Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report (under EP-458/2013/C)

October 2022 (Version 1.0)

Approved By

(Environmental Team Leader:

Mr. KS Lee)

REMARKS:

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

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

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Ref.: CEDKTDT2EM00_0_0399L.22

14 November 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 Chinq

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

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for October 2022 (Version 1.0) certified by the ET Leader and provided to us via email on 14 November 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 Attn.: Mr. Tommy Wong

By Fax: 2739 0076

Cinotech

Attn.: Mr. Ivan Chau Attn.: Mr. K. S. Lee By Email By Fax: 3107 1388

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EXECUTIVE SUMMARY

Introduction

1. This is the 30th 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 October 2022.

Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
 - East Bound RC Structure Construction, Service Gallery Drill & Blast, Service Gallery A Installation.
 - East Ventilation Building WB Blinding & Waterproofing, EB Excavation and RC Structure.
 - West Bound Extension & Blast Tunnel, RC Structure Construction.
- 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		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	2	0	0	0	Detail refer to App. M
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

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 was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 8. Two (2) 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. No 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	2	Noise	Detail refer to App M	Closed	
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
Noise nuisance generated from the construction activities at Portion T1. (8-14 October 2022)	According to the investigation result, 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 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 and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received
Noise nuisance generated from the construction activities at Portion T1. (17-23 October 2022)	According to the investigation result, 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	A valid CNP was hold and 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

Complaint Type	Investigation Findings	Follow-up Action / Mitigation Measure
	potential noise source of the ground borne noise nuisance	sensitive hours and provide 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-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received

Reporting Changes

23. No reporting change is recorded in the reporting months.

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 (November 2022)	Key Environmental Issues
 East Bound – RC Structure Construction, Service Gallery Frill & Blast. Service Gallery A Installation East Ventilation Building – WB Blinding & Waterproofing, EB Excavation, RC Structure West Bound – Extension & Blast Tunnel, RC 	(A) / (B) / (C) / (D)
Structure Construction	

Note:

- (A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works and rock breaking activities;
- (B) Noisy construction activity such as rock-breaking activities and piling works;
- (C) Runoff from exposed slope or site area; and
- (D) Wastewater and runoff discharge from site.

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

This is the 30th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in October 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)
- The key contacts of the Project are shown in **Table 1.1**.

Table 1.1 **Key Project 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
Cinotech	Environmental Team	Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan	5185 4462

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

Construction Activities undertaken during the Reporting Month

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

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 October 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

Dameit / License No	Valid Period		C4 - 4	
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	ruction 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 T1): GW-RE0622-22	07 Jul 2022	06 Oct 2022	Expired on 6 Oct 2022	
CNP No. (For Portion Q): GW-RE0919-22	23 Sep 2022	23 Mar 2023	Valid	
CNP No. (For Portion T1): GW-RE0997-22	6 Oct 2022	23 Dec 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. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

Monitoring Stations	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	AM3 Yau Lai Estate Bik Lai House	
AM4 ⁽¹⁾ Sitting-out Area at Cha Kwo Ling Village		Ground Level
AM4(B) ^{(2) (*)(**)} Flat 103 Cha Kwo Ling Village		Ground Level

Remarks:

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

⁽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.

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 re-calibrated at least once every six months and the wind directions are divided into 16 sectors of 22.5 degrees each. The location is shown in **Figure 2**. This weather information for the reporting month is summarized in **Appendix C**.
- 2.6 **Table 2.3** summarizes the equipment used for air quality monitoring by the ET for Contract No. CE 59/2015 (EP). Copies of calibration certificates are attached in **Appendix B**.

 Table 2.3
 Air Quality Monitoring Equipment

Equipment	Quantity	
Equipment	Model	Quantity
	Sibata Model No. LD-5R	
	(Serial No.: 972781, 972778, 972779,	
1-hour TSP Dust Meter	972780, 8Y2374)	6
	Sibata Model No. LD-3B	
	(Serial No.2Y6194)	
	GMW model: GS2310	3
HVS Sampler	(Serial No.: 1287, 10379, 10599)	3
	TE 5170 (Serial No.: 1956)	1
Calibratan	TISCH Model: TE-5025A	1
Calibrator	(Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440	1
	(Serial No.: MC01010A44)	1

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 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (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 $\pm 3^{\circ}$ 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. As the proposal for relocation approved, the monitoring at AM4(A) will 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(B); the results from CKL2 are adopted as reference for the 24 TSP monitoring at AM4(B), 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 was 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:

Table 2.4 Major Dust Source during Air Quality Monitoring

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 Traffic at Clia Rwo Lilig Road
AM4(B) (**) - Flat 103 Cha Kwo Ling	Road Traffic at Cha Kwo Ling Road ^(*)
Village	Road Traffic at Clia Rwo Lilig Road

^{(*):} 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**.

^(**) AM4(A) is not available for conducing monitoring due to the demolition of administrative office.

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

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m³	Maximum 1-hr TSP Concentration in the Reporting Month (October 2022), μg/m³
AM1 – Tin Hau Temple	CL1	707	112.7
AM2 – Sai Tso Wan Recreation Ground	CL6	266	228.9
AM3 – Yau Lai Estate Bik Lai House	CL9	507	85.0
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	95.0

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 (October 2022), μg/m³
AM1 – Tin Hau Temple	CL1	199	145.7
AM2 – Sai Tso Wan Recreation Ground	CL6	109	107.8
AM3 – Yau Lai Estate Bik Lai House	CL9	123	34.3
AM4(B) – Flat 103 Cha Kwo Ling Village (*)	N/A ⁽¹⁾	N/A ⁽¹⁾	206.1 (**)

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 (B) (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 for 24-hour TSP monitoring in the reporting month.

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.

Table 3.1 Noise Monitoring 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)

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				1 (20 :)	Façade Measurement
CM2	0700 1000 1			L ₁₀ (30 min.) dB(A)	Façade Measurement
СМЗ	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Façade Measurement
CM4				L _{eq} (30 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 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	SVAN 957 (Serial No.: 23852, 21455) BSWA 308 (Serial No.: 570183)	3
Calibrator	ST-120 (Serial No.: 181001608)	1

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 Two (2) Action Level exceedance was recorded due to the documented complaint in the reporting month.
- 3.11 No Limit Level exceedance was recorded for day-time construction noise monitoring in the reporting month.
- 3.12 Noise monitoring results and graphical presentations are shown in **Appendix G**.
- 3.13 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major noise sources identified at the noise monitoring stations are shown in **Table 3.4**.

Table 3.4 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
CM1	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, 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 3.5 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	73
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

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 (October 2022), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	75.3
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	73.8
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	71.8
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	72.7
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	68.8

3.15 The results at CM2, CM3, CM4 and CM5 were lower than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013). However, the result at CM1 was higher than the maximum predicted mitigated concentration noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013), which may due to the traffic activity along the Lei Yue Mun Road and the Kwun Tong Bypass (Toll road). No Limit level exceedance was recorded in the reporting period.

4 WATER QUALITY

Monitoring Requirement

Groundwater Quality

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

Marine Water Quality

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

Groundwater Level Monitoring (Piezometer Monitoring)

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

5 WASTE MANAGEMENT

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

6 ECOLOGY

Post-Translocation Coral Monitoring

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

7 FISHERIES

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

8 CULTURAL HERITAGE

- 8.1 According to Condition 3.7 of EP-458/2013/C and Section 8.2.1 of the EM&A Manual (AEIAR-173/2013), monitoring of vibration impacts was conducted when the construction works are less than 100m from the Built Heritage in close proximity of the worksite, namely the Cha Kwo Ling Tin Hau temple. Tilting and settlement monitoring should be applied on the Cha Kwo Ling Tin Hau Temple.
- 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 06, 13, 20 and 27 October 2022 in the reporting month. Site inspection of the IEC was conducted on 20 October 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.

Table 12.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	20 Oct 2022	Unclear NRMM label was observed on the vehicle.	The contractor has replaced the new NRMM label.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
	29 Sep 2022	Drip tray which prevent the leaked oil from entering drainage was not observed.	The oil container was removed to avoid the oil leakage.
Waste / Chemical	29 Sep 2022	The accumulated waste was found in the bin.	The contractor had removed the accumulated waste
Management	6 Oct 2022	Drip tray which prevent the leaked oil from entering drainage was not observed.	The contractor removed the oil container to avoid oil leakage.
	20 Oct 2022	The waste oil was observed on the floor.	The contractor has cleaned the waste oil on the floor.

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

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

- Two (2) Action Level exceedance was recorded due to the documented complaint in the reporting month.
- No 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:
 - East Bound RC Structure Construction, Service Gallery Frill & Blast, Service Gallery A Installation.
 - East Ventilation Building WB Blinding & Waterproofing, EB Excavation, RC Structure.
 - West Bound- Extension & Blast Tunnel, RC Structure Construction.
- 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 30th 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 for 24-hour TSP monitoring was recorded in the reporting month.

Construction Noise Monitoring

- 14.8 Two (2) Action Level exceedance was recorded due to documented complaint in the reporting month.
- 14.9 No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

14.10 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

14.11 Two (2) 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:

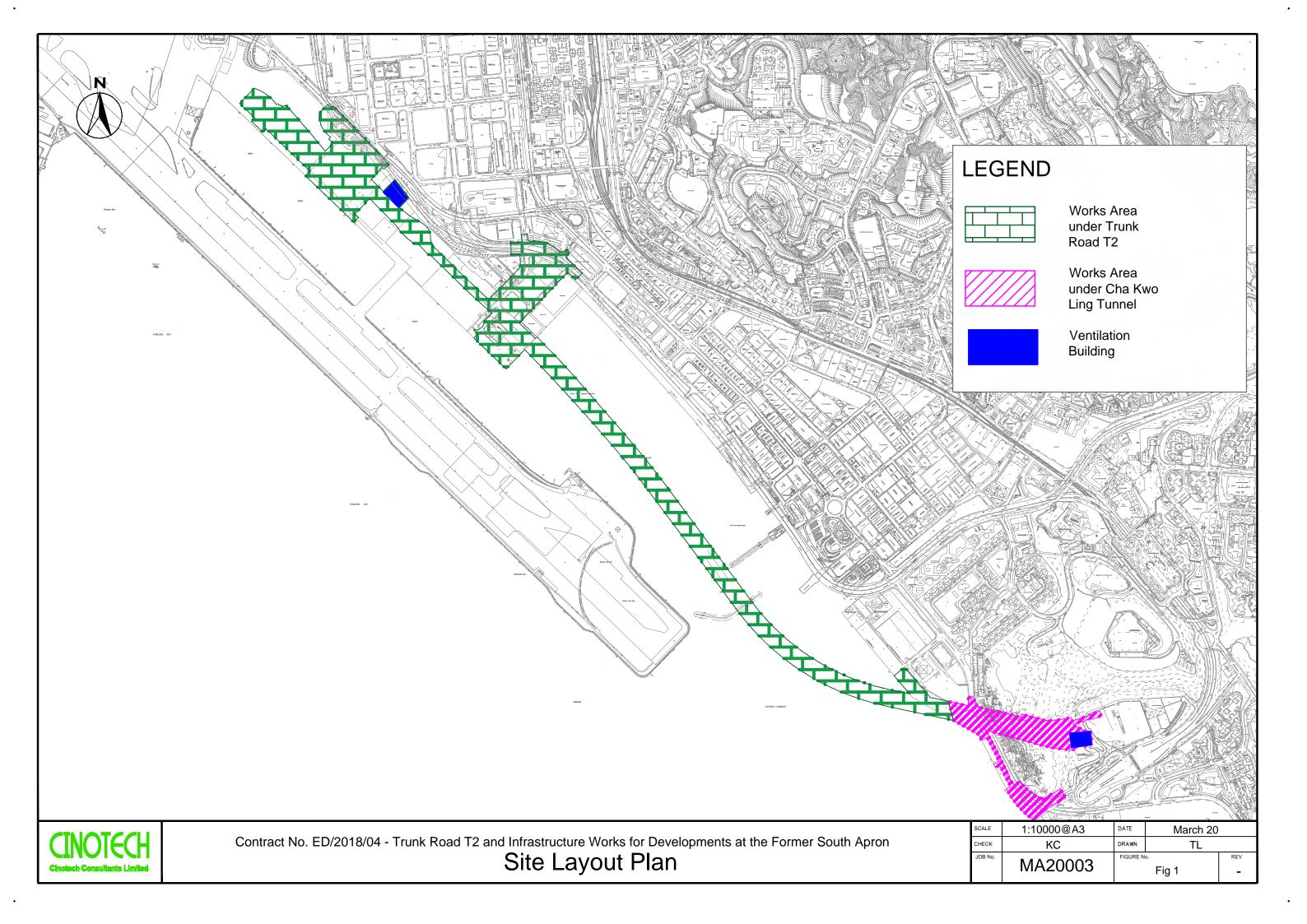
Air quality:

• The valid NRMM labels should be displayed at a conspicuous position on PME.

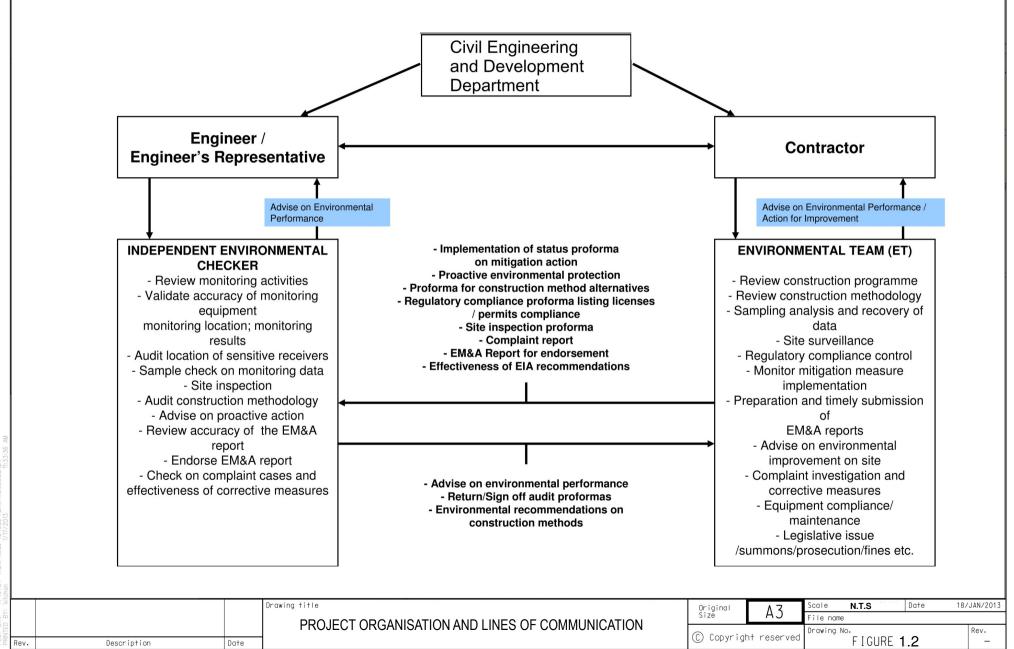
Waste / Chemical Management

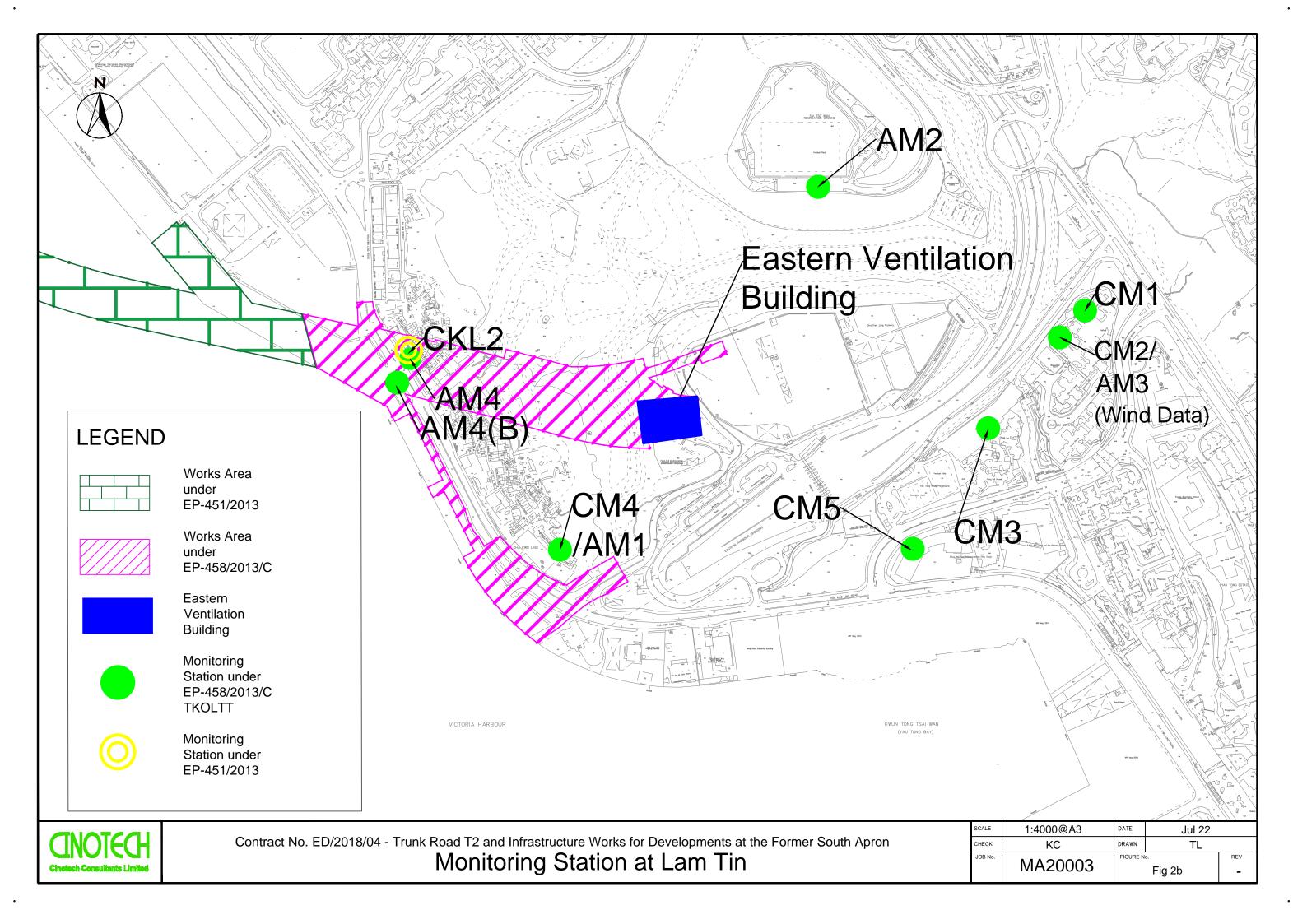
- The general refuse should be stored in the enclosed bin and removed regularly.
- Drip tray should be provided to prevent leaked oil from entering drainage system during handling of chemical.
- Waste, such as oil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution

FIGURES









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/m³
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/m³
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(B)	Flat 103 Cha Kwo Ling Village	210	

Noise

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

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%

 ¹ 70 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.

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0037

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Aug-22		Next Due Date: 9-0		Oct-22	Operator:	SK
Equipment No.:	A-0	01-05	Model No.:	GS	S2310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re Ta(K)	299.7	Pressure, Pa			752.8	
Temperatur	ιο, τα (π)	277.1	Tressure, ru	(IIIIII Ig)		732.0	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	, bc	-0.02420
Last Calibra	ntion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			Calibration of	TSP Sampler	T		
Calibration		Oı	fice	I		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	13.2		3.61	61.29	9.7		3.09
2	10.1		3.15	53.67	7.2		2.66
3	7.7		2.75	46.91	5.4		2.31
4	5.3		2.28	38.99	3.3	1.80	
5	3.1		1.75	29.91	2.0	1.40	
By Linear Regr Slope, mw = Correlation o	0.0546 coefficient* =		.9986	Intercept, bw :	-0.266	5	
			Set Point C	alculation			
From the TSP Fi	eld Calibration (Curve take Ostd		aicuiation			
From the Regres		_					
	,		-				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (′	Γa / 298) =	4.40		
Remarks:							
Conducted by:	Wong Sl	ning Kwai	Signature:	K	<u></u>	Date:	9-Aug-22
Checked by:	Henry	Leung	Signature:	\-lem	y Xoy	Date:	9-Aug-22

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0037

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	9-Aug-22		Next Due Date:	t Due Date: 9-Oct-22		Operator:	SK
Equipment No.:	A-(01-08	Model No.:	GS	S2310	Serial No.	1287
			Ambient C	ondition			
Temperatur	e, Ta (K)	299.7	Pressure, Pa			752.8	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	tion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760]]$		
Next Calibra	ntion Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/7	[a)] ^{1/2} -bc} / mo	;
			Calibration of T	ΓSP Sampler	T		
Calibration		Oı	rfice	T		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.2		3.61	61.29	9.5	3	3.06
2	10.4		3.20	54.45	6.8	2	2.59
3	7.8		2.77	47.21	5.2	2	2.26
4	5.4		2.31	39.35	3.6	1	.88
5	3.1		1.75	29.91	2.1	1	.44
By Linear Regression Slope, mw =	0.0505	_		Intercept, bw :	-0.099	8	
	coefficient* =		.9971	ī			
*If Correlation C	oefficient < 0.9	90, check and re	calibrate.				
			Set Point Ca	lculation			
From the TSP Fig	eld Calibration	Curve_take Ostd		irculation			
From the Regress							
Trom the Regress	sion Equation, t	ne i varae ace	ording to				
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
	.		2 (50)				
Therefore, Se	et Point; W = (r	nw x Qstd + bw)	o ² x (760 / Pa) x (7	Ta / 298) =	4.36		
Remarks:							
•							
•							
Conduct 11	33 7 O	him a Vanci	G :	X	λ	Deter	0. 4 22
Conducted by:	wong S	hing Kwai	Signature:			Date:	9-Aug-22
Checked by:	Henry	/ Leung	Signature:	\-lem	~ X27	Date:	9-Aug-22

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0037

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	9-Aug-22		Next Due Date: 9-0		Oct-22	Operator:	SK
Equipment No.:	A-()1-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatur	re Ta (K)	299.7	Pressure, Pa			752.8	
Temperatur	ic, 14 (11)	200.1	r ressure, r u	(mining)		732.0	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	, bc	-0.02420
Last Calibra	tion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23	($Qstd = \{ [\Delta H \ x] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			Calibration of	TSP Sampler			
Calibration		Oı	fice	T		HVS	1/0
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	12.7		3.54	60.13	8.8		2.94
2	10.0		3.14	53.40	6.7		2.57
3	7.9		2.79	47.51	5.1		2.24
4	4.8		2.17	37.12	3.0	1.72	
5	2.6		1.60	27.43	1.7	1.29	
By Linear Regr Slope, mw = Correlation C	0.0505 coefficient* =	0	.9988	Intercept, bw : -	-0.127	3	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Ostd					
From the Regress		_					
C			-		1/0		
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (′	Γa / 298) =	4.25		
Remarks:							
Conducted by:	Wong Sl	hing Kwai	Signature:	K	X-	Date:	9-Aug-22
Checked by:	Henry	/ Leung	Signature:	\-lem	y Xoy	Date:	9-Aug-22

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0038

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Oct-22		Next Due Date: 9-Dec-22		Operator: SK	SK	
Equipment No.:	A-0	1-05	Model No.:	G	S2310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re, Ta (K)	300.1	Pressure, Pa			762.4	
•							
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra	ntion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / mc	<u>; </u>
			Calibration of T	TSP Sampler	I		
Calibration	ΔH (orifice),		fice	Qstd (CFM)	ΔW (HVS), in.	HVS	0) x (298/Ta)] ^{1/2}
Point	in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	X - axis	of water		0) x (298/1a)] •axis
1	13.3		3.64	61.87	9.8		3.12
2	10.4		3.22	54.76	7.3	2	2.70
3	7.6		2.75	46.87	5.4	2	2.32
4	5.5		2.34	39.93	3.4	1	.84
5	3.3		1.81	31.02	1.9	1	.38
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0568 coefficient* =	0	.9989 calibrate.		-0.393	9	
1 777	11.0.11	7	Set Point Ca	lculation			
From the Regress	sion Equation, th			, , ,	98/Ta)] ^{1/2}		
_							
Remarks:				1.	- 1		
Conducted by:	Wong Sh	ning Kwai	Signature:		<u> </u>	Date:	10-Oct-22
Checked by:	Henry	Leung	Signature:	-lem	y day	Date:	10-Oct-22

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0038

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	9-Oct-22		Next Due Date: 9-		Dec-22	Operator:	SK
Equipment No.:	A-0	1-08	Model No.:	GS	S2310	Serial No.	1287
			Ambient C	ondition			
Temperatu	re, Ta (K)	300.1	Pressure, Pa	(mmHg)		762.4	
		0	• 6• TD	1 17 6	4*		
Serial	No	3864	Slope, mc	0.05922	Intercept	be be	-0.02420
Last Calibra		31-Jan-22	_		$c = [\Delta H \times (Pa/760)]$		
Next Calibra		31-Jan-23			(Pa/760) x (298/7		
	<u>'</u>					· · ·	
			Calibration of 7	ΓSP Sampler			
Calibration		Oı	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} -axis
1	13.5		3.67	62.33	9.5	3	3.08
2	10.7		3.26	55.54	7.0	2	2.64
3	7.9		2.81	47.78	5.4	2	2.32
4	5.5		2.34	39.93	3.7	1	.92
5	3.3		1.81	31.02	2.2	1	.48
	0.0499 coefficient* = Coefficient < 0.99	-	.9984	Intercept, bw	-0.076	1	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration C	Curve, take Ostd		il culturon			
	sion Equation, th						
					1/2		
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.31		
Remarks:							
				- 1-	_1		
Conducted by:	Wong Sh	ing Kwai	Signature:	χ'	<u>}_</u> -	Date:	10-Oct-22
-		-		\ -			
Checked by:	Henry	Leung	Signature:	- lem	y day	Date:	10-Oct-22

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0038

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House			•	
Date:	9-0	ct-22	Next Due Date: 9-I		Dec-22	Operator:	SK
Equipment No.:	A-0	01-03	Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatur	re, Ta (K)	300.1	Pressure, Pa	(mmHg)		762.4	
C - vi -1	NI.		ifice Transfer Star			1	0.02420
Serial Last Calibra		3864 31-Jan-22	Slope, mc	0.05922	Intercept $c = [\Delta H \times (Pa/760)]$		-0.02420
Next Calibra		31-Jan-23			$(Pa/760) \times (298/7)$		
Tiext Canor	ttion Date.			<u> </u>	(14/100) 11 (250)	(a) (bc) / Inc	<u>′</u>
			Calibration of	ΓSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} •axis
1	12.9		3.58	60.94	9.0	2	99
2	10.3		3.20	54.50	6.8		60
3	8.2		2.86	48.67	5.2	2	2.28
5	5.1 2.8		2.25 1.67	38.47 28.61	3.2 1.9	1.79	
By Linear Regression of Y on X Slope , mw =							
			Set Point Ca	lculation			
From the Regress	sion Equation, tl				98/Ta)] ^{1/2}		
Remarks:				<u> </u>	→		
	Wong Sl Henry		Signature: Signature:	-lem	7 Xon	Date:	10-Oct-22 10-Oct-22

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/0016

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	5-Sep-22		Next Due Date: 5-Nov-22		Nov-22	Operator: SK	SK
Equipment No.:	A-0	1-55	Model No.:	TE	E 5170	Serial No.	1956
			Ambient C		I		
Temperatur	re, Ta (K)	304.1	Pressure, Pa	(mmHg)		753.4	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	t, bc	-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra		31-Jan-23			(Pa/760) x (298/		
			Calibration of	ΓSP Sampler	T		
Calibration		Oı	fice			HVS	1/0
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y-axis
1	12.7		3.51	59.72	9.7		3.07
2	10.7		3.22	54.85	7.5		2.70
3	8.5		2.87	48.93	5.7		2.35
4	5.2		2.25	38.36	3.1	1.74	
5	2.8		1.65	28.26	1.7	1.29	
By Linear Regressions Slope, mw = Correlation Correlation C	0.0564 coefficient* =	0	.9966	Intercept, bw	-0.368	33	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, th	ne "Y" value acce	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.36		
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:		<u></u>	Date:	5-Sep-22
Checked by:	Henry	Leung	Signature:	\-len	g Xon	Date:	5-Sep-22

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00160 Issue Date : 10 Jan 2022

Application No. : HP00040

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.

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.

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

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



Report No. : 00160 | Issue Date : 10 Jan 2022

Application 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 -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00168 Issue Date : 25 Jan 2022

Application No. : HP00044

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

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.

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

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



Report No. : 00168 | Issue Date : 25 Jan 2022

Application 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 -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 00152 Issue Date : 19 Nov 2021

Application No. : HP00034

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-12-01

Manufacturer: : BSWA Technology

Other information : Mod

Model No.	BSWA 308
Serial No.	570183
Microphone No.	570605

Date Received : 10 Nov 2021

Test Period : 10 Nov 2021 to 17 Nov 2021

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.

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

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



Report No. : 00152 | Issue Date : 19 Nov 2021

Application No. : HP00034

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	114.0	0.0	± 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 -

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NT, Hong Kong

Tel: +852 3841 4388 Website: https://www.hpct.com.hk



Report No. : 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

Date Received : 05 Nov 2021

Test Period : 08 Nov 2021 to 12 Nov 2021

Test Requested : Performance checking for Sound Level Calibrator

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

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



Report No. : 00150 | Issue Date : 16 Nov 2021

Application No. : HP00032

Certificate of Calibration

Measuring equipment

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

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608
Equipment No.	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 -



Certificate of Calibration

It i	is certified t	that the	e item under	r calibration	has been	calibrated by	corresponding	calibrated High	Volume Samp	ler

Description:	Digital Dust Indicator		Date of Calibration	29-Sep-22	
Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibration Record	29-Nov-22	
Model No.:	LD-5R				
Serial No.:	972778				
Equipment No.:	SA-01-07	Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment 735 CPM		
Tisch Calibratio	n Orifice No.: 3864	After Sensitivi	ity Adjustment 735 CPM		
	Cal	ibration of 1 h	r TSP		
Calibration	Laser Dust Monitor		HVS		
Point	Mass Concentration (μg/1 X-axis	m3)	Mass concentration Y-axis	n (μg/m ³)	
1	74.0		156.0		
2	65.0		135.0		
3	52.0		110.0		
Average	63.7		133.7		
Slope , mw = Correlation co	2.0790 pefficient* = 0.9985	Intere	cept, bw =)25	
	Set	t Correlation F	actor		
Particaulate Con	centration by High Volume Sampler (μg/m ³)	133.7		
Particaulate Con	centration by Dust Meter (μg/m³)		63.7		
Measureing time			60.0		
Set Correlation 1					
SCF = [K=Hig	ractor , SCF h Volume Sampler / Dust Meter, (μg	g/m3)]	2.1		
			2.1		
In-house method The Dust Monito Factor (CF) betw	h Volume Sampler / Dust Meter, (μg	l: h Volume Samj ne Sampler.	pler and The result was used to g	enerate the Correlation	
In-house method The Dust Monito Factor (CF) betw	In according to the instruction manual or was compared with a calibrated Higween the Dust Monitor and High Volumers are weighted by HOKLAS laborated.	l: h Volume Samj ne Sampler.	pler and The result was used to g	enerate the Correlation	

Digital Dust Indicator



Date of Calibration 29-Sep-22

Certificate of Calibration

Description:

Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calib	ration Record	29-Nov-22
Model No.:	LD-5R					
Serial No.:	972779					
Equipment No.:	SA-01-08		Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ty Adjustment	744 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	М	[ass Concentration (μg/ X-axis	(m3)	Ma	ss concentration (µ Y-axis	ig/m ³)
1		75.0			158.0	
2		64.0			136.0	
3		52.0			111.0	
Average		63.7			135.0	
By Linear Regr Slope , mw = Correlation co	2.04			cept, bw =	4.8602	
		Se	t Correlation F	actor		
Particaulate Con	centration by I	Se High Volume Sampler (actor	135.0	
	·			actor	135.0 63.7	
Particaulate Con Measureing time	centration by I	High Volume Sampler		actor		
Particaulate Con Measureing time Set Correlation I	centration by I c, (min) Factor, SCF	High Volume Sampler	(μg/m³)	actor 2.1	63.7	
Particaulate Con Measureing time Set Correlation I SCF = [K=High	centration by I e, (min) Factor , SCF h Volume Sam	High Volume Sampler (Dust Meter (μg/m ³)	(μg/m³) g/m3)]		63.7	
Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by I c, (min) Factor, SCF h Volume Sam I in according to the compare ween the Dust M	High Volume Sampler (Dust Meter (μg/m³) npler / Dust Meter, (μ	g/m3)] al: gh Volume Samme Sampler.	2.1 pler and The result	63.7	rate the Correlation
Particaulate Con Measureing time Set Correlation I SCF = [K=High In-house method The Dust Monito Factor (CF) betw Those filter pap Calibrated by:	centration by I c, (min) Factor, SCF h Volume Sam I in according to the compare ween the Dust Morers are weigh	High Volume Sampler (Dust Meter (μg/m³) npler / Dust Meter, (μ o the instruction manual with a calibrated High Monitor and High Volu	g/m3)] al: gh Volume Samme Sampler.	2.1 Deler and The result Litimed) Approved by:	63.7 60.0	y Xvy

Digital Dust Indicator



29-Sep-22

Date of Calibration

Certificate of Calibration

Description:

•						
Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calib	ration Record	29-Nov-22
Model No.:	LD-5R					
Serial No.:	972780					
Equipment No.:	SA-01-09		Sensitivity	0.001 mg/m3	_	
High Volume Sa	impler No.:	A-01-03	Before Sensitiv	ity Adjustment	739 CPM	
Tisch Calibratio	n Orifice No.:	3864	After Sensitivi	ty Adjustment	739 CPM	
		Ca	alibration of 1 h	· TSP		
Calibration		Laser Dust Monitor	r		HVS	
Point	N	Mass Concentration (μg/	/m3)	Mas	ss concentration (ug/m ³)
		X-axis			Y-axis	
1		74.0			162.0	
2		65.0			146.0	
3		52.0			116.0	
Average		63.7			141.3	
By Linear Regi Slope , mw = Correlation co	2.10			ept, bw =	7.2343	
		Se	et Correlation F	actor		
Particaulate Con	centration by	High Volume Sampler	$(\mu g/m^3)$		141.3	
Particaulate Con	centration by	Dust Meter (μg/m ³)		63.7		
Measureing time	e, (min)				60.0	
Set Correlation 1	Factor, SCF					
SCF = [K=Hig	h Volume San	npler / Dust Meter, (μ	ag/m3)]	2.2		
In-house method	l in according	to the instruction manu	al:			
Factor (CF) betw	veen the Dust 1	ed with a calibrated Hi Monitor and High Volu ated by HOKLAS labo	ıme Sampler.		was used to gene	rate the Correlation
Calibrated by Technic		ong Shing Kwai)	_	Approved by:	Ct Manager (Henr	Leung)

Digital Dust Indicator



Date of Calibration 29-Sep-22

Certificate of Calibration

Description:

Manufacturer:	Sibata Scientific Technology LTD.	_	Validity of Calibration	ration Record	29-Nov-22
Model No.:	LD-5R				
Serial No.:	972781				
Equipment No.:	SA-01-10	Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.: <u>A-01-03</u>	Before Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	n Orifice No.: 3864	After Sensitivi	ty Adjustment	734 CPM	
	Cal	libration of 1 h	r TSP		
Calibration	Laser Dust Monitor			HVS	
Point	Mass Concentration (μg/1 X-axis	m3)	Mas	ss concentration (Y-axis	ug/m³)
1	77.0			159.0	
2	65.0			135.0	
3	52.0			110.0	
Average	64.7			134.7	
Slope , mw = Correlation co	1.9595 pefficient* = 0.9999	Interd	cept, bw =	7.9531	
	Set	t Correlation F	actor		
	centration by High Volume Sampler (μg/m ³)	134.7		
	centration by Dust Meter (µg/m³)		64.7		
Measureing time				60.0	
Set Correlation F SCF = [K=Higl	ractor , SCF n Volume Sampler / Dust Meter, (με	g/m3)]	2.1		
The Dust Monitor Factor (CF) betw	in according to the instruction manual or was compared with a calibrated Hig geen the Dust Monitor and High Volumers are weighted by HOKLAS labor	gh Volume Samp me Sampler.		was used to gene	rate the Correlation
Calibrated by:	al Officer (Wong Shing Kwai)	_	Approved by: Projec	len et Manager (Henr	y X27 y Leung)





RECALIBRATION DUE DATE:

January 31, 2023

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 31, 2022

Rootsmeter S/N: 438320

Ta: 294 °K

Pa: 752.6

Operator: Jim Tisch

mm Hg

Calibration Model #:

TE-5025A

Calibrator S/N: 3864

	Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔН
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
4	7	8	1	0.8730	8.8	5.50
5	9	10	1	0.7230	12.7	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9995	0.6898	1.4169	0.9957	0.6872	0.8839		
0.9952	0.9643	2.0037	0.9915	0.9608	1.2500		
0.9932	1.0843	2.2402	0.9895	1.0802	1.3976		
0.9920	1.1363	2.3496	0.9883	1.1321	1.4658		
0.9868	1.3649	2.8337	0.9831	1.3598	1.7678		
	m=	2.09281		m=	1.31048		
QSTD	b=	-0.02426	QA [b=	-0.01514		
	r=	0.99993	,	r=	0.99993		

	Calculatio	ns		
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)	
Qstd=	Vstd/∆Time	Qa= Va/ΔTime		
	For subsequent flow ra	te calculatio	ns:	
Qstd=	$1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$	Qa=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$	

	Standard Conditions
Tstd:	298.15 °K
Pstd:	760 mm Hg
	Key
ΔH: calibrate	or manometer reading (in H2O)
ΔP: rootsme	ter manometer reading (mm Hg)
Ta: actual ab	solute temperature (°K)
Pa: actual ba	rometric pressure (mm Hg)
b: intercept	
m: slope	

RECALIBRATION

US EPA recommends annual recalibration per 1998
40 Code of Federal Regulations Part 50 to 51,
Appendix B to Part 50, Reference Method for the
Determination of Suspended Particulate Matter in
the Atmosphere, 9.2.17, page 30



Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

Model No.: <u>Davis7440</u>

Serial No.: MC01010A44

Equipment No.: <u>SA-03-04</u>

Date of Calibration 19-Aug-2022

Next Due Date 19-Feb-2023

1. Performance check of Wind Speed

Wind Sp	peed, 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	2.6	-0.1	
4.0	4.0	0.0	

2. Performance check of Wind Direction

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

Test Specification:

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

Calibrated by:

Wong Shing Kwai

Approved by:

Henry/Leung



Certificate of Calibration

Description:	Digital Dust Indicator		Date of Calibration 29-S		29-Sep-22	
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	tion Record	29-Nov-22
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	652	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	M	ass Concentration (μg/	m3)	Mass	concentration (µ	\lg/m^3)
1		X-axis			Y-axis	
2		72.0 65.0			153.0 135.0	
3		54.0			116.0	
Average		63.7			134.7	
Slope , mw = Correlation co	2.020 pefficient* =	0.9937		eept, bw =	5.6579	
			t Correlation F	actor		
		High Volume Sampler ((µg/m³)	134.7		
	•	Oust Meter (μg/m ³)		63.7		
Measureing time Set Correlation F					60.0	
		npler / Dust Meter, (μ	g/m3)]	2.1		
In-house method	in according t	o the instruction manua	al:			
Factor (CF) betw	een the Dust N	ed with a calibrated Hig Monitor and High Volu ted by HOKLAS labo	me Sampler.		vas used to gener	ate the Correlation
Calibrated by:		ng Shing Kwai)	_		Manager (Henry	. /



Certificate of Calibration

Description:	Laser Dust Mo	nitor		Date o	f Calibration	29-Sep-22
Manufacturer:	Sibata Scientif	ic Technology LTD.		Validity of Calibra	tion Record	29-Nov-22
Model No.:	LD-3B					
Serial No.:	2Y6194					
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sens	itivity Adjustment	578	
Tisch Calibration	n Orifice No.:	3864	After Sensit	ivity Adjustment	578	
		Calibra	tion of 1 hr T	TSP		
Calibration		Laser Dust Monitor			HVS	
Point	Total Count	Count / Minute X-axis		Mass	concentration (µ Y-axis	ug/m³)
1	4150	69.2			173.0	
2	3650	60.8			153.0	
3	2950	49.2			128.0	
Aver	age	59.7			151.3	
By Linear Regr Slope , mw =	By Linear Regression of Y on X Slope , mw =					
Correla	ation coefficien	nt* = 0.999	95	-		
Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (μ g/m3)] 2.5						
The Dust Monito (CF) between the Those filter pap	or was compared e Dust Monitor pers are weight	the instruction manual: d with a calibrated High Volume and High Volume Sampler. ed by HOKLAS laboratory (-	ed)	1 0	Correlation Factor
Calibrated by: Technic		ng Shing Kwai)		Approved by:	Project Manager	(Henry Leung)

APPENDIX C WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
		(%) ²	
1-Oct-22	27.7	86	2.6
2-Oct-22	28.9	81	Trace
3-Oct-22	29.5	76	0.0
4-Oct-22	29.4	76	0.0
5-Oct-22	29.1	75	Trace
6-Oct-22	28.9	74	Trace
7-Oct-22	28.3	77	22.8
8-Oct-22	27.7	71	Trace
9-Oct-22	27.1	71	4.8
10-Oct-22	24.0	51	0.0
11-Oct-22	24.1	48	0.0
12-Oct-22	25.2	50	0.0
13-Oct-22	26.0	60	0.0
14-Oct-22	26.9	66	0.0
15-Oct-22	27.5	53	0.0
16-Oct-22	28.3	46	0.0
17-Oct-22	27.2	45	Trace
18-Oct-22	20.9	67	19.7
19-Oct-22	23.0	54	0.0
20-Oct-22	24.3	64	0.0
21-Oct-22	25.2	68	0.0
22-Oct-22	26.6	67	Trace
23-Oct-22	26.5	71	0.0
24-Oct-22	25.2	68	0.0
25-Oct-22	23.8	63	0.0
26-Oct-22	23.9	66	0.0
27-Oct-22	24.6	70	0.0
28-Oct-22	25.5	68	0.0
29-Oct-22	25.7	65	0.0
30-Oct-22	25.4	57	0.0
31-Oct-22	25.4	50	0.0

(Reporting Month:October 2022)

Remarks:

Source - Hong Kong Observatory

 $^{^{1\}text{--}3}Retrieved$ from Manned Weather Station (Hong Kong Observatory) (22°18′07" N, 114°10′27" E)

October 2022					
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
1 Oct 2022	12:00 AM	NE	0.3		
1 Oct 2022	1:00 AM	ENE	0.4		
1 Oct 2022	2:00 AM	ENE	0.4		
1 Oct 2022	3:00 AM	Е	0.2		
1 Oct 2022	4:00 AM	NE	0.2		
1 Oct 2022	5:00 AM	NNE	0.2		
1 Oct 2022	6:00 AM	NNE	0.2		
1 Oct 2022	7:00 AM	NNE	0.3		
1 Oct 2022	8:00 AM	NE	1.2		
1 Oct 2022	9:00 AM	NNE	0.4		
1 Oct 2022	10:00 AM	NE	0.5		
1 Oct 2022	11:00 AM	Е	0.4		
1 Oct 2022	12:00 PM	ESE	0.3		
1 Oct 2022	1:00 PM	NW	0.4		
1 Oct 2022	2:00 PM	NE	0.4		
1 Oct 2022	3:00 PM	NE	0.2		
1 Oct 2022	4:00 PM	ENE	0.2		
1 Oct 2022	5:00 PM	NNE	0.2		
1 Oct 2022	6:00 PM	NNE	0.2		
1 Oct 2022	7:00 PM	NNE	0.3		
1 Oct 2022	8:00 PM	ENE	0.3		
1 Oct 2022	9:00 PM	Е	0.3		
1 Oct 2022	10:00 PM	NE	0.3		
1 Oct 2022	11:00 PM	ENE	0.3		
2 Oct 2022	12:00 AM	Е	0.4		
2 Oct 2022	1:00 AM	Е	0.2		
2 Oct 2022	2:00 AM	ENE	0.2		
2 Oct 2022	3:00 AM	ENE	0.2		
2 Oct 2022	4:00 AM	ENE	0.2		
2 Oct 2022	5:00 AM	ENE	0.2		
2 Oct 2022	6:00 AM	ENE	0.2		
2 Oct 2022	7:00 AM	ENE	0.2		
2 Oct 2022	8:00 AM	ENE	0.2		
2 Oct 2022	9:00 AM	ENE	0.2		
2 Oct 2022	10:00 AM	NE	0.2		
2 Oct 2022	11:00 AM	NNW	0.2		
2 Oct 2022	12:00 PM	ENE	0.3		
2 Oct 2022	1:00 PM	ESE	0.3		
2 Oct 2022	2:00 PM	ENE	0.2		
2 Oct 2022	3:00 PM	ESE	0.2		
2 Oct 2022	4:00 PM	SE S	0.1		
2 Oct 2022	5:00 PM		0.3		
2 Oct 2022	6:00 PM	SE ENE	0.2		
2 Oct 2022	7:00 PM	ENE E	0.3		
2 Oct 2022	8:00 PM	ENE			
2 Oct 2022	9:00 PM	ENE ENE	0.2		
2 Oct 2022 2 Oct 2022	10:00 PM 11:00 PM	ENE E	0.1		
3 Oct 2022	12:00 PM	E	0.1		
3 Oct 2022	1:00 AM	NE	0.1		
3 Oct 2022	2:00 AM	NE NE	0.1		
3 Oct 2022	3:00 AM	NE NE	0.1		
3 Oct 2022	4:00 AM	NNE	0.1		
3 Oct 2022	5:00 AM	ENE	0.1		
3 Oct 2022	6:00 AM	NE NE	0.1		
3 Oct 2022	7:00 AM	ENE	0.1		
3 Oct 2022	8:00 AM	NNE	0.1		
3 300 2022	0.0071111	11111	0.1		

	October 2022				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
3 Oct 2022	9:00 AM	NE	0.1		
3 Oct 2022	10:00 AM	Е	0.1		
3 Oct 2022	11:00 AM	ENE	0.2		
3 Oct 2022	12:00 PM	NE	0.2		
3 Oct 2022	1:00 PM	ENE	0.2		
3 Oct 2022	2:00 PM	SW	0.3		
3 Oct 2022	3:00 PM	S	0.3		
3 Oct 2022	4:00 PM	SE	0.1		
3 Oct 2022	5:00 PM	ESE	0.1		
3 Oct 2022	6:00 PM	ESE	0.1		
3 Oct 2022	7:00 PM	NE	0.1		
3 Oct 2022	8:00 PM	NE	0.1		
3 Oct 2022	9:00 PM	NE	0.1		
3 Oct 2022	10:00 PM	ENE	0.2		
3 Oct 2022	11:00 PM	ENE	1.1		
4 Oct 2022	12:00 AM	ENE	0.8		
4 Oct 2022	1:00 AM	ENE	0.7		
4 Oct 2022	2:00 AM	ENE	0.1		
4 Oct 2022	3:00 AM	ENE	0.1		
4 Oct 2022	4:00 AM	NE	0.3		
4 Oct 2022	5:00 AM	ENE	0.2		
4 Oct 2022	6:00 AM	ENE	0.2		
4 Oct 2022	7:00 AM	ENE	0.1		
4 Oct 2022	8:00 AM	NE	0.6		
4 Oct 2022	9:00 AM	ENE	0.2		
4 Oct 2022	10:00 AM	WNW	0.7		
4 Oct 2022	11:00 AM	W	0.1		
4 Oct 2022	12:00 PM	SE	0.1		
4 Oct 2022	1:00 PM	WSW	0.7		
4 Oct 2022	2:00 PM	SW	0.3		
4 Oct 2022	3:00 PM	SW	0.5		
4 Oct 2022	4:00 PM	W	0.1		
4 Oct 2022	5:00 PM	W	0.1		
4 Oct 2022	6:00 PM	SW	0.1		
4 Oct 2022	7:00 PM	SSW	0.1		
4 Oct 2022	8:00 PM	Е	0.1		
4 Oct 2022	9:00 PM	WSW	0.1		
4 Oct 2022	10:00 PM	SW	0.1		
4 Oct 2022	11:00 PM	SW	0.1		
5 Oct 2022	12:00 AM	NNE	0.1		
5 Oct 2022	1:00 AM	NE	0.1		
5 Oct 2022	2:00 AM	NE	0.1		
5 Oct 2022	3:00 AM	NE	0.1		
5 Oct 2022	4:00 AM	NE	0.1		
5 Oct 2022	5:00 AM	N	0.1		
5 Oct 2022	6:00 AM	SSW	0.1		
5 Oct 2022	7:00 AM	NE	0.1		
5 Oct 2022	8:00 AM	S	0.1		
5 Oct 2022	9:00 AM	NE	0.1		
5 Oct 2022	10:00 AM	SSE	0.1		
5 Oct 2022	11:00 AM	ESE	0.2		
5 Oct 2022	12:00 PM	NE	0.3		
5 Oct 2022	1:00 PM	ENE	0.2		
5 Oct 2022	2:00 PM	ENE	0.3		
5 Oct 2022	3:00 PM	ENE	0.2		
5 Oct 2022	4:00 PM	Е	0.1		
5 Oct 2022	5:00 PM	ENE	0.1		

	Octo	ber 2022		
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
5 Oct 2022	6:00 PM	Е	0.2	
5 Oct 2022	7:00 PM	ENE	0.1	
5 Oct 2022	8:00 PM	ESE	0.1	
5 Oct 2022	9:00 PM	NE	0.1	
5 Oct 2022	10:00 PM	ENE	0.1	
5 Oct 2022	11:00 PM	ENE	0.1	
6 Oct 2022	12:00 AM	Е	0.1	
6 Oct 2022	1:00 AM	NE	0.1	
6 Oct 2022	2:00 AM	NNE	0.1	
6 Oct 2022	3:00 AM	NNE	0.1	
6 Oct 2022	4:00 AM	NNE	0.4	
6 Oct 2022	5:00 AM	NE	0.1	
6 Oct 2022	6:00 AM	NNE	0.2	
6 Oct 2022	7:00 AM	NE	0.9	
6 Oct 2022	8:00 AM	Е	0.1	
6 Oct 2022	9:00 AM	ESE	0.2	
6 Oct 2022	10:00 AM	NW	0.3	
6 Oct 2022	11:00 AM	NE	0.3	
6 Oct 2022	12:00 PM	NE	0.1	
6 Oct 2022	1:00 PM	ENE	0.1	
6 Oct 2022	2:00 PM	NNE	0.1	
6 Oct 2022	3:00 PM	NNE	0.1	
6 Oct 2022	4:00 PM	NNE	0.2	
6 Oct 2022	5:00 PM	ENE	0.1	
6 Oct 2022	6:00 PM	Е	0.4	
6 Oct 2022	7:00 PM	NE	0.2	
6 Oct 2022	8:00 PM	NE	0.2	
6 Oct 2022	9:00 PM	N	0.2	
6 Oct 2022	10:00 PM	Е	0.8	
6 Oct 2022	11:00 PM	NE	0.2	
7 Oct 2022	12:00 AM	N	0.5	
7 Oct 2022	1:00 AM	ENE	0.9	
7 Oct 2022	2:00 AM	NE	0.4	
7 Oct 2022	3:00 AM	NNE	0.2	
7 Oct 2022	4:00 AM	ENE	0.3	
7 Oct 2022	5:00 AM	N	0.2	
7 Oct 2022	6:00 AM	NE	0.2	
7 Oct 2022	7:00 AM	N	1.8	
7 Oct 2022	8:00 AM	NNE	0.8	
7 Oct 2022	9:00 AM	NE	0.7	
7 Oct 2022	10:00 AM	N	0.1	
7 Oct 2022	11:00 AM	ENE	0.1	
7 Oct 2022	12:00 PM	ENE	0.3	
7 Oct 2022	1:00 PM	N	0.2	
7 Oct 2022	2:00 PM	NW	0.2	
7 Oct 2022	3:00 PM	NNE	0.1	
7 Oct 2022	4:00 PM	NNE	0.6	
7 Oct 2022	5:00 PM	NNE	0.2	
7 Oct 2022	6:00 PM	ENE	0.7	
7 Oct 2022	7:00 PM	NE	0.4	
7 Oct 2022	8:00 PM	N	0.7	
7 Oct 2022	9:00 PM	NNE	0.2	
7 Oct 2022	10:00 PM	NNE	0.1	
7 Oct 2022	11:00 PM	ENE	0.1	
8 Oct 2022	12:00 AM	NE	0.1	
8 Oct 2022	1:00 AM	NNE	0.2	
8 Oct 2022	2:00 AM	ENE	1.5	

	October 2022				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
8 Oct 2022	3:00 AM	ENE	0.1		
8 Oct 2022	4:00 AM	NE	1.5		
8 Oct 2022	5:00 AM	N	0.9		
8 Oct 2022	6:00 AM	NE	0.1		
8 Oct 2022	7:00 AM	NE	0.2		
8 Oct 2022	8:00 AM	SE	0.2		
8 Oct 2022	9:00 AM	Е	0.2		
8 Oct 2022	10:00 AM	ENE	0.3		
8 Oct 2022	11:00 AM	ENE	0.7		
8 Oct 2022	12:00 PM	NNW	2.5		
8 Oct 2022	1:00 PM	NNE	0.8		
8 Oct 2022	2:00 PM	ENE	0.2		
8 Oct 2022	3:00 PM	NNE	0.1		
8 Oct 2022	4:00 PM	NE	0.3		
8 Oct 2022	5:00 PM	NE	0.2		
8 Oct 2022	6:00 PM	ENE	1.8		
8 Oct 2022	7:00 PM	ENE	0.8		
8 Oct 2022	8:00 PM	NNE	0.7		
8 Oct 2022	9:00 PM	ENE	0.1		
8 Oct 2022	10:00 PM	N	0.1		
8 Oct 2022	11:00 PM	NNE	0.3		
9 Oct 2022	12:00 AM	E	0.2		
9 Oct 2022	1:00 AM	N	0.2		
9 Oct 2022	2:00 AM	ESE	0.1		
9 Oct 2022	3:00 AM	NE	0.6		
9 Oct 2022	4:00 AM	ENE	0.2		
9 Oct 2022	5:00 AM	ENE	0.7		
9 Oct 2022	6:00 AM	E	0.1		
9 Oct 2022	7:00 AM	NE	1.0		
9 Oct 2022	8:00 AM	NNE	0.1		
9 Oct 2022	9:00 AM	NNE	1.4		
9 Oct 2022	10:00 AM	NNE	0.1		
9 Oct 2022	11:00 AM	NE NINE	0.3		
9 Oct 2022	12:00 PM	NNE	0.3		
9 Oct 2022	1:00 PM 2:00 PM	NE E	0.4		
9 Oct 2022			0.1		
9 Oct 2022 9 Oct 2022	3:00 PM 4:00 PM	ESE NW	0.2		
9 Oct 2022	5:00 PM	NE NE	0.1		
9 Oct 2022 9 Oct 2022	6:00 PM	NE NE	0.1		
9 Oct 2022 9 Oct 2022	7:00 PM	ENE	0.1		
9 Oct 2022	8:00 PM	NNE	0.1		
9 Oct 2022	9:00 PM	NNE	0.3		
9 Oct 2022	10:00 PM	NNE	0.1		
9 Oct 2022	11:00 PM	ENE	0.1		
10 Oct 2022	12:00 AM	ENE	0.1		
10 Oct 2022	1:00 AM	NE	0.1		
10 Oct 2022	2:00 AM	NNE	0.1		
10 Oct 2022	3:00 AM	NE	0.1		
10 Oct 2022	4:00 AM	NNE	0.1		
10 Oct 2022	5:00 AM	NNE	0.2		
10 Oct 2022	6:00 AM	NNE	0.1		
10 Oct 2022	7:00 AM	NE	0.1		
10 Oct 2022	8:00 AM	NE NE	0.1		
10 Oct 2022	9:00 AM	N	0.4		
10 Oct 2022	10:00 AM	ENE	0.1		
10 Oct 2022	11:00 AM	NE NE	0.1		
		1			

	October 2022				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
10 Oct 2022	12:00 PM	NNE	0.1		
10 Oct 2022	1:00 PM	WNW	0.3		
10 Oct 2022	2:00 PM	NE	0.1		
10 Oct 2022	3:00 PM	NE	0.1		
10 Oct 2022	4:00 PM	ENE	0.1		
10 Oct 2022	5:00 PM	ENE	0.1		
10 Oct 2022	6:00 PM	ENE	0.1		
10 Oct 2022	7:00 PM	ENE	0.2		
10 Oct 2022	8:00 PM	NE	1.8		
10 Oct 2022	9:00 PM	Е	0.8		
10 Oct 2022	10:00 PM	ENE	0.7		
10 Oct 2022	11:00 PM	ENE	0.1		
11 Oct 2022	12:00 AM	ENE	0.1		
11 Oct 2022	1:00 AM	NE	0.3		
11 Oct 2022	2:00 AM	SSW	0.2		
11 Oct 2022	3:00 AM	NE	0.2		
11 Oct 2022	4:00 AM	NE	0.1		
11 Oct 2022	5:00 AM	NE	0.6		
11 Oct 2022	6:00 AM	ENE	0.2		
11 Oct 2022	7:00 AM	ENE	0.7		
11 Oct 2022	8:00 AM	Е	0.2		
11 Oct 2022	9:00 AM	N	0.5		
11 Oct 2022	10:00 AM	ESE	0.1		
11 Oct 2022	11:00 AM	ENE	0.2		
11 Oct 2022	12:00 PM	N	0.3		
11 Oct 2022	1:00 PM	NE	0.1		
11 Oct 2022	2:00 PM	ENE	0.1		
11 Oct 2022	3:00 PM	SSE	0.1		
11 Oct 2022	4:00 PM	E	0.1		
11 Oct 2022	5:00 PM	ENE	0.3		
11 Oct 2022	6:00 PM	ENE	0.1		
11 Oct 2022	7:00 PM	NE	0.1		
11 Oct 2022	8:00 PM	ENE	0.1		
11 Oct 2022	9:00 PM	NE ENE	0.1		
11 Oct 2022 11 Oct 2022	10:00 PM	ENE	0.1		
	11:00 PM	ENE	0.1		
12 Oct 2022 12 Oct 2022	12:00 AM 1:00 AM	ENE ENE	0.1		
12 Oct 2022	2:00 AM	NE NE	0.1		
12 Oct 2022	3:00 AM	E	0.1		
12 Oct 2022	4:00 AM	E	0.1		
12 Oct 2022	5:00 AM	NNE	0.1		
12 Oct 2022	6:00 AM	ENE	0.1		
12 Oct 2022	7:00 AM	NE NE	0.1		
12 Oct 2022	8:00 AM	NE	0.1		
12 Oct 2022	9:00 AM	NNE	0.3		
12 Oct 2022	10:00 AM	ENE	0.2		
12 Oct 2022	11:00 AM	NE NE	0.1		
12 Oct 2022	12:00 PM	ENE	0.1		
12 Oct 2022	1:00 PM	ENE	0.2		
12 Oct 2022	2:00 PM	ENE	0.1		
12 Oct 2022	3:00 PM	Е	0.1		
12 Oct 2022	4:00 PM	E	0.3		
12 Oct 2022	5:00 PM	ENE	0.5		
12 Oct 2022	6:00 PM	ENE	0.1		
12 Oct 2022	7:00 PM	NE	0.1		
12 Oct 2022	8:00 PM	NE	0.1		

October 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
12 Oct 2022	9:00 PM	ENE	0.1	
12 Oct 2022	10:00 PM	Е	0.1	
12 Oct 2022	11:00 PM	ESE	0.2	
13 Oct 2022	12:00 AM	NE	1.8	
13 Oct 2022	1:00 AM	ENE	0.8	
13 Oct 2022	2:00 AM	ENE	0.7	
13 Oct 2022	3:00 AM	NE	0.1	
13 Oct 2022	4:00 AM	NE	0.1	
13 Oct 2022	5:00 AM	NNE	0.3	
13 Oct 2022	6:00 AM	ENE	0.2	
13 Oct 2022	7:00 AM	Е	0.2	
13 Oct 2022	8:00 AM	ENE	0.1	
13 Oct 2022	9:00 AM	Е	0.6	
13 Oct 2022	10:00 AM	ENE	0.2	
13 Oct 2022	11:00 AM	NE	0.7	
13 Oct 2022	12:00 PM	ESE	1.2	
13 Oct 2022	1:00 PM	SE	1.3	
13 Oct 2022	2:00 PM	NE	1.1	
13 Oct 2022	3:00 PM	ENE	0.9	
13 Oct 2022	4:00 PM	NE	1.1	
13 Oct 2022	5:00 PM	NE	0.8	
13 Oct 2022	6:00 PM	E	1.7	
13 Oct 2022	7:00 PM	ESE	1.9	
13 Oct 2022	8:00 PM	ENE	1.2	
13 Oct 2022	9:00 PM	ENE	1.6	
13 Oct 2022	10:00 PM	S	1.5	
13 Oct 2022	11:00 PM	SE	0.3	
14 Oct 2022 14 Oct 2022	12:00 AM	ESE SSE	0.5	
14 Oct 2022	1:00 AM 2:00 AM	ENE	0.8	
14 Oct 2022	3:00 AM	ESE	0.3	
14 Oct 2022	4:00 AM	ENE	0.3	
14 Oct 2022	5:00 AM	E	0.4	
14 Oct 2022	6:00 AM	NE NE	1.5	
14 Oct 2022	7:00 AM	E	0.6	
14 Oct 2022	8:00 AM	ESE	0.8	
14 Oct 2022	9:00 AM	ENE	0.9	
14 Oct 2022	10:00 AM	ESE	0.4	
14 Oct 2022	11:00 AM	ENE	1.2	
14 Oct 2022	12:00 PM	ENE	0.2	
14 Oct 2022	1:00 PM	SE	1.8	
14 Oct 2022	2:00 PM	E	0.8	
14 Oct 2022	3:00 PM	ESE	0.7	
14 Oct 2022	4:00 PM	NE	0.1	
14 Oct 2022	5:00 PM	ENE	0.1	
14 Oct 2022	6:00 PM	Е	0.3	
14 Oct 2022	7:00 PM	NNW	0.2	
14 Oct 2022	8:00 PM	ENE	0.2	
14 Oct 2022	9:00 PM	N	0.1	
14 Oct 2022	10:00 PM	ENE	0.6	
14 Oct 2022	11:00 PM	Е	0.2	
15 Oct 2022	12:00 AM	Е	0.7	
15 Oct 2022	1:00 AM	Е	0.1	
15 Oct 2022	2:00 AM	ENE	0.8	
15 Oct 2022	3:00 AM	ENE	0.1	
15 Oct 2022	4:00 AM	Е	0.1	
15 Oct 2022	5:00 AM	NNE	0.2	

October 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
15 Oct 2022	6:00 AM	ENE	0.2	
15 Oct 2022	7:00 AM	ENE	0.2	
15 Oct 2022	8:00 AM	ENE	0.1	
15 Oct 2022	9:00 AM	ESE	0.1	
15 Oct 2022	10:00 AM	NE	0.4	
15 Oct 2022	11:00 AM	ENE	1.5	
15 Oct 2022	12:00 PM	ENE	0.2	
15 Oct 2022	1:00 PM	Е	1.2	
15 Oct 2022	2:00 PM	WSW	0.2	
15 Oct 2022	3:00 PM	N	0.2	
15 Oct 2022	4:00 PM	SW	0.1	
15 Oct 2022	5:00 PM	NE	0.6	
15 Oct 2022	6:00 PM	NE	0.2	
15 Oct 2022	7:00 PM	SE	0.2	
15 Oct 2022	8:00 PM	NE	0.1	
15 Oct 2022	9:00 PM	NE	0.2	
15 Oct 2022	10:00 PM	NE	1.8	
15 Oct 2022	11:00 PM	ENE	0.8	
16 Oct 2022	12:00 AM	NE	0.7	
16 Oct 2022	1:00 AM	ENE	0.1	
16 Oct 2022	2:00 AM	Е	0.1	
16 Oct 2022	3:00 AM	Е	0.3	
16 Oct 2022	4:00 AM	NE	0.2	
16 Oct 2022	5:00 AM	Е	0.2	
16 Oct 2022	6:00 AM	NNE	0.1	
16 Oct 2022	7:00 AM	ENE	0.6	
16 Oct 2022	8:00 AM	NE	0.2	
16 Oct 2022	9:00 AM	ESE	0.7	
16 Oct 2022	10:00 AM	NNE	0.2	
16 Oct 2022	11:00 AM	SSE	0.1	
16 Oct 2022	12:00 PM	ENE	0.1	
16 Oct 2022	1:00 PM	ENE	0.2	
16 Oct 2022	2:00 PM	Е	0.1	
16 Oct 2022	3:00 PM	ENE	0.1	
16 Oct 2022	4:00 PM	ENE	0.1	
16 Oct 2022	5:00 PM	ENE	0.1	
16 Oct 2022	6:00 PM	ESE	0.1	
16 Oct 2022	7:00 PM	SE	0.1	
16 Oct 2022	8:00 PM	Е	0.1	
16 Oct 2022	9:00 PM	ESE	0.1	
16 Oct 2022	10:00 PM	ENE	0.1	
16 Oct 2022	11:00 PM	NE	0.1	
17 Oct 2022	12:00 AM	ENE	0.2	
17 Oct 2022	1:00 AM	NE	0.4	
17 Oct 2022	2:00 AM	NE	2.8	
17 Oct 2022	3:00 AM	NE	0.5	
17 Oct 2022	4:00 AM	NNE	0.1	
17 Oct 2022	5:00 AM	NNE	0.1	
17 Oct 2022	6:00 AM	NNE	0.1	
17 Oct 2022	7:00 AM	Е	0.4	
17 Oct 2022	8:00 AM	NNE	0.2	
17 Oct 2022	9:00 AM	NNE	0.6	
17 Oct 2022	10:00 AM	Е	0.2	
17 Oct 2022	11:00 AM	NNE	1.8	
17 Oct 2022	12:00 PM	NNW	0.8	
17 Oct 2022	1:00 PM	NE	0.7	
17 Oct 2022	2:00 PM	NE	0.1	
	•			

	October 2022				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
17 Oct 2022	3:00 PM	WNW	0.1		
17 Oct 2022	4:00 PM	NE	0.3		
17 Oct 2022	5:00 PM	ENE	0.2		
17 Oct 2022	6:00 PM	ENE	0.2		
17 Oct 2022	7:00 PM	E	0.1		
17 Oct 2022	8:00 PM	NE	0.6		
17 Oct 2022	9:00 PM	NNE	0.2		
17 Oct 2022	10:00 PM	N	0.7		
17 Oct 2022	11:00 PM	ENE	0.2		
18 Oct 2022	12:00 AM	NE	0.2		
18 Oct 2022	1:00 AM	N	1.6		
18 Oct 2022	2:00 AM	Е	0.4		
18 Oct 2022	3:00 AM	ENE	0.3		
18 Oct 2022	4:00 AM	NE _	0.4		
18 Oct 2022	5:00 AM	E	0.3		
18 Oct 2022	6:00 AM	NE	0.3		
18 Oct 2022	7:00 AM	NE	0.2		
18 Oct 2022	8:00 AM	ENE	0.1		
18 Oct 2022	9:00 AM	NE -	0.2		
18 Oct 2022	10:00 AM	Е	0.2		
18 Oct 2022	11:00 AM	ENE	0.7		
18 Oct 2022	12:00 PM	NNW	0.1		
18 Oct 2022	1:00 PM	NE	0.2		
18 Oct 2022	2:00 PM	NE	0.2		
18 Oct 2022	3:00 PM	NNE	0.4		
18 Oct 2022	4:00 PM	ENE	0.2		
18 Oct 2022	5:00 PM	ENE	0.2		
18 Oct 2022	6:00 PM	ESE	0.2		
18 Oct 2022	7:00 PM	ENE	0.1		
18 Oct 2022	8:00 PM	ESE	0.2		
18 Oct 2022 18 Oct 2022	9:00 PM	NNE NE	1.8		
18 Oct 2022	10:00 PM 11:00 PM	NNE NNE	0.8		
19 Oct 2022	12:00 AM	NE NE	0.7		
19 Oct 2022	1:00 AM	NE NE	0.1		
19 Oct 2022	2:00 AM	NE NE	0.1		
19 Oct 2022	3:00 AM	ENE	0.3		
19 Oct 2022	4:00 AM	ESE	0.2		
19 Oct 2022	5:00 AM	SSE	0.1		
19 Oct 2022	6:00 AM	NE	0.6		
19 Oct 2022	7:00 AM	NE NE	0.2		
19 Oct 2022	8:00 AM	ENE	0.7		
19 Oct 2022	9:00 AM	ENE	0.4		
19 Oct 2022	10:00 AM	ESE	1.5		
19 Oct 2022	11:00 AM	NE NE	0.1		
19 Oct 2022	12:00 PM	N	0.4		
19 Oct 2022	1:00 PM	NE	0.1		
19 Oct 2022	2:00 PM	NW	0.1		
19 Oct 2022	3:00 PM	NE	0.1		
19 Oct 2022	4:00 PM	ENE	0.6		
19 Oct 2022	5:00 PM	NW	0.2		
19 Oct 2022	6:00 PM	ENE	0.4		
19 Oct 2022	7:00 PM	NNW	0.1		
19 Oct 2022	8:00 PM	NE	0.1		
19 Oct 2022	9:00 PM	NE	0.3		
19 Oct 2022	10:00 PM	ENE	0.6		
19 Oct 2022	11:00 PM	NNE	0.1		

October 2022				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
20 Oct 2022	12:00 AM	Е	0.1	
20 Oct 2022	1:00 AM	NE	0.1	
20 Oct 2022	2:00 AM	NE	0.1	
20 Oct 2022	3:00 AM	NNE	0.1	
20 Oct 2022	4:00 AM	NE	0.1	
20 Oct 2022	5:00 AM	N	0.2	
20 Oct 2022	6:00 AM	NE	0.1	
20 Oct 2022	7:00 AM	NNW	0.1	
20 Oct 2022	8:00 AM	ENE	0.2	
20 Oct 2022	9:00 AM	NNE	0.1	
20 Oct 2022	10:00 AM	NW	0.1	
20 Oct 2022	11:00 AM	NNE	0.1	
20 Oct 2022	12:00 PM	NE	0.1	
20 Oct 2022	1:00 PM	Е	0.1	
20 Oct 2022	2:00 PM	NNW	0.2	
20 Oct 2022	3:00 PM	N	0.1	
20 Oct 2022	4:00 PM	NNE	0.1	
20 Oct 2022	5:00 PM	N	0.1	
20 Oct 2022	6:00 PM	N	0.5	
20 Oct 2022	7:00 PM	W	0.6	
20 Oct 2022	8:00 PM	NE	0.3	
20 Oct 2022	9:00 PM	ENE	1.7	
20 Oct 2022	10:00 PM	NE	0.1	
20 Oct 2022	11:00 PM	NE	0.2	
21 Oct 2022	12:00 AM	ENE	0.1	
21 Oct 2022	1:00 AM	NE	0.2	
21 Oct 2022	2:00 AM	NE	0.3	
21 Oct 2022	3:00 AM	N	0.4	
21 Oct 2022	4:00 AM	NE	0.3	
21 Oct 2022	5:00 AM	NNE	0.1	
21 Oct 2022	6:00 AM	ESE	0.2	
21 Oct 2022	7:00 AM	ENE	0.2	
21 Oct 2022	8:00 AM	NNE	0.1	
21 Oct 2022	9:00 AM	E	1.4	
21 Oct 2022	10:00 AM	N	0.4	
21 Oct 2022	11:00 AM	ENE	1.0	
21 Oct 2022	12:00 PM	ENE	0.1	
21 Oct 2022	1:00 PM	NNE	0.2	
21 Oct 2022	2:00 PM	NE	1.6	
21 Oct 2022	3:00 PM	N	0.5	
21 Oct 2022	4:00 PM	NE NNE	0.2	
21 Oct 2022	5:00 PM	NNE	0.2	
21 Oct 2022	6:00 PM	ENE	0.1	
21 Oct 2022	7:00 PM	N NW/	0.1	
21 Oct 2022	8:00 PM	NW	0.1	
21 Oct 2022	9:00 PM	N NNE	0.1	
21 Oct 2022	10:00 PM	NNE NE	0.2	
21 Oct 2022	11:00 PM	NE ENE	0.2	
22 Oct 2022 22 Oct 2022	12:00 AM 1:00 AM	ENE NE	0.3	
			1.2	
22 Oct 2022	2:00 AM	NNE NNE		
22 Oct 2022	3:00 AM	NNE NNE	0.1	
22 Oct 2022	4:00 AM	NNE NE	0.1	
22 Oct 2022	5:00 AM	NE SE	1.2	
22 Oct 2022	6:00 AM	SE NE	0.1	
22 Oct 2022	7:00 AM	NE S		
22 Oct 2022	8:00 AM	S	0.3	

	October 2022					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
22 Oct 2022	9:00 AM	ENE	0.2			
22 Oct 2022	10:00 AM	NE	1.0			
22 Oct 2022	11:00 AM	Е	1.4			
22 Oct 2022	12:00 PM	NNE	0.9			
22 Oct 2022	1:00 PM	NNW	4.2			
22 Oct 2022	2:00 PM	NE	0.9			
22 Oct 2022	3:00 PM	ENE	0.9			
22 Oct 2022	4:00 PM	NNE	1.4			
22 Oct 2022	5:00 PM	N	0.7			
22 Oct 2022	6:00 PM	ENE	0.7			
22 Oct 2022	7:00 PM	N	0.1			
22 Oct 2022	8:00 PM	ENE	0.1			
22 Oct 2022	9:00 PM	Е	0.1			
22 Oct 2022	10:00 PM	NNE	0.1			
22 Oct 2022	11:00 PM	N	0.1			
23 Oct 2022	12:00 AM	NNE	0.1			
23 Oct 2022	1:00 AM	ENE	0.1			
23 Oct 2022	2:00 AM	Е	0.2			
23 Oct 2022	3:00 AM	NE	0.1			
23 Oct 2022	4:00 AM	ENE	0.1			
23 Oct 2022	5:00 AM	E	0.2			
23 Oct 2022	6:00 AM	NE	0.1			
23 Oct 2022	7:00 AM	ENE	0.1			
23 Oct 2022	8:00 AM	NE	0.1			
23 Oct 2022	9:00 AM	Е	0.1			
23 Oct 2022	10:00 AM	NE	0.1			
23 Oct 2022	11:00 AM	NE	0.2			
23 Oct 2022	12:00 PM	ENE	0.1			
23 Oct 2022	1:00 PM	NE	0.1			
23 Oct 2022	2:00 PM	E	0.1			
23 Oct 2022	3:00 PM	NE	0.5			
23 Oct 2022	4:00 PM	Е	0.8			
23 Oct 2022	5:00 PM	Е	0.4			
23 Oct 2022	6:00 PM	NNE	0.2			
23 Oct 2022	7:00 PM	NNE	1.3			
23 Oct 2022	8:00 PM	ESE	0.2			
23 Oct 2022	9:00 PM	ENE	0.1			
23 Oct 2022	10:00 PM	NNE	0.1			
23 Oct 2022	11:00 PM	NE	0.1			
24 Oct 2022	12:00 AM	ENE	0.1			
24 Oct 2022	1:00 AM	NE	0.1			
24 Oct 2022	2:00 AM	NW	0.1			
24 Oct 2022	3:00 AM	NE	0.2			
24 Oct 2022	4:00 AM	NE	0.1			
24 Oct 2022	5:00 AM	ENE	0.3			
24 Oct 2022	6:00 AM	ENE	0.3			
24 Oct 2022	7:00 AM	NE	0.1			
24 Oct 2022	8:00 AM	ENE	0.1			
24 Oct 2022	9:00 AM	ESE	0.1			
24 Oct 2022	10:00 AM	NE	0.1			
24 Oct 2022	11:00 AM	ENE	0.1			
24 Oct 2022	12:00 PM	ENE	0.1			
24 Oct 2022	1:00 PM	NNE	0.1			
24 Oct 2022	2:00 PM	ENE	0.2			
24 Oct 2022	3:00 PM	ENE	0.1			
24 Oct 2022	4:00 PM	ENE	0.1			
24 Oct 2022	5:00 PM	NE	0.2			

	October 2022					
	Wind Speed	and Directions				
Date	Time	Direction	Wind Speed m-s			
24 Oct 2022	6:00 PM	ENE	0.1			
24 Oct 2022	7:00 PM	ENE	0.1			
24 Oct 2022	8:00 PM	N	0.1			
24 Oct 2022	9:00 PM	NE	0.1			
24 Oct 2022	10:00 PM	NNE	0.1			
24 Oct 2022	11:00 PM	Е	0.2			
25 Oct 2022	12:00 AM	ENE	0.1			
25 Oct 2022	1:00 AM	ENE	0.1			
25 Oct 2022	2:00 AM	Е	0.1			
25 Oct 2022	3:00 AM	Е	0.1			
25 Oct 2022	4:00 AM	ENE	0.1			
25 Oct 2022	5:00 AM	ENE	0.1			
25 Oct 2022	6:00 AM	NE	0.1			
25 Oct 2022	7:00 AM	NE	0.1			
25 Oct 2022	8:00 AM	Е	0.1			
25 Oct 2022	9:00 AM	Е	0.1			
25 Oct 2022	10:00 AM	ENE	0.4			
25 Oct 2022	11:00 AM	ENE	0.3			
25 Oct 2022	12:00 PM	ENE	0.6			
25 Oct 2022	1:00 PM	ESE	0.1			
25 Oct 2022	2:00 PM	ENE	0.1			
25 Oct 2022	3:00 PM	SE	0.4			
25 Oct 2022	4:00 PM	ENE	0.4			
25 Oct 2022	5:00 PM	ENE	0.1			
25 Oct 2022	6:00 PM	ENE	0.1			
25 Oct 2022	7:00 PM	S	0.1			
25 Oct 2022	8:00 PM	Е	0.1			
25 Oct 2022	9:00 PM	Е	0.1			
25 Oct 2022	10:00 PM	Е	0.1			
25 Oct 2022	11:00 PM	ESE	0.1			
26 Oct 2022	12:00 AM	Е	0.1			
26 Oct 2022	1:00 AM	ENE	0.1			
26 Oct 2022	2:00 AM	ENE	0.1			
26 Oct 2022	3:00 AM	ENE	0.1			
26 Oct 2022	4:00 AM	ENE	0.1			
26 Oct 2022	5:00 AM	NE	0.1			
26 Oct 2022	6:00 AM	Е	0.1			
26 Oct 2022	7:00 AM	NE	0.1			
26 Oct 2022	8:00 AM	ENE	0.2			
26 Oct 2022	9:00 AM	ENE	0.1			
26 Oct 2022	10:00 AM	NE	0.1			
26 Oct 2022	11:00 AM	ENE	0.3			
26 Oct 2022	12:00 PM	ESE	0.1			
26 Oct 2022	1:00 PM	NE	0.1			
26 Oct 2022	2:00 PM	ENE	0.5			
26 Oct 2022	3:00 PM	ENE	0.1			
26 Oct 2022	4:00 PM	NNE	0.1			
26 Oct 2022	5:00 PM	ENE	0.1			
26 Oct 2022	6:00 PM	ENE	0.1			
26 Oct 2022	7:00 PM	ENE	0.1			
26 Oct 2022	8:00 PM	NE	0.1			
26 Oct 2022	9:00 PM	ENE	0.1			
26 Oct 2022	10:00 PM	ENE	0.1			
26 Oct 2022	11:00 PM	Е	0.1			
27 Oct 2022	12:00 AM	ENE	0.1			
27 Oct 2022	1:00 AM	Е	0.1			
27 Oct 2022	2:00 AM	ENE	0.1			

	October 2022					
	Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s			
27 Oct 2022	3:00 AM	NE	0.2			
27 Oct 2022	4:00 AM	E	0.1			
27 Oct 2022	5:00 AM	NNE	0.1			
27 Oct 2022	6:00 AM	NNE	0.1			
27 Oct 2022	7:00 AM	E	0.2			
27 Oct 2022	8:00 AM	ESE	0.1			
27 Oct 2022	9:00 AM	ENE	0.1			
27 Oct 2022	10:00 AM	ENE	0.1			
27 Oct 2022	11:00 AM	NE	0.1			
27 Oct 2022	12:00 PM	WSW	0.1			
27 Oct 2022	1:00 PM	SE	0.1			
27 Oct 2022	2:00 PM	ENE	0.1			
27 Oct 2022	3:00 PM	ENE	0.2			
27 Oct 2022	4:00 PM	ENE	0.1			
27 Oct 2022	5:00 PM	Е	0.1			
27 Oct 2022	6:00 PM	Е	0.2			
27 Oct 2022	7:00 PM	ENE	0.1			
27 Oct 2022	8:00 PM	SSE	0.1			
27 Oct 2022	9:00 PM	ENE	0.1			
27 Oct 2022	10:00 PM	ENE	0.1			
27 Oct 2022	11:00 PM	SSE	0.1			
28 Oct 2022	12:00 AM	ENE	0.2			
28 Oct 2022	1:00 AM	Е	0.1			
28 Oct 2022	2:00 AM	NE	0.1			
28 Oct 2022	3:00 AM	ENE	0.1			
28 Oct 2022	4:00 AM	NE	0.1			
28 Oct 2022	5:00 AM	ENE	0.1			
28 Oct 2022	6:00 AM	NNE	0.1			
28 Oct 2022	7:00 AM	ENE	0.1			
28 Oct 2022	8:00 AM	NE	0.1			
28 Oct 2022	9:00 AM	NE	0.1			
28 Oct 2022	10:00 AM	ENE	0.2			
28 Oct 2022	11:00 AM	ENE	0.1			
28 Oct 2022	12:00 PM	Е	0.1			
28 Oct 2022	1:00 PM	N	0.3			
28 Oct 2022	2:00 PM	Е	0.1			

	October 2022					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
28 Oct 2022	3:00 PM	ENE	0.1			
28 Oct 2022	4:00 PM	ENE	0.5			
28 Oct 2022	5:00 PM	ENE	0.1			
28 Oct 2022	6:00 PM	NE	0.1			
28 Oct 2022	7:00 PM	ENE	0.1			
28 Oct 2022	8:00 PM	ESE	0.1			
28 Oct 2022	9:00 PM	NE	0.2			
28 Oct 2022	10:00 PM	ENE	0.1			
28 Oct 2022	11:00 PM	ENE	0.2			
29 Oct 2022	12:00 AM	NNE	0.2			
29 Oct 2022	1:00 AM	ENE	0.2			
29 Oct 2022	2:00 AM	ENE	0.2			
29 Oct 2022	3:00 AM	ENE	0.2			
29 Oct 2022	4:00 AM	NE	0.2			
29 Oct 2022	5:00 AM	ENE	0.2			
29 Oct 2022	6:00 AM	NE	0.2			
29 Oct 2022	7:00 AM	Е	0.3			
29 Oct 2022	8:00 AM	ENE	0.2			
29 Oct 2022	9:00 AM	Е	0.2			
29 Oct 2022	10:00 AM	NNE	0.2			
29 Oct 2022	11:00 AM	Е	0.2			
29 Oct 2022	12:00 PM	WSW	0.1			
29 Oct 2022	1:00 PM	NNE	0.1			
29 Oct 2022	2:00 PM	NNE	0.1			
29 Oct 2022	3:00 PM	ENE	0.1			
29 Oct 2022	4:00 PM	N	0.1			
29 Oct 2022	5:00 PM	NE	0.1			
29 Oct 2022	6:00 PM	ENE	0.1			
29 Oct 2022	7:00 PM	N	0.1			
29 Oct 2022	8:00 PM	NE	0.2			
29 Oct 2022	9:00 PM	NE	0.1			
29 Oct 2022	10:00 PM	N	0.1			
29 Oct 2022	11:00 PM	NNW	0.3			
30 Oct 2022	12:00 AM	NNE	0.1			
30 Oct 2022	1:00 AM	NE	0.1			
30 Oct 2022	2:00 AM	NNE	0.5			
30 Oct 2022	3:00 AM	ENE	0.1			
30 Oct 2022	4:00 AM	NE	0.1			
30 Oct 2022	5:00 AM	ENE	0.1			
30 Oct 2022	6:00 AM	NE 	0.1			
30 Oct 2022	7:00 AM	NNE	0.1			
30 Oct 2022	8:00 AM	NE	0.1			
30 Oct 2022	9:00 AM	NNE	0.1			
30 Oct 2022	10:00 AM	E	0.2			
30 Oct 2022	11:00 AM	NE	0.2			
30 Oct 2022	12:00 PM	ENE	0.2			
30 Oct 2022	1:00 PM	E	0.1			
30 Oct 2022	2:00 PM	E	0.1			
30 Oct 2022	3:00 PM	NNE	0.1			
30 Oct 2022	4:00 PM	E	0.2			
30 Oct 2022	5:00 PM	ENE	0.1			
30 Oct 2022	6:00 PM	ENE	0.1			
30 Oct 2022	7:00 PM	ENE	0.1			
30 Oct 2022	8:00 PM	ENE	0.1			
30 Oct 2022	9:00 PM	ENE	0.1			
30 Oct 2022 30 Oct 2022	10:00 PM	NE ENIE	0.1			
50 OCt 2022	11:00 PM	ENE	0.1			

	October 2022					
	Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s			
31 Oct 2022	12:00 AM	ESE	0.1			
31 Oct 2022	1:00 AM	NE	0.1			
31 Oct 2022	2:00 AM	ENE	0.1			
31 Oct 2022	3:00 AM	ENE	0.1			
31 Oct 2022	4:00 AM	NNE	0.1			
31 Oct 2022	5:00 AM	ENE	0.1			
31 Oct 2022	6:00 AM	ENE	0.1			
31 Oct 2022	7:00 AM	ENE	0.1			
31 Oct 2022	8:00 AM	NE	0.1			
31 Oct 2022	9:00 AM	NE	0.2			
31 Oct 2022	10:00 AM	NNE	0.1			
31 Oct 2022	11:00 AM	Е	0.1			
31 Oct 2022	12:00 PM	Е	0.3			
31 Oct 2022	1:00 PM	SE	0.1			
31 Oct 2022	2:00 PM	S	0.1			
31 Oct 2022	3:00 PM	SE	0.5			
31 Oct 2022	4:00 PM	ENE	0.1			
31 Oct 2022	5:00 PM	Е	0.1			
31 Oct 2022	6:00 PM	ESE	0.1			
31 Oct 2022	7:00 PM	ENE	0.1			
31 Oct 2022	8:00 PM	Е	0.1			
31 Oct 2022	9:00 PM	ESE	0.1			
31 Oct 2022	10:00 PM	ENE	0.1			
31 Oct 2022	11:00 PM	NNE	0.1			

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Oct
2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct
				1-hr TSP X3		
				Noise		
			24-hrs TSP			
2.2	10.0	11.0	42.0	10.0	11.0	45.0
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct
			1-hr TSP X3			
			Noise			
		24-hrs TSP				
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct
		1-hr TSP X3				
	24-hrs TSP	Noise				24-hrs TSP
	24 113 151					24 1113 151
23-Oct	24-Oct	` 25-Oct	26-Oct	27-Oct	28-Oct	29-Oct
	1-hr TSP X3				1-hr TSP X3	
	Noise				1 III 101 110	
				24-hrs TSP		
30-Oct	31-Oct					
10 000	27 000					

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

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (November 2022)

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

AM4⁽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

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

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron **Tentative Impact Air and Noise Monitoring Schedule (December 2022)**

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

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

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (January 2023)

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

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

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

APPENDIX E - 1-HOUR TSP MONITORING RESULTS

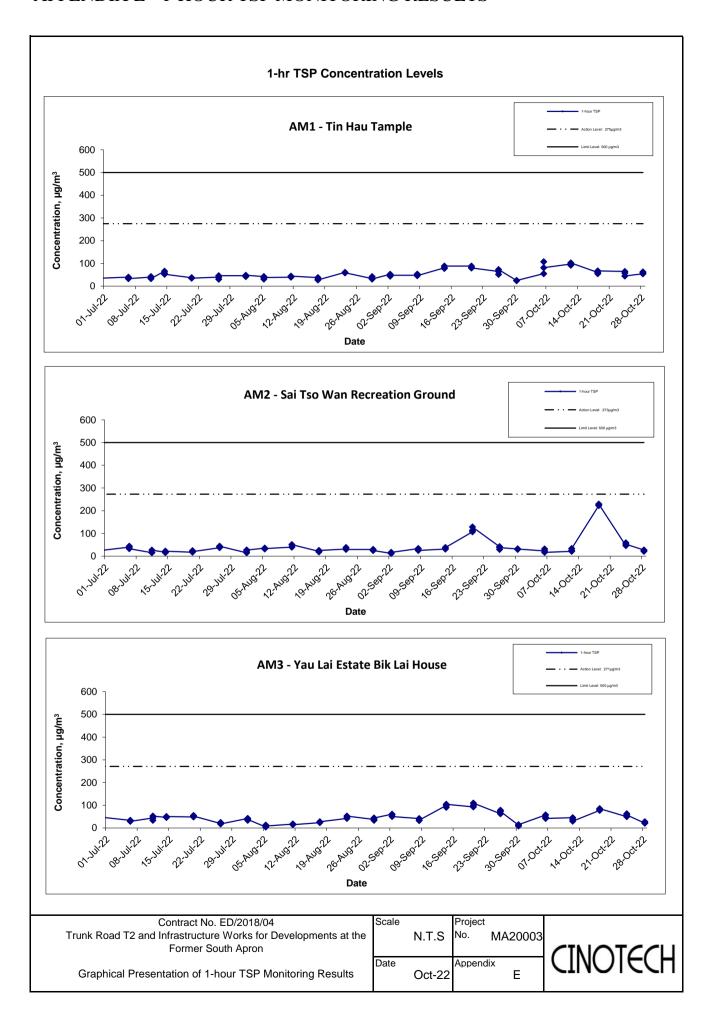
Location AM1 -	Location AM1 - Tin Hau Temple					
Date	Time	Weather	Particulate Concentration (µg/m³)			
6-Oct-22	13:00	Sunny	55.0			
6-Oct-22	14:00	Sunny	107.8			
6-Oct-22	15:00	Sunny	81.4			
12-Oct-22	13:00	Sunny	97.5			
12-Oct-22	14:00	Sunny	92.5			
12-Oct-22	15:00	Sunny	102.5			
18-Oct-22	12:30	Cloudy	60.0			
18-Oct-22	13:30	Cloudy	55.0			
18-Oct-22	14:30	Cloudy	67.5			
24-Oct-22	11:45	Cloudy	65.0			
24-Oct-22	12:45	Cloudy	57.5			
24-Oct-22	13:45	Cloudy	45.0			
28-Oct-22	13:15	Sunny	54.6			
28-Oct-22	14:15	Sunny	58.8			
28-Oct-22	15:15	Sunny	63.0			
		Average	70.9			
		Maximum	107.8			
		Minimum	45.0			

Location AM2 -	Location AM2 - Sai Tso Wan Recreation Ground					
Date	Time	Weather	Particulate Concentration (μg/m ³)			
6-Oct-22	11:02	Sunny	23.1			
6-Oct-22	12:02	Sunny	31.5			
6-Oct-22	13:02	Sunny	16.8			
12-Oct-22	10:00	Sunny	21.0			
12-Oct-22	11:00	Sunny	25.2			
12-Oct-22	12:00	Sunny	33.6			
18-Oct-22	16:30	Rainy	222.6			
18-Oct-22	17:30	Rainy	226.8			
18-Oct-22	18:30	Rainy	228.9			
24-Oct-22	9:00	Sunny	46.2			
24-Oct-22	10:00	Sunny	58.8			
24-Oct-22	11:00	Sunny	52.5			
28-Oct-22	15:40	Sunny	27.3			
28-Oct-22	16:40	Sunny	23.1			
28-Oct-22	17:40	Sunny	21.0			
		Average	70.6			
		Maximum	228.9			
		Minimum	16.8			

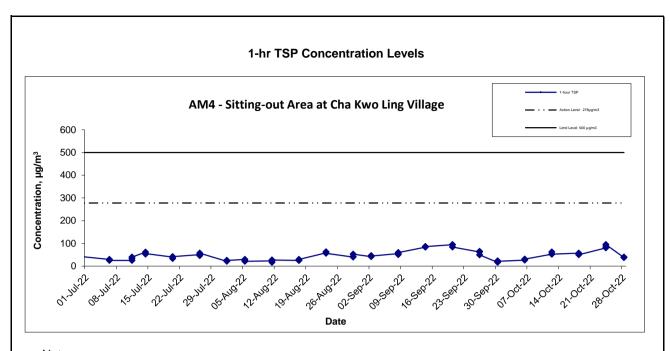
APPENDIX E - 1-HOUR TSP MONITORING RESULTS

Location AM3 -	Location AM3 - Yau Lai Estate Bik Lai House					
Date	Time	Weather	Particulate Concentration (µg/m ³)			
6-Oct-22	16:00	Sunny	57.2			
6-Oct-22	17:00	Sunny	46.2			
6-Oct-22	18:00	Sunny	41.8			
12-Oct-22	10:00	Sunny	45.0			
12-Oct-22	11:00	Sunny	37.5			
12-Oct-22	12:00	Sunny	30.0			
18-Oct-22	9:30	Sunny	77.5			
18-Oct-22	10:30	Sunny	82.5			
18-Oct-22	11:30	Sunny	85.0			
24-Oct-22	14:00	Cloudy	50.0			
24-Oct-22	15:00	Cloudy	62.5			
24-Oct-22	16:00	Cloudy	57.5			
28-Oct-22	11:55	Sunny	21.0			
28-Oct-22	12:55	Sunny	27.3			
28-Oct-22	13:55	Sunny	23.1			
		Average	49.6			
		Maximum	85.0			
		Minimum	21.0			

Location AM4 -	Sitting-out A	Area at Cha Kwo I	Ling Village
Date	Time	Weather	Particulate Concentration (μg/m ³)
6-Oct-22	9:00	Sunny	26.4
6-Oct-22	10:00	Sunny	28.6
6-Oct-22	11:00	Sunny	30.8
12-Oct-22	16:00	Sunny	52.5
12-Oct-22	17:00	Sunny	62.5
12-Oct-22	18:00	Sunny	52.5
18-Oct-22	15:45	Rainy	57.5
18-Oct-22	16:45	Rainy	55.0
18-Oct-22	17:45	Rainy	50.0
24-Oct-22	9:00	Cloudy	80.0
24-Oct-22	10:00	Cloudy	87.5
24-Oct-22	11:00	Cloudy	95.0
28-Oct-22	14:35	Sunny	37.8
28-Oct-22	15:35	Sunny	39.9
28-Oct-22	16:35	Sunny	37.8
		Average	52.9
		Maximum	95.0
		Minimum	26.4



APPENDIX E - 1-HOUR TSP MONITORING RESULTS



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

Graphical Presentation of 1-hour TSP Monitoring Results

Scale N.T.S Project No. MA20003

Date Oct-22 Appendix E

CINOTECH

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 Weight (g) Particulate		Elaps	Elapse Time		Flow Rat	/ Rate (m³/min.) Av.		Total vol	Conc.	
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
5-Oct-22	Sunny	3.3804	3.4460	0.0656	10698.5	10722.5	24.0	1.22	1.22	1.22	1756.2	37.4
11-Oct-22	Fine	3.3535	3.4633	0.1098	10728.5	10752.5	24.0	1.22	1.22	1.22	1760.3	62.4
17-Oct-22	Cloudy	3.3758	3.6320	0.2562	10752.5	10776.5	24.0	1.21	1.23	1.22	1758.2	145.7
22-Oct-22	Cloudy	3.3805	3.5095	0.1290	10776.5	10800.5	24.0	1.22	1.22	1.22	1755.0	73.5
27-Oct-22	Cloudy	3.3038	3.3939	0.0901	10800.5	10824.5	24.0	1.22	1.22	1.22	1760.3	51.2
											Min	37.4
											Max	145.7
											Average	74.0

Location AM2 - Sai Tso Wan Recreation Ground

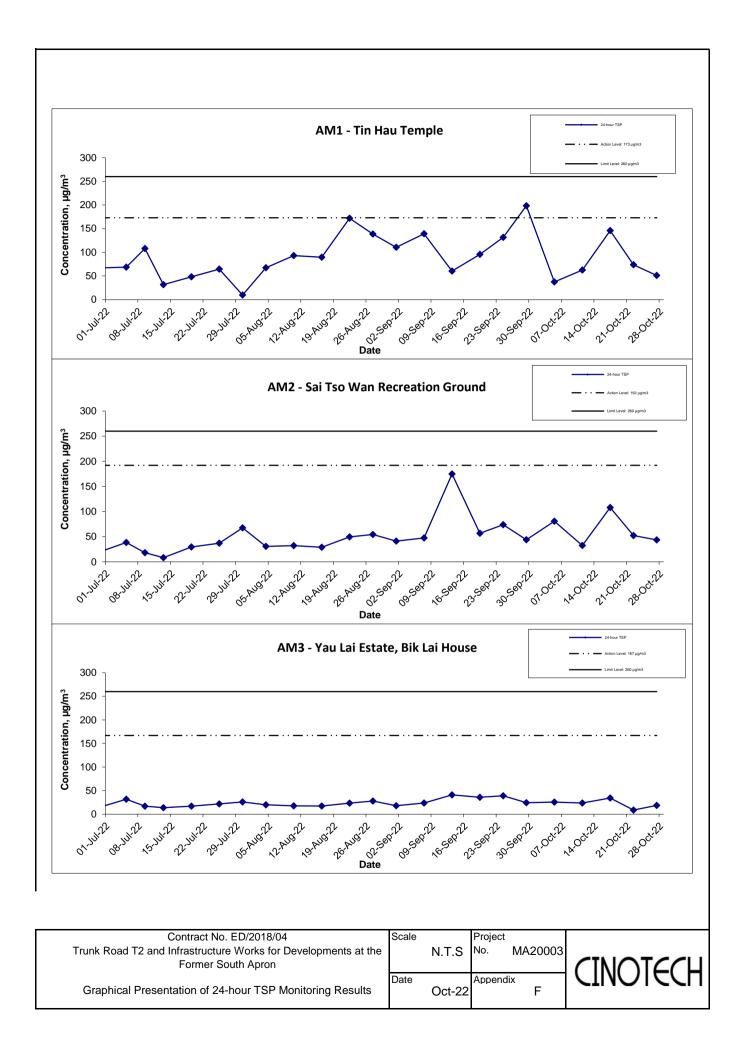
Start Date	Weather	er Filter Weight (g)		Particulate	Elaps	e Time	Sampling	Flow Rat	te (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
5-Oct-22	Sunny	3.3129	3.4547	0.1418	31831.2	31855.2	24.0	1.22	1.22	1.22	1756.6	80.7
11-Oct-22	Sunny	3.3127	3.3700	0.0573	31888.6	31912.6	24.0	1.23	1.22	1.22	1762.0	32.5
17-Oct-22	Fine	3.2888	3.4786	0.1898	31936.6	31960.6	24.0	1.21	1.23	1.22	1760.4	107.8
22-Oct-22	Fine	3.3700	3.4616	0.0916	31960.6	31984.6	24.0	1.22	1.22	1.22	1755.9	52.2
27-Oct-22	Sunny	3.3780	3.4547	0.0767	31984.6	32008.6	24.0	1.22	1.22	1.22	1762.0	43.5
											Min	32.5
											Max	107.8
											Average	63.4

Location AM3 - Yau Lai Estate, Bik Lai House

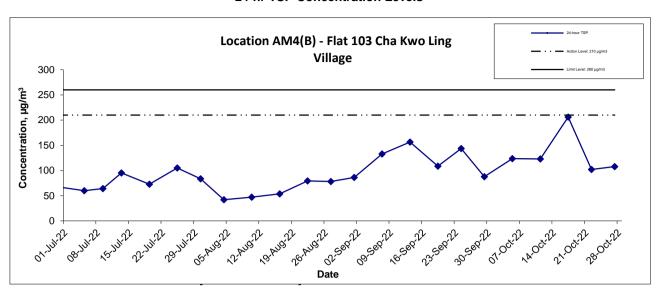
Start Date	Weather	Filter W	Filter Weight (g) Partic		Elaps	e Time	Sampling	Flow Rat	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
5-Oct-22	Sunny	3.3022	3.3474	0.0452	6113.7	6137.7	24.0	1.22	1.22	1.22	1757.5	25.7
11-Oct-22	Sunny	3.3299	3.3718	0.0419	6137.7	6161.7	24.0	1.22	1.22	1.22	1759.9	23.8
17-Oct-22	Sunny	3.3541	3.4144	0.0603	6161.7	6185.7	24.0	1.21	1.23	1.22	1757.5	34.3
22-Oct-22	Cloudy	3.3694	3.3848	0.0154	6185.7	6209.7	24.0	1.22	1.22	1.22	1753.8	8.8
27-Oct-22	Sunny	3.3585	3.3911	0.0326	6209.7	6233.7	24.0	1.22	1.22	1.22	1759.9	18.5
											Min	8.8
											Max	34.3
											Average	22.2

Location AM4(B) - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Filter W	Filter Weight (g) Particulate		Elaps	Elapse Time		Sampling Flow Rate (m³/min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
5-Oct-22	Sunny	3.3000	3.5186	0.2186	17127.9	17151.9	24.0	1.23	1.23	1.23	1766.8	123.7
11-Oct-22	Sunny	3.3109	3.5296	0.2187	17151.9	17175.9	24.0	1.24	1.23	1.24	1778.8	122.9
17-Oct-22	Fine	3.3010	3.6672	0.3662	17175.9	17199.9	24.0	1.23	1.24	1.23	1776.7	206.1
22-Oct-22	Cloudy	3.3239	3.5050	0.1811	17199.9	17223.9	24.0	1.23	1.23	1.23	1773.3	102.1
27-Oct-22	Sunny	3.3725	3.5640	0.1915	17223.9	17247.9	24.0	1.24	1.24	1.24	1778.8	107.7
											Min	102.1
											Max	206.1
											Average	132.5



24-hr TSP Concentration Levels



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 2.18.

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Graphical Presentation of 24-hour TSP Monitoring Results

Scale Project No. MA20003

Date Oct-22 Appendix F



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

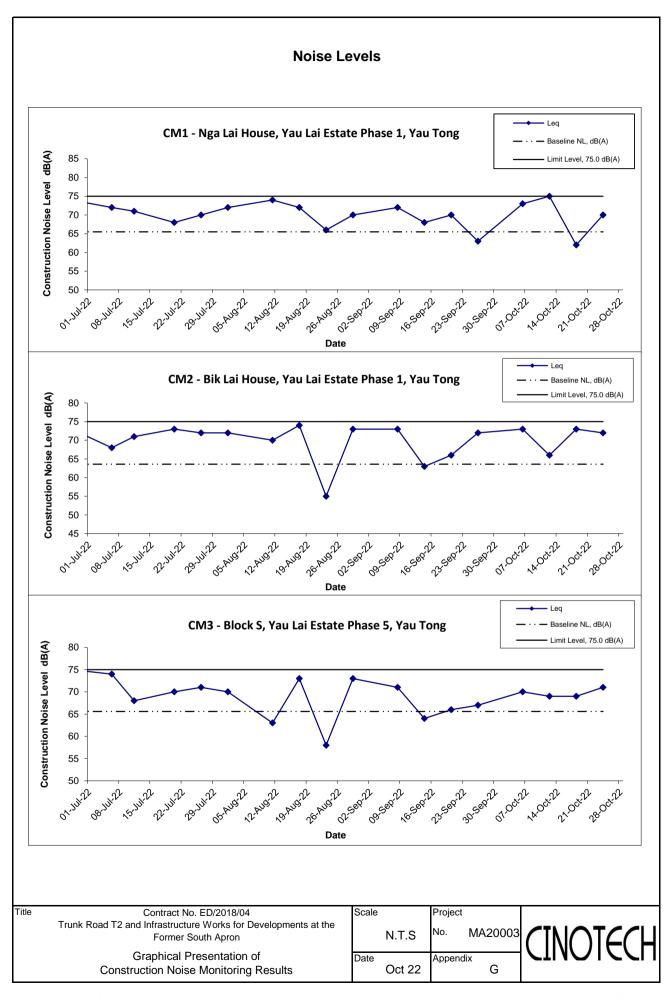
Location CM1 -	ocation CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong										
			Unit: dB (A) (30-min)								
Date	Time	Weather	Measured Noise Level Baseline Level Construction Noise Le								
Dato	111110	Wediner	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}				
6 Oct 2022	15:00	Sunny	73.4	76.3	71.3	65.5	73				
12 Oct 2022	10:35	Sunny	75.3	78.7	67.3	65.5	75				
18 Oct 2022	11:32	Cloudy	67.0	68.4	65.3	65.5	62				
24 Oct 2022	15:39	Cloudy	71.3	72.5	69.9	65.5	70				

Location CM2	ocation CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong									
					Uni	t: dB (A) (30-min)				
Date	Time	Weather	Meas	sured Noise	Construction Noise Level					
Date	Time	Weather	L _{ea}	L ₁₀	L 90	L _{ea}	L _{ea}			
6 Oct 2022	16:00	Sunny	73.8	76.1	70.7	63.6	73			
12 Oct 2022	11:20	Sunny	67.7	69.1	65.8	63.6	66			
18 Oct 2022	22:50	Cloudy	73.7	77.1	68.2	63.6	73			
24 Oct 2022	14:59	Cloudy	72.8	74.7	70.5	63.6	72			

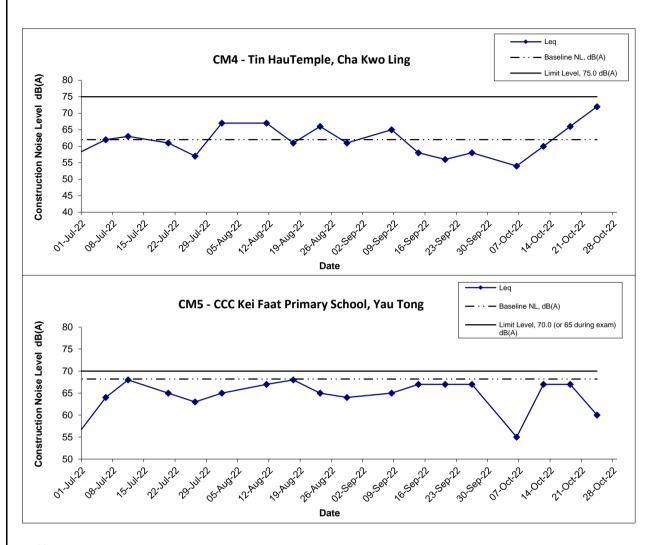
Location CM3	Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong										
				Unit: dB (A) (30-min)							
Date	Time	Weather	Measured Noise Level Baseline Level Construction Noise								
Baio	11110	Weather	_			_	_				
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}				
6 Oct 2022	14:00	Sunny	71.1	73.6	70.2	65.6	70				
12 Oct 2022	9:50	Sunny	70.3	72.1	68.1	65.6	69				
18 Oct 2022	10:05	Cloudy	70.7	73.0	67.4	65.6	69				
24 Oct 2022	14:13	Cloudy	71.8	73.4	70.1	65.6	71				

Location CM4 -	ocation CM4 - Tin Hau Temple, Cha Kwo Ling									
			Unit: dB (A) (30-min)							
Date	Time	Time Weather		sured Noise	Level	Baseline Level	Construction Noise Level			
Balo	111110	vvcatrici								
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
6 Oct 2022	9:00	Sunny	62.6	65.5	58.8	62.0	54			
12 Oct 2022	13:44	Sunny	59.7	61.7	55.5	62.0	60 Measured ≤ Baseline			
18 Oct 2022	13:32	Sunny	67.3	69.3	59.3	62.0	66			
24 Oct 2022	10:35	Cloudy	72.7	74.6	69.2	62.0	72			

Location CM5 -	ocation CM5 - CCC Kei Faat Primary School, Yau Tong									
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	Construction Noise Level						
Date	Time	vvcatrici								
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}			
6 Oct 2022	13:00	Sunny	68.4	70.4	65.6	68.2	55			
12 Oct 2022	9:10	Sunny	67.2	69.2	64.1	68.2	67 Measured ≤ Baseline			
18 Oct 2022	9:20	Cloudy	67.0	69.3	63.7	68.2	67 Measured ≤ Baseline			
24 Oct 2022	13:30	Cloudy	68.8	71.2	64.9	68.2	60			



Noise Levels



Notes:

Title

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

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

Graphical Presentation of Construction Noise Monitoring Results

Contract No. ED/2018/04

N.T.S

Scale

Project

N.T.S

No. MA20003

Date

Oct 22

G

Appendix

Oct 22

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	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	3.429	3.429	0.000	3.429	0.000	0.000	0.000	0.000	0.000	0.000	0.026			
Sub-total	18.228	18.228	0.000	18.228	0.000	0.000	0.000	0.000	0.000	3.200	0.114			
July	3.158	3.158	0.000	3.158	0.000	0.000	0.000	0.000	0.000	0.000	0.019			
August	4.160	4.160	0.000	4.160	0.000	0.000	0.000	0.000	0.000	3.810	0.021			
September	4.112	4.112	0.000	4.112	0.000	0.000	0.000	0.000	0.000	0.000	0.021			
October	4.206	4.206	0.000	4.206	0.000	0.000	0.000	0.000	0.000	0.000	0.021			
November														
December														
Total	33.864	33.864	0.000	33.864	0.000	0.000	0.000	0.000	0.000	7.010	0.196			

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

Checklist Reference Number	221006
Date	6 October 2022 (Thursday)
Time	09:20 – 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	
221006 - R1	Drip tray should be provided to prevent leaked oil from entering drainage system.	E9
	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.:220929), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	6 October 2022
Checked by	Karina Chan	Zalle	7 October 2022

Weekly Site Inspection Record Summary

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

Inspection Information

Checklist Reference Number	221013
Date	13 October 2022 (Thursday)
Time	09:20 – 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.:221006), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	13 October 2022
Checked by	Karina Chan	Zalle	14 October 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	221020
Date	20 October 2022 (Thursday)
Time	09:20 – 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	
221020 - R2	Unclear NRMM label was observed on the vehicle.	C21
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	E8
221020 - R1	The waste oil was observed on the floor.	
	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.:221013), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	20 October 2022
Checked by	Karina Chan	Zalle	21 October 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	221027
Date	27 October 2022 (Thursday)
Time	09:20 – 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.:221020), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex Ng	Alex NG	27 October 2022
Checked by	Karina Chan	Zalle	28 October 2022

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

 $oldsymbol{\checkmark}$ Observation/reminder was made during site audit but improved/rectified by the contractor in the next site audit

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						
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
S3.8.1	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
S3.8.7	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 covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. • Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.	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 diesel 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				APCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
S4.9	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 effectively 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/m³, with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$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?
\$5.8.3	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 • before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the site curtain.	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.	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	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$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
S5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.8 S5.8.8	use of sediment traps; and adequate maintenance of drainage systems to prevent flooding and overflow.	runon and rand-based construction				
\$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 Al 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
\$5.8.15	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
\$5.8.16	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?
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.22	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
S5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
S5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of silt in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$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
S5.8.28	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

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S5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site nn-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
S5.8.33	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
S5.8.35	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
S5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.39	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

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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 wegetation 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

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\$6.8.5	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
\$6.8.6	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
\$6.8.8	Measure to Minimize Impact on Corals Coral translocation It is recommended to translocate the affected coral colonies, except the locally common Oulastrea crispata, 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 coral survey, translocation 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. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of 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 colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A

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\$6.8.9 \$6.8.10	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
S6.8.11	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 (
\$8.6.3	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	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

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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
\$8.6.7	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	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
\$8.6.17 - \$8.6.20	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 kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on site.	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

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S8.6.24 - S8.6.28/ Waste Management Plan	The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excaveted sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites should be equipped with tight fitting seals to prevent leakage and should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated monitoring dev	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	• 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

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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	Impact on Cultural Heritage (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 5mm/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
	Methane 0-100% LEL and 0100% √/v Carbon dioxide 0-100% Oxygen 0-21%		Contractor 1so Wan Landhii 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 set down clearly the requirements for continuous monitoring for methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person, in attendance outside the 'confined area', who should be responsible for reviewing the gas measurements as they are made, and who should have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas. • Where there are any temporary site offices, or any	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?
\$11.5.10 \$11.5.25	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 ignition of gas in the vicinity of excavations. Safety notices (in Chinese and English) should be posted at prominent position around the site warning danger of the potential hazards. 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 preven thazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Rong).					
	 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. 					
S11.5.26 - S11.5.31	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 determined prior to the commencement of works, but should be at least once per day, and be carried out by a suitably qualified or qualified person before starting the work of the day. Measurements shall be recorded and kept as a record of safe working conditions with copies of the site diary and submitted to the Engineer for approval. The Contractor may elect to carry out monitoring via an automated monitoring system.	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				
	Damaged NRMM label was observed on the PME	The damaged NRMM label should be replaced by the valid NRMM label	20 Oct 2022	✓
Construction N	Noise Impact			
	-			
Water Quality	Impact			
Ecological Imp	act			
Fisheries Impa	ct			
Waste Manage	ment			
S8.6.8	Refuse should be removed regularly	The waste was accumulated in the bin	29 Sep 2022	✓
	Drip tray should be provided to prevent leaked oil	Drip tray was not observed around the oil container	29 Sep 2022	√
	Drip tray should be provided to prevent leaked oil	Drip tray was not observed around the oil container	6 Oct 2022	✓
S8.6.3	Regular cleaning and maintenance the oil interceptor	The waste oil was observed on the floor.	20 Oct 2022	✓
Landscape and	l Visual Impact	,		
Landfill Gas H	azards			

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

TAN ZIAN IGE		ACT	TION	
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 working procedures to determine possible mitigation to be implemented;
6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;
7. Assess effectiveness of Contractor's remedial actions and

keep IEC, EPD and ER informed

If exceedance stops, cease additional monitoring.

of the results;

- 4. Ensure remedial measures properly implemented;
- If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.
- 4. Resubmit proposals if problem still not under control;
- 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

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

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

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

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

Table M1 Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution Received in the Reporting Period

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N08	Portion T1	19-Oct- 22	Complainant informed that the groundborne noise was heard at his/her residence (near Cha Kwo Ling Main Road) everyday, including the public holiday. Also, the complainant further informed that recently they continued to hear groudborne noise which had caused serious noise nuisance to the residents	Noise	 A valid CNP was hold and 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 and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), 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

Reporting Month: October 2022

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N09	Portion T1	28-Oct- 22	Complainant informed that the underground breaking noise was heard at her residence (near Cha Kwo Ling Main Road) after the blasting work every day.	Noise	 A valid CNP was hold and 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 and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	Closed

Remarks: Two (2) environmental complaint were received in the reporting period, no environmental warning/ summon and prosecution were received in the reporting period.

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

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

Table M2 Cumulative Log for 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	6 March 2021	The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	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

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
					 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	 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

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

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.	Noise	 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 were complied with the relevant 	Closed
#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	 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	Nature	Investigation/Mitigation Action	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

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

Appendix N – Summary of Exceedance

Reporting Period: October 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

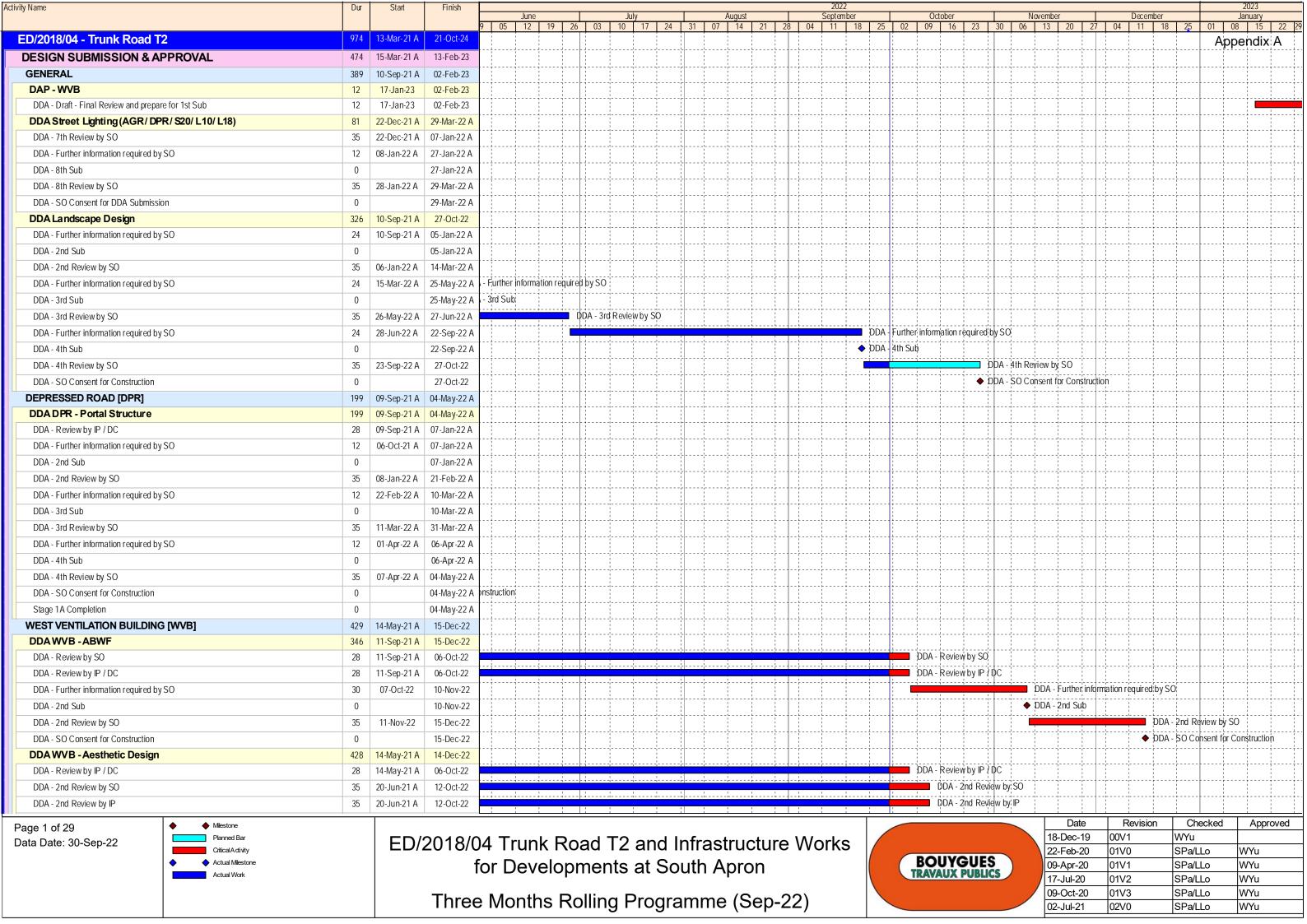
Two (2) Action Level exceedance was recorded due to the documented complaint in the reporting month.

No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

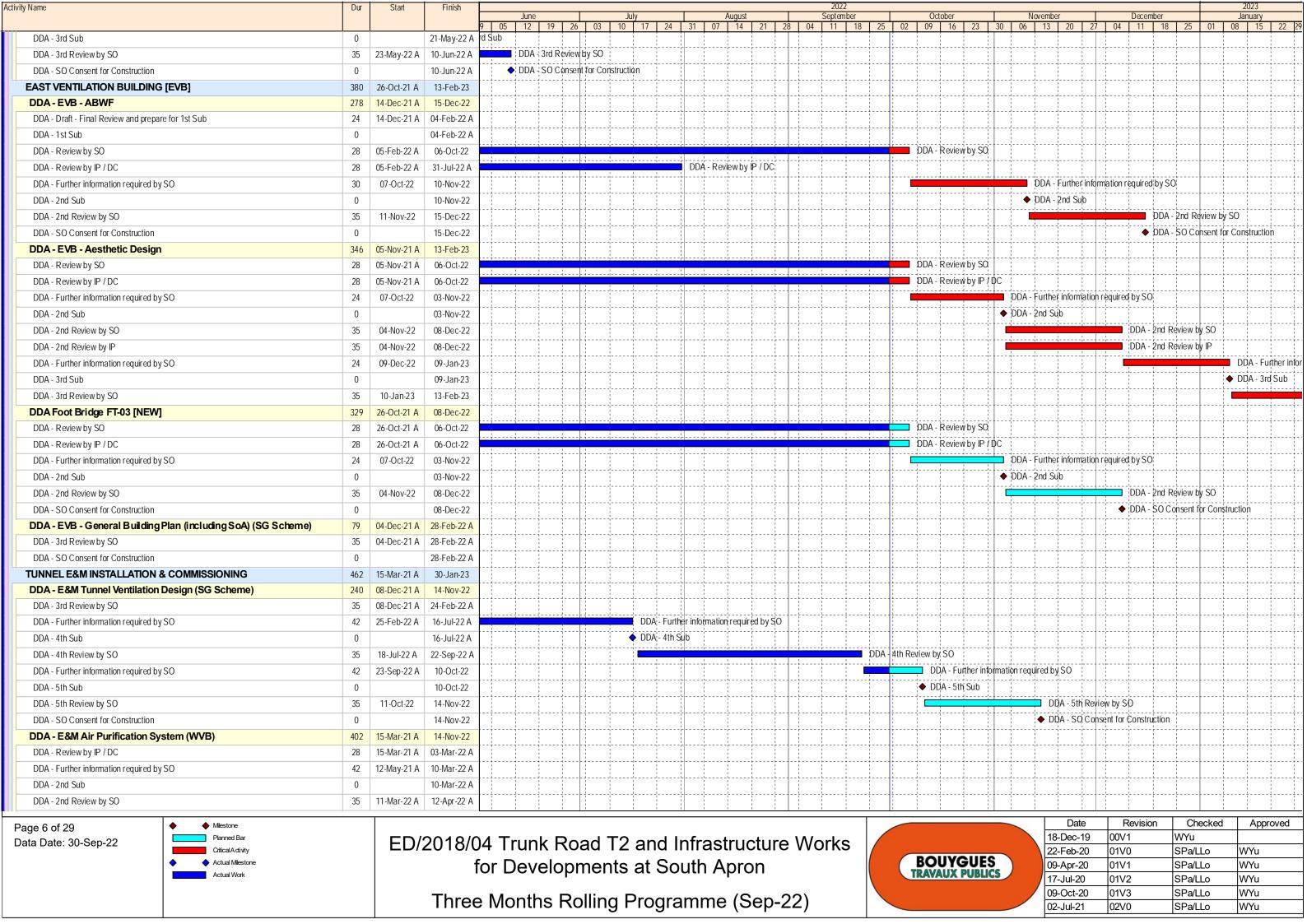


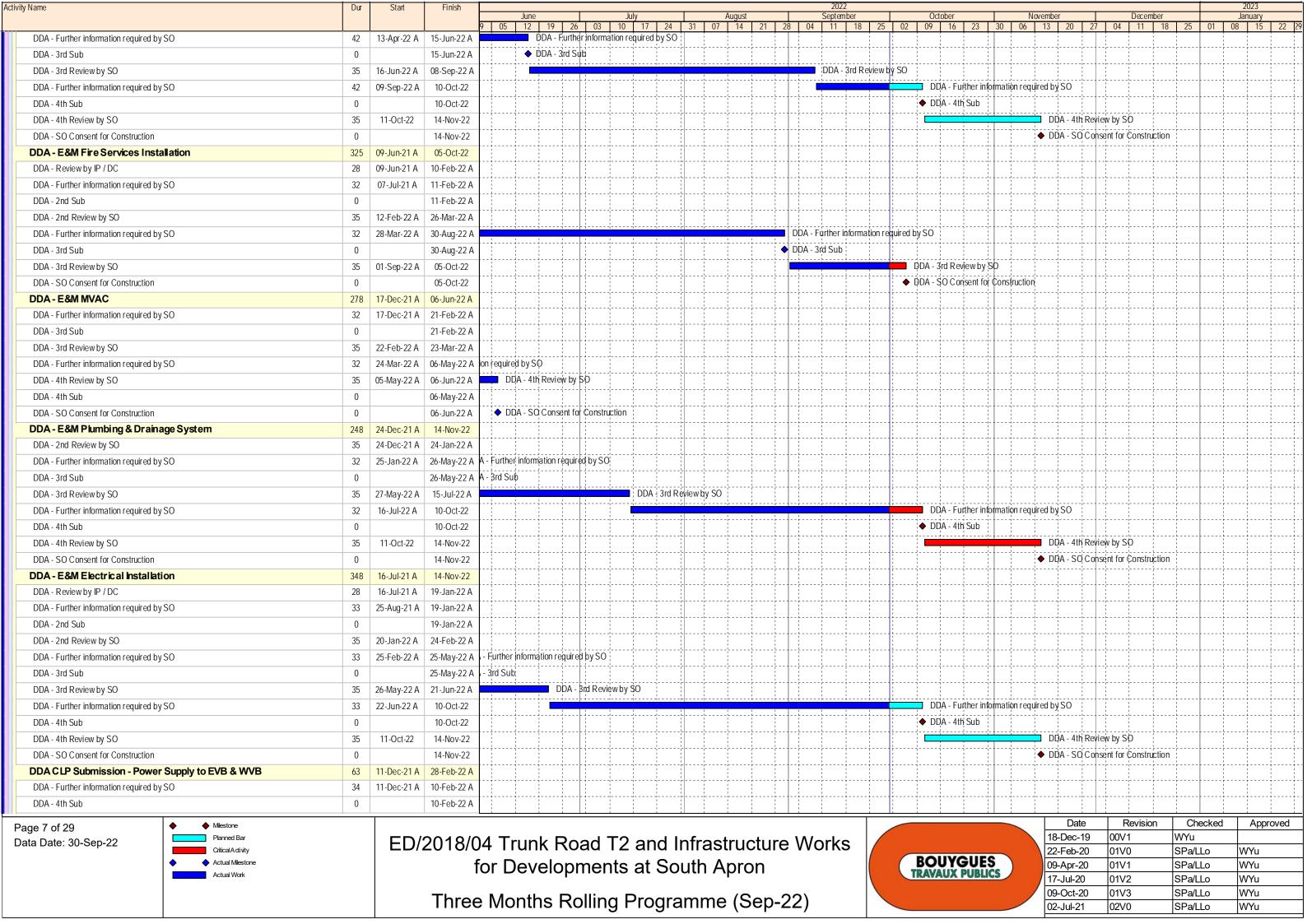
Activity Name	Dur	Start	Finish																								
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DDA - Further information required by SO	24	13-Oct-22	09-Nov-22			-																nation requi					
DDA - 3rd Sub	0		09-Nov-22	li	jj					j j			1		- -					DDA - 3rd	d Sub		-				-
DDA - 3rd Review by SO	35	10-Nov-22	14-Dec-22		1										·				-			· -ii ·		rd Revie	ew by SO		
DDA - SO Consent for Construction	0		14-Dec-22												1								Ф рра - 9	O Cons	sent for Co	nstruction	
SOUTH APRON ROAD WORKS	343	29-Oct-21 A	28-Dec-22	 	†											} }											
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking and Traffic	172	11-Nov-21 A	08-Jun-22 A		11								-11														
DDA - Further information required by SO	12	11-Nov-21 A	01-Apr-22 A	† <u>†</u>									-1										 				
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DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (SG Scheme		06-Nov-21 A										ļļ				¦				!!							1 1
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DDA - Cross Passage - CP TBM Confinement		01-Sep-21 A		ļļ													ļ			<u> </u>							ļ
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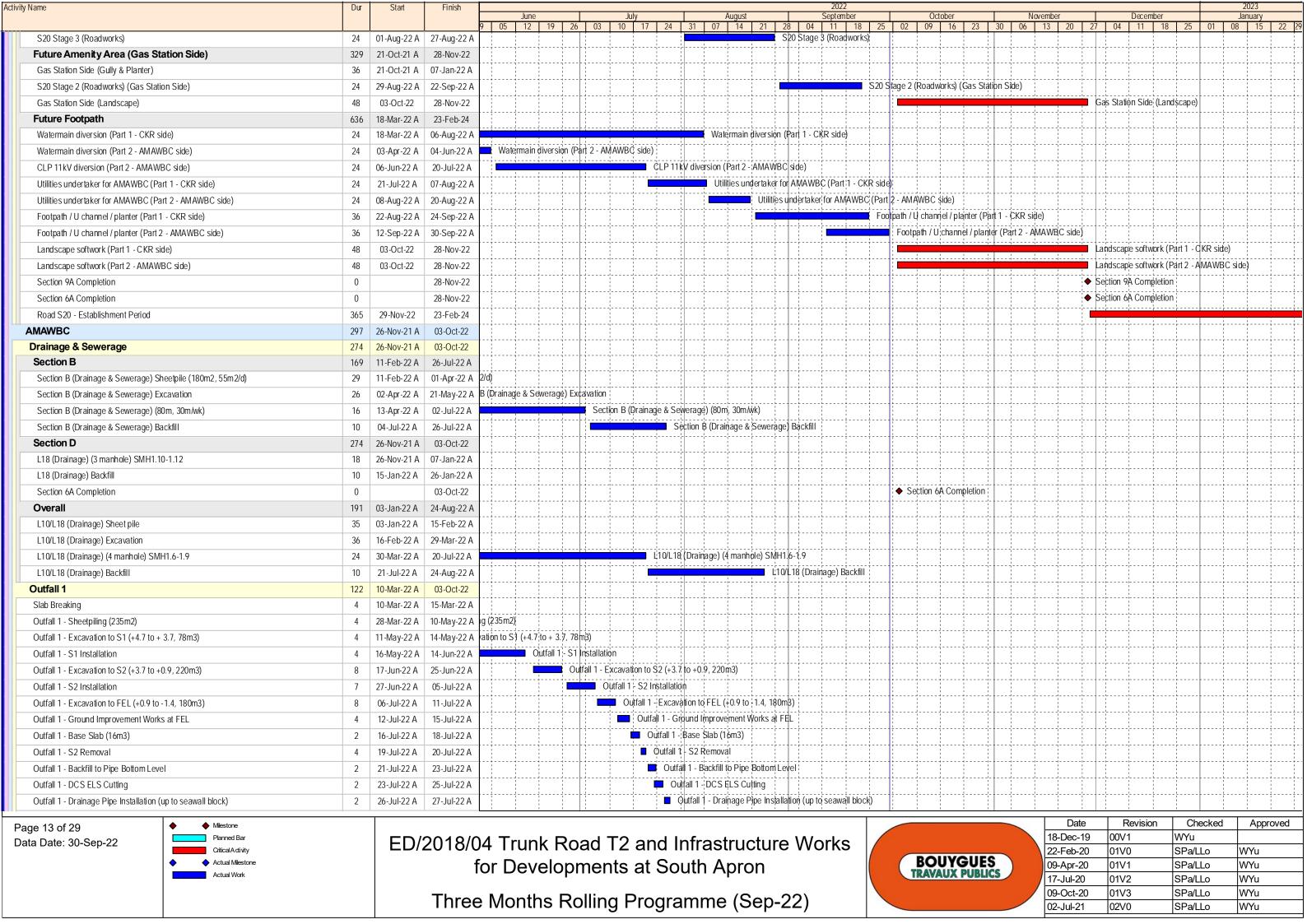
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DDA - E&M Tunnel Lighting Design	272	29-Nov-21 A	14-Nov-22																							
DDA - Draft - Final Review and prepare for 1st Sub	12	29-Nov-21 A	13-Jan-22 A																							
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AIP - Civil Provision for TCSS	61	14-Nov-22	30-Jan-23										} 	ļ <u>-</u>		-										
AIP - Draft - Preparation by Designer	22	14-Nov-22	08-Dec-22										<u> </u>									AIP - D	¦ raft - Prer	oaration b	y:Designer	
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AIP - Update & prepare for 2nd Sub	6	20-Jan-23	30-Jan-23													-										
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PAYMENT MILESTONE	568	13-Jan-22 A	30-Jan-23																							
1.1 Preliminaries and General Requirements			13-Apr-22 A										}													
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 26	0	13-Jair-22 A	13-Apr-22 A																							
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 27	0		14-Feb-22 A													-						-				
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 28	0		14-Feb-22 A 14-Mar-22 A													-										
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 29	0		13-Apr-22 A	entre 1	Jonth 20											-										
3.1 for Trunk Road T2	_	13-Jan-22 A	13-Apr-22 A													-			+							
3.1.50 Approval AIP for completion of SUS	0	19-Jail-22 A	13-Aug-22 A 13-Jan-22 A												!	-			+							
3.1 .52 Approval DDA for completion of SUS	0		13-Jan-22 A 13-Aug-22 A								♦ 3	1 52 Δnnr	rovald	DA for completion o	ofSUS	-									$-\frac{1}{1}$	
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (Souths	0	13-Jan-22 A	13-Aug-22 A 13-Jan-22 A								·											-				
3.3 .16 Approval DDA for waterworks	0	13 Jairzz A	13-Jan-22 A													-										
3.4 for the Remaining Stage 5 Infrastructure Works - FT02	_	13-Jan-22 A	14-Mar-22 A													-										
3.4.10 Approval DDA for modification of existing footbridge	0	IJ JAIFZZ M	13-Jan-22 A																							
3.4 .12 Approval Demolition plan for existing footbridge	0		14-Mar-22 A													-			+							
3.4 .13 Complete whole activities of this cost centre	0		14-Mar-22 A													-									$-\frac{1}{\frac{1}{1}}\frac{1}{\frac{1}{1}}$	
3.5 for Lam Chak Street and Kai Hing Road	0	13-Sep-22 A	30-Sep-22													-									-	
3.5 .8 Approval DDA for roadworks	0	10 30p-22 A	13-Sep-22 A											♦ 3.5.8 <i>A</i>	¦ Approv	al DDA fo	r roadwo	rks !								
S. S. S. Approval Service roughlones			10 Oop 22 A	<u> </u>	1 1	!	1 !		- !					\$ 5.p.07	- I-I-I-I	25,710	Jacob					1		<u> </u>		1 1
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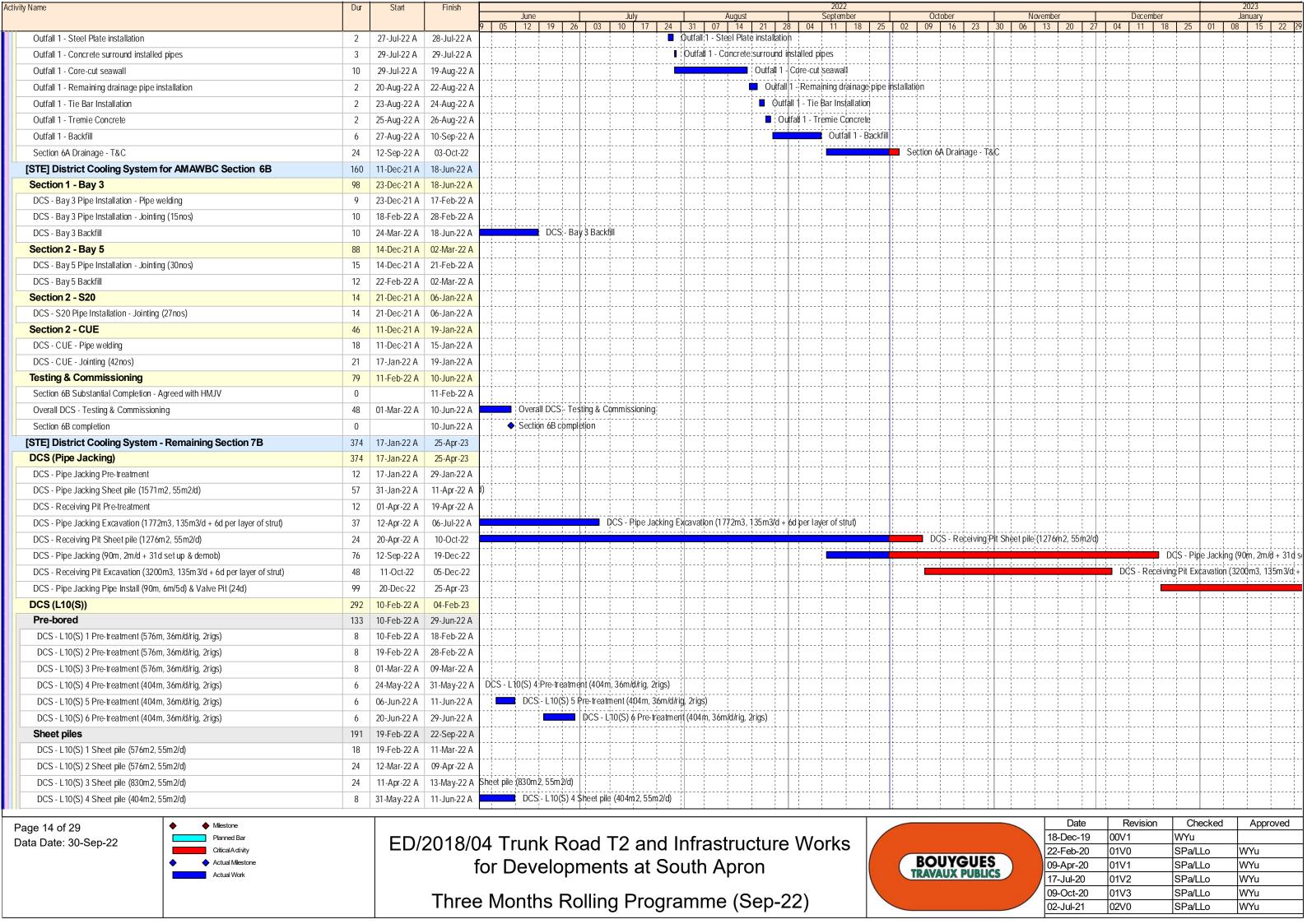
Activity Name	Dur	Start Finish	2022	2023	
			June July August September October November December 9 05 12 19 26 03 10 17 24 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25	January 01 08 15	22 29
3.5 .12 Approval DDA for stormwater drainage works	0	13-Sep-22 A	◆ 3.5.12 Approval DDA for stormwater, drainage works	0. 00 10	
3.5 .20 Approval DDA for sewage works	0	13-Sep-22 A	◆ 3.5 .20 Approval DDA for sewage works		
3.5 .24 Approval DDA for landscape works	0	13-Sep-22 A	◆ 3.5 .24 Approval DDA for landscape works		
3.5 .16 Approval DDA for waterworks	0	30-Sep-22	♦ 3.5 .16 Approval D DA for waterworks		1 1
3.5.25 Complete whole activities of this cost centre	0	30-Sep-22	♦ 3.5.25 Complete whole activities of this cost centre		
3.6 for Road L10 (Northern Section)	0	30-Sep-22 30-Sep-22			
3.6 .8 Approval DDA for Road L10 (northern section)	0	30-Sep-22*	◆ 3.6.8 Approval DDA for Road L10 (northern section)		· -
3.6.9 Complete whole activities of this cost centre	0	30-Sep-22*	◆ 3.6.9;Complete whole activities of this cost centre		· i i -
3.9 for the Pipelines for District Cooling System for Commissioning of	0	13-Sep-22 A 13-Sep-22 A			
3.9.11 Submit O&M manual for DCS pipelines	0	13-Sep-22 A	◆ 3.9.11 Submit Q&M manual for DCS pipelines		
4.1 South Apron Adits from Interface with the Depressed Road to the Ir	32	15-Dec-22 28-Jan-23			1 1
4.1.1 Complete mobilization of excavation equipment 0.5	0	15-Dec-22	◆ 4.1.1 Comple	ete mobilization of exc	avation ec
4.1.3 Complete excavation of South Apron Adist 0.2	0	31-Dec-22		♦ 4.1.3 Complete ex	cavation o
4.1.4 Complete excavation of South Apron Adist 0.4	0	04-Jan-23		◆ 4,1.4 Complet	
4.1.8 Complete South Apron Adist permanent structure 0.2	0	05-Jan-23		◆ 4.1.8 Comple	ete South A
4.1.5 Complete excavation of South Apron Adist 0.6	0	06-Jan-23		◆ 4.1.5 Compl	ete excava
4.1.6 Complete excavation of South Apron Adist 0.8	0	09-Jan-23		◆ 4.1 6 Cor	nplete exc
4.1.7 Complete excavation of South Apron Adist 1	0	10-Jan-23		◆ 4.1.7 Co	implete ex
4.1.9 Complete South Apron Adist permanent structure 0.4	0	19-Jan-23		→	4.1.9 Con
4.1.13 Complete backfill at South Apron Adist 0.2	0	28-Jan-23		1	• 4
4.2 Depressed Road and Remaining Ventilation Adits at the South Apro	0	30-Sep-22 30-Sep-22			
4.2 .23 Complete foundation of Depressed Road by length 1	0	30-Sep-22*	♦ 4.2 .23 Complete foundation of Depressed Road by length 1		
4.2 .31 Complete permanent structure of Depressed Road by length 1	0	30-Sep-22*	♦ 4.2 .31 Complete permanent structure of Depressed Road by length 1		
5.2 Completion of SUS	88	08-Oct-22 26-Jan-23			
5.2 .5 Complete overhead ventilation duct slab by length 0.1	0	08-Oct-22	◆ 5.2.5 Complete overhead ventilation duct slab by length 0.1		
5.2 .6 Complete overhead ventilation duct slab by length 0.2	0	31-Oct-22	5.2, 6 Complete overhead ventilation duct slab by length (D.2	
5.2 .7 Complete overhead ventilation duct slab by length 0.3	0	22-Nov-22	◆ 5.2.7 Complete;overhead ventilatio	n duct slab by length	0.3
5.2 .8 Complete overhead ventilation duct slab by length 0.4	0	14-Dec-22	◆ 5,2 .8 Comple	ete overhead ventilatio	n duct sla
5.2 .9 Complete overhead ventilation duct slab by length 0.5	0	07-Jan-23		♦ 5.2 .9 Com	plete overl
5.2 .29 Complete remaining works in SUS by length 0.5	0	07-Jan-23		♦ 5.2 .29 Cor	ήplete rem
5.2 .15 Complete Thermal barrier by length 0.1	0	26-Jan-23			♦ 5.2
6.2 TBM Tunnel	76	26-Oct-22 30-Jan-23			· -
6.2 .7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0	26-Oct-22	♦ 6.2.7 Complete excavation & installation of TBM Tunnel lining	by length 0.35	
6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0	09-Nov-22	♦ 6.2.8 Complete excavation & installation of TBM	Tunnel lining by leng	th 0.4
6.2 .24 Complete TBM Tunnel waterproofing 0.4	0	09-Nov-22	♦ 6.2 .24 Complete TBM Tunnet waterproofing 0.4		
6.2 .31 Complete TBM Tunnel overhead ventilation duct slab 0.1	0	14-Nov-22	♦ 6.2; 31 Complete; TBM Tunnel överhead ve	ntilation duct slab 0.1	1
6.2 .9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0	19-Nov-22	♦ 6.2.9 Complete excavation & installati	on of TBM Tunnel lini	ng by leng
6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5	0	01-Dec-22	♦ 6.2.10;Complete excavation	on & installation of TB	M Tunnel
6.2 .25 Complete TBM Tunnel waterproofing 0.5	0	01-Dec-22	♦ 6.2 .25 Complète TBM Tur		
6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55	0	08-Dec-22	♦ 6.2.11 Complète ex	kdavation & installatio	n of TBM 1
6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6	0	15-Dec-22	♦ 6.2.12 Com	plete excavation & ins	tallation of
6.2 .26 Complete TBM Tunnel waterproofing 0.6	0	15-Dec-22	♦ 6.2.26;Com	blete TBM Tunnel wa	terproofing
6.2 .41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1	0	17-Dec-22		mplete TBM Tunnel T	. † †
6.2 .32 Complete TBM Tunnel overhead ventilation duct slab 0.2	0	23-Dec-22	♦6.2.	32 Complete TBM Tu	nnel overh
6.2 .13 Complete excavation & installation of TBM Tunnel lining by length 0.65	0	28-Dec-22		62.13 Complete exc	. i i
6.2 .14 Complete excavation & installation of TBM Tunnel lining by length 0.7	0	09-Jan-23		◆ 6.2.14 C	
6.2 .27 Complete TBM Tunnel waterproofing 0.7	0	09-Jan-23		◆ 6.2, 27 C	.
6.2 .15 Complete excavation & installation of TBM Tunnel lining by length 0.75	0	30-Jan-23			•
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◆ Actual Milestone		1	or Developments at South Apron BOUYGUES 09-Apr-20 01V1 SPa		
Actual Work			TRAVAUX PUBLICS 17-Jul-20 01V2 SPa		
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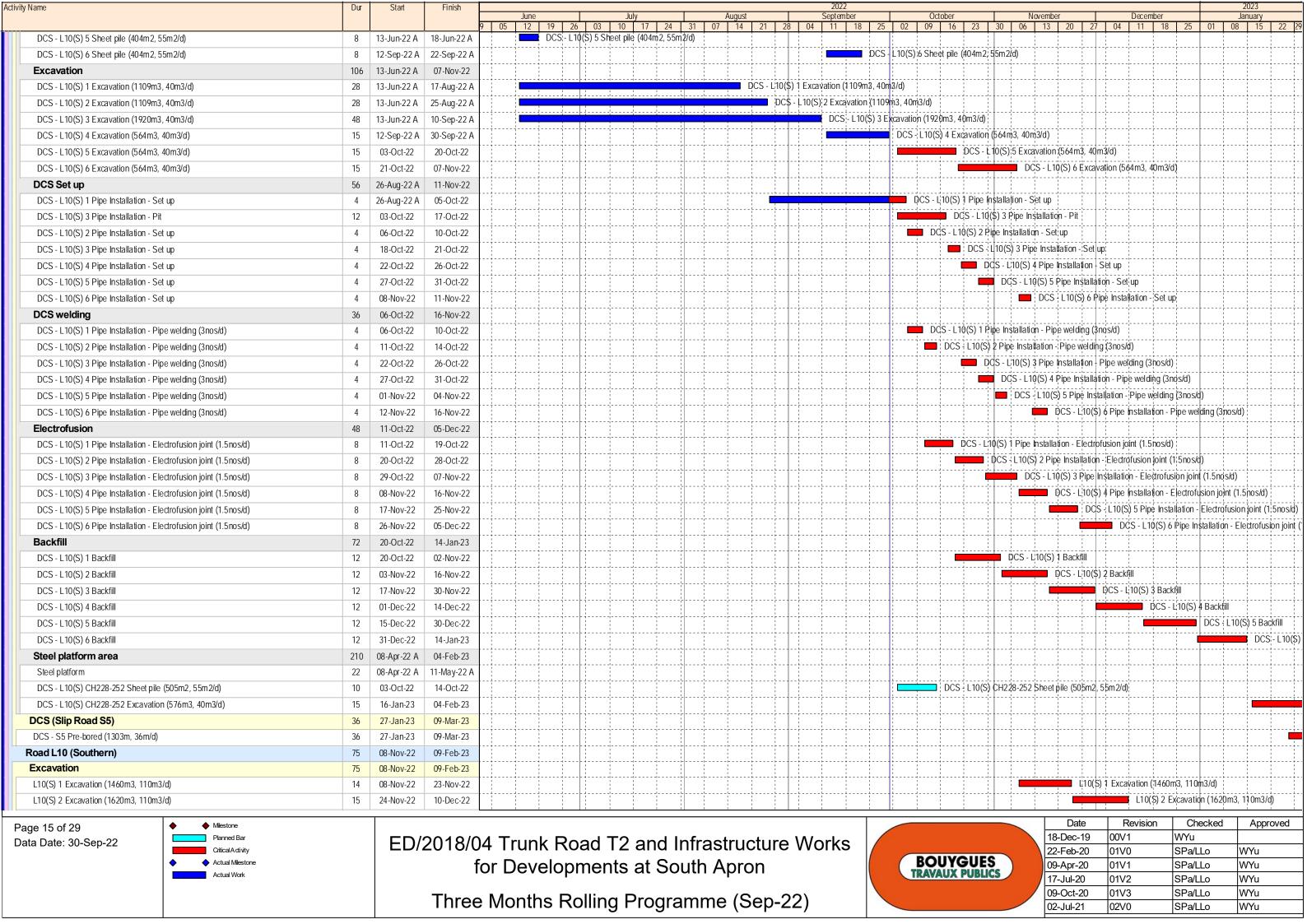
Activity Name	Dur	Start Finish	2022	2023
			June July August September October November December 9 05 12 19 26 03 10 17 24 31 07 14 21 28 04 11 18 25 02 09 16 23 30 06 13 20 27 04 11 18 25	January 01 08 15 22 29
6.3 Cross Passages for TBM Tunnel	40	08-Nov-22 24-Dec-22		
6.3 .5 Complete Ground treatment for all Cross Passages 0.2	0	08-Nov-22	◆ 6.3.5 Complete;Ground treatment for all Cross Pass	ages 0.2
6.3 .14 Complete excavation and support of Cross Passages 0.1	0	21-Nov-22	♦ 6.3:.14 Complete; excavation and suppo	rt of Cross Passages 0.1
6.3 .6 Complete Ground treatment for all Cross Passages 0.3	0	17-Dec-22	◆ 6.3.6 Comple	te Ground treatment for all C
6.3 .15 Complete excavation and support of Cross Passages 0.2	0	24-Dec-22	♦ 6.3.1	Complete excavation and su
7.1 Western Ventilation Building	97	13-Jun-22 A 13-Sep-22 A		
7.1 .5 Complete pile foundation for WVB 0.5	0	13-Jun-22 A	◆ 7.1.5 Complete pile foundation for WVB 0.5	
7.1 .6 Complete pile foundation for WVB 1	0	18-Jun-22 A	♦ 7.1 .6 Complete pile foundation for WVB 1	
7.1 .7 Complete concrete works of gross plan area for WVB 0.25	0	13-Sep-22 A	◆ 7.1 .7 Complete concrete works of gross plan area for WVB 0.25	
8.1 Eastern Ventilation Building	0	13-Sep-22 A 13-Sep-22 A		
8.1 .3 Complete excavation for EVB 1	0	13-Sep-22 A	◆ 8.1 .3 Complete excavation for EVB 1	
9.1 Launching Shaft	36	09-Dec-22 27-Jan-23		
9.1 .18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0	09-Dec-22	◆ 9.1.18 Complete per	mane'nt wall & bottom slab fc
9.1 .19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0	10-Jan-23		◆ 9.1.19 Complete
9.1 .20 Complete permanent wall & bottom slab for Launching Shaft by length 0.6	0	27-Jan-23		◆ 9
11.1 Drill and Break Tunnel	246	12-Feb-22 A 23-Dec-22		
11.1.2 Complete tunnel excavation 0.3 by length	0	12-Feb-22 A		
11.1.2 Complete tunnel excavation 0.4 by length	0	13-May-22 A	tunnel excavation 0.4 by length	
11.1.2 Complete tunnel excavation 0.5 by length	0	13-Jun-22 A	◆ 11 1.2 Complete tunnel excavation 0.5 by length	
11.1.3 Complete tunnel excavation 0.6 by length	0	13-Jul-22 A	◆ 11.1.3 Complete tunnel excavation 0.6 by length	
11.1.5 Complete tunnel excavation 0.7 by length	0	13-Sep-22 A	◆ 11.1.5 Complete tunnel excavation 0;7 by length	
11.1.7 Complete tunnel excavation 0.8 by length	0	08-Nov-22	◆ 11:1.7 Complete tunnel excavation 0.8 by length	
11.1.9 Complete tunnel excavation 0.9 by length	0	01-Dec-22	♦ 11.1.9 Complete tunnel excav	ation 0.9 by length
11.1.11 Complete tunnel excavation 1 by length	0	23-Dec-22	↑	Complete tunnel excavation
11.2 Cross Passages for Drill and Break Tunnel	0	26-Jan-23 26-Jan-23		
11.2.1 Complete cross passages structure 0.1 by length	0	26-Jan-23		♦ 1
12.1 Drill and Blast Tunnel	177	14-Mar-22 A 13-Apr-22 A		
12.1.10 Complete tunnel excavation 0.9 by length	0	14-Mar-22 A		
12.1.11 Complete tunnel excavation 1 by length	0	13-Apr-22 A	h la	
13.1 Lam Tin Interchange Works	51	20-Oct-22 19-Dec-22		
13.1 .1 Complete foundation	0	20-Oct-22*	◆ 13.1.1 Complete foundation	
13.1.2 Complete fabrication of structural frame	0	19-Dec-22*	→ 13.1.2 Com	plete fabrication of structural
15.0 E&M Design Works	212	13-Jan-22 A 14-Nov-22		
15.0 .25 Submit DDA for Tunnel lighting system	0	13-Jan-22 A		
15.0 .26 Approval DDA for Tunnel lighting system	0	14-Nov-22	◆ 15,0 .26 Approval DDA for Tunnel lighting syst	em
15.2 E&M Works for Western Ventilation Building	2	13-Jul-22 A 13-Jul-22 A		
15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0	13-Jul-22 A	◆ 15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	
15.2.9 Complete UG pipeworks from sumpit to manhole 0.5	0	13-Jul-22 A	♦ 15.2.9 Compléte UG pipeworks from sumpit to manhole! 0.5	
15.3 E&M Works for Eastern Ventilation Building	0	13-Sep-22 A 13-Sep-22 A		
15.3.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0	13-Sep-22 A	♦ 15.3.1 Complete terminal, mặt, pit, conduit, opening and recess etc. 0.5	
15.4 APS Works for Western Ventilation Building	86	30-Sep-22 16-Jan-23		
15.4 .1 Complete site delivery of DeNO2 filters	0	30-Sep-22*	◆ 15.4. 1 Complete site delivery of DeNO2 filters	
15.4.3 Complete site delivery of electrostatic precipitation system	0	30-Sep-22*	◆ 15.4.3 Complete site delivery of electrostatic precipitation system	
15.4 .5 Complete site delivery of wash down system	0	30-Sep-22*	◆ 15.4.5 Complete site delivery of wash down system	
15.4 .7 Complete site delivery of support system	0	30-Sep-22*	◆ 15.4.7 Complete site delivery of support system	
15.4.2 Complete installation of DeNO2 filters	0	16-Jan-23*		◆ 15.4 .2 Com
15.4 .4 Complete installation of electrostatic precipitation system	0	16-Jan-23*		◆ 15.4 .4 Com
15.4 .6 Complete installation of wash down system	0	16-Jan-23*		◆ 15.4 .6 Com
		· · · · · · · · · · · · · · · · · · ·	Date Revision Chec	okod Approved
Page 10 of 29 ♦ Milestone Planned Bar		ED /00 / 0 /	40 D 40 20044 1404	ked Approved
Data Date: 30-Sep-22		ED/2018/	J4 Trunk Road 12 and initastructure vvorks	o WYu
◆ Actual Miestone			for Developments at South Apron BOUYGUES 09-Apr-20 01V1 SPa/LL	
Actual Work			TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LL	
		Thre	e Months Rolling Programme (Sep-22)	
		11116	e Month's Rolling Programme (Sep-22)	o WYu
		11116	02-Jul-21 02V0 SPa/LL	o WYu

Activity Name	Dur	Start Finis	sh		L							2022			0.1.1					_			2023	
			9		June 12 19 26	03	July 10 17	24	31 07	ugust 14 21	1 28	September 04 11 18	3 25	02 (October 09 16	23	30 06	ovember 13 20	27	04	ecember 11 18	25 0°	January 1 08 15	22 29
15.4.8 Complete installation of support system	0	16-Jan	-23*																				♦ 15	5.4 .8 Com
17.1 Works under Sections 6A, 6C and 12 and Associated Landscape	48	30-Sep-22 28-Nov	v-22	1-1				-jj								j j - :				j				
17.1 .13 Complete footpath 0.25	0	30-Sep	0-22										•	17.1.13	Complete f	ootpath	0.25			j				
17.1 .15 Complete footpath 0.8	0	30-Sep	0-22	1									•	17.1.15	Complete f	ootpath	0.8							
17.1.16 Complete footpath 1	0	30-Sep	0-22	1										17.1.16	Complete f	ootpath	 							
17.1.17 Complete street furnitures of at-grade roads 0.25	0	30-Sep	0-22											17.1.17	Complete	street fyrr	itures of at	grade road	s 0.25				<u>-</u>	
17.1 .56 Complete landscaping works 0.5	0	18-Oct	t-22							·					♦ 17	.1 .56 ¢c	mplete lan	scaping wo	rks 0.5					
17.1.19 Complete street furnitures of at-grade roads 0.8	0	04-Nov	v-22	1										ļ <u>-</u>			♦ 17.1	19 Complet	e street fur	nitures	of at-grade roa	ds 0.8		
17.1.57 Complete landscaping works 0.8	0	08-Nov	v-22														♦ 1	7.1 .57 Com	plete lands	scaping	works 0.8			
17.1.20 Complete street furnitures of at-grade roads 1	0	28-Nov	v-22	1															♦ 17.1		mplete street f	urnitures	s of at-grade roa	ds 1
17.1 .58 Complete landscaping works 1	0	28-Nov	v-22	1		ļj										ļ !					mplete landsc			
17.1 .60 Complete whole activities of this cost centre 1	0	28-Nov	v-22	1										ii		ļ <u>-</u>						1	of this cost cent	
17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As	48	30-Sep-22 28-Nov		l										ļ <u>-</u>		; 								
17.2 .1 Complete irrigation system 0.3	0	30-Sep		ł										17.2.1 C	complete irr	igation¦s	vstem 0.3	 						
17.2 .2 Complete irrigation system 0.6	0	18-Oct														! "	1 !	tion system	0.6					
17.2.3 Complete irrigation system 1	0	08-Nov					 	1 1 1 1 1 1										7.2 .3 Comp		on syste	em 1			1 1
17.2 .4 Complete whole activities of this cost centre 1	0	28-Nov				<u> </u>								 		 					ii-	ctivities o	of this cost centr	e 1
17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se	20	29-Dec-22 26-Jar												 		¦¦								-
17.4 .1 Complete excavation and disposal of material works 0.25	0	29-Dec-22 20-Jai												ļ								♦ 17.4	4 .1 Complete ex	cavation a
17.4.2 Complete excavation and disposal of material works 0.5	0	11-Jar												ļ <u>-</u>									◆ 17.4.2	_11_
17.4.2 Complete excavation and disposal of material works 0.8	0	26-Jar																						4 17
17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V				l		ļ <u>i</u> .										<u> </u>								
17.5 .11 Complete concrete works of pile caps 0.5	0	13-Apr-22 A 03-3ar		0.5		<u> </u>		 						ļ <u>-</u>		i i								
17.5.16 Complete concrete works of piers 0.25	0	·		te concrete	works of piers 0.2	<u> </u>								ii										
	0	13-Jun-		4	17,5.17 Comple	4	to works of	f niore O.F	<u></u>					ii										
17.5.17 Complete concrete works of piers 0.5	-			ļ				pieis u.t				17.5	10 Comp	lete concre	to utorke of	niore O		ļ						
17.5.18 Complete concrete works of piers 0.8	0	13-Sep-							 			11.5.		ļi				d conc 10 0						
17.5 .12 Complete concrete works of pile caps 0.8	0	30-Sep											i	17.5.12		i i	l i i -							
17.5 .13 Complete concrete works of pile caps 1	0	30-Sep				<u> </u>							i	17.5.13		1								
17.5.21 Complete concrete works of deck 0.25	0	30-Sep		ļļļ		<u> </u>								17.5.21		(<u>-</u>		j j						
17.5.25 Complete prestressing works of deck 0.25	0	30-Sep												17.5.25	Complete			deck 0.25						
17.5 .29 Complete lift shaft A and B 0.5	0	25-Oct														↑ 17.5	.29 Compl	ete lift shaft						
17.5 .30 Complete lift shaft A and B 1	0	14-Nov		ļ		ļļ.										ļ		17.5.3			ftAandB1			
17.5 .19 Complete concrete works of piers 1	0	02-Dec		1		ļ												ļļ	•				orks of piers 1	
17.5 .31 Complete lift shaft C and D 0.5	0	10-Dec		1		ļ								i		ļ {		ļ					shaft Cand D 0.	
17.5.22 Complete concrete works of deck 0.5	0	12-Dec		ļ												ļ 				1	1 1		oncrete works of	1 1
17.5.26 Complete prestressing works of deck 0.5	0	12-Dec	C-22				 	1 1 1 1 1 1							 						▶ 17.5 .26 Co	mplete p	restressing work	ks of deck
17.5.23 Complete concrete works of deck 0.8	0	03-Jar									[].			<u> </u>			ļ <u>.</u>						17.5 .23 Comp	_ii
17.5.27 Complete prestressing works of deck 0.8	0	03-Jar				ļj		. j l.						<u> </u>		ļ <u>j</u>	ļ <u>ļ</u>	<u>.</u>				•	17.5.27 Comp	olėte prestr
17.5.32 Complete lift shaft C and D 1	0	03-Jar				ļ <u>i</u> .								<u> </u>								•	17.5 .32 Comp	olete lift sha
21.3 Establishment Works for Improvement Works at the Junction of H	0	14-Jan-23 14-Jar		1				. [. 7								
21.3.2 Complete establishment works for 6 mths completion of softworks	0	14-Jar				ļ										<u> </u>		<u> </u>					◆ 21.3	3 2 Comple
21.5 Establishment Works for Improvement Works at the Junctions of	72	13-Apr-22 A 13-Apr-		4.1		ļ										ļ								
21.5.3 Complete establishment works for 9 mths completion of softworks	0	13-Apr-		444	on of softworks																			
21.5 .4 Complete whole activities of this cost centre	0	13-Apr-		entre		<u> </u>					[].													
22.1 Pipelines for District Cooling System for Commissioning of AMAV	415	13-Jan-22 A 13-Jul-2		<u> </u>										ļ										
22.1 .3 Complete DCS installation length 0.8	0	13-Jan-												ļ		<u> </u>		ļ						
22.1 .5 Complete T&C of DCS system 1	0	13-Jun-			22 1 .5 Complet									<u> </u>										
22.1 .6 Complete whole activities of this cost centre 1	0	13-Jul-2	22 A				♦ 22.1.6	Complete	e whole activ	ties of¦this	cost cer	ntre 1	1		1					1 1 1				1 1
Page 11 of 29 ♦ Milestone			-																ate	Re	/ision	Check	red App	roved
Data Date: 30-Sep-22		ED/2018	g /∩	1/1 Tri	ink Day	7 P	7 ar	d Ir	nfract	ructi	ıro	Morks						18-De		00V1	W	Yu		
Critical Activity												4 4 OI V 2		D	OUV	SHEA		22-Fel		01V0		Pa/LLo		
♦ Actual Milestone Actual Work			f	or D ϵ	evelopn	nent	ts at	Sou	սth A∣	oron				TRA	OUYG	PURIC	S)	09-Ap		01V1		Pa/LLo	WYu	
Actual volk					•				•					IN	en	- July		17-Jul		01V2		Pa/LLo	WYu	
		Thi	ree	Mor و	nths Ro	llina	ı Pro	grai	mme	(Sei	p-2	2)						09-Oc 02-Jul		01V3 02V0		Pa/LLo Pa/LLo	WYu WYu	
							,	J. 5.		,		,						02-Jul	<u> </u>	0 <u>2</u> V U	ادا	a, LLU	Įvviu	

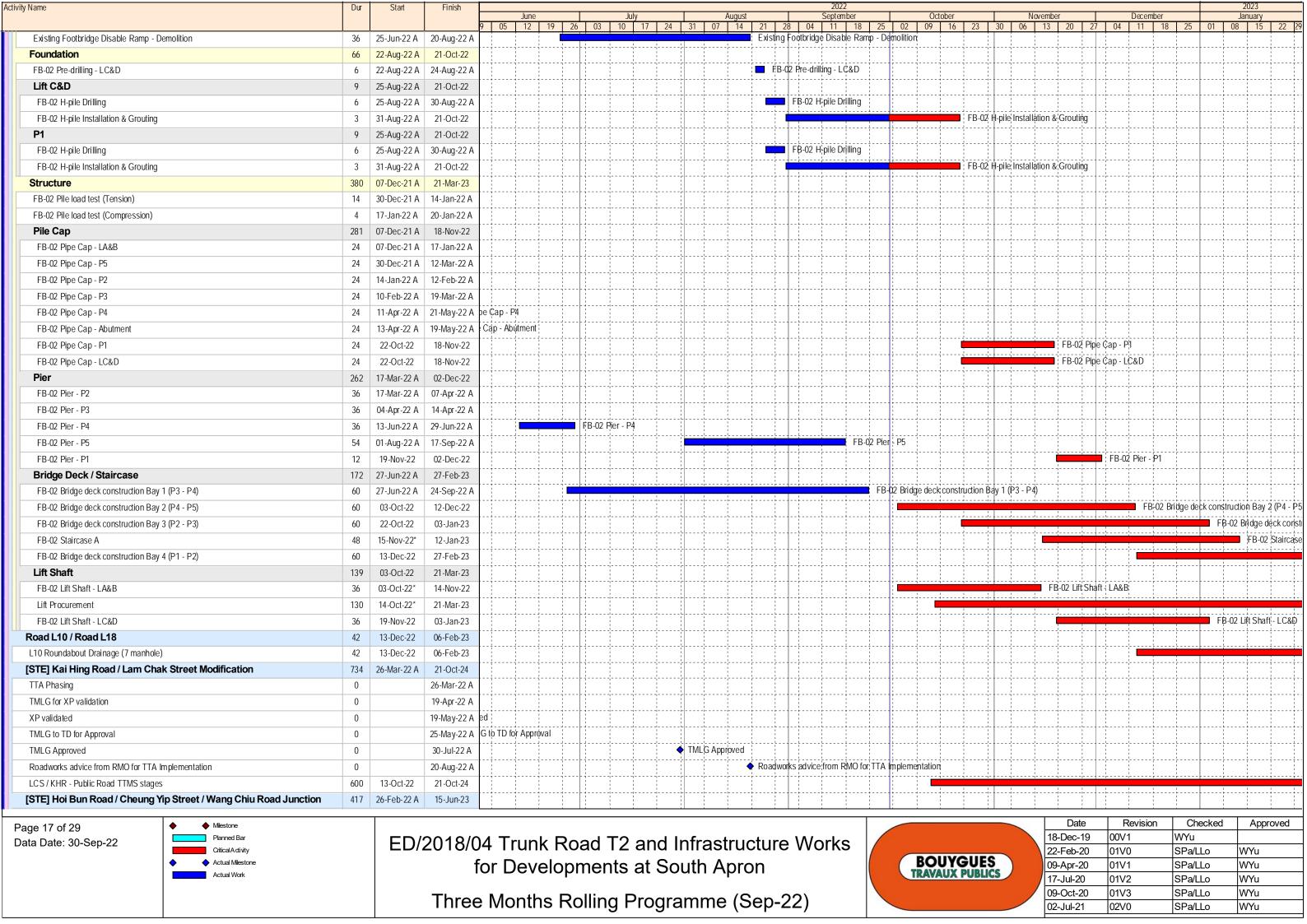
Activity Name	Dur	Start	Finish											2022										202	3
				9 05	June 12 11) 26	03	July 10 17	24	31 07	August 14	21 28	S	September	25 (Oc 02 09	tober	30	Novemb	er 20 27	Decei	mber 18	25	Janu 01 08	nry 15 22 29
34.1 Common Utilities Enclosure (CUE) under Section 6A of the Works	0	28-Nov-22	28-Nov-22	00	12 1	20	03	10 17	27	51 07	17	21 20	01	11 10	20	52 07	10 23	30	13	20 27	04 11	10	20	01 00	10 22 27
34.1 .19 Complete whole activities of this cost centre 1	0		28-Nov-22	† †	· i i				-	 	 			i	; :		ii	-		•	34,1 .19 Compl	ete whole	activitie	s of this cost	entre 1
34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works	88	13-Aug-22 A	06-Jan-23							 				· · · · · · · · · · · · · · · · · · ·	; - ;										
34.2 .4 Complete concrete works of base slab of CUE 0.5	0		13-Aug-22 A							<	34.2.4	Complete	concrete	works of bas	e slab of (CUE 0.5]					[
34.2 .8 Complete concrete works of walls of CUE 0.5	0		30-Sep-22							 					♦ 34	4.2.8 Com	plete concre	te works of	walls of Cl	JE 0.5					
34.2 .12 Complete concrete works of top slab of CUE 0.5	0		26-Oct-22														•	34 2 .12 C	omplete co	ncrete work	s of top slab of				
34.2 .2 Complete excavation of CUE	0		05-Dec-22												:						◆ 34,2.20	om plete	excavati	ion of CUE	
34.2.9 Complete conαete works of walls of CUE 0.75	0		06-Jan-23	† †	· i i						-			i			ii	- -						◆ 34.2.9 (omplete conc
35 Services Gallery	292	13-Apr-22 A	17-Jan-23							! !		[:				!						
35.16 Complete 20% of total length (measured on plan) of SG structures in Drill-and-Break	0		13-Apr-22 A	l on plan)	of SG struc	tures in	Drill-and-B	Break and D	Orill-and-Bla	ast Tunnel		[[:	:]		! !						
35.32 Complete 50% of total volume (measured on plan) of excavation for Lower Basemen	0		13-Apr-22 A	d on plar	of excava	ion for L											1 1	-	 						
35.33 Complete 75% of total volume (measured on plan) of excavation for Lower Basemen	0		13-Jun-22 A		♦ 35 33 (Complet	e 75% of to	otal volume	e (measure	d on plan) o	fexcavati	ion for Lo	wer Basen	ment of East V	Ventilation	Building									
35.18 Complete 60% of total length (measured on plan) of SG structures in Drill-and-Break	0		13-Sep-22 A	† <u></u>			-							◆ 35.18 Co	mplete 60	0% of total	length (mea	sured on pla	an) of SG s	tructures in	Dri l-and-₿reak	and Drill-	and-Blas	st Tunnel	
35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and	0		13-Sep-22 A	† -	·									◆ 35.21 Co	mplete 10	0% of total	length (mea	sured on pla	n) of Serv	ices Gallery	structures and a	ancillaries	in TBM	Tunnel	
35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Baseme	0		13-Sep-22 A	 	ii									◆ 35.34 Ca	mplete 10	00% of tota	volume (me				:: Lower Baseme			ion Building	
35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Breal	0		01-Nov-22					:							:			♦ 35.1	4 Complete	e¦80% of tota	ıl length (meası	red on p	lan) of S	G excavation	n Drill-and-Br
35.22 Complete 20% of total length (measured on plan) of Services Gallery structures and	0		16-Nov-22													!			•		lete 20% of tota				
35.35 Complete concreting works of 25% of the total gross plan area for the Lower Baseme	0		25-Nov-22	 											 					♦ 35.	35 Complete co				
35.23 Complete 30% of total length (measured on plan) of Services Gallery structures and	0		15-Dec-22	† †											† 		 			† 	→	35.23 C	omplete	30% of total le	ngth (measur
35.15 Complete 100% of total length (measured on plan) of SG excavation in Drill-and-Brea	0		23-Dec-22	† -																		•	35.15 Co	omplete 100%	of total length
35.24 Complete 40% of total length (measured on plan) of Services Gallery structures and	0		17-Jan-23				-																		➤ 35.24 Com
SOUTH APRON EXTERNAL WORKS	889	21-Oct-21 A	21-Oct-24	1			-																		
Road S20	694	21-Oct-21 A	23-Feb-24		·												ļ								
CUE (Section 6A)		28-Dec-21 A															ļ								
CKR Crossing		30-May-22 A		 	11					 					! !		 								
BS/E&M		30-May-22 A		· ·	11										! !		 								
CUE L10(N) Watermain (100m, 30m/wk)	40	30-May-22 A	05-Jul-22 A				CUE	E L10(N) V	Vatermain	(100m, 30m	/wk)				:		1		!						
Entrance	188	28-Dec-21 A	17-Aug-22 A	ļ <u></u>			111-											-							
Structure	30	28-Dec-21 A	11-Apr-22 A												:										
Entrance - Waterproofing, Backfill & Remove S1	9	28-Dec-21 A	07-Jan-22 A														<u> </u>								
Entrance - Structure (Wall & Top Slab)	15	08-Jan-22 A	25-Jan-22 A							!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!	-			! ! ! !											
Entrance - Strength & Falsework dismantle	6	26-Jan-22 A	11-Apr-22 A							!															
BS/E&M		11-Apr-22 A]					 					:]	313							
Entrance - E&M Installation		11-Apr-22 A										, ,	&M Installa	ation	<u> </u>		ļļ			ļļ					
Junction		28-Dec-21 A					-								<u>.</u> 		ļ			ļļ					
Structure		28-Dec-21 A													·		ļ			ļ					
Junction - Structure (Wall & Top Slab)	12	28-Dec-21 A	•												<u> </u>		ļļ			ļ		. į į			
Junction - Waterproofing, Backfill & Remove S2	9	20-Apr-22 A	•	i	.ii										<u> </u>		ļļ			ļ					
Junction - Waterproofing, Backfill & Remove S1	9	30-Apr-22 A													¦ ¦		ļļ.			ļ					·
Junction - Strength & Falsework dismantle		11-May-22 A		rength &	Haisework d	ısmantle 	e							-	ļļ.									-	· · · · · · · · · · · · · · · · · · ·
BS/E&M		24-May-22 A			lun c#	on: F	M 1ct Eivile	netallation							<u> </u>		<u> </u>			<u> </u>					
Junction - E&M1st Fix Installation	Iδ	24-May-22 A		·	Junci		M 1st Fix Ir			etallation					; 		<u> </u>			ļ					
Junction - E&M Installation	24		12-Jul-22 A	ļ					on:- E&MIn						. .		ļļ								
Junction - Backfill	12		23-Jul-22 A	ļļ	.				Juncilo	on - Backfill					! 		<u> </u>								
S20 (Section 6A)	694														 				1						
Future Carriageway - Stage 3		21-Oct-21 A		3 (Drain	age & Wate	main n	at CHEV								! 				 						
S20 Stage 3 (Catchest, Cully)			20-May-22 A					tchnit C							ļ ļ		ļļ		 						
S20 Stage 3 (Catchpit, Gully)		24-May-22 A					taģe 3 (Cato			C30 C+	ΛΝο+	nain)			<u> </u>					ļļ		-}}			
S20 Stage 3 (Watermain)	36	22-Jun-22 A	30-Jul-22 A		<u> </u>	i	1	i	i	S20 Stage	(vv atel II	ııdılı)¦	<u> </u>	1 1	<u> </u>	-	<u> </u>		- 	<u> </u>	1	<u> </u>	<u> </u>		
Page 12 of 29				_						_									1	Date 2	Revision		Chec	ked A	pproved
Data Date: 30-Sep-22		ED/2	2018/0)4 T	runk	Ro	ad T	⁻2 ar	nd In	ıfrast	ruct	ture	Wo	rks						3-Dec-19 2-Feb-20	00V1 01V0		VYu Pa/LLo	o WY	1
♦ Actual Milestone			+	or F	امريم(ODI	m△nf	te at	Sai	ıth A	nror	า				ВО	UYGU	ES	1 —	9-Apr-20	01V1		Pa/LLC		
Actual Work				OI L		JPI		is at		4U1 /		ı				TRAV	AUX PUB	LICS		7-Jul-20	01V2		Pa/LLc		
			Thro		ntha		ماااند	, Dro	\ara	mma	10-	, n	2 \						09	9-Oct-20	01V3	S	Pa/LLc) WY	J
			Three	; IVIC	ภาเกร	ΚC	פו זוווכ	y MIC	ygraf	пте	(26	:p-2	∠)						02	2-Jul-21	02V0	S	Pa/LLc) WY	J
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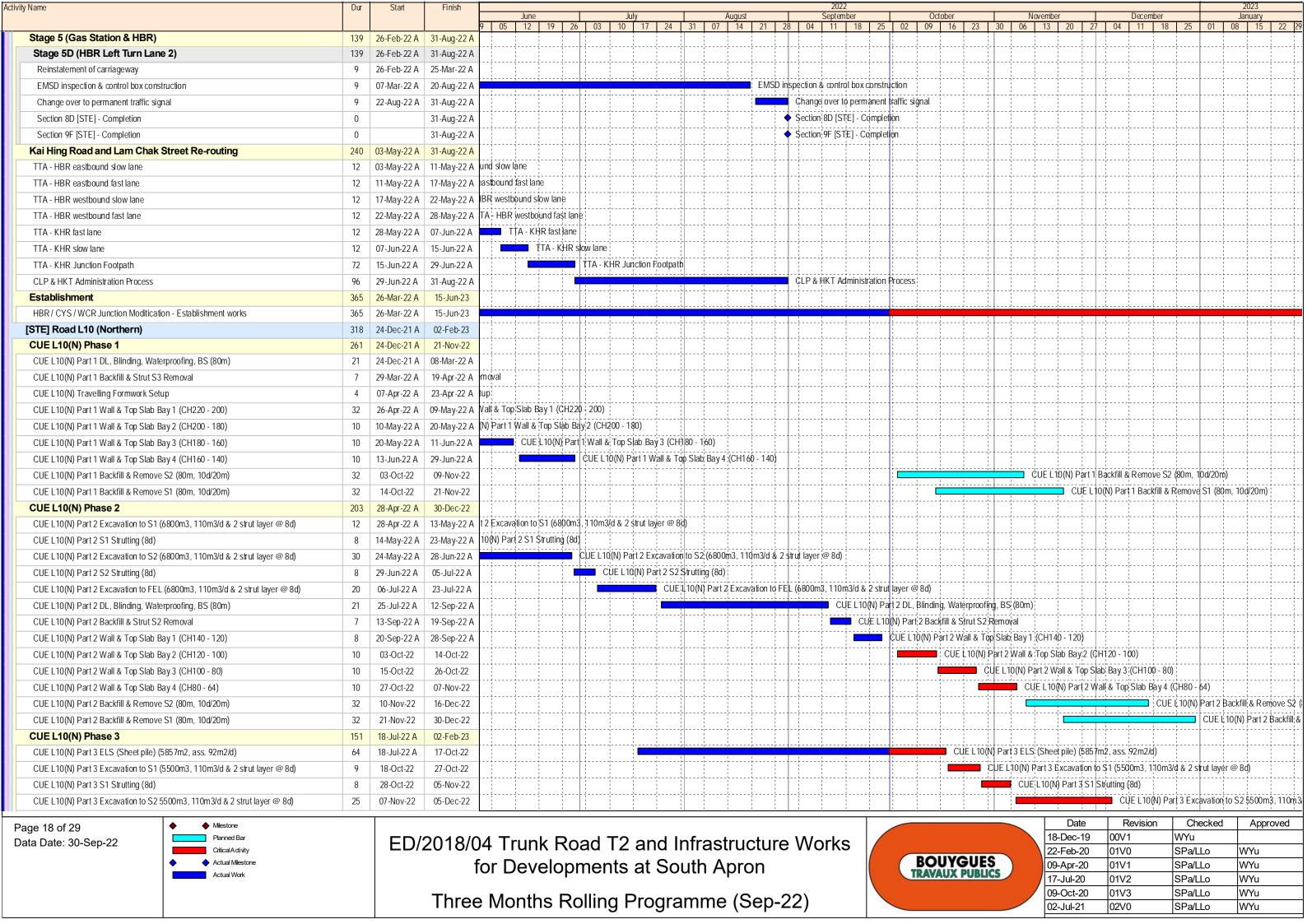


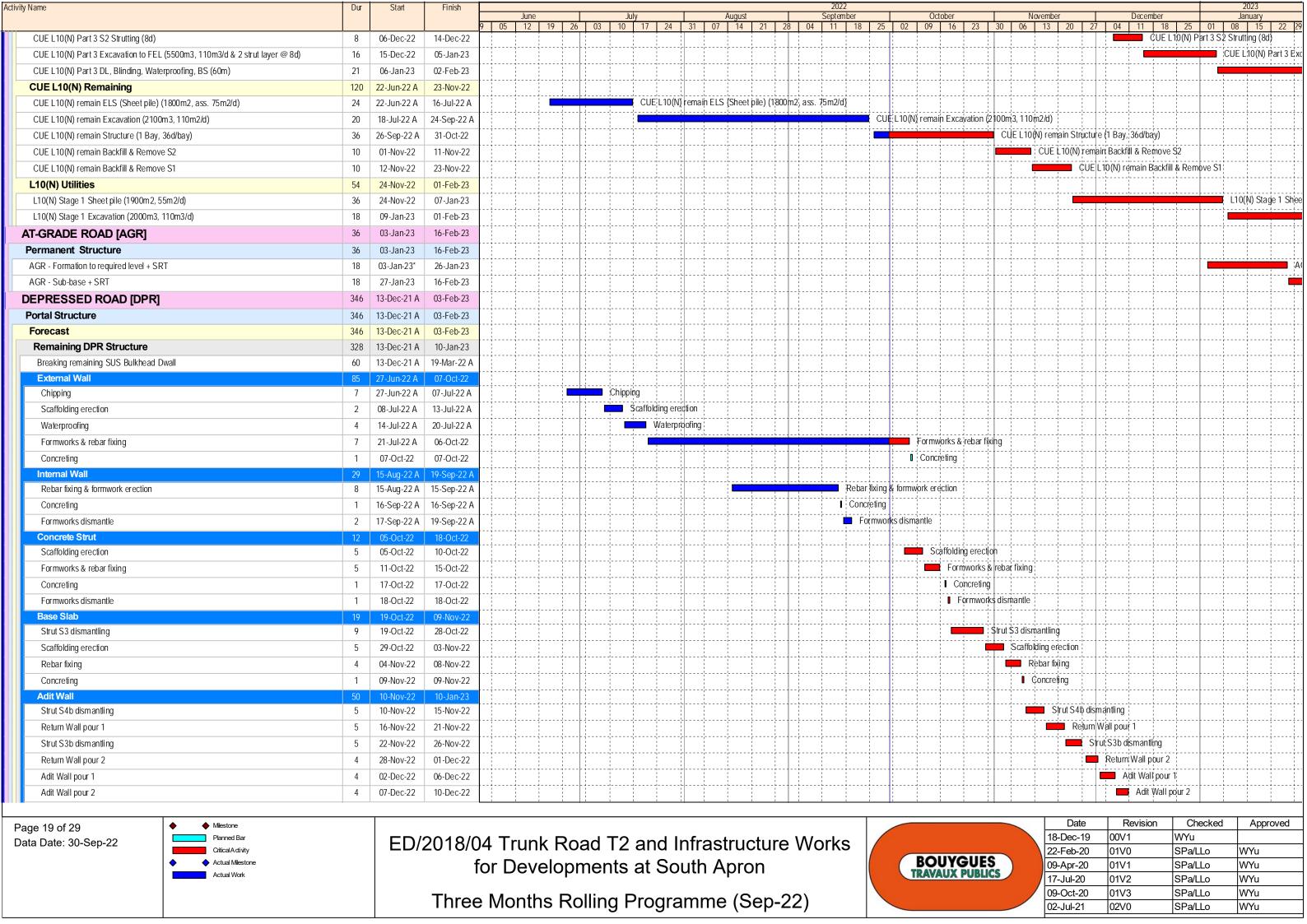




Activity Name	Dur	Start	Finish											2022			0 : :								2023	
				9 I 05	June 12	19	_ 26 T	July 03 10	y 17 24	I 31 I 07	August I 14 I	21 2	S 8 04	September 11 18	1 25 T	02 (October 09 16	23		Vovember 13 20	27 C	December 14 I 11 I	er 18 25	01 0	January 8 15	22 29
L10(S) 3 Excavation (1700m3, 110m3/d)	16	12-Dec-22	31-Dec-22																						Excavation	n (1700n
L10(S) 4 Excavation (960m3, 110m3/d) & Strutting (6d)	15	03-Jan-23	19-Jan-23	1					-	-j- j 				j					-							L10(S) 4
L10(S) 5 Excavation (960m3, 110m3/d) & Strutting (6d)	15	20-Jan-23	09-Feb-23	1						- -									-							+
Drainage	54	24-Nov-22	01-Feb-23						-						11				-							
L10(S) 1 Drainage & Sewerage (5 manhole, 6d/nos)	30	24-Nov-22	30-Dec-22																					■ L10(S) 1	Drainage &	Sewera
L10(S) 2 Drainage & Sewerage (3 manhole, 6d/nos)	18	31-Dec-22	21-Jan-23												† <u>†</u>											L10(S)
L10(S) 3 Drainage & Sewerage (1 manhole, 6d/nos)	6	26-Jan-23	01-Feb-23	 										-	‡ <u>†</u>											
Watermain	30	31-Dec-22	08-Feb-23							-																;;
L10(S) 1 Watermain (30m/6d)		31-Dec-22	14-Jan-23												<u> </u>				-						L10(; ; S) 1 Wat∈
L10(S) 2 Watermain (30m/6d)			08-Feb-23																							
Backfill			01-Feb-23									<u>-</u>														
L10(S) 1 Backfill			01-Feb-23																							ļļ
Outfall 2 & Branch Drainage			30-Jan-23																-							
Portion H1		17-May-22 A									-}}								-							
Portion H1 Possession	0	,	17-May-22 A	ossessio						H									-							
Section H1 part 1 Sheet pile (878m2, 55m2/d)		17-May-22 A	-	11		art 1 Sh	eet pi	ile (878m2, 55	m2/d)	H	·}}	 		 	‡ 											 -
Section H1 part 1 Excavation (1090m3, 110m3/d)		,	06-Jul-22 A							cavation (10	.;. 10m3, 110	; Dm3/d)		i	ţ				-							 -
Section H1 part 1 Excavation (10 70113, 11 011370)			20-Jul-22 A								-		-						-							
Section H1 part 1 Backfill			27-Jul-22 A	ļ 						Section H1 pa		sfill			<u> </u>				-							<u> </u>
Section H1 part 2 Pre-treatment			21-Sep-22 A												Section	H1 part 2	Droitros	mont	-							
											-}}				; ;;			ion U1 no	rt 2 Shoot ni	le (648m2)						
Section H1 part 2 Sheet pile (648m2)		·	13-Oct-22												÷÷			Ю¦і П і ра	- 1		4 ;					
Section H1 part 2 Excavation (848m3)		14-Oct-22	29-Oct-22	ļ															Section H	part 2 Excavatio	1''					
Section H1 part 2 Drainage		31-Oct-22	12-Nov-22								<u> </u>				į į					Section H1 pa						
Section H1 part 2 Backfill		14-Nov-22	19-Nov-22	ļļ						. <u></u>	- -				ļļ				-	Section						<u> </u>
Section H1 part 3 Pre-treatment	12	21-Nov-22	03-Dec-22	ļ						<u> </u>	ļļ		ļ		įį				.	ļ	S	Section H1 pa				
Section H1 part 3 Sheet pile (504m2)	10	05-Dec-22	15-Dec-22	ļļ											įį				.	1 1 1		S	ection H1	part 3 Sheet		¦
Section H1 part 3 Excavation (660m3)			31-Dec-22					1 1						 											H1 part 3 E	
Section H1 part 3 Drainage	12	03-Jan-23	16-Jan-23												1										Se	ction H1 p
Section H1 part 3 Backfill	6	17-Jan-23	26-Jan-23												ili											Se
Outfall 2	96	30-Sep-22	30-Jan-23												ili											
Portion H2 Full Possession	0		30-Sep-22*															ossession								
Outfall 2 - Sheetpiling (528m2, assume half typical)	20	03-Oct-22	26-Oct-22															o C	_ 1'	eetpiling (528m2,	'					
Outfall 2 - Excavation to S1 (+4.7 to + 3.5, 136m3)	5	27-Oct-22	01-Nov-22																Outfall 2	2 - Excavation to	S1 (+4.7	to + 3.5, 13	6m3)			
Outfall 2 - S1 Installation	6	02-Nov-22	08-Nov-22	I																Outfall 2 - S1 Inst						
Outfall 2 - Excavation to S2 (+3.5 to +1.7, 203m3)	8	09-Nov-22	17-Nov-22																	Outfall 2	? - Ex¢ava	ation to S2 (+	·3.5 to +1	7, 203m3)		
Outfall 2 - S2 Installation	6	18-Nov-22	24-Nov-22	1											:					— 0)utfall 2 -	S2 Installation	on ¦			
Outfall 2 - Excavation to FEL (+1.7 to -1.4, 350m3)	14	25-Nov-22	10-Dec-22	† †							-}			 	††				-	† · · · · · · · · · · · · · · · · · · ·	+;	Outfall	2 - Excav	ation to FEL	(+1,7 to -1	.4, 350m(
Outfall 2 - Ground Improvement Works for FEL	4	12-Dec-22	15-Dec-22	1		·j			-	-j-				j	įi				-			0 💻	utfall 2 - C	Ground Impro	vernent W	orks for F
Outfall 2 - Base Slab (12m3)	2	16-Dec-22	17-Dec-22	li															-				Outfall 2 -	Base Slab (12m3)	
Outfall 2 - Backfill to Pipe Bottom Level	2	19-Dec-22	20-Dec-22	1										<u>-</u>					-	1 1				2 - Backfill to		
Outfall 2 - Pipe Installation up to seawall block			06-Jan-23											-	‡ 				-	<u> </u>						i i l
Outfall 2 - Steel Plate Installation			09-Jan-23								<u> </u>	 		<u>i</u>	‡ 				-						Outfall 2 -	¦
Outfall 2 - Concrete surround installed pipes		10-Jan-23	12-Jan-23	 										 	ţ				-						Outfall	÷
Outfall 2 - Core-cut seawall		13-Jan-23	27-Jan-23										-		<u> </u>				-							
Outfall 2 - Remaining pipes installation		28-Jan-23	30-Jan-23							H	<u> </u>				<u> </u>				-							
Foot Bridge FB-02			21-Mar-23		- -					H	<u> </u>		-	<u>i</u>	<u> </u>				-							·
Temp Ramp			20-Aug-22 A							-	<u> </u>		-	<u>i</u>	<u> </u>				-							<u> </u>
Temporary Ramp Construction		05-Feb-22 A 05-Feb-22 A					emry	orary Ramp Co	nstruction		- 				ļ											
Temporary Namp Constitution	Z4	00-1 CD-22 A	24-Juil-22 A		1 1	; '	σπρι	orary iyanip Q	znanuçiiUH	<u> </u>	<u> </u>	i		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>
Page 16 of 29 ◆ Milestone																				Date		Revision		hecked	Appro	oved
Data Date: 30-Sep-22		FD/2	2018/0)4 T	runk	< R	ດຂ	d T2	and I	nfras	truc	ture	Wo	rks						18-Dec-19		0V1	WYı		14.5.	
Critical Activity ◆ Actual Milestone		,_														R	OUV	GUE	S	22-Feb-20		1V0			WYu	
Actual Work			1	or L	Jeve	SIOP	mc	nents	at 50	utn A	pro	n				TR	XUAVA	PUBLI	cs	09-Apr-20 17-Jul-20		1V1 1V2	SPa SPa		WYu WYu	
						_					, -									09-Oct-20		1V3	SPa		WYu	
			Three	e Mo	onth	s R	col	ling P	rogra	amme	: (S	ep-2	22)							09-001-20 02-Jul-21		2V0	SPa		WYu	
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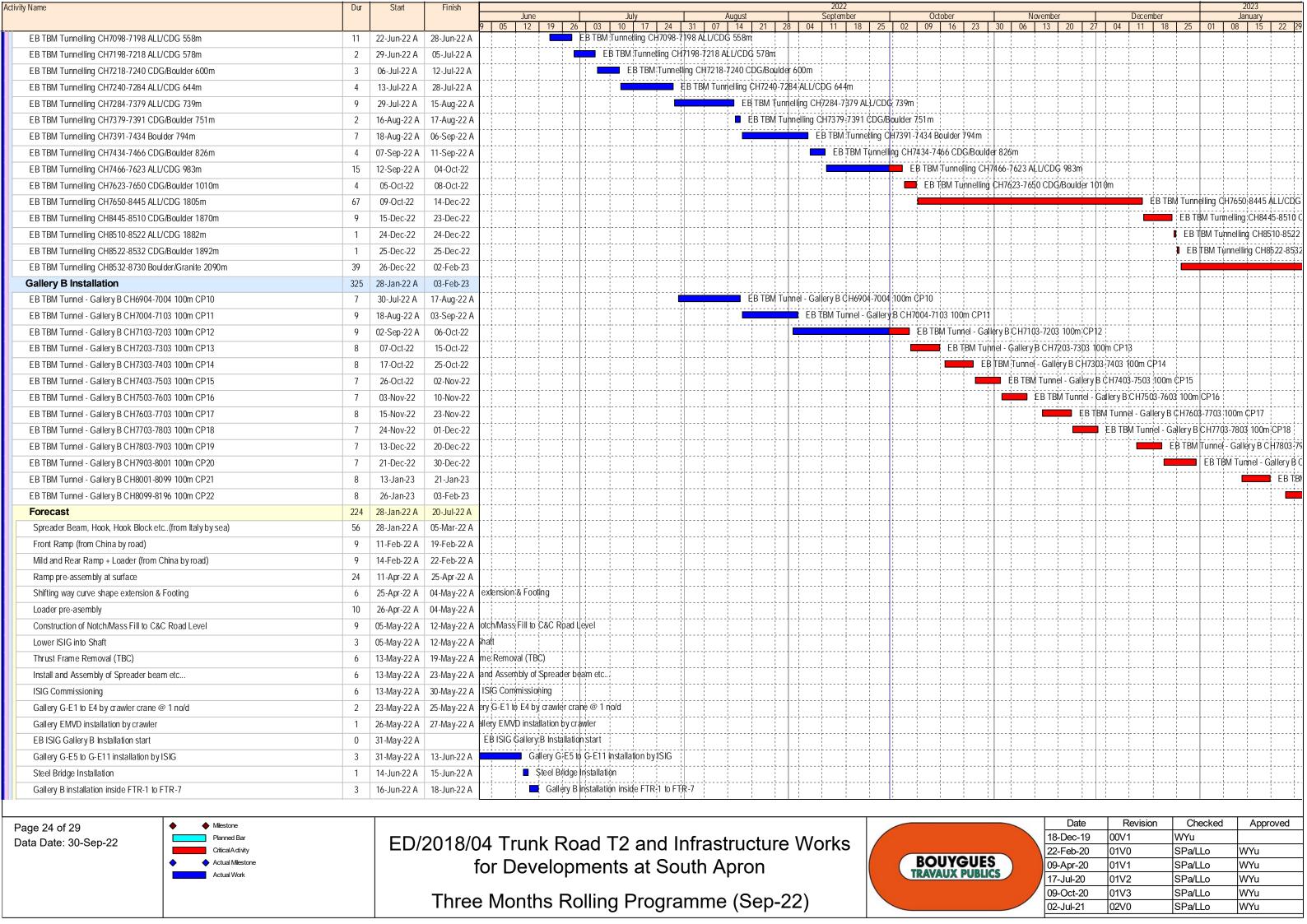


Activity Name	Dur	Start	Finish										2022											2023	
				9 05	June 1 12 19) 26	 03 10	July 17 24	31 0	August		28 T	September 04 11 18	25		October 9 16	23		November 1 13 20 27	04	December 11 18	25	01 08	January 3 15	22 29
Contruction of Carriageway Slab	9	12-Dec-22	21-Dec-22	, 00	12 17	20		17 21		11		20		20	02 07	10	20	00 00	10 20 21	01	11 10	+	tion of Carr	riageway \$	lab
Stage 1B completion	0		21-Dec-22	1								-1		İ				ļ			•	Stage 1	B completic	on	
Remaining external wall + Gain strength	9	22-Dec-22	04-Jan-23	1	11							-		İ				1					Rema	aining exter	rnal wall
Strut S1 & temporary steel bridge removal	6	05-Jan-23	10-Jan-23	li										ii-										Strut S1 &	x tempor
Portal Structure	297	03-Jan-22 A	03-Feb-23	ļ <u>-</u>										<u> </u>				ļ				-}			
Falsework erection			19-Mar-22 A	1										ii-				l							
West side Capping Beam (B4-B9)		28-Mar-22 A												<u> </u>				 							
East side Capping Beam (B4-B9)		31-Mar-22 A	<u> </u>											<u> </u>				ł							
Portal Beam part 1 (B7-B9)		08-Apr-22 A	·	n part 1 (37-R9)		 -							<u> </u>				ł							
Portal Beam part 2 (B4-B6)		09-May-22 A			danana dana.	al Roar	n part 2 (B4-B	- <u> </u>						įį				ļ							
Steel Beam location Capping Beam		27-Jun-22 A	08-Oct-22				п рап 2 (р4-о							įį.		tool Roar	n location	Capping B	oam						
					ļ									÷			. j j .	1	n installation (B1-B3	<u></u>					
Steel Portal Beam installation (B1-B3)	12	10-Oct-22	22-Oct-22	ļ	ļ									įį			_ Steer	HOLIAI; BEALL		, 			<u>-</u>		<u></u>
Capping Beam + Portal Beam	18	11-Jan-23	03-Feb-23		ļ																		·		
WEST VENTILATION BUILDING [WVB]		20-Dec-21 A			ļ									ļ				ļ							
Excavation & Strutting		20-Dec-21 A	<u> </u>	ļļ										· · · · · · · · · · · · · · · · · · ·				ļ							
Excavation to below Strut S3 11,905m ³	20	20-Dec-21 A	12-Jan-22 A]	ļ							1		į į					<u> </u>						
Strut S3 Installation		03-Jan-22 A																							
Strut S3 Pre-loading	2	20-Jan-22 A	21-Jan-22 A																						
Excavation to below Strut S4 8,930m ³	15	22-Jan-22 A	18-Feb-22 A																						
Strut S4 Installation	20	10-Feb-22 A	15-Mar-22 A									1										-			
Strut S4 Pre-loading	2	16-Mar-22 A	17-Mar-22 A									-1		†											
Excavation to FEL 9,230m ³	20	19-Mar-22 A	04-Apr-22 A	1	11							- -		† 		·j						 }	·		
Building Structure	247	05-Apr-22 A	28-Feb-23	l - i	1							-1		İ			11	ļ							·
WVB - Base Slab	67	05-Apr-22 A	30-Jun-22 A		11							-1		İ		<u>j</u>	11	1							·
WVB - Earth Mat Installation	24	05-Apr-22 A	22-Apr-22 A	1	11							-1		İ		j	11	1							
Base Slab construction Bay 2 & 4	20	23-Apr-22 A	24-May-22 A	Slab con	struction Bay	/ 2 & 4						-1		<u> </u>				1							
Base Slab construction Bay 1, 3 & 4	20	19-May-22 A	18-Jun-22 A		Ba	ase Slal	construction	Bay 1, 3 & 4						ili-				l							
Tower Crane Erection		20-Jun-22 A		1			Tower Crar	e Erection						ii-				 							<u>i</u>
Tower Crane Operation	0		30-Jun-22 A	† <u>†</u>	11		Tower Crar	e Operation						† <u>†</u> -				ł							
Basement Structure	197	20-Jun-22 A	28-Feb-23		ii									†				ļ							
WVB - Strut S4 Removal		20-Jun-22 A	15-Jul-22 A	 				- :: : WVB	ut S4 Remov	val ¦				‡ <u></u> ‡-											
WVB - Basement 2 Extenal Wall	21		02-Aug-22 A		 				WVB	3 - Basem	ent 2 Exter	al Wal		<u> </u>											
WVB - Basement 2 External wall waterproofing & Mass Fill	18		16-Aug-22 A							- 1	1 1		2 External wall wa	terproofr	na & Mass										
WVB - Strut S3 Removal	18		20-Sep-22 A		 								W	WB - Str	rut S3 Ren	moval									
WVB - Basement 2 Wall/Slab	-	29-Aug-22 A	28-Oct-22														. i i -	1	ement 2 Wall/Slab				·		
WVB - Basement 2 Wain/Stab WVB - Strut S2 Removal	18	29-Oct-22	18-Nov-22										·						WVB + Str	ıt S2 Dom	oval				
WVB - Strut 32 Kentoval WVB - Basement 1a Wall	-													<u> </u>								2 bcomo	nt 1a Wall		
	30	09-Nov-22	13-Dec-22											<u> </u>				ļ							
WVB - Platform removal	12	19-Nov-22	02-Dec-22	ļļ										ļ			. -				Platform ren		Doco		ا المسل
WVB - Basement 1 External wall waterproofing & Mass Fill	24	26-Nov-22	23-Dec-22	ļ	ļļ		-							į		·	. -		÷				Basement	t i External	
WVB - Strut S1 Removal	24	24-Dec-22	27-Jan-23	ļ			-							ļļ.											; V
WVB - Basement 1b Wall/Slab	45	04-Jan-23	28-Feb-23	ļ										ļļi.											
SOUTH APRON ADIT	52	03-Dec-22	08-Feb-23	ļ	ļļ							1.1.		ļli.			. [].							!!	
South Apron Adit - ELS & Pump Test & Strut Installation	30	03-Dec-22	10-Jan-23		ļ									<u>įli</u> .			. [] .							South Apr	
South Apron Adit - Base Slab & Wall Kicker	11	11-Jan-23	26-Jan-23					1																	Sc
South Apron Adit - Strut S2 Removal	11	27-Jan-23	08-Feb-23												1										
SUPPORTING UNDERGROUND STRUCTURE [SUS]	240	25-Jul-22 A	23-May-23																						
Permanent Structure	89	25-Jul-22 A	15-Nov-22														1		J						
SUS - WB Partition Wall CH6150-6260	24	25-Jul-22 A	17-Oct-22						-,		1	7		1		SI	US - WB	Partition Wa	al CH6150-6260			-			
Page 20 of 29 ♦ Milestone				-							·								Date	Re	evision	Che	ecked	Appro	ved
Data Date: 30-Sep-22		FD/	2018/0	14 T	runk	R۸	ad Ta	bne (Infra	etru	ctura	۱۸ د	Vorke						18-Dec-19	00V1		WYu			
CriticalAdivity												۷	VOINS		D)IIV	21154		22-Feb-20	01V0		SPa/L		WYu	
♦ Actual Milestone Actual Work				tor [)evel	opi	ments	at So	outh <i>i</i>	Apro	on				TRA	OUY(XUXV	PUBLIC		09-Apr-20	01V1		SPa/L		WYu	
A SOLDER FOR						•				•					1104				17-Jul-20	01V2		SPa/L		WYu WYu	
			Three	e Mo	nths	R	ollina	Proar	amm	ie (S	Sep-2	22)						09-Oct-20 02-Jul-21	01V3 02V0		SPa/L SPa/L		wyu WYu	
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Activity Name	Dur	Start	Finish							^			022			L. l		NI					2023	
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SUS - EB Partition Wall CH6150-6237	25	18-Oct-22	15-Nov-22*						1 1		1								3 Partiti	on Wall CH61 50-62				
Tunnel Internal Structure & Finishing	191	27-Jul-22 A	23-May-23																					
Westbound	111	27-Jul-22 A	13-Feb-23																					
SUS - WB - OHVD Formworks Assembly	18	27-Jul-22 A	27-Aug-22 A]				1 1	1 1	S	US - WB - OH									-			
SUS - WB - OHVD In-situ 320m	96	29-Aug-22 A	07-Jan-23	:									! '	!	!	!!!			!		!	S	SUS - WB -	OHVD In
SUS - WB - Fire Board - Tunnel crown	28	09-Jan-23	13-Feb-23		1																	-		
Eastbound	108	09-Jan-23	23-May-23																				-	
SUS - Formworks transfer to EB	12	09-Jan-23	21-Jan-23																					SUS-1
SUS - EB - OHVD In-situ	96	26-Jan-23	23-May-23	T	<u>-</u>						-		·											
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	338	05-Feb-22 A	10-Feb-23]			1]			; <u> </u>				!	
Civil Works for TBM Assembly	79	05-Feb-22 A	23-Feb-22 A		1						<u>-</u>										- L		1	
Cell 1 & 2	79	05-Feb-22 A	23-Feb-22 A	!		!									!		-						!	
Tympanum	79	05-Feb-22 A	23-Feb-22 A								 ! !												-	
Westbound Additional Mass Fill	15	05-Feb-22 A	12-Feb-22 A								 !											<u>-</u>	!	
Eastbound Additional Mass Fill	7	14-Feb-22 A	23-Feb-22 A								<u>-</u>								; <u> </u>					
Tunnel Permanent Works	78	05-Nov-22	10-Feb-23	· 	11		-									ii								;
Cell 1/2 Westbound	76	05-Nov-22	08-Feb-23	· i	ii		-									i			; <u> </u>				-	
Cell 1/2 WB - Wall Below Road Level CPS	18	05-Nov-22	25-Nov-22	· - 			-									 			Cell 1/	2 WB - Wall Below	Road Le	vel CPS	-	;
Cell 1/2 WB - Road Slab CPS	12	26-Nov-22	09-Dec-22	 			-									i			j 	Cell 1/2 WB			j	
Road Diversion to WB CPS	0		09-Dec-22		1											<u> </u>				◆ Road Diver	sion to V	VB CP\$		
Cell 1/2 WB - Wall Below Road Level NCPS	12	10-Dec-22	23-Dec-22		1		-														Cell 1	2 WB - W	/all Below F	Road Lęv€
Cell 1/2 WB - Road Slab CPS	12	24-Dec-22	10-Jan-23	1	1						<u>i</u>					 						<u> </u>	Cell 1/2 \	WB - Rpa
Cell 1/2 WB - Wall Road Level			27-Jan-23	 	† 						<u>i</u>		· -			 								C
Cell 1/2 WB - Wall Above Road Level			08-Feb-23	-							<u>-</u>								 					
Cell 1/2 Eastbound			10-Feb-23						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		-												-	
Cell 1/2 EB - Wall Below Road Level CPS			25-Nov-22						1 1										Cell 1/	'2 EB - Wall Below I	Road Le	vel CPS		
Cell 1/2 EB - Road Slab CPS			09-Dec-22		 															Cell 1/2 EB			<u>!</u>	
Road Diversion to EB CPS	0		09-Dec-22		ļļ											ļ				◆ Road Diver	sion to E	B CPS		
Cell 1/2 EB - Wall Below Road Level NCPS	-		23-Dec-22		 -						<u> </u>					 				- Troda Brion			all Below R	oad Leve
Cell 1/2 EB - Road Slab NCPS			10-Jan-23													ļ							+	EB - Roac
Cell 1/2 EB - Wall Road Level			27-Jan-23		 		-									 								
Cell 1/2 EB - Wall Above Road Level			10-Feb-23		 																			ii -
Cut & Cover			02-Dec-22								-													
C&C - Wall Stage 1 first 5m			15-Nov-22															C&C - W	all Stan	je 1 first 5m			 	
C&C - Wall Stage 2 up to OHVD level			25-Nov-22		ļļ		-												117	Wall Stage 2 up to	OHVD I	evel		
C&C - Wall Stage 3 up to Top Slab soffit			02-Dec-22	-	ļļ		-									ļ			!!!	C&C + Wall Stage			offit	
SUB-SEA TBM TUNNEL - WESTBOUND			13-Feb-23				-									ļ							1	
Precast Fabrication		<u> </u>	13-Feb-23		 											ļ							-	<u> </u>
TBM Precast Segments			13-Feb-23 12-Jan-23	 	ļ						<u>-</u>					ļ			} 				-	
Precast TBM Segment - 70%		29-Nov-21 A		!												 								
Precast TBM Segment - 80%			17-Oct-22		<u> </u>											Precast	TBM Segmen	ıt ÷ 80%						
			28-Nov-22		·											i içcası		il 1 00 /0 ;		cast TBM Segment	- L 000%			
Precast TBM Segment - 90%																			- rie		. 1 7U / 0		Drococ	t TRM Ca
Precast TBM Segment - 100%			12-Jan-23	-	ļļ						<u>-</u>												- Piecas	t TBM Se
Service Gallery			13-Feb-23		ļļ											ļ							-	<u> </u>
Precast Service Callery - 3%		28-Dec-21 A			ļ														<u></u>					<u> </u>
Precast Service Gallery - 6%		02-Mar-22 A	·	Call	100/											ļ			<u> </u>		-}			
Precast Service Gallery - 10%		03-Apr-22 A					- 1	 	Cland C-"	nd 2004						<u>.</u>								<u> </u>
Precast Service Gallery - 20%	24	16-May-22 A	18-Jul-22 A	1	1 1	1	1 1	Precast	Service Galle	ry - 20%	1										į		1	
Page 21 of 29 ♦ Milestone																		Date	<u> </u>	Revision	Che	ecked	Appr	oved
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Critical Activity		レリノ										VVUIP	13		DO	IIVO!!	EC	22-Feb-2			SPa/L		WYu	
◆ Actual Milestone Actual Work			f	or D	evel)	opr	ments	at So	outh A	Apro	n				TRAV	UYGU AUX PUB	LICS	09-Apr-2			SPa/L		WYu	
Actual YVIK						•				•				(1 INPAVI	-CA FOD		17-Jul-20			SPa/L		WYu	
			Three	Mc Mc	nths	Ro	ollina	Progra	amme	e (S	ep-2	22)						09-Oct-2 02-Jul-2			SPa/L SPa/L		WYu WYu	
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Activity Name	Dur	Start	Finish											2022											2023	
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Precast Service Gallery - 30%	24	19-Jul-22 A	14-Sep-22 A											Precast	Service	Gallery - 3	0%									
Precast Service Gallery - 40%	24	15-Sep-22 A	17-Oct-22							;- ; 					† † -		Pre	ecast Se≀	√ice Galler	y - 40%					-	
Precast Service Gallery - 50%	24	18-Oct-22	14-Nov-22							 										Precast Servi	1 1	J 1				
Precast Service Gallery - 60%	24	15-Nov-22	12-Dec-22	1													1		l		+	Precast	Service	Gallery -	60%	
Precast Service Gallery - 70%	24	13-Dec-22	12-Jan-23	-						} <u>-</u>					<u> </u>			<u> </u>			·					t Service
Precast Service Gallery - 80%	24	13-Jan-23	13-Feb-23							}		-			 											¦
OHVD Slab	281	01-Feb-22 A	09-Feb-23							;									 							
Concrete Mix - Plant Trial		01-Feb-22 A		ant:Trial														; <u>-</u> ;-								
Precast OHVD Slab - Mould Fabrication & Setup		01-Feb-22 A		‡							-				: PrecastO	HVD:Slab	- ¦ - ¦Mould	¦¦- Fabricat	on & Setup							
Precast OHVD Slab - Inspection			13-Oct-22												ļļ.		Precas	t OHVD	 Slab - Insp	ection						
Precast OHVD Slab - Mass Production Start		14-Oct-22	10 001 22															1	1	s Production Start						
Precast OHVD Slab - 3%		14-Oct-22	10-Nov-22			·				}	}}									Precast OHVD SI						
Precast OHVD Slab - 6%		11-Nov-22	08-Dec-22																·			■ Precast OH	VD Slab	0 - 6%		<u></u>
Precast OHVD Slab - 10%		09-Dec-22	09-Jan-23																						Precast C	HVD Sla
Precast OHVD Slab - 20%	24	10-Jan-23	09-Feb-23																						11000310	
Site Establishment		27-Sep-21 A								; ;					<u> </u>											
Mortar Plant		27-Sep-21 A									 				 										<u>!</u>	ļ
Mortar Plant - Commissioning		27-Sep-21 A									 				 										<u>-</u>	ļ
TBMAssembly		29-Nov-21 A								}	-}}				<u> </u>				} <u>-</u>							
Air / Water / Hydraulic Electrical Connections		29-Nov-21 A								}	-}}				<u> </u>											
Testing & Commissioning		09-Dec-21 A																								
WB TBM Break-in		13-Jan-22 A	12-Jaii-22 A																							
			0/ Fab 22							<u> </u> 					¦											
TBM Tunnelling WD TPM Tunnelling CH//42 //50 17m			06-Feb-23							<u> </u>					¦											
WB TBM Tunnelling CH6642-6659 17m			19-Jan-22 A							 	-}				¦											¦
WB TBM Tunnelling Stoppage due to Active Mortar injection			27-Jan-22 A							 					ļļ.					ļļ						¦
WB TBM Tunnelling CH6659-6660 18m			28-Jan-22 A							; ;-					ļ						ļ <u>.</u>					ļ
WB TBM Tunnelling Stoppage due to Additional Mass Fill			12-Feb-22 A	ļ						<u> </u> 	<u>.</u>				<u> </u>				ļ <u> </u>		.					<u>.</u>
WB TBM Tunnelling Stoppage due to Covid-19 outbreak		13-Feb-22 A		ļ							ļļ				<u> </u>						ļ			<u>-</u>		ļļ
WB TBM Tunnelling CH6660-6665 B/I Plug 23m		01-Mar-22 A		ļļ	- -						ļļ		ļ		<u> </u>			ļļ.		ļļļ	ļ			ļļ.		ļļ
WB TBM Tunnelling CH6665-6710 ALL/CDG 68m		02-Mar-22 A		ļ						 	ļļ		 		<u>.</u>			 		ļ	ļ					; ;
WB TBM Tunnelling CH6710-6725 ALL/CDG 83m		11-Mar-22 A								 - -			ļ. 													ļ
WB TBM Tunnelling CH6725-6732 ALL/CDG 90m		14-Mar-22 A	'						 							 									 	
WB Stoppage due to Disc Cutter Issue	7	05-Apr-22 A		1 i	_ i i														<u> </u>							
WB TBM Tunnelling CH6732-6752 ALL/CDG 110m	7	07-May-22 A	23-May-22 A	BM Tunn	elling CH 6	32-6752	2 ALL/C	DG 110m			<u> </u>		<u> </u>					<u> </u>	ll							
WB TBM Stoppage due to Maind Drive issue	7	24-May-22 A	17-Jul-22 A		+ +	-	+			toppage due						 										
WB TBM Tunnelling CH6752-6756 ALL/CDG 114m	1	18-Jul-22 A	22-Jul-22 A						WB T	BM Tunnellir	g CH675	2-6756 AL	L/CDC	G 114m												
WB TBM Tunnelling CH6756-6777 CDG/Boulder 135m	4	23-Jul-22 A	31-Jul-22 A						1	WB TBM	Tunnellin	g CH 6 756	-6777	CDG/Boulder 13!	5m										 	
WB TBM Tunnelling CH6777-6789 CDG/Boulder 147m	3	01-Aug-22 A	06-Aug-22 A	I						WB	TBM Tur	nelling CI	H6777-	-6789 CDG/Bould	er 147m										!	
WB TBM Tunnelling CH6789-6797 ALL/CDG 155m	38	07-Aug-22 A	12-Aug-22 A	T ::							WB TB	M Tunnel	ing CH	16789-6797 ALL/	CDG 155	m					1 :			-		
WB TBM Stoppage for ISIG 1 Installation	9	13-Aug-22 A	26-Aug-22 A	T								WE	ТВМ :	Stoppage for ISIO	5 1 Instal	lation					1					:
WB TBM Tunnelling CH6797-7098 ALL/CDG 456m	37	27-Aug-22 A	28-Sep-22 A	<u> </u>							7		1		WE	3 TBM Tur	nelling C	H6797	098 ALL/C	DG 456m	† -			-	-	; <u> </u>
WB TBM Tunnelling CH7098-7198 ALL/CDG 556m	11	29-Sep-22 A	10-Oct-22	t i							T				Ţ <u>-</u>	- V	VB TBM	Tunnellir	g CH 7098	7198 ALL/CDG 55	6m					
WB TBM Tunnelling CH7198-7218 ALL/CDG 576m	2	11-Oct-22	12-Oct-22	ti		·									i-		WB TB	M Tunne	ing CH719	8-7218 ALL/CDG 5	576m			1		
WB TBM Tunnelling CH7218-7240 CDG/Boulder 598m	3	13-Oct-22	15-Oct-22	ļ <u></u>		·	-			H	1				† 		■ WB	TBM Tur	nelling CH	7218-7240 C DG/Bo	oulder 5	98m				ļ <u>i</u>
WB TBM Tunnelling CH7240-7284 ALL/CDG 642m		16-Oct-22	19-Oct-22			·	-				1				‡ 		- 3		1	ÇH7240-7284 ALL						<u> </u>
WB TBM Tunnelling CH7284-7379 ALL/CDG 737m		20-Oct-22	28-Oct-22	 		· 				H	† <u>†</u>				‡ 			!!-	1	innelling CH7284-7		!			<u>-</u>	; <u>;</u>
WB TBM Tunnelling CH7379-7391 CDG/Boulder 749m		29-Oct-22	30-Oct-22							-	- 				 			! ! .	1	Tunnelling CH 7379	1		749m		-	
WB TBM Tunnelling CH7391-7434 Boulder 792m		31-Oct-22	06-Nov-22								 				 			: -	l i	TBM Tunnelling (
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Page 22 of 29 ♦ Milestone Planned Bar				–		_		- -		_			, .	, .						Date 18-Dec-19	00'	Revision V1	WYu	necked	Appr	ovea
Data Date: 30-Sep-22		ED/2	2018/0)4 T	runk	R	oad	12	and I	ntras	truc	ture	· W	orks						22-Feb-20	00'		SPa/l		WYu	
◆ Actual Milestone			1	or I)eve	lon	me	nte :	at So	uth ∆	nro	n				BC	UYG	UES		09-Apr-20	01		SPa/l		WYu	
Actual Work			•	OI L		ηυρ	,,,,,	1110	at 00	411 /-	טוקי				\	TRAV	AUX I	PUBLIC	5	17-Jul-20	01		SPa/l		WYu	
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			Three	اVI ا	אוונו!	> 17	UIII	iy P	rogra	шшн	(36	- p-2	(2							02-Jul-21	02	V0	SPa/l	LLo	WYu	
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Activity Name	Dur	Start	Finish						_				2022				_						202	
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WB TBM Tunnelling CH7434-7466 CDG/Boulder 824m	4	07-Nov-22	10-Nov-22																WB TBM Tunnelling	CH7434-74	66: C DG/B	oulder 824	lm	
WB TBM Tunnelling CH7466-7623 ALL/CDG 981m	15	11-Nov-22	25-Nov-22	† †		i										ii			WB -	TBM Tunnell	ng CH746	6-7623 AL	L/CDG 981	m i
WB TBM Tunnelling CH7623-7650 CDG/Boulder 1008m	4	26-Nov-22	29-Nov-22															- 	<u> </u>	NB TBM Tur	nelling CF	7623-765	0 CDG/Boul	der 1008m
WB TBM Tunnelling CH7650-7722 ALL/CDG 1080m	7	30-Nov-22	06-Dec-22				1 1									11								/CDG 1080m
WB TBM Tunnelling CH7722-7792 CDG/Boulder 1150m	9	07-Dec-22	15-Dec-22					<u></u>		}}											WB TB		ng CH 7722-	7792 CDG/Bo
WB TBM Tunnelling CH7792-8445 ALL/CDG 1803m	53	16-Dec-22	06-Feb-23					<u></u>	}	} <u>}</u>								\\-						
Gallery B Installation	321		30-Jan-23				- 													-				
WB TBM Tunnel - Gallery B CH7103-7203 100m CP12	10	09-Dec-22	20-Dec-22															 				 3 TBM Tur	nel - Galler	B CH7103-7:
WB TBM Tunnel - Gallery B CH7203-7303 100m CP13	7	21-Dec-22	30-Dec-22															 - 					TBM Tunn	el - Gallery B (
WB TBM Tunnel - Gallery B CH7303-7403 100m CP14	7	31-Dec-22	09-Jan-23															 						1 ,
WB TBM Tunnel - Gallery B CH7403-7503 100m CP15	7	10-Jan-23	17-Jan-23				-																1 1	WB TBM T
WB TBM Tunnel - Gallery B CH7503-7603 100m CP16	8	18-Jan-23	30-Jan-23							} <u>}</u>														
Forecast	248	27-Dec-21 A	08-Oct-22																					
Spreader Beam, Hook, Hook Block etc(from Italy by sea)		27-Dec-21 A				·				} <u>-</u>														
Wheels (from Italy by air)		30-Dec-21 A																						
Ramp delivery (from China by road)		06-Jan-22 A																						
Loader (from China by road)			26-Jan-22 A															 						
<u> </u>		27-Jan-22 A						¦	}	} <u></u>				 										
Ramp pre-assembly at surface		17-Feb-22 A								ļ <u></u>				·										
Loader pre-assembly at surface										 	or ICIC in	to Chaft		·				 						
Lower ISIG into Shaft	3	14-Aug-22 A								L L	er ISIG in		_			.		 						
Gallery G-W1 to W4 by crawler crane @ 1 no/d	2	16-Aug-22 A						 		ļ <u>-</u>		<u>-</u>	by crawler cran		/a ¦			 -						
Thrust Frame Removal		18-Aug-22 A						<u> </u>			Thrust Fr		movai embly of Spread			.		\ \		ļļ.				
Install abd Assembly of Spreader Beam	6	18-Aug-22 A																¦ 						
Gallery EMVD installation by crawler crane		22-Aug-22 A											nstallation by cr		ne ¦									
ISIG Commissioning		24-Aug-22 A										ISIG Co	ommissioning			.]		 						
Gallery G-W5 to G-W11 installation by ISIG		31-Aug-22 A	12-Sep-22 A										Gallery G	. i		llation by IS								
WB ISIG Gallery B Installation start		31-Aug-22 A				.		ļ		ļ ļ	•		G Gallery B Inst											
Gallery B installation FTR-11 to FTR-7	3	13-Sep-22 A	13-Sep-22 A				<u> </u>						■ Gallery B	installatio	on FTR-11	to FTR-7								
Steel Bridge Installation	1	14-Sep-22 A	14-Sep-22 A	<u> </u>		<u>.</u>							■ Steel Bri	idge Insta	Illation									
WB Sub-sea Galery B Installation started	0	15-Sep-22 A											♦ WB Sub	b-sea Gale	ery B Insta	allation star	ted							
WB Gallery B CH6642-6742 100m @4nos/day	11	15-Sep-22 A	29-Sep-22 A											WE	3 Gallery	B CH6642-	6742 100m	@4nos	/day					
WB Gallery B CH6742-6855 80m @6nos/day	6	30-Sep-22 A	08-Oct-22					;;; 							WB	Gallery B	CH6742-68	55 80m	@6nos/day	-;				
SUB-SEA TBM TUNNEL - EASTBOUND	342	14-Dec-21 A	03-Feb-23					;;										;;-		-;				
TBMAssembly	140	14-Dec-21 A	10-Mar-22 A	+					- - - - -	- 					!									
Lifting & Welding of Tailskin to Shield	62	14-Dec-21 A	06-Jan-22 A				- 									1 1		- 						
Air / Water / Hydraulic Electrical Connections	22	20-Dec-21 A	06-Jan-22 A																					
Testing & Commissioning	26	26-Dec-21 A	10-Mar-22 A													11		{ 						
Thrust Frame Installation	22	30-Dec-21 A	06-Jan-22 A	-		 		{ <u> </u>		} <u>}</u>		 -				ii		{						
Power On	3	07-Jan-22 A	07-Jan-22 A	-								 -												
S1282 EB TBM Break-in	0		10-Mar-22 A																					
TBM Tunnelling	290	11-Mar-22 A	02-Feb-23													4								
EB TBM Tunnelling CH6640-6665 B/I Plug 25m			25-Mar-22 A													1								
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m			02-Apr-22 A							} <u>}</u>				 				(<u>-</u>						
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	7	03-Apr-22 A	•	56 ALL/CD	G 116m	 				} <u>}</u>				 		· †		{ <u>{</u> -						
EB TBM Tunnelling CH6756-6775 CDG/Boulder 135m	4	28-Apr-22 A		· ·		135m				 		 		 										
WB TBM Stoppage for ISIG 1 Installation			12-May-22 A	1 i						<u> </u>								:i		-				
EB TBM Tunnelling CH6775-6789 CDG/Boulder 149m		13-May-22 A		[:			G/Boulder 149	m		} <u>}</u>				 										
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m		22-May-22 A				حتاجات	/I:Tunne(ling CI	أنانا والمال والمالا	L/CDG 452n	ļ <u>ļ</u>				 				{ <u>}</u> -						
	30	22-1VIAY-22 A	Z1-JUII-ZZ A	i		וטו ק	n, runincilling Cl	107 07-7 070 AL	4000	<u>! i</u>	i		<u> </u>	i	<u> </u>	<u> </u>	-	<u> </u>		1 5 .	ion I	Ch - '	-	normal
Page 23 of 29 ♦ Milestone				—		_			_				.						Date 18-Dec-19	Revis 00V1		Check VYu	ea A	pproved
Data Date: 30-Sep-22		ED/2	2018/0)4 Tr	unk l	₹0	ad T2	and li	ntrast	ruc	ture	Wc	orks 📙						22-Feb-20	01V0		Pa/LLo	WY	
◆ Actual Milestone			f	or D	evel	n	nents	at So	uth Δ	nr∩	n				BO	UYGI	JES)	09-Apr-20	01V1		Pa/LLo	WY	
Actual Work				טוט	CVCIC	ואי		at oo	aui A	ριΟ					TRAV	AUX PU	BLICS	/	17-Jul-20	01V2		Pa/LLo	WY	
			Throa	. \ / _	ntha	D	llina F)roaro	mma	(0.	an 0	2)							09-Oct-20	01V3		Pa/LLo	WY	
			111166	IVIO	าเนาร	Ľζ	lling F	rogra	шше	(3)	- P-2	. ()							02-Jul-21	02V0	5	Pa/LLo	WY	ı
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1	rity Name	Dur	Start	Finish											2022												23
Description Control					9 05		9 26	03	July 10 1	7 24	31 07		21 28	3 (25			23	30 06		27		mber 18	25		uary 15 22
Substantive Cooks Assamption Assamptio	EB Gallery B CH6642-6742 100m @4nos/day	11	20-Jun-22 A	07-Jul-22 A																							
CF TRANSCORPER March 1997	EB Gallery B CH6742-6855 80m @6nos/day	6	08-Jul-22 A	20-Jul-22 A	1				, ,	EB Galle	ery B CH67	12-6855 8	0m @6no	/day			,			† <u> </u>							
Character 16 16 16 17 17 17 18 18 18 18 18	SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a/b)	350	10-May-21 A	02-Mar-23													+	:					 ! !				
Fig. 12		144	10-May-21 A	19-Mar-22 A	† <u>†</u>									 -			 									<u>-</u> <u>-</u>	
All			,		† 			-									 				1					<u>- - - - - - </u>	
OPP containing Fasterdame	FAT	24	11-Feb-22 A	28-Feb-22 A	† <u>†</u>		·									† 	 	 					<u> </u>				
OPP containing Fasterdame	Delivery of TBM components to the Site	24	01-Mar-22 A	19-Mar-22 A	† -							;				į	;			† -							
Characteristic Systems		279	17-Dec-21 A	03-Feb-23	1	·		-												·	1						
Primate Page Segret 19%	-	18	17-Dec-21 A	15-Jan-22 A		1											 			T							
Primate Page Segret 19%		18	17-Jan-22 A	29-Jan-22 A																							
CP-scaling System 37X See 19 See		24	31-Jan-22 A	19-Feb-22 A													 									<u>-</u>	
CF Presentating Separat 47h		24	21-Feb-22 A	30-Mar-22 A	† 											† 	; ;	 									
OP-result in grouper 50% 2 24,52 25,52 24 25,52		5	31-Mar-22 A	26-Apr-22 A	6												;			† -							
CP-result into Sept. 475		24	27-Apr-22 A	23-May-22 A																† 							
CF Procest Ling Squared APS		24	24-May-22 A	03-Sep-22 A																							
CPP-cent September 196 2 196.00		24	05-Sep-22 A	07-Oct-22	† <u>†</u>												- CF	^o Precasi	t Finina S∈	ebment- 609	%i i	i i				<u>L</u>	
CP CP CP CP CP CP CP CP		24	·		 									 -			 			CP F	Precast Lining	Segmen	t - 70%			 	
CPP-Descellaring Segment PAN		24		02-Dec-22	-															ļ 	4	! :	CP Precast	Lining S		- 80%	
PPerson Front Support 1006		24			t -															t -						CP Preca	st Lining Seg
CP7-WIT TypepameClatanic CNRSS		24	04-Jan-23	03-Feb-23	l 															· 	1		<u>-</u>				
CP - W3 Tympuran Chi arcs C100765		96	25-Oct-22	20-Feb-23												‡ -	<u> </u>									<u>-</u> <u>i</u>	
CP1 WB - Typeparum Circle code Sch004		24	25-Oct-22	21-Nov-22	† <u>†</u>									 -		ļ	 			+	C	P7 - WB	- Tym panur	n Civil wo	orks CH6	6705	
CP1 WB - Typeparum Circle code Sch004		24	08-Nov-22	05-Dec-22	† 												 			·			CP8 - W	B - Tymp	anum C		
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CP1 - WB - Typepare Cold conts CH702		24	06-Dec-22		t -															·						CP10 -	 WB - Tympar
CP12 W6 Tympanum Child sons CH2003 24 0.5 Jan 23 0.6 Feb 23		24			t -	-44										ļ	i			· 	.i		<u>-</u>				CP11 -
## 2012-08-1 (sprighture Cleff works CH790)	<u> </u>	24	06-Jan-23		<u> </u>									<u> </u>		‡	 				4						
EB CP Tymparum Structure	<u>- : :</u>	24			 									<u>-</u>		† 	 						 				
CP7 E8 Tympanum Cnlv works CH6705 CP8 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6703 24 05 0ct 22 31 0ct 22 CP9 E8 Tympanum Cnlv works CH6704 CP9 E8 Tympanum Cnlv works CH6704 CP9 E8 Tympanum Cnlv works CH6704 CP9 E8 Tympanum Cnlv works CH6704 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH6705 CP9 E8 Tympanum Cnlv works CH7004 CP1 E8 Tympanum Cnlv works CH7004 CP1 E8 Tympanum Cnlv works CH7005 CP1 E8 Tympanum Cnlv works	- -				-											ļ											
CP8 - EB - Tymparum Chil works CH6603 24 03 Oct 22 31 Oct 22			·		l									-		÷	; 				Tympanum Ci	ivll works	CH6705				
CP9 - EB - Tympanum Chill works CH6901		24			t -															CP8 - EI	3 - Tympanum	n Civil wo	rks CH6803				
CP10 EB Tympanum Civiliwarks CH7004 24 01 Nov 22 28 Nov 22		24		25-Nov-22	ļ <u></u>											1	<u> </u>			+			<i>y</i> 1	1 1	- 1	CH6904	
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CP13 - EB - Tympanum Civil works CH7303 24 24 - Dec 22 27 - Jan 23 CP14 - EB - Tympanum Civil works CH7403 24 29 - Dec 22 30 - Jan 23 CP15 - EB - Tympanum Civil works Ch7503 24 29 - Jan 23 - Learning Curve CP TBM Pipe Jacking 70 22 - Nov-22 30 - Jan 23 - Learning Curve	CP12 - EB - Tympanum Civil works CH7203	24	29-Nov-22	28-Dec-22	† -												;			† -						P12 - EB - Tyr	mpanum Civil
CP14 - EB - Tympanum Civil works CH7403 24 29-Dec-22 30 Jan-23 24 Feb-23 24 Feb-23 24 Feb-23 25		24	24-Dec-22	27-Jan-23	† 																						
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CP TBM Pipe Jacking 70 22-Nov-22 30-Jan-23 CP7 to CP8 70 22-Nov-22 30-Jan-23 CP7 - CP TBM cyde - Learning Curve 42 22-Nov-22 02-Jan-23 CP8 - CP TBM cyde - Learning Curve 28 03-Jan-23 30-Jan-23 CP Internal & Collar Structure 48 03-Jan-23 02-Mar-23 CP7 - Internal & Collar Structure 48 03-Jan-23 02-Mar-23 SUB-SEA TUNNEL INTERNAL & FINISHING 62 22-Nov-22 08-Feb-23 Corbal 62 22-Nov-22 08-Feb-23 Westbound 62 22-Nov-22 08-Feb-23 WB - TBM Tunnel - Corbal Structure up to CP7 9 22-Nov-22 01-Dec-22 Page 25 of 29 A Mestore Date Revision Necked A		24	28-Jan-23	24-Feb-23												†	 			·							
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