TBC)	7			23-May-22 A	05-Jun-22	
WB TBM Tunnelling CH6756-6777 CDG/Boulder 135m	4	08-Jan-22	14-Jan-22	05-Jun-22	08-Jun-22	
WB TBM Stoppage for ISIG 1 Installation	9			09-Jun-22	17-Jun-22	
WB TBM Tunnelling CH6777-6789 CDG/Boulder 147m	3			18-Jun-22	20-Jun-22	
WB TBM Tunnelling CH6789-7098 ALL/CDG 456m	38	15-Jan-22	21-Feb-22	21-Jun-22	28-Jul-22	
WB TBM Tunnelling CH 7098-7198 ALL/CDG 556m	11	22-Feb-22	04-Mar-22	29-Jul-22	08-Aug-22	
WB TBM Tunnelling CH7198-7218 ALL/CDG 576m	2	05-Mar-22	06-Mar-22	09-Aug-22	10-Aug-22	
WB TBM Tunnelling CH 7218-7240 C DG/Boulder 598m	3	07-Mar-22	09-Mar-22	11-Aug-22	13-Aug-22	
WB TBM Tunnelling CH7240-7284 ALL/CDG 642m	4	10-Mar-22	13-Mar-22	14-Aug-22	17-Aug-22	
WB TBM Tunnelling CH7284-7379 ALL/CDG 737m	9	14-Mar-22	22-Mar-22	18-Aug-22	26-Aug-22	
WB TBM Tunnelling CH7379-7391 CDG/Boulder 749m	2	23-Mar-22	24-Mar-22	27-Aug-22	28-Aug-22	
WB TBM Tunnelling CH7391-7434 Boulder 792m	7	25-Mar-22	31-Mar-22	29-Aug-22	04-Sep-22	
WB TBM Tunnelling CH7434-7466 CDG/Boulder 824m	4	01-Apr-22	04-Apr-22	05-Sep-22	08-Sep-22	
WB TBM Tunnelling CH7466-7623 ALL/CDG 981m	15	05-Apr-22	19-Apr-22	09-Sep-22	23-Sep-22	
WB TBM Tunnelling CH 7623-7650 C DG/Boulder 1008m	4	20-Apr-22	23-Apr-22	24-Sep-22	27-Sep-22	
WB TBM Tunnelling CH 7650-7722 ALL/CDG 1080m	7	24-Apr-22	30-Apr-22	28-Sep-22	04-Oct-22	
Gallery B Installation	224	19-Mar-22	28-Apr-22	27-Dec-21 A	29-Sep-22	
WB TBM Tunnel - Gallery B CH7103-7203 100m CP12	10	19-Mar-22	30-Mar-22	24-Aug-22	03-Sep-22	
WB TBM Tunnel - Gallery B CH7203-7303 100m CP13	7	31-Mar-22	08-Apr-22	05-Sep-22	13-Sep-22	
WB TBM Tunnel - Gallery B CH7303-7403 100m CP14	7	09-Apr-22	20-Apr-22	14-Sep-22	21-Sep-22	
WB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	21-Apr-22	28-Apr-22	22-Sep-22	29-Sep-22	
Forecast	177			27-Dec-21 A	04-Aug-22	
Spreader Beam, Hook, Hook Block etc(from Italy by sea)	56			27-Dec-21 A	15-Mar-22 A	Spreader Beam, Hook, Hook Block etc; (from Italy by sea)
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- Milestone
 - ctual Milestone Actual Work
 - 🔷 Baseline Milestone Baseline Bar

Planned Bar

CriticalActivity

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

BOUYGUES TRAVAUX PUBLICS

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22-Feb-20	01V0	SPa/LLo	WYu
09-Apr-20	01V1	SPa/LLo	WYu
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish					022	
						January February 02 09 16 23 30 06 13 20		pril 17 24		ay 15 22	29
Wheels (from Italy by air)	10			30-Dec-21 A	07-Jan-22 A	Wheels (from Italy by air)					
Ramp delivery (from China by road)	6			06-Jan-22 A	11-Jan-22 A	Ramp delivery (from China by roa	ad)				
Loader (from China by road)	13			21-Jan-22 A	26-Jan-22 A	Loader (from China b	y road)				
Ramp pre-assembly at surface	12			27-Jan-22 A	16-Feb-22 A	Ram	p pre-assembly at surface				
Loader pre-assembly at surface	6			17-Feb-22 A	25-Feb-22 A		Loader pre-assembly at surface				
Shifting way curve shape extension & Footing	6			06-Jun-22	11-Jun-22						
Construction of Notch/Mass Fill to C&C Road Level	9			13-Jun-22	22-Jun-22						
Lower ISIG into Shaft	3			13-Jun-22	15-Jun-22						
Thrust Frame Removal	6			16-Jun-22	22-Jun-22						
Install abd Assembly of Spreader Beam	6			16-Jun-22	22-Jun-22						
ISIG Commissioning	6			23-Jun-22	29-Jun-22						
Gallery G-W1 to W5 by crawler crane @ 1 no/d	2			30-Jun-22	02-Jul-22						-
WB ISIG Gallery B Installation start	0			30-Jun-22		······	+				
Gallery EMVD installation by crawler crane	1			04-Jul-22	04-Jul-22						
Gallery G-W6 to G-W12 installation by ISIG @ 3nos/d	2			05-Jul-22	06-Jul-22						
Gallery B installation inside FT @ 6nos/d	1			07-Jul-22	07-Jul-22						
Steel Bridge Installation	1			08-Jul-22	08-Jul-22			- + +			
WB Sub-sea Galery B Installation started	0			09-Jul-22				- +			
WB Gallery B CH6642-6742 100m @4nos/day	13			09-Jul-22	23-Jul-22			- + +			
WB Gallery B CH6742-6855 113m @6nos/day	10			25-Jul-22	04-Aug-22			- + +			
SUB-SEA TBM TUNNEL - EASTBOUND	247	03-Jan-22	30-May-22	14-Dec-21 A	08-Oct-22			- + +			
TBMAssembly	110			14-Dec-21 A				- +			
Lifting & Welding of Tailskin to Shield	28			14-Dec-21 A	06-Jan-22 A	Lifting & Welding of Tailskin to Shield					
Air / Water / Hydraulic Electrical Connections	10			20-Dec-21 A	06-Jan-22 A	Air / Water / Hydraulic Electrical Con					
Testing & Commissioning	12			26-Dec-21 A	10-Mar-22 A		Testing & Commissioning]			
Thrust Frame Installation	10			30-Dec-21 A	06-Jan-22 A	Thrust Frame Installation					
Power On	1			07-Jan-22 A	07-Jan-22 A	Power On	• •				
WB TBM Tunnelling Stoppage due to Additional Mass Fill	15			14-Feb-22 A	23-Feb-22 A		WB TBM Tunnelling Stoppage due to	Additiona	I Mass Fill		
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EB TBM Tunnelling CH6640-6665 B/I Plug 25m	16	03-Jan-22	18-Jan-22	11-Mar-22 A	25-Mar-22 A		EB TBM Tun				
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m	15	19-Jan-22	02-Feb-22	26-Mar-22 A	02-Apr-22 A		EB TB	/I Tunn'el lir	ig CH6665-67		
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	7	03-Feb-22	09-Feb-22	03-Apr-22 A	27-Apr-22 A				EB TBM Tur		
EB TBM Tunnelling CH6756-6777 CDG/Boulder 135m	4	10-Feb-22	16-Feb-22	28-Apr-22 A	04-May-22 A			I		M Tunnellir	Ţ
WB TBM Stoppage for ISIG 1 Installation	9			06-May-22 A	12-May-22 A					WB TBM SI	topp
EB TBM Tunnelling CH6777-6789 CDG/Boulder 149m	3			13-May-22 A	21-May-22 A					EB T	BM
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m	38	17-Feb-22	26-Mar-22	22-May-22 A	03-Jul-22						
EB TBM Tunnelling CH7098-7198 ALL/CDG 558m	11	27-Mar-22	06-Apr-22	04-Jul-22	14-Jul-22						
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m	2	07-Apr-22	08-Apr-22	15-Jul-22	16-Jul-22						-
EB TBM Tunnelling CH7218-7240 CDG/Boulder 600m	3	09-Apr-22	11-Apr-22	17-Jul-22	19-Jul-22						-
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Page 20 of 24 Data Date: 04-Jun-22 Milestone

Actual Milestone

CriticalActivity

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Baseline Bar

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

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09-Oct-20	01V3	SPa/LLo	WYu
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CriticalActivity

Actual Work ♦ Baseline Milestone Baseline Bar

tual Milestone

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

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Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish							2022							
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CP Precast Lining Segment - 30%	5	09-Jun-22	07-Jul-22	31-Mar-22 A	A 26-Apr-22 A										Precast Linir	ing Segment - 30%			
CP Precast Lining Segment - 40%	24	08-Jul-22	04-Aug-22	27-Apr-22 A	A 26-May-22 A	,										CP Precast Linin	ng Segm	ent - 40%	0
CP Precast Lining Segment - 50%	24	05-Aug-22	01-Sep-22	27-May-22 A	A 18-Jun-22												СР	Precast L	Lining S
CP Precast Lining Segment- 60%	24	02-Sep-22	30-Sep-22	20-Jun-22	18-Jul-22														<u> </u>
CP Precast Lining Segment - 70%	24	03-Oct-22	31-Oct-22	19-Jul-22	15-Aug-22														
CP Precast Lining Segment - 80%	24	01-Nov-22		16-Aug-22	· ·														
CP Precast Lining Segment - 90%	24	29-Nov-22	28-Dec-22	14-Sep-22						,									
WB CP Tympanum Structure	60	29-Jan-22	12-Apr-22	05-Aug-22															
CP7 - WB - Tympanum Civil works CH6705	24	29-Jan-22	01-Mar-22	05-Aug-22	01-Sep-22												СР	97 - WB - T	[ympar
CP8 - WB - Tympanum Civil works CH6803	24	15-Feb-22	14-Mar-22	19-Aug-22	· ·														CP8 - W
CP9 - WB - Tympanum Civil works CH6904	24	02-Mar-22	29-Mar-22	02-Sep-22	30-Sep-22						-								-
CP10 - WB - Tympanum Civil works CH7004	24	15-Mar-22	12-Apr-22	17-Sep-22	17-Oct-22														-
EB CP Tympanum Structure	96	05-Mar-22	04-Jul-22	29-Jun-22	22-Oct-22										+		·	-+	
CP7 - EB - Tympanum Civil works CH6705	24	05-Mar-22	01-Apr-22	29-Jun-22	27-Jul-22											CP7 - EB - Tympanum			
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CP9 - EB - Tympanum Civil works CH6904	24	02-Apr-22	05-May-22	28-Jul-22	24-Aug-22													3 - Tympar	
CP10 - EB - Tympanum Civil works CH7004	24	19-Apr-22	18-May-22	11-Aug-22														CP10 - E	
CP11 - EB - Tympanum Civil works CH7103	24	06-May-22		25-Aug-22	22-Sep-22													· · · · · · · · · · · · · · · · · · ·	CP
CP12 - EB - Tympanum Civil works CH7203	24	19-May-22		08-Sep-22														· · · · ·	
CP13 - EB - Tympanum Civil works CH7303	24	06-Jun-22	04-Jul-22	23-Sep-22	22-Oct-22									Ē					
CP TBM Pipe Jacking	42	14-Apr-22	25-May-22	02-Sep-22															
CP7 to CP8	42	14-Apr-22	25-May-22	02-Sep-22		_											÷	<u></u>	
CP7 - CP TBM cycle - Learning Curve	42	14-Apr-22	25-May-22	02-Sep-22															
SUB-SEA TUNNEL INTERNAL & FINISHING	26	02-Mar-22	31-Mar-22	02-Sep-22		4				·									
Corbel Westbound	26	02-Mar-22 02-Mar-22	30-Mar-22 30-Mar-22	02-Sep-22 02-Sep-22	05-Oct-22 05-Oct-22	4							-						
WB - TBM Tunnel - Corbel Structure up to CP7	9	02-Mar-22	11-Mar-22	02-Sep-22 02-Sep-22		4												WF	B - TBM
WB - TBM Tunnel - Corbel Structure up to CP8	14	15-Mar-22	30-Mar-22	17-Sep-22					·										
Fire Board - Tunnel Crown	4	28-Mar-22	31-Mar-22	24-Sep-22															
Westbound	4	28-Mar-22	31-Mar-22	24-Sep-22	· ·	i i									· · · · · · · · · · · · · · · · · · ·				
WB - TBM Tunnel - Fire board - Tunnel Crown up to CP7	4	28-Mar-22	31-Mar-22	24-Sep-22	28-Sep-22														
CHA KWO LING ROAD WORKS	151	24-Apr-21	31-May-21	· ·		ii													
Wa i Yip Street / Cha Kwo Ling Road Junction	151		31-May-21		30-Mar-22 A	{													
Reinstatement	30	24-Apr-21	-	19-Apr-21 A				1			Reinstatement								
Section 8E Completion	0	, 	31-May-21	1'	30-Mar-22 A					, ,	Section 8E Comple	ətion							
DRILL & BREAK TUNNEL [D&BR]	311			06-Dec-21 A		.													
Tunnel Excavation EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	311 40	24-Sep-21 24-Sep-21		06-Dec-21 A	A 08-Nov-22 A 22-Jan-22 A	i +	FP	- Pr Tunnel -	~H0U)25-9010 Type D - Ex			-			· · · · · · · · · · · · · · · · · · ·			
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	40 72	24-Sep-21 26-Sep-21	02-Nov-21 06-Dec-21	23-Dec-21 A					ישילח <i>.</i> 						= FR:-D&	Br Tuhnel - CH9055-90	יטא <u>ד</u> שראי	~ ⊡ - Fx/c	ovation [
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG EB - D&Br Tunnel - CH9010-8995 Type D - Excavation Top	39	26-Sep-21 03-Nov-21			4 16-Jul-22 03-May-22 A					4		EB - D&Br Tunnel - CH	`uo010-8095 Tvpe [Evcavatio			J2U "yp~		Vauon .
Probe hole at CH8995	1	12-Dec-21			A 04-May-22 A			i				Probe hole: at CH899							
EB - D&Br Tunnel - CH8995-8976 Type D - Excavation Top	50	12-Dec-21 13-Dec-21	12-Dec-21 31-Jan-22	04-May-22 A 05-May-22 A				<u>.</u>						FB	Pr Tunn	nel - CH8995-8976 Type		noticu	Tan
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Page 22 of 24														Date	Revis	vision Checke	ed	Approv	ved

Page 22 of 24 Data Date: 04-Jun-22

- - Actual Work
 - Baseline MilestoneBaseline Bar

Activitv

Milestone

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

BOUYGUES TRAVAUX PUBLICS



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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2022								
						January February March April May June July August September 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 03 10 17 24 04 11 18 25								
EB - D&Br Tunnel - CH9020-8990 Type D - Excavation Bench & SG	60	07-Dec-21	04-Feb-22	17-Jul-22	14-Sep-22									
EB - D&Br Tunnel - CH8990-8976 Type D - Excavation Bench & SG	55	05-Feb-22	31-Mar-22	15-Sep-22	08-Nov-22									
DRILL & BLAST TUNNEL [D&BL]	379	13-Aug-21	30-May-22	06-Nov-21 A	24-Oct-22									
Tunnel Excavation	28	27-Sep-21	30-Oct-21	06-Nov-21 A	29-Jan-22 A									
Eastbound	28	27-Sep-21	30-Oct-21	06-Nov-21 A	29-Jan-22 A									
Full Face Drill & Blast	28	27-Sep-21	30-Oct-21	06-Nov-21 A	29-Jan-22 A									
EB - D&BI Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	06-Nov-21 A	29-Jan-22 A	EB- D&BI Tunnel -: Branch Tunnel \$01								
Tunnel Structure WB Type A	207	13-Aug-21	09-Sep-21	08-Dec-21 A	16-Mar-22 A									
WB - D&BI Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	08-Dec-21 A	22-Jan-22 A	WB - D&BI Tuhnel - CH9258-9138 Type A - SG Installation								
Forecast	207			21-Jan-22 A	16-Mar-22 A									
WB - Rock Plug Excavation	36			21-Jan-22 A	15-Mar-22 A	WB - Rock Plug Excavation								
WB Access available	0			16-Mar-22 A		◆ WB Access available								
Tunnel Structure EB Type A	197	06-Dec-21	12-Mar-22	05-Jan-22 A	18-Aug-22									
EB - D&BI Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	06-Jun-22	04-Jul-22	EB - D&BI Tunnel: CH9240-9170 Type: A SG Installation								
EB - D&BI Tunnel - CH9240-9139 Type A - Base slab / Kicker	30	07-Feb-22	12-Mar-22	05-Jul-22	08-Aug-22	EB - D&BI Tunnel- CH9240-9139:Typ								
EB - D&BI Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05-Feb-22	05-Jul-22	01-Aug-22	EB - D&BI Tunnel - CH9170-9110 Type A -								
Forecast	197			05-Jan-22 A	18-Aug-22									
Blast Door	197			05-Jan-22 A	13-Apr-22 A									
East Bound New Blast Door Installation	12			05-Jan-22 A	28-Feb-22 A									
East Bound New Blast Door CNP Application	16			01-Feb-22 A	30-Mar-22 A	East Bound New Blast Door CNP Application								
Removal of old Blast Door	22			08-Mar-22 A	13-Apr-22 A	A Removal of old Blast Door								
Earth Mat	131				· · ·									
EB - Earth Mat Installation EB Type A	101			24-Jan-22 A	-									
EB - Earth Mat Installation EB Type C	17				28-May-22 A									
SG Installation Type A	36			07-Apr-22 A	-									
SG Installation	36			07 Apr 22 A	15-Jun-22									
EB - Type A SG Installation Bay 1 Ch9140-9155	4				09-Apr-22 A	EB- Type A SG Installation Bay 1 Ch9140-9155								
EB - Type A SG Installation Bay 2 Ch9155-9170	4			11-Apr-22 A	14-Apr-22 A	EB - Type A SG Installation Bay 2 Ch9155-9170								
EB - Type A SG Installation Bay 3 Ch9170-9185	4			25-Apr-22 A	29-Apr-22 A	A EB - Type A SG Installation Bay 3 Ch9170-9185								
EB - Type A SG Installation Bay 4 Ch9185-9200	4				24-May-22 A									
EB - Type A SG Installation Bay 5 Ch9200-9215	4			25-May-22 A	-									
				-										
EB - Type A SG Installation Bay 6 Ch9215-9233	7			08-Jun-22	15-Jun-22									
SG Installation Type C	54			16-Jun-22	18-Aug-22									
Vertical Blinding EB - Type C vertical blinding part 1	42 18			16-Jun-22 16-Jun-22	04-Aug-22 07-Jul-22	EB - Type C vertical blinding part 1								
EB - Type C vertical blinding part 2	10			22-Jul-22	04-Aug-22									
SG Installation		<u></u>			-									
EB - Type C SG Installation part 1	36 12			08-Jul-22 08-Jul-22	18-Aug-22 21-Jul-22	EB-Type:C SG Installation part 1								
EB - Type C SG Installation part 2	12			05-Aug-22	18-Aug-22									
		07 Eab 22	14 Apr 22	-	-									
EB - D&BI Tunnel - CH9110-9055 Type C - SG Installation	57 24	07-Feb-22 07-Feb-22	14-Apr-22 05-Mar-22	02-Aug-22 02-Aug-22	10-Oct-22 29-Aug-22	EB - D&BI Tunnel- CF								
EB - D&BI Tunnel - CH9139-9088 Type C - Base slab / Kicker	33	07-Mar-22	14-Apr-22	30-Aug-22	10-Oct-22									
EB - W/P Gantry Type C Assembly	30	07-Mar-22	11-Apr-22	30-Aug-22	06-Oct-22									
						Date Revision Checked Approved								

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish			2022															
		1 /	1	/ /	1		January 09 16	23	February N 30 06 13 20 27 06	Aarch	Ar 0 27 03 10	April 0 17 24	24 01	May 1 08 15		June 05 12 1	-	Ju 6 03 10	uly 17 24	August	21 28	Septen 04 11	
Tunnel Structure S01 Branch Tunnel	54			28-Mar-22 A	0																		
Forecast	54			28-Mar-22 A						· · · · · · · · · · · · · · · · · · ·		÷									· · · · · · · · · · · · · · · · · · ·		
Branch Tunnel Lining Kicker Bay 1 to Bay 8	18	1	· []	28-Mar-22 A									—				: :			ay 1 to Bay 8			
Branch Tunnel Drainage Layer & Base Slab Bay 1	8		· · · · · · · · · · · · · · · · · · ·	20-Jun-22	28-Jun-22										1	ſ				ge Layer & Base		·	
Branch Tunnel Drainage Layer & Base Slab Bay 2	9		· · · · · · · · · · · · · · · · · · ·	29-Jun-22	09-Jul-22										,		Ľ	Bra		I Drainage Layer		1	
Branch Tunnel Drainage Layer & Base Slab Bay 3	8	1	,	11-Jul-22	19-Jul-22					·····;····;							:		1 1 1	h Tunnel Drainaç	Ĭ	1	
Branch Tunnel Drainage Layer & Base Slab Bay 4	8	1	· · · · · · · · · · · · · · · · · · ·	20-Jul-22	28-Jul-22												ir			Branch Tunnel I	Drainage La	ıyer & Ba	ase Slab Ba
Branch Tunnel Drainage Layer & Base Slab Bay 5	9		, ,	29-Jul-22	08-Aug-22										,					Branch	Tunnel Dra	inage La	ayer & Base
Cross Passage	63	03-Jan-22	30-May-22	09-Aug-22	24-Oct-22							÷										·	
CP31	47	30-Mar-22	30-May-22	25-Aug-22	21-Oct-22							+			,		וריין י						
CP31 - Base slab / Kicker	17	30-Mar-22	22-Apr-22	25-Aug-22	14-Sep-22												:						CP31 - Ba
CP31 - Waterproofing	10	23-Apr-22	05-May-22	15-Sep-22	26-Sep-22										, , , , , , , , , , , , , , , , , , ,		:					ſ	
CP31 - Rebar	20	06-May-22	30-May-22	27-Sep-22	21-Oct-22								F				:						
CP32	50	14-Mar-22	17-May-22	09-Aug-22	08-Oct-22																		
CP32 - Base slab / Kicker	14	14-Mar-22	29-Mar-22	09-Aug-22	24-Aug-22						-				,		:				CP32	- Base sl	slab / Kicker
CP32 - Waterproofing	8	30-Mar-22	08-Apr-22	25-Aug-22	02-Sep-22												וריין					CP32 - V	Waterproofi
CP32 - Rebar	16	09-Apr-22	30-Apr-22	03-Sep-22	22-Sep-22					·;;							,					·	CP
CP32 - Lining Structure	12	03-May-22	17-May-22	23-Sep-22	08-Oct-22					· · · · · · · · · · · · · · · · · · ·							· · · · · · · · · · · · · · · · · · ·					·	
CP33	46	03-Jan-22	28-Feb-22	29-Aug-22	24-Oct-22				· · · · · · · · · · · · · · · · · · ·	·····;····;	· · · · · · · · · · · · · · · · · · ·	· +								 		·	
EB - D&BI Tunnel - CP33 48m	46	03-Jan-22	28-Feb-22	29-Aug-22*	24-Oct-22										ŗ								
EAST VENTILATION BUILDING [EVB]	310	10-Sep-21	28-Jun-22	13-Mar-21 A	14-Oct-22										7		· 1						
Excavation	297	10-Sep-21	14-Jun-22	13-Mar-21 A	28-Sep-22										, , , , , , , , , , , , , , , , , , ,								
Westbound	66	10-Sep-21	29-Nov-21		15-Feb-22 A	.											 					+	
Westbound Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	15-Feb-22 A				Westbound Excav	vation													
Eastbound	143	22-Mar-22	14-Jun-22		· ·	i i																	
Eastbound Excavation	143	22-Mar-22	14-Jun-22	05-Mar-22 A	28-Sep-22																		
Foundation / Portal Structure	156		28-Jun-22	16-Feb-22 A		ii				····· ·					,								
Westbound	144	30-Nov-21	21-Mar-22	16-Feb-22 A		i																	
EVB - WB Earth Mat Installation	12	30-Nov-21	13-Dec-21		20-Apr-22 A							EVF		'B Earth Mat	1at Installation								
EVB - WB Drainage & Blinding	18	14-Dec-21														EVB	WB D ⁺ د	Drainage & Bl	linding				
EVB - WB Foundation & SG Level Walls & Slab	91	07-Jan-22	21-Mar-22	13-Jun-22	28-Sep-22	2						+ = = = - , 											
Forecast	139			16-Feb-22 A	-	2				·····												· +	
Trench Excavation	24	1		16-Feb-22 A	26-Mar-22 A	·]					Trench Excav	vation	_		1		· · · · · · ·						
Eartmat & Drainage	24	/		28-Mar-22 A	11-Jun-22											Eartr	rtmat & Dr	vrainage					
EVB - WB Foundation & SG Level Walls & Slab	91	1	,	13-Jun-22	28-Sep-22								~-		,								
Eastbound	12	15-Jun-22	28-Jun-22	29-Sep-22	14-Oct-22																		
EVB - EB Earth Mat Installation	12	15-Jun-22	28-Jun-22	29-Sep-22	14-Oct-22											-	, <u> </u>						
A			·		4						<u> </u>		<u> </u>	<u> </u>		•			<u> </u>	,	i	<u> </u>	

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Planned Bar Critical A divity Actual Milestone Actual Work

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Milestone

🔷 Baseline Milestone

Baseline Bar

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