Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report

(under EP-458/2013/C)

July 2025

(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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RAMBOLL

Ref.: CEDKTDT2EM00_0_0782L.25

13 August 2025

By Post and Email

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

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (July 2025) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for July 2025 (Version 1.0) certified by the ET Leader and provided to us via email on 13 August 2025. 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.

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

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

Y H Hui
Independent Environmental Checker

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

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TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY 1

Introduction 1
Summary of Main Works Undertaken and Key Measures Implemented 1
Environmental Monitoring Works 2
Key Information in the Reporting Month 4
Reporting Changes 5
Future Key Issues 5

1. INTRODUCTION 6

Background 6
Purpose of the Report 7
Project Organizations 7
Construction Activities undertaken during the Reporting Month 8
Summary of EM&A Requirements 8
Status of Environmental Licensing and Permitting 9

2. AIR QUALITY 10

Monitoring Requirement 10
Monitoring Locations 10
Monitoring Parameters and Frequency 10
Monitoring Equipment 11
Monitoring Methodology 11
Results and Observations 13
Comparison of EM&A Result with EIA Prediction 14

3. NOISE 17

Monitoring Requirements 17
Monitoring Locations 17
Monitoring Parameters, Frequency and Duration 17
Monitoring Equipment 18
Monitoring Methodology and QA/QC Procedure 18
Maintenance and Calibration 18
Results and Observations 19
Comparison of EM&A Result with EIA Prediction 20

4. WATER QUALITY 21

Monitoring Requirement 21

5. WASTE MANGEMENT 21

6. ECOLOGY 22

7. FISHERIES 22

8. CULTURAL HERITAGE 22

9. LANDSCAPE AND VISUAL IMPACT 23

10. LANDFILL GAS MONITORING 23
Monitoring Requirement 23
11. HAZARD TO LIFE 23
12. ENVIRONEMNTAL AUDIT 24
Site Audits 24
Implementation Status of Environmental Mitigation Measures 24
Implementation Status of Event and Action Plans 25
13. ENVIRONMENTAL NON-COMFORMANCE 25
Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution 25
Summary of Exceedance 25
14. FUTURE KEY ISSUES 25
Monitoring Schedule 26
15. CONCLUSION AND RECOMMENDATION 27
Conclusions 27
Recommendations 27

LIST OF TABLES

Table I Summary of Key Construction Work in the Reporting Month
Table II Summary of Key Mitigation Measures Implemented in the Reporting Month
Table III Non-compliance (exceedance) Record for the Project in the Reporting Month
Table IV Monthly Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month
Table V Summary of Complaints Details in Reporting Month
Table VI Summary Table for Site Activities in the next Reporting Period
Table 1.1 Key Project Contacts
Table 1.2 Summary of Key Construction Work in the Reporting Month
Table 1.3 Summary of Environmental License and Permit
Table 2.1 Air Quality Monitoring Locations
Table 2.2 Frequency and Parameters of Air Quality Monitoring
Table 2.3 Air Quality Monitoring Equipment
Table 2.4 Major Dust Source during Air Quality Monitoring
Table 2.5 Comparison of 1-hr TSP Monitoring Data with Predictions in EIA Report
Table 2.6 Comparison of 24-hr TSP Monitoring Data with Predictions in EIA Report
Table 3.1 Noise Monitoring Stations
Table 3.2 Frequency and Parameters of Noise Monitoring
Table 3.3 Noise Monitoring Equipment
Table 3.4 Other Noise Source Identified during Noise Monitoring
Table 3.5 Baseline Noise Level and Noise Limit Level for Monitoring Stations
Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report
Table 10.1 Landfill Gas Monitoring Equipment (not used)
Table 12.1 Observations and Recommendations of Site Audit
Table 14.1 Site Activities and the Key Environmental Issues in the next Reporting Period

LIST OF FIGURES

Figure 1 Site Layout Plan
Figure 1.2 Organizational Structure for Environmental Management
Figure 2 Locations of Air Quality and Construction Noise Monitoring Stations

LIST OF APPENDICES

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

EXECUTIVE SUMMARY

Introduction

1. This is the 63rd 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", and Contract No. ED/2020/03 "Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of July 2025.

Summary of Main Works Undertaken and Key Measures Implemented

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

Table I Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	• East Bound – Tunnel excavation • EVB – ABWF • EVB – E&M works
ED/2020/03	Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works	• EVB – Installation of TCSS Cable Containment

3. Implementation of the key mitigation measures during the reporting period are as follows:

Table II Summary of Key Mitigation Measures Implemented in the Reporting Month

Contract No. and Project Title	Key Mitigation Measures Implemented
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	*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.

	Waste Management • Avoid accumulation of construction waste and general refuse.
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works	*Waste Management* • Avoid accumulation of construction waste and general refuse.

Environmental Monitoring Works

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

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

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

Environmental Monitoring	No. of Non-compliance (Exceedance)		No. of Non-compliance (Exceedance) due to Construction Activities of this Project		Action Taken
	Action Level	Limit Level	Action Level	Limit Level	
Air Quality	0	0	0	0	N/A
Noise	0	0	0	0	N/A
Marine Water Quality	N/A	N/A	N/A	N/A	N/A
Groundwater Level Monitoring (Piezometer Monitoring)	N/A	N/A	N/A	N/A	N/A
Ecological	N/A	N/A	N/A	N/A	N/A
Cultural Heritage	N/A	N/A	N/A	N/A	N/A
Landfill Gas	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 Level exceedance and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

8. No Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table IV**.

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 are 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 IV Summary of Complaints, Notifications of Summons and Successful Prosecutions in the Reporting Month

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

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

Table V Summary of Complaints Details in Reporting Month

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

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 VI Summary Table for Site Activities in the next Reporting Period

Contract No. and Project Title	Site Activities (August 2025)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	• EVB – ABWF • EVB – E&M works • East Bound – Tunnel excavation	(A) / (B) / (C) / (D) / (E)
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works	• EVB – Installation of TCSS Cable Containment	(E)

Notes:
(A) Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works;
(B) Noisy construction activity such as breaking and drilling activities;
(C) Runoff from exposed slope or site area;
(D) Wastewater and runoff discharge from site; and
(E) Accumulation of construction waste or general refuse.

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. Moreover, the Contract No. ED/2020/03 is the other contract under Truck Road T2 Project which comprises mainly design and construction of the TCSS for this Project. The EM&A programme under the Contract ED/2018/04 and ED/2020/03 are 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 these Contracts and corresponding EPs are summarized as follows:

Environmental Permit	Works Description
EP-451/2013 – Trunk Road T2	*ED/2018/04* ● Construction of highway and sub-sea tunnel connecting between Central Kowloon Route and Cha Kwo Ling Tunnel ● Western & Eastern Ventilation Buildings *ED/2020/03* Design and construction of TCSS for Trunk Road T2
EP-458/2013/C – Tseung Kwan O – Lam Tin Tunnel (TKOLTT) and Associated Works	*ED/2018/04* ● Construction of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building *ED/2020/03* ● Design and construction of TCSS for Trunk Road T2

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

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

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

Purpose of the Report

1.6 This is the 63rd Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in July 2025.

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) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)

1.8 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
		Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor (ED/2018/04)	Mr. Roy Leung	6628 2685
GTECH	Contractor (ED/2020/03)	Mr. Deacon Choi	6038 3568

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:

Table 1.2 Summary of Key Construction Work in the Reporting Month

Contract No.	Project Title	Site Activities
ED/2018/04	Trunk Road T2 and Infrastructure Works for Developments at South Apron	• East Bound – Tunnel excavation • EVB – ABWF • EVB – E&M works
ED/2020/03	Trunk Road T2 – Traffic Control And Surveillance System (TCSS) and Associated Works	• EVB – Installation of TCSS Cable Containment

Summary of EM&A Requirements

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

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental mitigation measures, as recommended in the Project EIA Report.

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in July 2025.

Status of Environmental Licensing and Permitting

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

Table 1.3 Summary of Environmental License and Permit

Permit / License No.	Valid Period		Status
	From	To	
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 (Construction Dust) Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid
Billing Account for Construction Waste Disposal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid
Construction Noise Permit			
CNP No. (For Portion U): GW-RE0272-25	01 Apr 2025	30 Sep 2025	Valid
CNP No. (For Portion T1): GW-RE0385-25	16 Apr 2025	15 Sep 2025	Valid
CNP No. (For Portion Q): GW-RE0696-25	01 Jul 2025	31 Dec 2025	Valid
CNP No. (For Portion T1): GW-RE0861-25	28 Jul 2025	27 Jan 2026	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	Yau Lai Estate Bik Lai House	Rooftop (41/F)
AM4(1)	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(B)(2) (*) (**)	Flat 103 Cha Kwo Ling Village	Ground Level

Remarks:
(1) For 1-hour TSP monitoring;
(2) For 24-hour TSP monitoring
(*) Air quality monitoring at designated station AM4 (24-hr TSP) was rejected by the premise owners. Therefore, baseline and impact air quality monitoring works were carried out at alternative air quality monitoring stations AM4 (A) (24-hr TSP only)
(**) AM4(A) is not available for conducing monitoring due to the demolition of administrative office.

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

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	Model	Quantity
1-hour TSP Dust Meter	Sibata Model No. LD-5R (Serial No.: 972777, 972778, 972780, 8Y2374, 8Y2373, 972781, 2Y6194)	7
HVS Sampler	GMW model: GS2310 (Serial No.: 1287, 10379, 10599)	3
	TE 5170 (Serial No.: 1956)	1
Calibrator	TISCH Model: TE-5025A (Serial No.: 3864)	1
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (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 meters apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;
- Airflow around the sampler is unrestricted;
- The sampler is more than 20 metres from the dripline;
- Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

2.11 Operating/analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between 0.6 m^3/min. and 1.7 m^3/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 aluminium strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

2.12 The following maintenance/calibration is required for the HVS:

- The high-volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
  High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

Results and Observations

2.13 The impact monitoring works for air quality monitoring locations AM1, AM2, AM3 and AM4 are completed by the ET of Agreement No. CE 59/2015 (EP), and the data will be adopted in this report. As the proposal for relocation approved, the monitoring at AM4(A) will be 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 Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and No 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
AM1 – Tin Hau Temple	Road Traffic at Cha Kwo Ling Road, non-project related influence and the construction activity from other construction site (i.e underground utility work in TKOLTT project)
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road
AM3 – Yau Lai Estate Bik Lai House	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related influence and the construction activity from other construction site (i.e road paving work in TKOLTT project)
AM4 - Sitting-out Area at Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road
AM4(B) (**) - Flat 103 Cha Kwo Ling Village	Road Traffic at Cha Kwo Ling Road (*)

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

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

Comparison of EM&A Result with EIA Prediction

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

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

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 (July 2025), µg/m³
AM1 – Tin Hau Temple	CL1	707	54.6
AM2 – Sai Tso Wan Recreation Ground	CL6	266	73.5
AM3 – Yau Lai Estate Bik Lai House	CL9	507	51.3
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	43.2

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/m³	Maximum 24-hr TSP Concentration in the Reporting Month (July 2025), µg/m³
AM1 – Tin Hau Temple	CL1	199	40.1
AM2 – Sai Tso Wan Recreation Ground	CL6	109	37.0
AM3 – Yau Lai Estate Bik Lai House	CL9	123	29.6
AM4(B) – Flat 103 Cha Kwo Ling Village (*)	N/A (1)	N/A (1)	121.7 (**)

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 refers 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 Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and no 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	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L_{10}(30 min.) dB(A) L_{90}(30 min.) dB(A) L_{eq}(30 min.) dB(A)	Façade Measurement
CM2					Façade Measurement
CM3					Façade Measurement
CM4					Façade Measurement
CM5					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	BSWA 308 (Serial No.: 570187, 580238, 570188) SVAN 957 (Serial No.: 23851)	4
Calibrator	AWA6021A (Serial No.: 1023253, 1023064)	2

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}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

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

3.7 The sound level meter and calibrator were checked and calibrated at yearly intervals.

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

Results and Observations

3.9 The data obtained from the impact monitoring works completed by the ET of Agreement No. CE 59/2015 (EP) will be adopted in this report.

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

3.11 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 related construction activities (i.e road paving work in TKOLTT project)
CM2	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project related construction activities (i.e road paving work in TKOLTT project)
CM3	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project related construction activities (i.e road paving work in TKOLTT project)
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction activities (i.e underground utility work in TKOLTT project)
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, 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	75
CM2	63.6	
CM3	65.6	
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 (July 2025), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	69
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	70
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	68
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	60
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	68

3.15 The results at CM1, CM2, CM3, CM4 and CM5 were lower than the maximum predicted mitigated construction noise level in EIA Report, AEIAR-173/2013 (as approved in 2013). 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 MANGEMENT

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

5.2 With reference to relevant handling records of this Project, the quantities of different types of waste generated in the reporting month are summarised and presented in **Appendix H**.

6. ECOLOGY

Post-Translocation Coral Monitoring

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

7. FISHERIES

7.1 According to Section 7.1.3 of EM&A Manual (AEIAR-173/2013), no specific fisheries monitoring programme is required during the construction phase.

7.2 The implementation of the mitigation measures stated in the Water Quality Impact Assessment (Refer to Section 5 of EIA Report (AEIAR-173/2013)) will be audited as part of the EM&A procedures during the construction period. The summaries of site audits are attached in **Appendix I**.

8. CULTURAL HERITAGE

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

8.2 As the construction works of Cha Kwo Ling Tunnel from the end of Trunk Road T2 to the TKOLTT at the Eastern Ventilation Building are located more than 100m away from the Cha Kwo Ling Tin Hau temple, the vibration impact monitoring stated in Section 8.3.1 of the EM&A Manual (AEIAR-173/2013) is not applicable to Contract No. ED/2018/04.

Mitigation Measures for Cultural Heritage

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

8.4 As there is a large buffer distance from the current works to Cha Kwo Ling Tin Hau Temple and the Fung Shui rocks (Child-given rocks), the temporarily fenced-off rocks buffer zone and from the edge of Rocks alter is not required. The fenced-off rocks buffer zone would be implemented when there are 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. ENVIRONEMNTAL 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 for each contract were conducted as follows.

- ED/2018/04 - Site audits were conducted on 03, 10, 17, 24 & 31 July 2025 in the reporting month. Site inspection of the IEC was conducted on 10 July 2025. No non-compliance was observed during the site audit.

- ED/2020/03 - Site audits were conducted on 03, 11, 17, 24 & 31 July 2025 in the reporting month. Site inspection of the IEC was conducted on 11 July 2025. 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	N/A	There was no observation in the reporting period.	N/A
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	N/A	There was no observation in the reporting period.	N/A
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste/Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

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

Construction Noise Monitoring

- No 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-COMFORMANCE

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:

Table 14.1 Site Activities and the Key Environmental Issues in the next Reporting Period

Contract No. and Project Title	Site Activities (August 2025)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	• EVB – ABWF • EVB – E&M works • East Bound – Tunnel excavation	• Dust generation from haul road, stockpile of dusty materials, exposed site area, excavation works; • Noisy construction activity such as breaking and drilling activities; • Runoff from exposed slope or site area; and • Wastewater and runoff

Contract No. and Project Title	Site Activities (August 2025)	Key Environmental Issues
		discharge from site. • Accumulation of construction waste or general refuse.
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works	• EVB – Installation of TCSS Cable Containment	• Accumulation of construction waste or general refuse.

Monitoring Schedule

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

15. CONCLUSION AND RECOMMENDATION

Conclusions

15.1 This is the 63rd Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

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

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

Construction Noise Monitoring

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

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

Site Audit

15.6 Five (5) ET joint weekly environmental site inspections were conducted for the Contract No. ED/2018/04 in the reporting month.

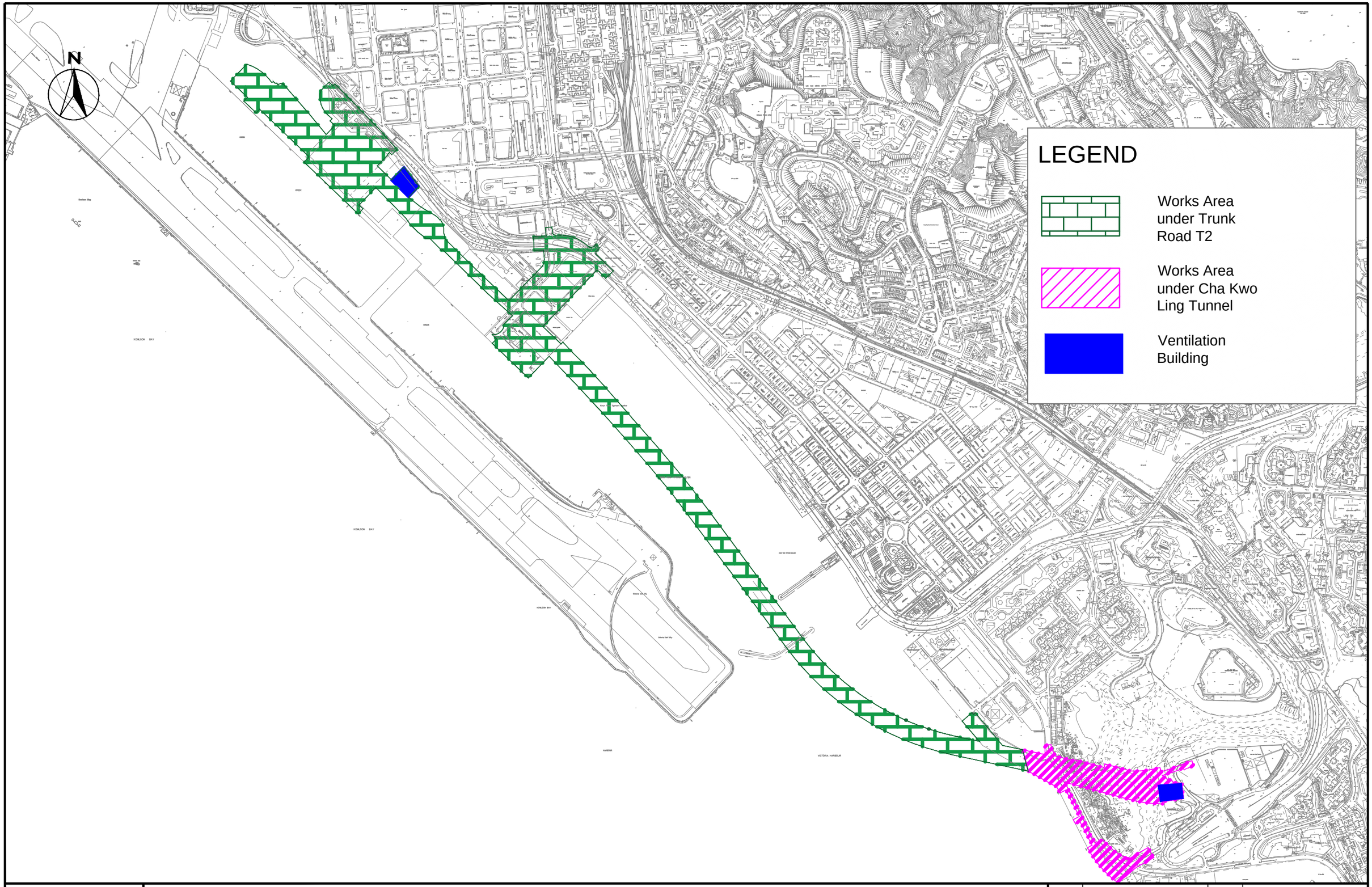
Complaint, Notification of Summons and Successful Prosecution

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

Recommendations

15.8 According to the environmental audit performed in the reporting month, no recommendations were made.

FIGURES

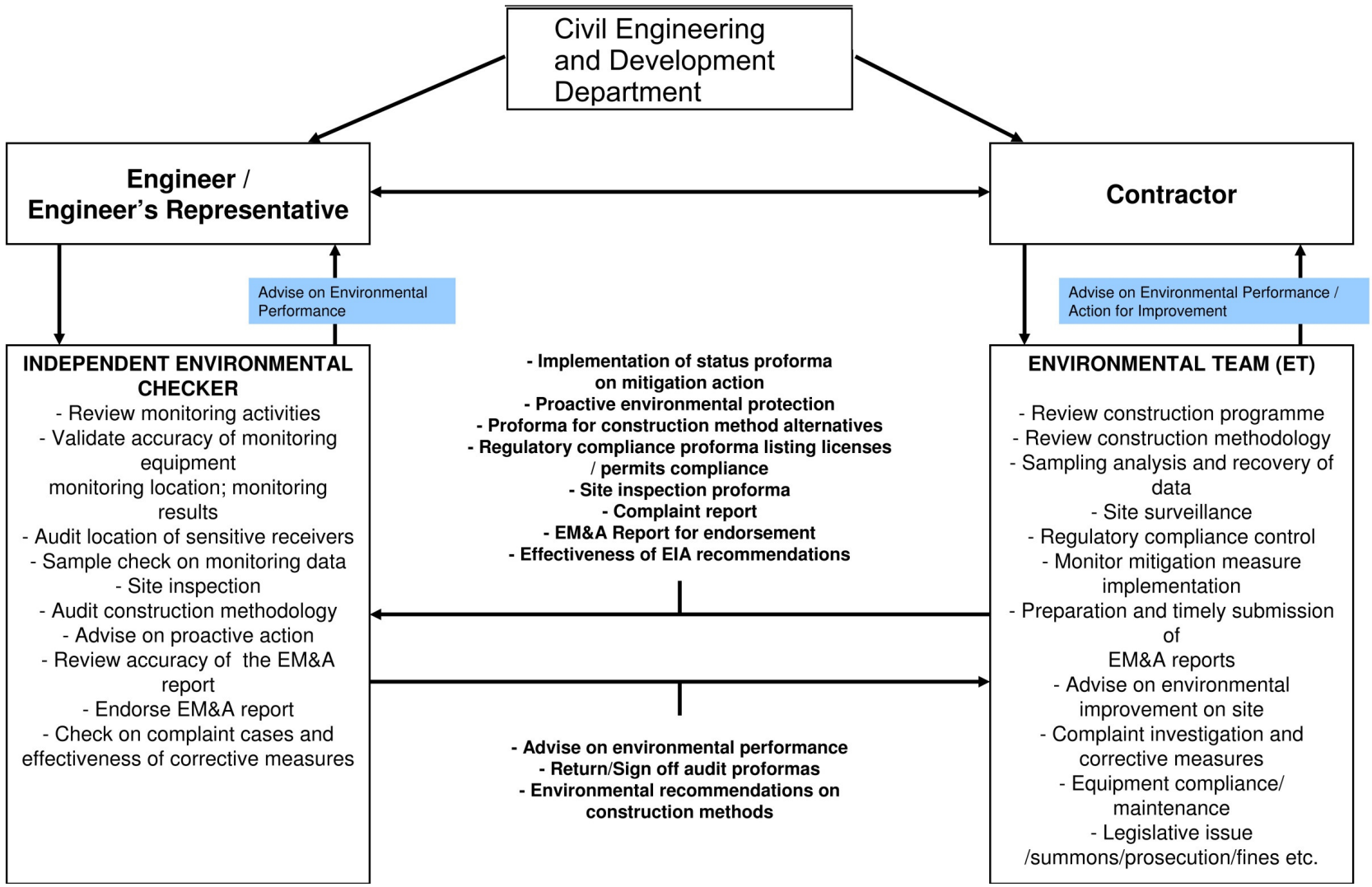


CINOTECH
Cinotech Consultants Limited

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

Site Layout Plan

SCALE	1:10000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No. Fig 1	REV -



Rev.	Description	Date

Drawing title

PROJECT ORGANISATION AND LINES OF COMMUNICATION

Original Size A3

Scale N.T.S

Date 18/JAN/2013

File name

© Copyright reserved

Drawing No. FIGURE 1.2

Rev. –

PLOT DRV: K:\91164 Trunk Road T2\Cad Admin\A3_colour.plt
PRINTED BY: kitchan 1/17/2013 11:33:36 AM

CAD FILE : K:\91164 Trunk Road T2\Report\Draft EIA Report\Figure 6.1.dgn

N

AM2

Eastern Ventilation Building

CM1

CM2/
AM3
(Wind Data)

CKL1

AM4(B)

CKL2

CM4
/AM1

CM5

CM3

VICTORIA HARBOUR

KWUN TONG TSAI WAN
(YAU TONG BAY)

LEGEND

- Works Area under EP-451/2013
- Works Area under EP-458/2013/C
- Eastern Ventilation Building
- Monitoring Station under EP-458/2013/C TKOLTT
- Monitoring Station under EP-451/2013

CINOTECH
Cinotech Consultants Limited

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

Monitoring Station at Lam Tin

SCALE	1:4000@A3	DATE	Jul 22
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

APPENDIX A
ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, µg/m³	Limit Level, µg/m³
AM1	Tin Hau Temple	275	500
AM2	Sai Tso Wan Recreation Ground	273	
AM3	Yau Lai Estate Bik Lai House	271	
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

24-hr TSP

Monitoring Stations	Location	Action Level, µg/m³	Limit Level, µg/m³
AM1	Tin Hau Temple	173	260
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	
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)

[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.

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 Dioxide	>0.5%
	>1.5%

APPENDIX B
COPIES OF CALIBRATION CERTIFICATES

Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	Davis7440
Serial No.:	MC01010A44
Equipment No.:	SA-03-04
Date of Calibration	17-Feb-2025
Next Due Date	17-Aug-2025

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 – V2
0.0	0.0	0.0
1.5	1.4	0.1
2.5	2.4	0.1
4.0	3.8	0.2

2. Performance check of Wind Direction

Wind Direction (^{o})		Difference D (^{o})
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

TISCH Environmental

RECALIBRATION DUE DATE:
January 7, 2026

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 7, 2025	**Rootsmeter S/N:** 438320	**Ta:** 293	°K
Operator:	Jim Tisch		**Pa:** 759.0	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3864**		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4590	3.2	2.00
2	3	4	1	1.0360	6.4	4.00
3	5	6	1	0.9160	8.0	5.00
4	7	8	1	0.8800	8.8	5.50
5	9	10	1	0.7270	12.7	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0114	0.6932	1.4252	0.9958	0.6825	0.8787
1.0071	0.9721	2.0156	0.9916	0.9571	1.2427
1.0050	1.0971	2.2535	0.9895	1.0802	1.3893
1.0039	1.1408	2.3635	0.9884	1.1232	1.4572
0.9987	1.3737	2.8505	0.9833	1.3525	1.7574
QSTD	**m=**	**2.08969**	**QA**	**m=**	**1.30853**
	b=	**-0.02374**		**b=**	**-0.01464**
	r=	**0.99985**		**r=**	**0.99985**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key
ΔH: calibrator manometer reading (in H2O)
ΔP: rootsmeter manometer reading (mm Hg)
Ta: actual absolute temperature (°K)
Pa: actual barometric 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

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

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/05/0054

Project No. AM1 - Tin Hau Temple

Date: 13-Jun-25 Next Due Date: 13-Aug-25 Operator: SK

Equipment No.: A-01-05 Model No.: GS2310 Serial No. 10599

Ambient Condition			
Temperature, Ta (K)	300.5	Pressure, Pa (mmHg)	754.4

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05914	Intercept, bc	-0.02377
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.1	3.59	61.12	8.4	2.88
2	10.2	3.17	53.98	6.2	2.47
3	7.1	2.64	45.10	4.0	1.98
4	5.1	2.24	38.29	2.6	1.60
5	2.7	1.63	27.97	1.3	1.13

By Linear Regression of Y on X

Slope , mw = **0.0530** **Intercept, bw =** **-0.3891**

Correlation coefficient* = **0.9989**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.63**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 13-Jun-25

Checked by: Henry Leung Signature: Date: 13-Jun-25

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/08/0054

Project No. AM2 - Sai Tso Wan Recreation Ground

Date: 13-Jun-25 Next Due Date: 13-Aug-25 Operator: SK

Equipment No.: A-01-08 Model No.: GS2310 Serial No. 1287

Ambient Condition			
Temperature, Ta (K)	300.5	Pressure, Pa (mmHg)	754.4

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05914	Intercept, bc	-0.02377
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.3	3.62	61.58	8.3	2.86
2	10.3	3.18	54.24	6.4	2.51
3	7.7	2.75	46.95	4.2	2.03
4	5.0	2.22	37.92	2.4	1.54
5	3.4	1.83	31.34	1.2	1.09

By Linear Regression of Y on X

Slope , mw = **0.0587** **Intercept, bw =** **-0.7210**

Correlation coefficient* = **0.9987**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.31**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 13-Jun-25

Checked by: Henry Leung Signature: Date: 13-Jun-25

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA16034/03/0054

Project No. AM3 - Yau Lai Estate, Bik Lai House

Date: 13-Jun-25 Next Due Date: 13-Aug-25 Operator: SK

Equipment No.: A-01-03 Model No.: GS2310 Serial No. 10379

Ambient Condition			
Temperature, Ta (K)	300.5	Pressure, Pa (mmHg)	754.4

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05914	Intercept, bc	-0.02377
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.0	3.58	60.89	8.4	2.88
2	10.1	3.15	53.72	6.1	2.45
3	7.3	2.68	45.73	4.2	2.03
4	5.2	2.26	38.66	2.3	1.50
5	3.1	1.75	29.94	1.3	1.13

By Linear Regression of Y on X

Slope , mw = 0.0575 **Intercept, bw =** -0.6335

Correlation coefficient* = 0.9973

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.43**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 13-Jun-25

Checked by: Henry Leung Signature: Date: 13-Jun-25

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/032

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village

Date: 6-May-25 Next Due Date: 6-Jul-25 Operator: SK

Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	300.7	Pressure, Pa (mmHg)	759.1

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05914	Intercept, bc	-0.02377
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.6	3.67	62.44	9.0	2.98
2	11.1	3.31	56.45	7.0	2.63
3	9.2	3.02	51.43	5.8	2.40
4	5.2	2.27	38.76	2.8	1.66
5	3.8	1.94	33.20	2.0	1.41

By Linear Regression of Y on X

Slope , mw = **0.0543** **Intercept, bw =** **-0.4130**

Correlation coefficient* = **0.9995**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.73**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 6-May-25

Checked by: Henry Leung Signature: Date: 6-May-25

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/033

Project No. CKL 2 - Flat 103 Cha Kwo Ling Village

Date: 4-Jul-25 Next Due Date: 4-Sep-25 Operator: SK

Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956

Ambient Condition			
Temperature, Ta (K)	303.8	Pressure, Pa (mmHg)	754.1

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05914	Intercept, bc	-0.02377
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.4	3.61	61.47	9.1	2.98
2	11.2	3.30	56.23	7.2	2.65
3	9.3	3.01	51.27	5.5	2.31
4	5.1	2.23	38.07	2.6	1.59
5	3.7	1.90	32.49	2.0	1.40

By Linear Regression of Y on X

Slope , mw = **0.0551** **Intercept, bw =** **-0.4575**

Correlation coefficient* = **0.9969**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

From the TSP Field Calibration Curve, take Qstd = 43 CFM

From the Regression Equation, the "Y" value according to

mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)]$^{1/2}$

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.76**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 4-Jul-25

Checked by: Henry Leung Signature: Date: 4-Jul-25

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Laser Dust Monitor

Date of Calibration 30-May-25

Manufacturer: Sibata Scientific Technology LTD.

Validity of Calibration Record 30-Jul-25

Model No.: LD-3B

Serial No.: 2Y6194

Equipment No.: SA-01-02

Sensitivity 0.001 mg/m3

High Volume Sampler No.: A-01-03

Before Sensitivity Adjustment 578

Tisch Calibration Orifice No.: 3864

After Sensitivity Adjustment 578

Calibration of 1 hr TSP			
Calibration Point	Laser Dust Monitor		HVS
	Total Count	Count / Minute **X-axis**	Mass concentration (μg/m^3) **Y-axis**
1	4000	75.0	142.0
2	3600	63.0	116.0
3	3000	55.0	102.0
Average		**64.3**	**120.0**

By Linear Regression of Y on X

Slope , mw = **2.0132**

Intercept, bw = **-9.5132**

Correlation coefficient* = **0.9984**

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Laser Dust Monitor

Date of Calibration 30-Jul-25

Manufacturer: Sibata Scientific Technology LTD.

Validity of Calibration Record 30-Sep-25

Model No.: LD-3B

Serial No.: 2Y6194

Equipment No.: SA-01-02

Sensitivity 0.001 mg/m3

High Volume Sampler No.: A-01-03

Before Sensitivity Adjustment 578

Tisch Calibration Orifice No.: 3864

After Sensitivity Adjustment 578

Calibration of 1 hr TSP			
Calibration Point	Laser Dust Monitor		HVS
	Total Count	Count / Minute **X-axis**	Mass concentration ($\mu g/m^3$) **Y-axis**
1	4000	76.0	143.0
2	3600	64.0	115.0
3	3000	53.0	104.0
Average		**64.3**	**120.7**

By Linear Regression of Y on X

Slope , mw = **1.7053**

Intercept, bw = **10.9597**

Correlation coefficient* = **0.9756**

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μ g/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-May-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Jul-25

Model No.: LD-5R

Serial No.: 8Y2374

Equipment No.: SA-01-04 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 652

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 652

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	77.0	133.0
2	65.0	120.0
3	53.0	104.0
Average	**65.0**	**119.0**

By Linear Regression of Y on X

Slope , mw = **1.2083** — **Intercept, bw =** **40.4583**

Correlation coefficient* = **0.9982**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	119.0
Particaulate Concentration by Dust Meter (µg/m^3)	65.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator
Date of Calibration 30-Jul-25
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 30-Sep-25
Model No.: LD-5R
Serial No.: 8Y2374
Equipment No.: SA-01-04
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-03
Before Sensitivity Adjustment 652
Tisch Calibration Orifice No.: 3864
After Sensitivity Adjustment 652

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	76.0	130.0
2	67.0	122.0
3	52.0	103.0
Average	**65.0**	**118.3**

By Linear Regression of Y on X

Slope , mw = **1.1395** **Intercept, bw =** **44.2687**

Correlation coefficient* = **0.9962**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	118.3
Particaulate Concentration by Dust Meter (µg/m^3)	65.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____
Technical Officer (Wong Shing Kwai)

Approved by: _____
Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-May-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Jul-25

Model No.: LD-5R

Serial No.: 8Y2373

Equipment No.: SA-01-05 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 657

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 657

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	73.0	132.0
2	63.0	114.0
3	55.0	103.0
Average	**63.7**	**116.3**

By Linear Regression of Y on X

Slope , mw = **1.6189** — **Intercept, bw =** **13.2664**

Correlation coefficient* = **0.9972**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	116.3
Particaulate Concentration by Dust Meter (µg/m^3)	63.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-Jul-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Sep-25

Model No.: LD-5R

Serial No.: 8Y2373

Equipment No.: SA-01-05 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 657

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 657

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	72.0	133.0
2	64.0	114.0
3	56.0	101.0
Average	**64.0**	**116.0**

By Linear Regression of Y on X

Slope , mw = 2.0000 — **Intercept, bw =** -12.0000

Correlation coefficient* = 0.9942

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	116.0
Particaulate Concentration by Dust Meter (µg/m^3)	64.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-May-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Jul-25

Model No.: LD-5R

Serial No.: 972777

Equipment No.: SA-01-06 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 645

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 645

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	75.0	133.0
2	61.0	117.0
3	53.0	105.0
Average	**63.0**	**118.3**

By Linear Regression of Y on X

Slope , mw = **1.2581** — **Intercept, bw =** **39.0753**

Correlation coefficient* = **0.9973**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	118.3
Particaulate Concentration by Dust Meter (µg/m^3)	63.0
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-Jul-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Sep-25

Model No.: LD-5R

Serial No.: 972777

Equipment No.: SA-01-06 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 645

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 645

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	76.0	135.0
2	56.0	115.0
3	52.0	108.0
Average	**61.3**	**119.3**

By Linear Regression of Y on X

Slope , mw = **1.0847** **Intercept, bw =** **52.8065**

Correlation coefficient* = **0.9954**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	119.3
Particaulate Concentration by Dust Meter (µg/m^3)	61.3
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator
Date of Calibration 30-May-25
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 30-Jul-25
Model No.: LD-5R
Serial No.: 972778
Equipment No.: SA-01-07
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-03
Before Sensitivity Adjustment 735 CPM
Tisch Calibration Orifice No.: 3864
After Sensitivity Adjustment 735 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	77.0	142.0
2	64.0	119.0
3	53.0	104.0
Average	**64.7**	**121.7**

By Linear Regression of Y on X

Slope , mw = **1.5889** **Intercept, bw =** **18.9169**

Correlation coefficient* = **0.9973**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	121.7
Particaulate Concentration by Dust Meter (µg/m^3)	64.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____
Technical Officer (Wong Shing Kwai)

Approved by: _____
Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator
Date of Calibration 30-Jul-25
Manufacturer: Sibata Scientific Technology LTD.
Validity of Calibration Record 30-Sep-25
Model No.: LD-5R
Serial No.: 972778
Equipment No.: SA-01-07
Sensitivity 0.001 mg/m3
High Volume Sampler No.: A-01-03
Before Sensitivity Adjustment 735 CPM
Tisch Calibration Orifice No.: 3864
After Sensitivity Adjustment 735 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	75.0	141.0
2	63.0	118.0
3	52.0	105.0
Average	**63.3**	**121.3**

By Linear Regression of Y on X

Slope , mw = **1.5705** **Intercept, bw =** **21.8665**

Correlation coefficient* = **0.9910**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	121.3
Particaulate Concentration by Dust Meter (µg/m^3)	63.3
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.9**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____
Technical Officer (Wong Shing Kwai)

Approved by: _____
Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration 30-May-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record 30-Jul-25

Model No.: LD-5R

Serial No.: 972780

Equipment No.: SA-01-09 — Sensitivity 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment 739 CPM

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment 739 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	75.0	137.0
2	61.0	114.0
3	55.0	101.0
Average	**63.7**	**117.3**

By Linear Regression of Y on X

Slope , mw = **1.7722** **Intercept, bw =** **4.5063**

Correlation coefficient* = **0.9977**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	117.3
Particaulate Concentration by Dust Meter (µg/m^3)	63.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-Jul-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Sep-25

Model No.: LD-5R

Serial No.: 972780

Equipment No.: SA-01-09 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 739 CPM

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 739 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	76.0	134.0
2	62.0	113.0
3	56.0	100.0
Average	**64.7**	**115.7**

By Linear Regression of Y on X

Slope , mw = **1.6646** **Intercept, bw =** **8.0253**

Correlation coefficient* = **0.9958**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	115.7
Particaulate Concentration by Dust Meter (µg/m^3)	64.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration 30-May-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record 30-Jul-25

Model No.: LD-5R

Serial No.: 972781

Equipment No.: SA-01-10 — Sensitivity 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment 734 CPM

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment 734 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor** Mass Concentration (µg/m3) **X-axis**	**HVS** Mass concentration (µg/m^3) **Y-axis**
1	76.0	133.0
2	67.0	116.0
3	57.0	102.0
Average	**66.7**	**117.0**

By Linear Regression of Y on X

Slope , mw = **1.6273** **Intercept, bw =** **8.5129**

Correlation coefficient* = **0.9963**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	117.0
Particaulate Concentration by Dust Meter (µg/m^3)	66.7
Measureing time, (min)	60.0

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)] **1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

CINOTECH CONSULTANTS LIMITED

Certificate of Calibration

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

Description: Digital Dust Indicator — Date of Calibration: 30-Jul-25

Manufacturer: Sibata Scientific Technology LTD. — Validity of Calibration Record: 30-Sep-25

Model No.: LD-5R

Serial No.: 972781

Equipment No.: SA-01-10 — Sensitivity: 0.001 mg/m3

High Volume Sampler No.: A-01-03 — Before Sensitivity Adjustment: 734 CPM

Tisch Calibration Orifice No.: 3864 — After Sensitivity Adjustment: 734 CPM

Calibration of 1 hr TSP		
Calibration Point	**Laser Dust Monitor**	**HVS**
	Mass Concentration (µg/m3) **X-axis**	Mass concentration (µg/m^3) **Y-axis**
1	75.0	132.0
2	66.0	115.0
3	55.0	101.0
Average	**65.3**	**116.0**

By Linear Regression of Y on X

Slope , mw = **1.5399** **Intercept, bw =** **15.3953**

Correlation coefficient* = **0.9936**

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m^3)	116.0
Particaulate Concentration by Dust Meter (µg/m^3)	65.3
Measureing time, (min)	60.0
Set Correlation Factor , SCF	
SCF = [K=High Volume Sampler / Dust Meter, (µg/m3)]	**1.8**

In-house method in according to the instruction manual:

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

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

Calibrated by: _____

Technical Officer (Wong Shing Kwai)

Approved by: _____

Project Manager (Henry Leung)

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

Report No. : 00964 Issue Date : 30 Dec 2024
Application No. : HP00820

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-16-01

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information :

Model No.	AWA6021A
Serial No.	1023253

Date Received : 27 Dec 2024

Test Period : 30 Dec 2024 to 30 Dec 2024

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

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

Report No. : 00964 Issue Date : 30 Dec 2024
Application No. : HP00820

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.	570183
Microphone No.	570605
Equipment No.	N-12-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.3	+ 0.3	± 0.3
114.0	114.3	+ 0.3	± 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 -

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

Report No. : 01015 Issue Date : 04 Feb 2025
Application No. : HP00868

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-16-02

Manufacturer: : Hangzhou Aihua Instruments Co., Ltd.

Other information :

Model No.	AWA6021A
Serial No.	1023064

Date Received : 28 Jan 2025

Test Period : 03 Feb 2025 to 04 Feb 2025

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

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

Report No. : 01015 Issue Date : 04 Feb 2025
Application No. : HP00868

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	SVANTEK
Model No.	SVAN 977
Serial No.	92677
Microphone No.	10352
Equipment No.	N-14-01

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+ 0.2	± 0.3
114.0	114.3	+ 0.3	± 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 -

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

Report No. : 00870 Issue Date : 14 Oct 2024
Application No. : HP00731

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-08-12

Manufacturer: : SVANTEK

Other information :

Model No.	SVAN 957
Serial No.	23851
Microphone No.	22391

Date Received : 07 Oct 2024

Test Period : 09 Oct 2024 to 09 Oct 2024

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

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

Report No. : 00870 Issue Date : 14 Oct 2024
Application No. : HP00731

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	94.0	± 0.0	± 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 -

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

Report No. : 00871 Issue Date : 14 Oct 2024
Application No. : HP00732

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-12-02

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570187
Microphone No.	590079

Date Received : 07 Oct 2024

Test Period : 09 Oct 2024 to 09 Oct 2024

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

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

Report No. : 00871 Issue Date : 14 Oct 2024
Application No. : HP00732

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	113.7	- 0.3	± 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 -

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

Report No. : 01074 Issue Date : 19 Mar 2025
Application No. : HP00912

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-12-03

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608

Date Received : 17 Mar 2025

Test Period : 18 Mar 2025 to 18 Mar 2025

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

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

Report No. : 01074 Issue Date : 19 Mar 2025
Application No. : HP00912

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	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 -

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

Report No. : 01075 Issue Date : 19 Mar 2025
Application No. : HP00913

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-12-04

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580238
Microphone No.	570605

Date Received : 17 Mar 2025

Test Period : 18 Mar 2025 to 18 Mar 2025

Test Requested : Performance checking for Sound Level Meter

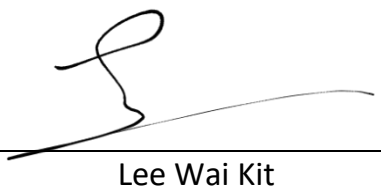
Test Method : The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard and instrument which are recommended by the manufacturer, or equivalent.

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

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

Report No. : 01075 Issue Date : 19 Mar 2025
Application No. : HP00913

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	94.2	+ 0.2	± 1.5
114.0	114.1	+ 0.1	± 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 -

APPENDIX C
WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C)[1]	Mean Relative Humidity (%)[2]	Precipitation (mm)[3]
1-Jul-25	28.2	87	5.5
2-Jul-25	30.0	80	0.5
3-Jul-25	30.3	76	0.0
4-Jul-25	30.8	71	0.0
5-Jul-25	30.6	71	3.7
6-Jul-25	30.3	71	0.0
7-Jul-25	31.2	77	0.0
8-Jul-25	30.9	76	0.0
9-Jul-25	30.7	77	15.2
10-Jul-25	26.3	93	126.4
11-Jul-25	27.9	84	0.0
12-Jul-25	28.7	87	38.4
13-Jul-25	30.1	81	1.9
14-Jul-25	30.2	79	9.2
15-Jul-25	30.3	79	3.2
16-Jul-25	31.1	75	0.0
17-Jul-25	31.3	76	0.0
18-Jul-25	28.6	85	19.0
19-Jul-25	29.5	78	10.0
20-Jul-25	27.0	91	87.6
21-Jul-25	27.1	92	42.4
22-Jul-25	28.0	88	95.7
23-Jul-25	29.0	81	2.6
24-Jul-25	29.4	77	Trace
25-Jul-25	29.2	78	31.8
26-Jul-25	30.2	74	0.0
27-Jul-25	30.4	76	0.0
28-Jul-25	30.1	80	0.6
29-Jul-25	27.8	90	106.5
30-Jul-25	29.8	84	0.0
31-Jul-25	29.9	83	1.5

(Reporting Month: July 2025)

Remarks:

Source - Hong Kong Observatory

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

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
1 Jul 2025	12:00 AM	S	0.1
1 Jul 2025	1:00 AM	SW	0.2
1 Jul 2025	2:00 AM	NNW	0.1
1 Jul 2025	3:00 AM	W	0.0
1 Jul 2025	4:00 AM	S	0.0
1 Jul 2025	5:00 AM	WSW	0.2
1 Jul 2025	6:00 AM	SSW	0.2
1 Jul 2025	7:00 AM	SW	0.3
1 Jul 2025	8:00 AM	SSW	0.3
1 Jul 2025	9:00 AM	SW	0.5
1 Jul 2025	10:00 AM	W	0.4
1 Jul 2025	11:00 AM	W	0.4
1 Jul 2025	12:00 PM	WSW	0.3
1 Jul 2025	1:00 PM	SW	0.3
1 Jul 2025	2:00 PM	WSW	0.2
1 Jul 2025	3:00 PM	WSW	0.2
1 Jul 2025	4:00 PM	W	0.1
1 Jul 2025	5:00 PM	SW	0.0
1 Jul 2025	6:00 PM	S	0.2
1 Jul 2025	7:00 PM	SSW	0.1
1 Jul 2025	8:00 PM	SSW	0.3
1 Jul 2025	9:00 PM	SW	0.2
1 Jul 2025	10:00 PM	SW	0.1
1 Jul 2025	11:00 PM	WSW	0.2
2 Jul 2025	12:00 AM	W	0.1
2 Jul 2025	1:00 AM	NW	0.0
2 Jul 2025	2:00 AM	W	0.2
2 Jul 2025	3:00 AM	NW	0.0
2 Jul 2025	4:00 AM	WNW	0.1
2 Jul 2025	5:00 AM	WSW	0.1
2 Jul 2025	6:00 AM	SW	0.0
2 Jul 2025	7:00 AM	SW	0.1
2 Jul 2025	8:00 AM	SSW	0.4
2 Jul 2025	9:00 AM	SSW	0.5
2 Jul 2025	10:00 AM	WSW	0.9
2 Jul 2025	11:00 AM	SSW	1.0
2 Jul 2025	12:00 PM	SW	1.0
2 Jul 2025	1:00 PM	SSW	0.8
2 Jul 2025	2:00 PM	WSW	1.0
2 Jul 2025	3:00 PM	SW	0.8
2 Jul 2025	4:00 PM	SW	0.7
2 Jul 2025	5:00 PM	WSW	0.7
2 Jul 2025	6:00 PM	WSW	0.3
2 Jul 2025	7:00 PM	SW	0.2
2 Jul 2025	8:00 PM	WSW	0.3
2 Jul 2025	9:00 PM	W	0.1
2 Jul 2025	10:00 PM	WSW	0.2
2 Jul 2025	11:00 PM	SW	0.1
3 Jul 2025	12:00 AM	W	0.3
3 Jul 2025	1:00 AM	SSW	0.1
3 Jul 2025	2:00 AM	NE	0.0
3 Jul 2025	3:00 AM	NNE	0.1
3 Jul 2025	4:00 AM	SSE	0.1
3 Jul 2025	5:00 AM	SW	0.2
3 Jul 2025	6:00 AM	WSW	0.1
3 Jul 2025	7:00 AM	SW	0.2
3 Jul 2025	8:00 AM	WSW	0.3

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
3 Jul 2025	9:00 AM	SW	0.3
3 Jul 2025	10:00 AM	SW	0.5
3 Jul 2025	11:00 AM	SW	0.7
3 Jul 2025	12:00 PM	SW	0.7
3 Jul 2025	1:00 PM	SW	0.8
3 Jul 2025	2:00 PM	WSW	0.9
3 Jul 2025	3:00 PM	SW	0.5
3 Jul 2025	4:00 PM	SSW	0.5
3 Jul 2025	5:00 PM	SW	0.7
3 Jul 2025	6:00 PM	WSW	0.5
3 Jul 2025	7:00 PM	SW	0.3
3 Jul 2025	8:00 PM	WSW	0.4
3 Jul 2025	9:00 PM	W	0.3
3 Jul 2025	10:00 PM	WSW	0.2
3 Jul 2025	11:00 PM	WNW	0.2
4 Jul 2025	12:00 AM	WNW	0.2
4 Jul 2025	1:00 AM	WNW	0.2
4 Jul 2025	2:00 AM	WSW	0.1
4 Jul 2025	3:00 AM	W	0.1
4 Jul 2025	4:00 AM	SW	0.0
4 Jul 2025	5:00 AM	WSW	0.0
4 Jul 2025	6:00 AM	WNW	0.1
4 Jul 2025	7:00 AM	NW	0.1
4 Jul 2025	8:00 AM	WSW	0.3
4 Jul 2025	9:00 AM	SW	0.4
4 Jul 2025	10:00 AM	SW	0.8
4 Jul 2025	11:00 AM	SW	0.9
4 Jul 2025	12:00 PM	SSW	0.8
4 Jul 2025	1:00 PM	SW	0.8
4 Jul 2025	2:00 PM	W	0.8
4 Jul 2025	3:00 PM	WSW	0.6
4 Jul 2025	4:00 PM	SW	0.4
4 Jul 2025	5:00 PM	SW	0.5
4 Jul 2025	6:00 PM	SSW	0.5
4 Jul 2025	7:00 PM	WSW	0.4
4 Jul 2025	8:00 PM	SW	0.5
4 Jul 2025	9:00 PM	WSW	0.3
4 Jul 2025	10:00 PM	SSW	0.2
4 Jul 2025	11:00 PM	WSW	0.1
5 Jul 2025	12:00 AM	SSW	0.2
5 Jul 2025	1:00 AM	SW	0.1
5 Jul 2025	2:00 AM	W	0.1
5 Jul 2025	3:00 AM	WSW	0.1
5 Jul 2025	4:00 AM	WSW	0.0
5 Jul 2025	5:00 AM	SSE	0.0
5 Jul 2025	6:00 AM	WSW	0.3
5 Jul 2025	7:00 AM	SSW	0.5
5 Jul 2025	8:00 AM	SSW	0.4
5 Jul 2025	9:00 AM	SSW	0.6
5 Jul 2025	10:00 AM	SW	0.6
5 Jul 2025	11:00 AM	SW	0.8
5 Jul 2025	12:00 PM	SW	0.5
5 Jul 2025	1:00 PM	WSW	0.3
5 Jul 2025	2:00 PM	SW	0.3
5 Jul 2025	3:00 PM	SSW	0.5
5 Jul 2025	4:00 PM	SSW	0.9
5 Jul 2025	5:00 PM	SW	0.9

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
5 Jul 2025	6:00 PM	WSW	0.4
5 Jul 2025	7:00 PM	S	0.4
5 Jul 2025	8:00 PM	SW	0.2
5 Jul 2025	9:00 PM	SW	0.1
5 Jul 2025	10:00 PM	WSW	0.2
5 Jul 2025	11:00 PM	SSW	0.2
6 Jul 2025	12:00 AM	WSW	0.2
6 Jul 2025	1:00 AM	W	0.2
6 Jul 2025	2:00 AM	SSE	0.1
6 Jul 2025	3:00 AM	SSW	0.2
6 Jul 2025	4:00 AM	SSW	0.1
6 Jul 2025	5:00 AM	SSW	0.3
6 Jul 2025	6:00 AM	SW	0.1
6 Jul 2025	7:00 AM	SSW	0.3
6 Jul 2025	8:00 AM	WSW	0.2
6 Jul 2025	9:00 AM	SSW	0.5
6 Jul 2025	10:00 AM	SSW	0.5
6 Jul 2025	11:00 AM	SSW	0.6
6 Jul 2025	12:00 PM	S	0.6
6 Jul 2025	1:00 PM	SW	0.5
6 Jul 2025	2:00 PM	SSW	0.5
6 Jul 2025	3:00 PM	SW	0.2
6 Jul 2025	4:00 PM	WSW	0.4
6 Jul 2025	5:00 PM	WSW	0.4
6 Jul 2025	6:00 PM	SSW	0.7
6 Jul 2025	7:00 PM	WSW	0.5
6 Jul 2025	8:00 PM	WSW	0.3
6 Jul 2025	9:00 PM	WSW	0.5
6 Jul 2025	10:00 PM	SSW	0.4
6 Jul 2025	11:00 PM	SW	0.3
7 Jul 2025	12:00 AM	SW	0.2
7 Jul 2025	1:00 AM	WSW	0.2
7 Jul 2025	2:00 AM	S	0.4
7 Jul 2025	3:00 AM	W	0.4
7 Jul 2025	4:00 AM	SSW	0.4
7 Jul 2025	5:00 AM	SW	0.3
7 Jul 2025	6:00 AM	SSW	0.3
7 Jul 2025	7:00 AM	SW	0.5
7 Jul 2025	8:00 AM	SSW	0.7
7 Jul 2025	9:00 AM	SSW	0.8
7 Jul 2025	10:00 AM	SSW	0.8
7 Jul 2025	11:00 AM	S	0.7
7 Jul 2025	12:00 PM	SSW	0.8
7 Jul 2025	1:00 PM	S	0.9
7 Jul 2025	2:00 PM	SSE	0.8
7 Jul 2025	3:00 PM	SSW	0.7
7 Jul 2025	4:00 PM	SW	0.6
7 Jul 2025	5:00 PM	SSW	0.7
7 Jul 2025	6:00 PM	SSW	0.5
7 Jul 2025	7:00 PM	SSW	0.4
7 Jul 2025	8:00 PM	SSW	0.5
7 Jul 2025	9:00 PM	SW	0.6
7 Jul 2025	10:00 PM	SW	0.7
7 Jul 2025	11:00 PM	S	0.6
8 Jul 2025	12:00 AM	SSE	0.5
8 Jul 2025	1:00 AM	SSW	0.6
8 Jul 2025	2:00 AM	SSE	0.6

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
8 Jul 2025	3:00 AM	SSW	0.5
8 Jul 2025	4:00 AM	SW	0.5
8 Jul 2025	5:00 AM	W	0.3
8 Jul 2025	6:00 AM	SW	0.5
8 Jul 2025	7:00 AM	WSW	0.4
8 Jul 2025	8:00 AM	SW	0.6
8 Jul 2025	9:00 AM	SSW	0.7
8 Jul 2025	10:00 AM	S	0.8
8 Jul 2025	11:00 AM	S	0.6
8 Jul 2025	12:00 PM	SSW	0.7
8 Jul 2025	1:00 PM	SSW	1.0
8 Jul 2025	2:00 PM	S	0.8
8 Jul 2025	3:00 PM	SSW	0.6
8 Jul 2025	4:00 PM	WSW	0.4
8 Jul 2025	5:00 PM	SSW	0.5
8 Jul 2025	6:00 PM	SSW	0.5
8 Jul 2025	7:00 PM	SSW	0.5
8 Jul 2025	8:00 PM	W	0.4
8 Jul 2025	9:00 PM	WSW	0.4
8 Jul 2025	10:00 PM	SSW	0.6
8 Jul 2025	11:00 PM	SSW	0.7
9 Jul 2025	12:00 AM	SSW	0.5
9 Jul 2025	1:00 AM	WSW	0.4
9 Jul 2025	2:00 AM	SSW	0.5
9 Jul 2025	3:00 AM	SSW	0.4
9 Jul 2025	4:00 AM	SSW	0.4
9 Jul 2025	5:00 AM	SW	0.4
9 Jul 2025	6:00 AM	WSW	0.3
9 Jul 2025	7:00 AM	SSW	0.4
9 Jul 2025	8:00 AM	SSW	0.5
9 Jul 2025	9:00 AM	S	0.9
9 Jul 2025	10:00 AM	SSW	0.6
9 Jul 2025	11:00 AM	SSW	0.4
9 Jul 2025	12:00 PM	S	0.6
9 Jul 2025	1:00 PM	WSW	0.7
9 Jul 2025	2:00 PM	SW	0.7
9 Jul 2025	3:00 PM	SW	0.7
9 Jul 2025	4:00 PM	S	0.6
9 Jul 2025	5:00 PM	SW	0.4
9 Jul 2025	6:00 PM	SW	0.4
9 Jul 2025	7:00 PM	SSW	0.6
9 Jul 2025	8:00 PM	SW	0.4
9 Jul 2025	9:00 PM	SW	0.5
9 Jul 2025	10:00 PM	SSW	0.4
9 Jul 2025	11:00 PM	SW	0.9
10 Jul 2025	12:00 AM	S	0.3
10 Jul 2025	1:00 AM	SW	0.1
10 Jul 2025	2:00 AM	WNW	0.0
10 Jul 2025	3:00 AM	SW	0.2
10 Jul 2025	4:00 AM	WSW	0.2
10 Jul 2025	5:00 AM	ESE	0.1
10 Jul 2025	6:00 AM	ESE	0.0
10 Jul 2025	7:00 AM	E	0.0
10 Jul 2025	8:00 AM	SSW	0.3
10 Jul 2025	9:00 AM	SSW	0.5
10 Jul 2025	10:00 AM	WSW	0.2
10 Jul 2025	11:00 AM	W	0.2

July 2025			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
10 Jul 2025	12:00 PM	SSW	0.4
10 Jul 2025	1:00 PM	WNW	0.2
10 Jul 2025	2:00 PM	ENE	0.1
10 Jul 2025	3:00 PM	SW	0.3
10 Jul 2025	4:00 PM	NW	0.0
10 Jul 2025	5:00 PM	SSE	0.0
10 Jul 2025	6:00 PM	SSW	0.1
10 Jul 2025	7:00 PM	SSW	0.1
10 Jul 2025	8:00 PM	SSE	0.1
10 Jul 2025	9:00 PM	ENE	0.0
10 Jul 2025	10:00 PM	NW	0.0
10 Jul 2025	11:00 PM	SSW	0.1
11 Jul 2025	12:00 AM	WSW	0.1
11 Jul 2025	1:00 AM	WSW	0.0
11 Jul 2025	2:00 AM	WSW	0.0
11 Jul 2025	3:00 AM	WSW	0.0
11 Jul 2025	4:00 AM	SW	0.2
11 Jul 2025	5:00 AM	NW	0.0
11 Jul 2025	6:00 AM	NNW	0.0
11 Jul 2025	7:00 AM	WNW	0.0
11 Jul 2025	8:00 AM	W	0.0
11 Jul 2025	9:00 AM	SSW	0.2
11 Jul 2025	10:00 AM	SSW	0.4
11 Jul 2025	11:00 AM	SSW	0.2
11 Jul 2025	12:00 PM	SW	0.6
11 Jul 2025	1:00 PM	S	0.6
11 Jul 2025	2:00 PM	S	0.6
11 Jul 2025	3:00 PM	S	0.7
11 Jul 2025	4:00 PM	WSW	0.4
11 Jul 2025	5:00 PM	SW	0.3
11 Jul 2025	6:00 PM	SW	0.1
11 Jul 2025	7:00 PM	SW	0.0
11 Jul 2025	8:00 PM	SW	0.0
11 Jul 2025	9:00 PM	W	0.0
11 Jul 2025	10:00 PM	WNW	0.0
11 Jul 2025	11:00 PM	WNW	0.0
12 Jul 2025	12:00 AM	NNW	0.0
12 Jul 2025	1:00 AM	NW	0.0
12 Jul 2025	2:00 AM	NW	0.0
12 Jul 2025	3:00 AM	SW	0.1
12 Jul 2025	4:00 AM	S	0.2
12 Jul 2025	5:00 AM	S	0.1
12 Jul 2025	6:00 AM	NNW	0.0
12 Jul 2025	7:00 AM	N	0.1
12 Jul 2025	8:00 AM	NNW	0.1
12 Jul 2025	9:00 AM	S	0.0
12 Jul 2025	10:00 AM	S	0.3
12 Jul 2025	11:00 AM	WSW	0.4
12 Jul 2025	12:00 PM	WSW	0.3
12 Jul 2025	1:00 PM	W	0.3
12 Jul 2025	2:00 PM	SW	0.2
12 Jul 2025	3:00 PM	WSW	0.1
12 Jul 2025	4:00 PM	S	0.2
12 Jul 2025	5:00 PM	SW	0.1
12 Jul 2025	6:00 PM	SSW	0.1
12 Jul 2025	7:00 PM	SW	0.0
12 Jul 2025	8:00 PM	WSW	0.0

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
12 Jul 2025	9:00 PM	W	0.0
12 Jul 2025	10:00 PM	W	0.0
12 Jul 2025	11:00 PM	W	0.0
13 Jul 2025	12:00 AM	W	0.0
13 Jul 2025	1:00 AM	WNW	0.0
13 Jul 2025	2:00 AM	SSE	0.0
13 Jul 2025	3:00 AM	WNW	0.0
13 Jul 2025	4:00 AM	NW	0.0
13 Jul 2025	5:00 AM	WNW	0.0
13 Jul 2025	6:00 AM	NW	0.0
13 Jul 2025	7:00 AM	W	0.0
13 Jul 2025	8:00 AM	W	0.0
13 Jul 2025	9:00 AM	WNW	0.2
13 Jul 2025	10:00 AM	WSW	0.3
13 Jul 2025	11:00 AM	W	0.2
13 Jul 2025	12:00 PM	SE	0.4
13 Jul 2025	1:00 PM	SW	0.5
13 Jul 2025	2:00 PM	SSW	0.4
13 Jul 2025	3:00 PM	WSW	0.3
13 Jul 2025	4:00 PM	SW	0.1
13 Jul 2025	5:00 PM	W	0.1
13 Jul 2025	6:00 PM	WSW	0.1
13 Jul 2025	7:00 PM	SSE	0.1
13 Jul 2025	8:00 PM	NE	0.0
13 Jul 2025	9:00 PM	NW	0.0
13 Jul 2025	10:00 PM	W	0.2
13 Jul 2025	11:00 PM	NNW	0.0
14 Jul 2025	12:00 AM	NW	0.0
14 Jul 2025	1:00 AM	WSW	0.1
14 Jul 2025	2:00 AM	WSW	0.1
14 Jul 2025	3:00 AM	W	0.0
14 Jul 2025	4:00 AM	WSW	0.0
14 Jul 2025	5:00 AM	SW	0.1
14 Jul 2025	6:00 AM	SW	0.0
14 Jul 2025	7:00 AM	WSW	0.0
14 Jul 2025	8:00 AM	SSE	0.0
14 Jul 2025	9:00 AM	ENE	0.0
14 Jul 2025	10:00 AM	S	0.3
14 Jul 2025	11:00 AM	S	0.6
14 Jul 2025	12:00 PM	SSW	0.7
14 Jul 2025	1:00 PM	S	0.8
14 Jul 2025	2:00 PM	SSW	0.8
14 Jul 2025	3:00 PM	S	0.6
14 Jul 2025	4:00 PM	SW	0.5
14 Jul 2025	5:00 PM	SW	0.3
14 Jul 2025	6:00 PM	SW	0.3
14 Jul 2025	7:00 PM	SSW	0.3
14 Jul 2025	8:00 PM	SW	0.3
14 Jul 2025	9:00 PM	SSW	0.2
14 Jul 2025	10:00 PM	WSW	0.2
14 Jul 2025	11:00 PM	WSW	0.2
15 Jul 2025	12:00 AM	WSW	0.2
15 Jul 2025	1:00 AM	SSW	0.2
15 Jul 2025	2:00 AM	WSW	0.2
15 Jul 2025	3:00 AM	SSW	0.4
15 Jul 2025	4:00 AM	SW	0.3
15 Jul 2025	5:00 AM	SW	0.3

July 2025			
Wind Speed and Directions			
Date	Time	Direction	Wind Speed m-s
15 Jul 2025	6:00 AM	WSW	0.2
15 Jul 2025	7:00 AM	SE	0.3
15 Jul 2025	8:00 AM	SW	0.3
15 Jul 2025	9:00 AM	SSW	0.4
15 Jul 2025	10:00 AM	S	0.6
15 Jul 2025	11:00 AM	SSW	0.5
15 Jul 2025	12:00 PM	WSW	0.4
15 Jul 2025	1:00 PM	WSW	0.5
15 Jul 2025	2:00 PM	SSW	0.5
15 Jul 2025	3:00 PM	S	0.4
15 Jul 2025	4:00 PM	S	0.6
15 Jul 2025	5:00 PM	SW	0.5
15 Jul 2025	6:00 PM	S	0.3
15 Jul 2025	7:00 PM	NW	0.2
15 Jul 2025	8:00 PM	W	0.2
15 Jul 2025	9:00 PM	SW	0.2
15 Jul 2025	10:00 PM	SW	0.2
15 Jul 2025	11:00 PM	SW	0.2
16 Jul 2025	12:00 AM	SSW	0.3
16 Jul 2025	1:00 AM	W	0.3
16 Jul 2025	2:00 AM	SSW	0.3
16 Jul 2025	3:00 AM	SW	0.3
16 Jul 2025	4:00 AM	SW	0.2
16 Jul 2025	5:00 AM	S	0.3
16 Jul 2025	6:00 AM	SSE	0.2
16 Jul 2025	7:00 AM	SW	0.4
16 Jul 2025	8:00 AM	SSW	0.5
16 Jul 2025	9:00 AM	SW	0.6
16 Jul 2025	10:00 AM	S	0.8
16 Jul 2025	11:00 AM	SSW	0.8
16 Jul 2025	12:00 PM	SSW	0.9
16 Jul 2025	1:00 PM	SW	0.7
16 Jul 2025	2:00 PM	S	0.8
16 Jul 2025	3:00 PM	S	0.7
16 Jul 2025	4:00 PM	S	0.7
16 Jul 2025	5:00 PM	SW	0.7
16 Jul 2025	6:00 PM	SSW	0.5
16 Jul 2025	7:00 PM	WNW	0.1
16 Jul 2025	8:00 PM	WSW	0.1
16 Jul 2025	9:00 PM	WSW	0.0
16 Jul 2025	10:00 PM	SW	0.1
16 Jul 2025	11:00 PM	SW	0.4
17 Jul 2025	12:00 AM	SW	0.3
17 Jul 2025	1:00 AM	SSW	0.4
17 Jul 2025	2:00 AM	S	0.3
17 Jul 2025	3:00 AM	S	0.2
17 Jul 2025	4:00 AM	SSW	0.2
17 Jul 2025	5:00 AM	S	0.2
17 Jul 2025	6:00 AM	SSW	0.2
17 Jul 2025	7:00 AM	SSW	0.4
17 Jul 2025	8:00 AM	SSW	0.7
17 Jul 2025	9:00 AM	SSW	0.5
17 Jul 2025	10:00 AM	SSW	0.8
17 Jul 2025	11:00 AM	S	0.8
17 Jul 2025	12:00 PM	S	0.8
17 Jul 2025	1:00 PM	S	0.7
17 Jul 2025	2:00 PM	SE	0.8

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
17 Jul 2025	3:00 PM	S	0.6
17 Jul 2025	4:00 PM	S	0.7
17 Jul 2025	5:00 PM	SSW	0.5
17 Jul 2025	6:00 PM	S	0.6
17 Jul 2025	7:00 PM	SW	0.4
17 Jul 2025	8:00 PM	WNW	0.2
17 Jul 2025	9:00 PM	WSW	0.2
17 Jul 2025	10:00 PM	SSE	0.2
17 Jul 2025	11:00 PM	SSW	0.3
18 Jul 2025	12:00 AM	SW	0.2
18 Jul 2025	1:00 AM	W	0.1
18 Jul 2025	2:00 AM	SW	0.1
18 Jul 2025	3:00 AM	WSW	0.1
18 Jul 2025	4:00 AM	W	0.3
18 Jul 2025	5:00 AM	W	0.2
18 Jul 2025	6:00 AM	WNW	0.1
18 Jul 2025	7:00 AM	SSW	0.4
18 Jul 2025	8:00 AM	SSW	0.3
18 Jul 2025	9:00 AM	SW	0.5
18 Jul 2025	10:00 AM	SW	0.2
18 Jul 2025	11:00 AM	SSE	0.8
18 Jul 2025	12:00 PM	SSE	0.3
18 Jul 2025	1:00 PM	SW	0.4
18 Jul 2025	2:00 PM	SE	0.0
18 Jul 2025	3:00 PM	SSE	0.1
18 Jul 2025	4:00 PM	ESE	0.3
18 Jul 2025	5:00 PM	S	0.6
18 Jul 2025	6:00 PM	S	0.3
18 Jul 2025	7:00 PM	SSE	0.3
18 Jul 2025	8:00 PM	SSE	0.0
18 Jul 2025	9:00 PM	E	0.2
18 Jul 2025	10:00 PM	S	0.1
18 Jul 2025	11:00 PM	SW	0.2
19 Jul 2025	12:00 AM	SE	0.2
19 Jul 2025	1:00 AM	SW	0.0
19 Jul 2025	2:00 AM	NNW	0.0
19 Jul 2025	3:00 AM	WNW	0.0
19 Jul 2025	4:00 AM	W	0.0
19 Jul 2025	5:00 AM	E	0.2
19 Jul 2025	6:00 AM	W	0.0
19 Jul 2025	7:00 AM	W	0.0
19 Jul 2025	8:00 AM	SSW	0.1
19 Jul 2025	9:00 AM	SE	0.5
19 Jul 2025	10:00 AM	S	0.4
19 Jul 2025	11:00 AM	SSW	0.7
19 Jul 2025	12:00 PM	SW	0.8
19 Jul 2025	1:00 PM	SW	0.8
19 Jul 2025	2:00 PM	SSW	0.9
19 Jul 2025	3:00 PM	WSW	0.9
19 Jul 2025	4:00 PM	SSW	0.9
19 Jul 2025	5:00 PM	WSW	0.4
19 Jul 2025	6:00 PM	SSW	0.2
19 Jul 2025	7:00 PM	S	0.2
19 Jul 2025	8:00 PM	SSW	0.2
19 Jul 2025	9:00 PM	W	0.2
19 Jul 2025	10:00 PM	SW	0.3
19 Jul 2025	11:00 PM	WSW	0.1

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
20 Jul 2025	12:00 AM	SW	0.2
20 Jul 2025	1:00 AM	SSW	0.1
20 Jul 2025	2:00 AM	SSW	0.0
20 Jul 2025	3:00 AM	WSW	0.1
20 Jul 2025	4:00 AM	S	0.0
20 Jul 2025	5:00 AM	SSE	0.0
20 Jul 2025	6:00 AM	WSW	0.0
20 Jul 2025	7:00 AM	WSW	0.0
20 Jul 2025	8:00 AM	ENE	0.0
20 Jul 2025	9:00 AM	ESE	0.1
20 Jul 2025	10:00 AM	SW	0.3
20 Jul 2025	11:00 AM	SW	0.2
20 Jul 2025	12:00 PM	S	0.5
20 Jul 2025	1:00 PM	SSW	0.5
20 Jul 2025	2:00 PM	S	0.4
20 Jul 2025	3:00 PM	SW	0.4
20 Jul 2025	4:00 PM	SSW	0.1
20 Jul 2025	5:00 PM	SW	0.0
20 Jul 2025	6:00 PM	W	0.0
20 Jul 2025	7:00 PM	SSW	0.0
20 Jul 2025	8:00 PM	WSW	0.1
20 Jul 2025	9:00 PM	W	0.1
20 Jul 2025	10:00 PM	WNW	0.0
20 Jul 2025	11:00 PM	W	0.0
21 Jul 2025	12:00 AM	SW	0.1
21 Jul 2025	1:00 AM	W	0.0
21 Jul 2025	2:00 AM	SW	0.0
21 Jul 2025	3:00 AM	WNW	0.1
21 Jul 2025	4:00 AM	S	0.0
21 Jul 2025	5:00 AM	S	0.0
21 Jul 2025	6:00 AM	S	0.0
21 Jul 2025	7:00 AM	S	0.2
21 Jul 2025	8:00 AM	SSW	0.3
21 Jul 2025	9:00 AM	SW	0.3
21 Jul 2025	10:00 AM	SW	0.4
21 Jul 2025	11:00 AM	SSW	0.4
21 Jul 2025	12:00 PM	SSW	0.6
21 Jul 2025	1:00 PM	SSW	0.7
21 Jul 2025	2:00 PM	SSW	0.4
21 Jul 2025	3:00 PM	SW	0.5
21 Jul 2025	4:00 PM	SW	0.3
21 Jul 2025	5:00 PM	WSW	0.0
21 Jul 2025	6:00 PM	WSW	0.1
21 Jul 2025	7:00 PM	W	0.1
21 Jul 2025	8:00 PM	SSW	0.2
21 Jul 2025	9:00 PM	W	0.0
21 Jul 2025	10:00 PM	W	0.1
21 Jul 2025	11:00 PM	SW	0.1
22 Jul 2025	12:00 AM	W	0.1
22 Jul 2025	1:00 AM	SW	0.2
22 Jul 2025	2:00 AM	W	0.0
22 Jul 2025	3:00 AM	WSW	0.0
22 Jul 2025	4:00 AM	W	0.0
22 Jul 2025	5:00 AM	SW	0.0
22 Jul 2025	6:00 AM	WNW	0.0
22 Jul 2025	7:00 AM	WSW	0.1
22 Jul 2025	8:00 AM	SW	0.2

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
22 Jul 2025	9:00 AM	SSW	0.2
22 Jul 2025	10:00 AM	SSW	0.3
22 Jul 2025	11:00 AM	W	0.1
22 Jul 2025	12:00 PM	WSW	0.1
22 Jul 2025	1:00 PM	SSW	0.2
22 Jul 2025	2:00 PM	SW	0.3
22 Jul 2025	3:00 PM	SW	0.2
22 Jul 2025	4:00 PM	WSW	0.2
22 Jul 2025	5:00 PM	SSW	0.2
22 Jul 2025	6:00 PM	WSW	0.1
22 Jul 2025	7:00 PM	SE	0.0
22 Jul 2025	8:00 PM	W	0.0
22 Jul 2025	9:00 PM	WSW	0.1
22 Jul 2025	10:00 PM	W	0.0
22 Jul 2025	11:00 PM	WSW	0.1
23 Jul 2025	12:00 AM	SSW	0.0
23 Jul 2025	1:00 AM	W	0.0
23 Jul 2025	2:00 AM	SW	0.1
23 Jul 2025	3:00 AM	SE	0.1
23 Jul 2025	4:00 AM	SW	0.1
23 Jul 2025	5:00 AM	SW	0.0
23 Jul 2025	6:00 AM	W	0.0
23 Jul 2025	7:00 AM	W	0.0
23 Jul 2025	8:00 AM	W	0.1
23 Jul 2025	9:00 AM	SSE	0.4
23 Jul 2025	10:00 AM	SSW	0.4
23 Jul 2025	11:00 AM	SSW	0.5
23 Jul 2025	12:00 PM	S	0.6
23 Jul 2025	1:00 PM	SW	0.7
23 Jul 2025	2:00 PM	SSW	0.7
23 Jul 2025	3:00 PM	SSW	0.7
23 Jul 2025	4:00 PM	S	0.5
23 Jul 2025	5:00 PM	SSW	0.6
23 Jul 2025	6:00 PM	SSW	0.4
23 Jul 2025	7:00 PM	WSW	0.2
23 Jul 2025	8:00 PM	W	0.1
23 Jul 2025	9:00 PM	SW	0.1
23 Jul 2025	10:00 PM	SSW	0.2
23 Jul 2025	11:00 PM	SW	0.2
24 Jul 2025	12:00 AM	SSW	0.2
24 Jul 2025	1:00 AM	WSW	0.2
24 Jul 2025	2:00 AM	WSW	0.2
24 Jul 2025	3:00 AM	WSW	0.1
24 Jul 2025	4:00 AM	WSW	0.1
24 Jul 2025	5:00 AM	W	0.1
24 Jul 2025	6:00 AM	W	0.1
24 Jul 2025	7:00 AM	SW	0.2
24 Jul 2025	8:00 AM	S	0.6
24 Jul 2025	9:00 AM	SSW	0.7
24 Jul 2025	10:00 AM	SSW	0.6
24 Jul 2025	11:00 AM	S	0.7
24 Jul 2025	12:00 PM	S	0.9
24 Jul 2025	1:00 PM	S	0.9
24 Jul 2025	2:00 PM	SSW	0.8
24 Jul 2025	3:00 PM	S	0.6
24 Jul 2025	4:00 PM	SSW	0.4
24 Jul 2025	5:00 PM	S	0.2

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
24 Jul 2025	6:00 PM	SSW	0.2
24 Jul 2025	7:00 PM	SW	0.1
24 Jul 2025	8:00 PM	WSW	0.1
24 Jul 2025	9:00 PM	WSW	0.0
24 Jul 2025	10:00 PM	W	0.1
24 Jul 2025	11:00 PM	WSW	0.1
25 Jul 2025	12:00 AM	WNW	0.0
25 Jul 2025	1:00 AM	W	0.0
25 Jul 2025	2:00 AM	W	0.0
25 Jul 2025	3:00 AM	NNW	0.0
25 Jul 2025	4:00 AM	NNW	0.0
25 Jul 2025	5:00 AM	WNW	0.0
25 Jul 2025	6:00 AM	WSW	0.0
25 Jul 2025	7:00 AM	WSW	0.1
25 Jul 2025	8:00 AM	SSW	0.4
25 Jul 2025	9:00 AM	S	0.5
25 Jul 2025	10:00 AM	SW	0.6
25 Jul 2025	11:00 AM	WSW	0.8
25 Jul 2025	12:00 PM	SSW	0.7
25 Jul 2025	1:00 PM	SW	0.8
25 Jul 2025	2:00 PM	SSW	0.7
25 Jul 2025	3:00 PM	SW	0.6
25 Jul 2025	4:00 PM	SW	0.6
25 Jul 2025	5:00 PM	SSW	0.6
25 Jul 2025	6:00 PM	SW	0.5
25 Jul 2025	7:00 PM	SW	0.4
25 Jul 2025	8:00 PM	WSW	0.6
25 Jul 2025	9:00 PM	SSW	0.4
25 Jul 2025	10:00 PM	SW	0.5
25 Jul 2025	11:00 PM	WSW	0.5
26 Jul 2025	12:00 AM	SW	0.4
26 Jul 2025	1:00 AM	WSW	0.4
26 Jul 2025	2:00 AM	SW	0.3
26 Jul 2025	3:00 AM	SW	0.4
26 Jul 2025	4:00 AM	SW	0.2
26 Jul 2025	5:00 AM	SW	0.5
26 Jul 2025	6:00 AM	SSW	0.2
26 Jul 2025	7:00 AM	S	0.3
26 Jul 2025	8:00 AM	SSW	0.7
26 Jul 2025	9:00 AM	SSW	0.8
26 Jul 2025	10:00 AM	SW	0.3
26 Jul 2025	11:00 AM	SW	0.5
26 Jul 2025	12:00 PM	WSW	0.6
26 Jul 2025	1:00 PM	WSW	0.6
26 Jul 2025	2:00 PM	SW	0.5
26 Jul 2025	3:00 PM	WSW	0.3
26 Jul 2025	4:00 PM	SSW	0.4
26 Jul 2025	5:00 PM	WNW	0.2
26 Jul 2025	6:00 PM	WSW	0.1
26 Jul 2025	7:00 PM	WSW	0.1
26 Jul 2025	8:00 PM	WSW	0.1
26 Jul 2025	9:00 PM	SW	0.3
26 Jul 2025	10:00 PM	SW	0.2
26 Jul 2025	11:00 PM	W	0.2
27 Jul 2025	12:00 AM	SW	0.3
27 Jul 2025	1:00 AM	W	0.3
27 Jul 2025	2:00 AM	WSW	0.1

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
27 Jul 2025	3:00 AM	SW	0.1
27 Jul 2025	4:00 AM	WSW	0.1
27 Jul 2025	5:00 AM	WNW	0.0
27 Jul 2025	6:00 AM	W	0.0
27 Jul 2025	7:00 AM	W	0.1
27 Jul 2025	8:00 AM	SSW	0.1
27 Jul 2025	9:00 AM	WSW	0.2
27 Jul 2025	10:00 AM	SSW	0.3
27 Jul 2025	11:00 AM	SW	0.1
27 Jul 2025	12:00 PM	SW	0.2
27 Jul 2025	1:00 PM	SSE	0.3
27 Jul 2025	2:00 PM	SW	0.6
27 Jul 2025	3:00 PM	SW	0.7
27 Jul 2025	4:00 PM	SW	0.4
27 Jul 2025	5:00 PM	SSW	0.2
27 Jul 2025	6:00 PM	W	0.3
27 Jul 2025	7:00 PM	SW	0.4
27 Jul 2025	8:00 PM	WSW	0.1
27 Jul 2025	9:00 PM	W	0.1
27 Jul 2025	10:00 PM	WSW	0.2
27 Jul 2025	11:00 PM	SSW	0.3
28 Jul 2025	12:00 AM	WSW	0.2
28 Jul 2025	1:00 AM	W	0.2
28 Jul 2025	2:00 AM	WSW	0.1
28 Jul 2025	3:00 AM	W	0.2
28 Jul 2025	4:00 AM	WSW	0.1
28 Jul 2025	5:00 AM	WNW	0.0
28 Jul 2025	6:00 AM	NW	0.2
28 Jul 2025	7:00 AM	SSW	0.1
28 Jul 2025	8:00 AM	NW	0.4
28 Jul 2025	9:00 AM	NW	0.3
28 Jul 2025	10:00 AM	SW	0.4
28 Jul 2025	11:00 AM	SSW	0.5
28 Jul 2025	12:00 PM	WSW	0.5
28 Jul 2025	1:00 PM	SW	0.4
28 Jul 2025	2:00 PM	WSW	0.5

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
28 Jul 2025	3:00 PM	SW	0.6
28 Jul 2025	4:00 PM	WSW	0.7
28 Jul 2025	5:00 PM	W	0.5
28 Jul 2025	6:00 PM	WSW	0.5
28 Jul 2025	7:00 PM	SW	0.4
28 Jul 2025	8:00 PM	WSW	0.2
28 Jul 2025	9:00 PM	SW	0.2
28 Jul 2025	10:00 PM	SW	0.2
28 Jul 2025	11:00 PM	SW	0.1
29 Jul 2025	12:00 AM	SW	0.2
29 Jul 2025	1:00 AM	SW	0.1
29 Jul 2025	2:00 AM	S	0.0
29 Jul 2025	3:00 AM	NNW	0.1
29 Jul 2025	4:00 AM	SW	0.0
29 Jul 2025	5:00 AM	W	0.0
29 Jul 2025	6:00 AM	SW	0.1
29 Jul 2025	7:00 AM	SW	0.1
29 Jul 2025	8:00 AM	WNW	0.1
29 Jul 2025	9:00 AM	W	0.3
29 Jul 2025	10:00 AM	SW	0.6
29 Jul 2025	11:00 AM	SW	0.7
29 Jul 2025	12:00 PM	SW	0.6
29 Jul 2025	1:00 PM	SSW	0.3
29 Jul 2025	2:00 PM	WSW	0.3
29 Jul 2025	3:00 PM	SSW	0.6
29 Jul 2025	4:00 PM	SSW	0.5
29 Jul 2025	5:00 PM	WSW	0.4
29 Jul 2025	6:00 PM	WSW	0.5
29 Jul 2025	7:00 PM	SW	0.4
29 Jul 2025	8:00 PM	WSW	0.2
29 Jul 2025	9:00 PM	WSW	0.1
29 Jul 2025	10:00 PM	SW	0.2
29 Jul 2025	11:00 PM	SSE	0.2
30 Jul 2025	12:00 AM	SW	0.2
30 Jul 2025	1:00 AM	SW	0.3
30 Jul 2025	2:00 AM	WSW	0.2
30 Jul 2025	3:00 AM	WSW	0.2
30 Jul 2025	4:00 AM	SSW	0.1
30 Jul 2025	5:00 AM	W	0.1
30 Jul 2025	6:00 AM	W	0.2
30 Jul 2025	7:00 AM	W	0.2
30 Jul 2025	8:00 AM	SW	0.4
30 Jul 2025	9:00 AM	SSW	0.3
30 Jul 2025	10:00 AM	SW	0.4
30 Jul 2025	11:00 AM	WSW	0.5
30 Jul 2025	12:00 PM	W	0.7
30 Jul 2025	1:00 PM	SW	0.4
30 Jul 2025	2:00 PM	SW	0.6
30 Jul 2025	3:00 PM	SW	0.6
30 Jul 2025	4:00 PM	SW	0.5
30 Jul 2025	5:00 PM	WSW	0.6
30 Jul 2025	6:00 PM	SW	0.6
30 Jul 2025	7:00 PM	WSW	0.4
30 Jul 2025	8:00 PM	SW	0.3
30 Jul 2025	9:00 PM	SW	0.5
30 Jul 2025	10:00 PM	W	0.1
30 Jul 2025	11:00 PM	W	0.2

July 2025			
Wind Speed and Directions			
Date	**Time**	**Direction**	**Wind Speed m-s**
31 Jul 2025	12:00 AM	SSW	0.0
31 Jul 2025	1:00 AM	WSW	0.0
31 Jul 2025	2:00 AM	WSW	0.0
31 Jul 2025	3:00 AM	WSW	0.0
31 Jul 2025	4:00 AM	WSW	0.0
31 Jul 2025	5:00 AM	W	0.0
31 Jul 2025	6:00 AM	W	0.0
31 Jul 2025	7:00 AM	SW	0.1
31 Jul 2025	8:00 AM	S	0.4
31 Jul 2025	9:00 AM	SSW	0.5
31 Jul 2025	10:00 AM	SSW	0.6
31 Jul 2025	11:00 AM	S	0.8
31 Jul 2025	12:00 PM	S	0.7
31 Jul 2025	1:00 PM	S	0.8
31 Jul 2025	2:00 PM	SSW	0.7
31 Jul 2025	3:00 PM	S	0.6
31 Jul 2025	4:00 PM	SSW	0.6
31 Jul 2025	5:00 PM	S	0.6
31 Jul 2025	6:00 PM	SSW	0.5
31 Jul 2025	7:00 PM	SW	0.4
31 Jul 2025	8:00 PM	WSW	0.6
31 Jul 2025	9:00 PM	WSW	0.4
31 Jul 2025	10:00 PM	W	0.5
31 Jul 2025	11:00 PM	WSW	0.5

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 (July 2025)

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

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(B)[(2)] - Flat 103 Cha Kwo Ling Village

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;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (August 2025)

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

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(B)(2) - Flat 103 Cha Kwo Ling Village

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;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (September 2025)

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

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(B)(2) - Flat 103 Cha Kwo Ling Village

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;

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (October 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Oct	2-Oct	3-Oct	4-Oct
						24-hrs TSP
5-Oct	6-Oct	**7-Oct**	8-Oct	9-Oct	10-Oct	11-Oct
	1-hr TSP X3 Noise			24-hrs TSP	1-hr TSP X3	
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
			24-hrs TSP	1-hr TSP X3 Noise		
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
		24-hrs TSP	1-hr TSP X3 Noise			
26-Oct	27-Oct	` 28-Oct	**29-Oct**	30-Oct	31-Oct	
	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(B)[(2)] - Flat 103 Cha Kwo Ling Village

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;

APPENDIX E
1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - 1-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple			
Date	Time	Weather	Particulate Concentration (μg/m^3)
4-Jul-25	9:35	Fine	39.9
4-Jul-25	10:35	Fine	46.2
4-Jul-25	11:35	Fine	54.6
9-Jul-25	15:24	Cloudy	22.1
9-Jul-25	16:24	Cloudy	17.0
9-Jul-25	17:24	Cloudy	27.2
15-Jul-25	11:44	Sunny	20.9
15-Jul-25	12:44	Sunny	24.7
15-Jul-25	13:44	Sunny	20.9
21-Jul-25	13:00	Cloudy	45.0
21-Jul-25	14:00	Cloudy	46.8
21-Jul-25	15:00	Cloudy	48.6
25-Jul-25	10:15	Fine	23.8
25-Jul-25	11:15	Fine	32.3
25-Jul-25	12:15	Fine	34.0
31-Jul-25	13:00	Sunny	34.2
31-Jul-25	14:00	Sunny	36.0
31-Jul-25	15:00	Sunny	32.4
		Average	33.7
		Maximum	54.6
		Minimum	17.0

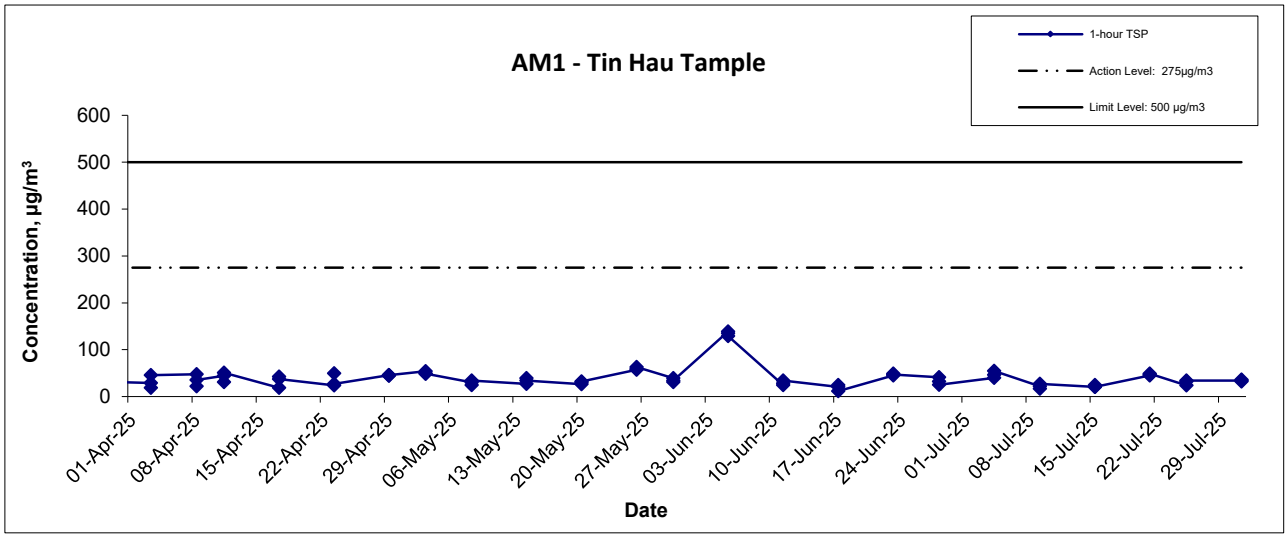
Location AM2 - Sai Tso Wan Recreation Ground			
Date	Time	Weather	***Particulate Concentration (μg/m^3)***
4-Jul-25	16:00	Fine	30.6
4-Jul-25	17:00	Fine	17.0
4-Jul-25	18:00	Fine	13.6
9-Jul-25	9:30	Fine	29.4
9-Jul-25	10:30	Fine	33.6
9-Jul-25	11:30	Fine	52.5
15-Jul-25	13:20	Fine	20.4
15-Jul-25	14:20	Fine	40.8
15-Jul-25	15:20	Fine	34.0
21-Jul-25	9:00	Cloudy	28.8
21-Jul-25	10:00	Cloudy	32.4
21-Jul-25	11:00	Cloudy	30.6
25-Jul-25	9:25	Fine	18.7
25-Jul-25	10:25	Fine	27.2
25-Jul-25	11:25	Fine	30.6
31-Jul-25	9:30	Sunny	54.6
31-Jul-25	10:30	Sunny	60.9
31-Jul-25	11:30	Sunny	73.5
		Average	35.0
		Maximum	73.5
		Minimum	13.6

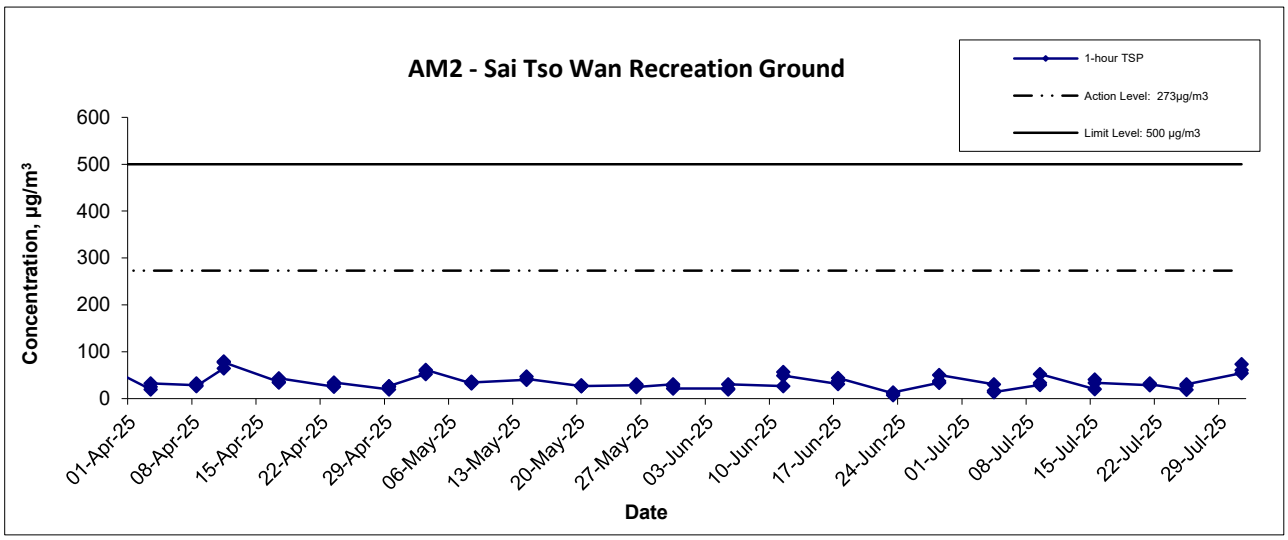
Appendix E - 1-hour TSP Monitoring Results

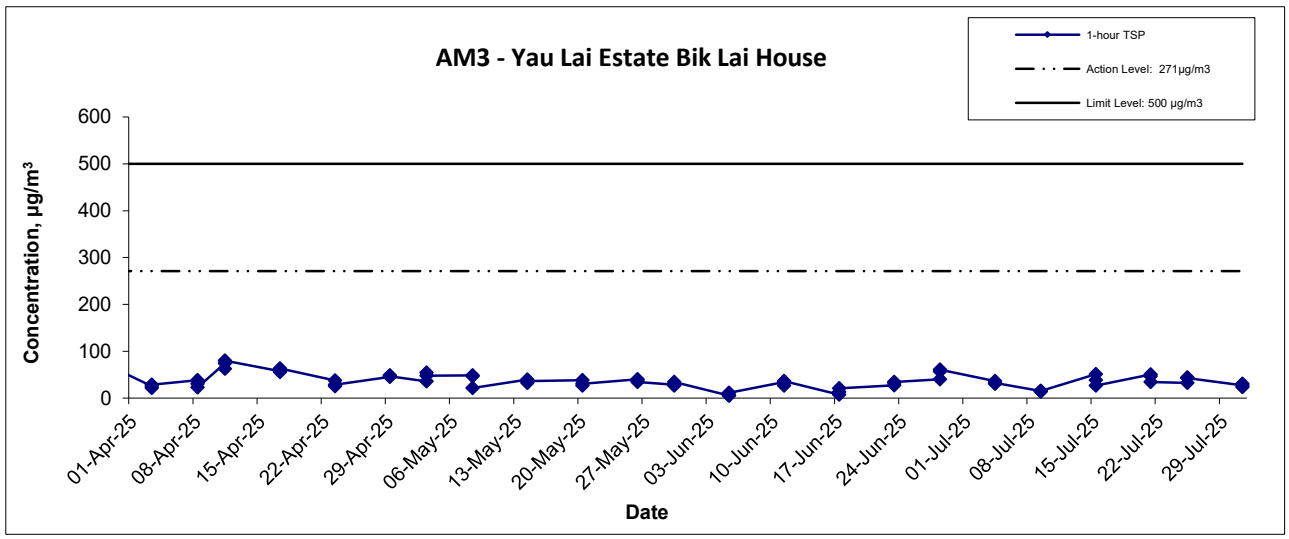
Location AM3 - Yau Lai Estate Bik Lai House			
Date	Time	Weather	***Particulate Concentration (µg/m^3)***
4-Jul-25	9:25	Sunny	36.1
4-Jul-25	10:25	Sunny	30.4
4-Jul-25	11:25	Sunny	32.3
9-Jul-25	9:39	Cloudy	15.3
9-Jul-25	10:39	Cloudy	13.6
9-Jul-25	11:39	Cloudy	15.3
15-Jul-25	12:49	Sunny	51.3
15-Jul-25	13:49	Sunny	38.0
15-Jul-25	14:49	Sunny	26.6
21-Jul-25	10:05	Fine	50.4
21-Jul-25	11:05	Fine	46.8
21-Jul-25	12:05	Fine	34.2
25-Jul-25	14:10	Fine	32.3
25-Jul-25	15:10	Fine	44.2
25-Jul-25	16:10	Fine	42.5
31-Jul-25	9:00	Sunny	27.0
31-Jul-25	10:00	Sunny	30.6
31-Jul-25	11:00	Sunny	23.4
		Average	32.8
		Maximum	51.3
		Minimum	13.6

Location AM4 - Sitting-out Area at Cha Kwo Ling Village			
Date	Time	Weather	***Particulate Concentration (µg/m^3)***
4-Jul-25	11:25	Sunny	36.1
4-Jul-25	12:25	Sunny	30.4
4-Jul-25	13:25	Sunny	32.3
9-Jul-25	13:00	Cloudy	13.6
9-Jul-25	14:00	Cloudy	17.0
9-Jul-25	15:00	Cloudy	18.7
15-Jul-25	9:33	Sunny	22.8
15-Jul-25	10:33	Sunny	26.6
15-Jul-25	11:33	Sunny	20.9
21-Jul-25	12:15	Fine	39.6
21-Jul-25	13:15	Fine	43.2
21-Jul-25	14:15	Fine	28.8
25-Jul-25	10:30	Fine	22.1
25-Jul-25	11:30	Fine	25.5
25-Jul-25	12:30	Fine	32.3
31-Jul-25	16:00	Sunny	39.6
31-Jul-25	17:00	Sunny	41.4
31-Jul-25	18:00	Sunny	36.0
		Average	29.3
		Maximum	43.2
		Minimum	13.6

1-hr TSP Concentration Levels

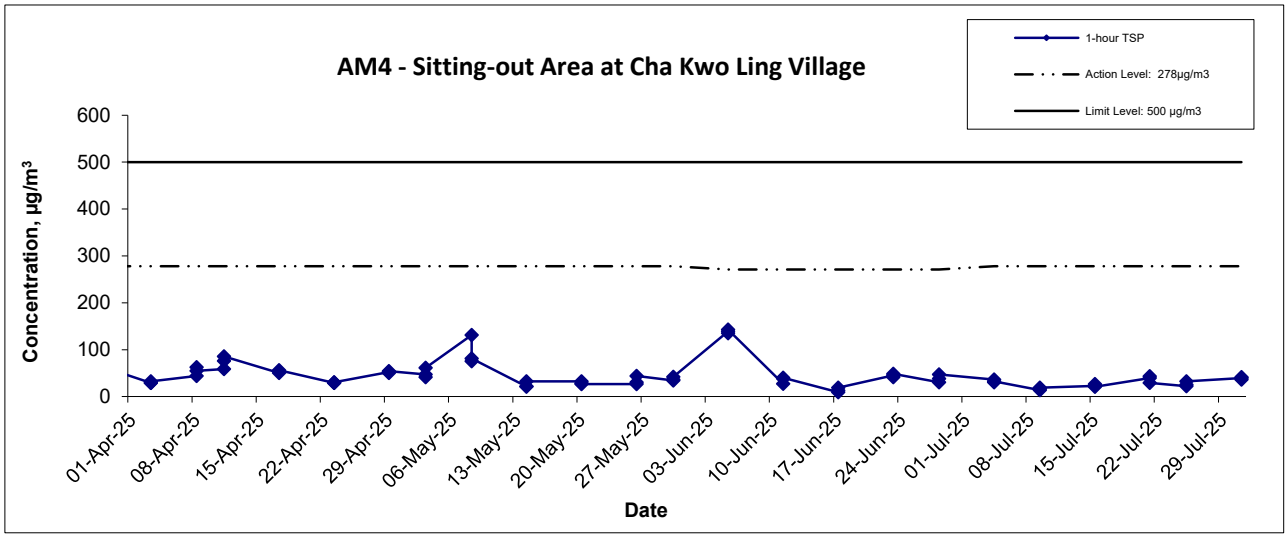






Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S	Project No. MA20003	CINOTECH
	Date Jul-25	Appendix E	

1-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 1-hour TSP Monitoring Results	Scale N.T.S Date Jul-25	Project No. MA20003 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	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	($\mu g/m^3$)
2-Jul-25	Fine	2.7594	2.8295	0.0701	15162.6	15186.6	24.0	1.22	1.21	1.21	1748.9	40.1
8-Jul-25	Sunny	2.8307	2.8659	0.0351	15186.6	15210.6	24.0	1.21	1.21	1.21	1742.4	20.2
14-Jul-25	Fine	2.7121	2.7733	0.0613	15210.6	15234.6	24.0	1.21	1.21	1.21	1745.7	35.1
19-Jul-25	Rainy	2.7360	2.7597	0.0236	15234.6	15258.6	24.0	1.21	1.21	1.21	1741.3	13.6
24-Jul-25	Sunny	2.8203	2.8437	0.0234	15258.6	15282.6	24.0	1.21	1.21	1.21	1745.8	13.4
30-Jul-25	Sunny	2.8069	2.8295	0.0227	15282.6	15306.6	24.0	1.21	1.21	1.21	1742.3	13.0
											Min	13.0
											Max	40.1
											Average	22.6

Location AM2 - Sai Tso Wan Recreation Ground

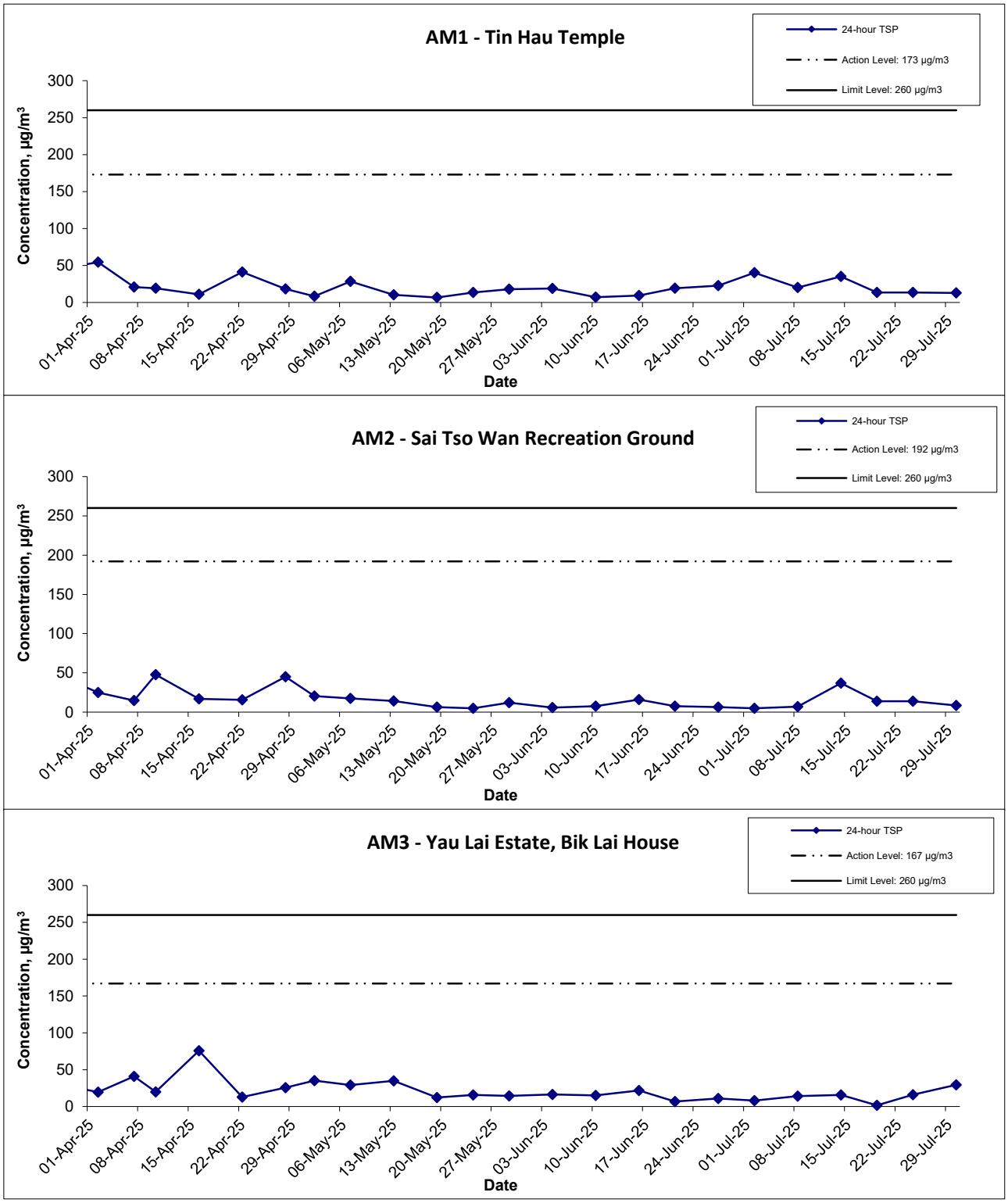
Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	($\mu g/m^3$)
2-Jul-25	Fine	2.7472	2.7558	0.0086	36252.6	36276.6	24.0	1.22	1.22	1.22	1750.5	4.9
8-Jul-25	Cloudy	2.7928	2.8050	0.0122	36276.6	36300.6	24.0	1.21	1.21	1.21	1744.9	7.0
14-Jul-25	Fine	2.7301	2.7948	0.0647	36300.6	36324.6	24.0	1.21	1.21	1.21	1747.7	37.0
19-Jul-25	Rainy	2.6883	2.7126	0.0243	36324.6	36348.6	24.0	1.21	1.21	1.21	1743.9	14.0
24-Jul-25	Sunny	2.8006	2.8247	0.0241	36348.6	36372.6	24.0	1.21	1.21	1.21	1747.8	13.8
30-Jul-25	Sunny	2.8357	2.8503	0.0146	36372.6	36396.6	24.0	1.21	1.21	1.21	1744.8	8.4
											Min	4.9
											Max	37.0
											Average	14.2

Location AM3 - Yau Lai Estate, Bik Lai House

Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	($\mu g/m^3$)
2-Jul-25	Sunny	2.8098	2.8238	0.0140	10550.2	10574.2	24.0	1.21	1.21	1.21	1747.9	8.0
8-Jul-25	Cloudy	2.7956	2.8202	0.0245	10574.2	10598.2	24.0	1.21	1.21	1.21	1742.1	14.1
14-Jul-25	Sunny	2.7362	2.7633	0.0272	10598.2	10622.2	24.0	1.21	1.21	1.21	1745.0	15.6
19-Jul-25	Rainy	2.8271	2.8299	0.0028	10622.2	10646.2	24.0	1.21	1.21	1.21	1741.1	1.6
24-Jul-25	Sunny	2.8320	2.8602	0.0283	10646.2	10670.2	24.0	1.21	1.21	1.21	1745.1	16.2
30-Jul-25	Sunny	2.8206	2.8721	0.0515	10670.2	10694.2	24.0	1.21	1.21	1.21	1742.0	29.6
											Min	1.6
											Max	29.6
											Average	14.2

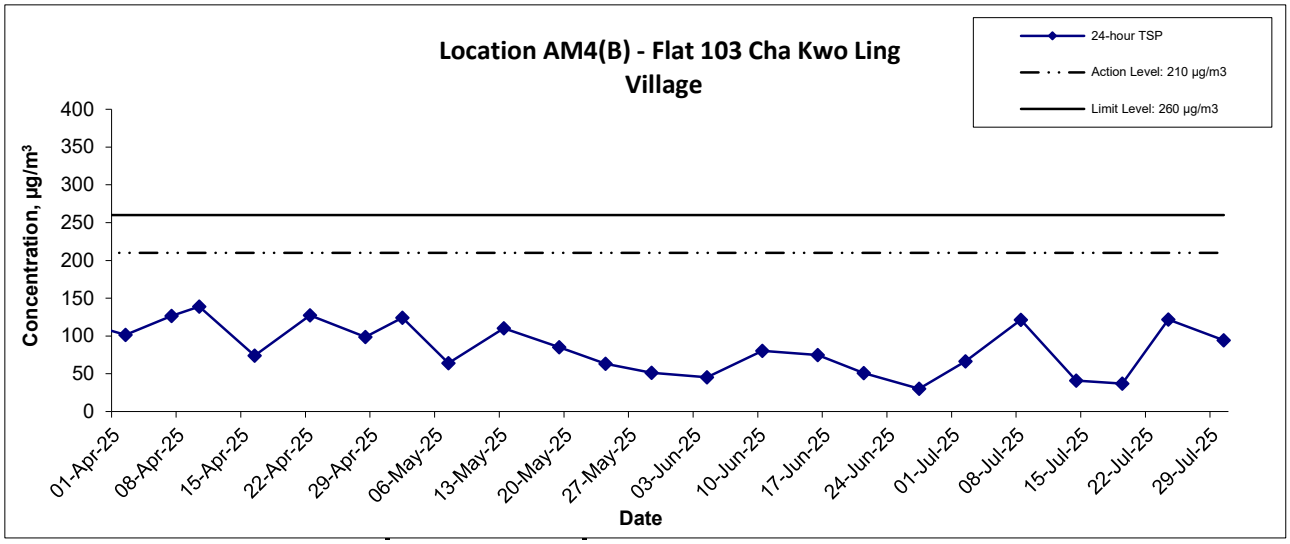
Location AM4(B) - Flat 103 Cha Kwo Ling Village

Start Date	Weather	Filter Weight (g)		Particulate	Elapse Time		Sampling	Flow Rate (m^3/min.)		Av. flow	Total vol.	Conc.
	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m^3/min)	(m^3)	($\mu g/m^3$)
2-Jul-25	Fine	2.8276	2.9411	0.1135	22058.3	22082.3	24.0	1.19	1.19	1.19	1711.8	66.3
8-Jul-25	Sunny	2.8079	3.0204	0.2124	22082.3	22106.3	24.0	1.22	1.22	1.22	1751.3	121.3
14-Jul-25	Fine	2.7552	2.8270	0.0718	22106.3	22130.3	24.0	1.22	1.22	1.22	1754.4	40.9
19-Jul-25	Rainy	2.8260	2.8906	0.0646	22130.3	22154.3	24.0	1.21	1.22	1.22	1750.2	36.9
24-Jul-25	Sunny	2.8207	3.0342	0.2136	22154.3	22178.3	24.0	1.22	1.22	1.22	1754.5	121.7
30-Jul-25	Fine	2.7912	2.9562	0.1650	22178.3	22202.3	24.0	1.22	1.22	1.22	1751.1	94.2
											Min	36.9
											Max	121.7
											Average	80.2



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 N.T.S Date Jul-25	Project No. MA20003 Appendix F	CINOTECH

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 N.T.S Date Jul-25	Project No. MA20003 Appendix F	CINOTECH

APPENDIX G
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

Location CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4 Jul 2025	9:45	Sunny	63.7	65.1	61.6	65.5	64 Measured ≦ Baseline
9 Jul 2025	13:45	Cloudy	68.4	70.0	66.4	65.5	65
15 Jul 2025	13:40	Sunny	69.1	70.4	67.7	65.5	67
21 Jul 2025	9:00	Cloudy	70.3	73.7	66.8	65.5	69
31 Jul 2025	16:00	Sunny	69.9	73.1	64.2	65.5	68

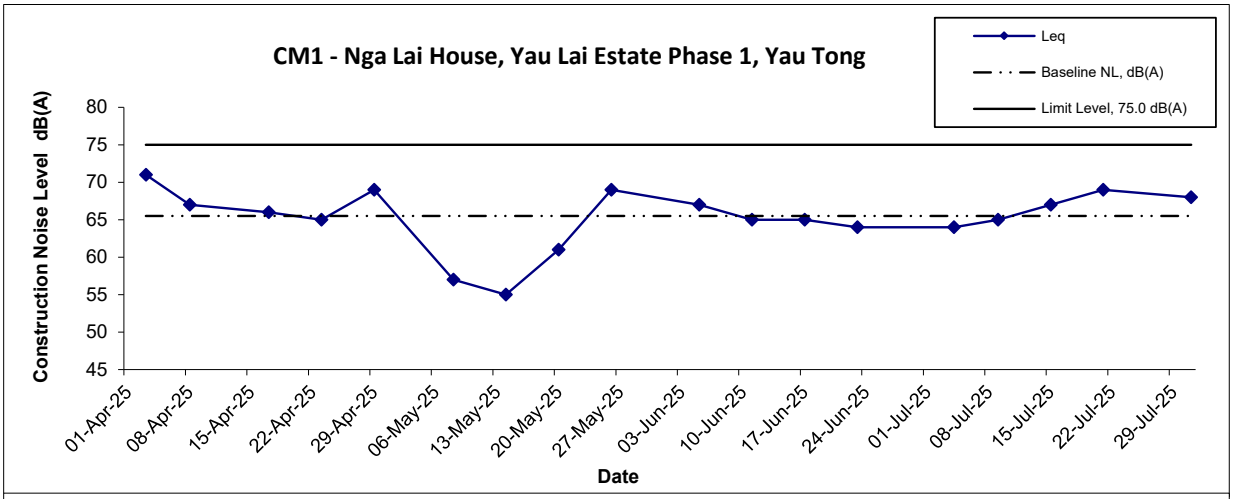
Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4 Jul 2025	9:00	Sunny	64.9	66.5	63.1	63.6	59
9 Jul 2025	10:30	Cloudy	68.4	69.4	67.1	63.6	67
15 Jul 2025	13:00	Sunny	68.0	69.2	66.6	63.6	66
21 Jul 2025	9:50	Cloudy	70.5	73.7	66.4	63.6	70
31 Jul 2025	9:00	Sunny	69.7	73.4	63.3	63.6	68

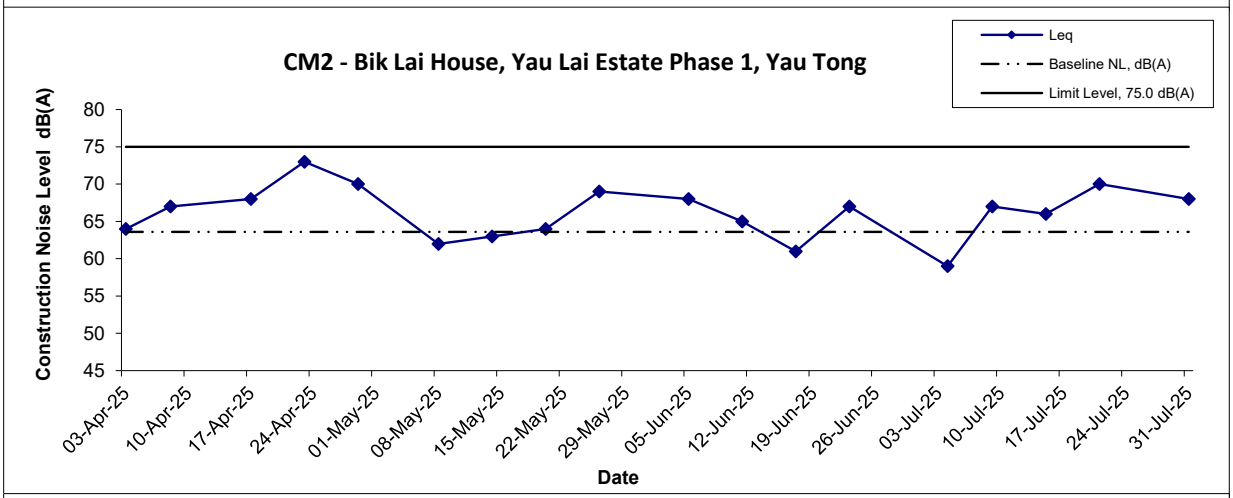
Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4 Jul 2025	10:30	Sunny	64.8	65.8	62.4	65.6	65 Measured ≦ Baseline
9 Jul 2025	14:50	Cloudy	66.2	67.8	64.3	65.6	57
15 Jul 2025	12:15	Sunny	66.5	67.8	65.1	65.6	59
21 Jul 2025	10:40	Cloudy	70.1	73.3	65.4	65.6	68
31 Jul 2025	11:00	Sunny	70.2	73.9	65.4	65.6	68

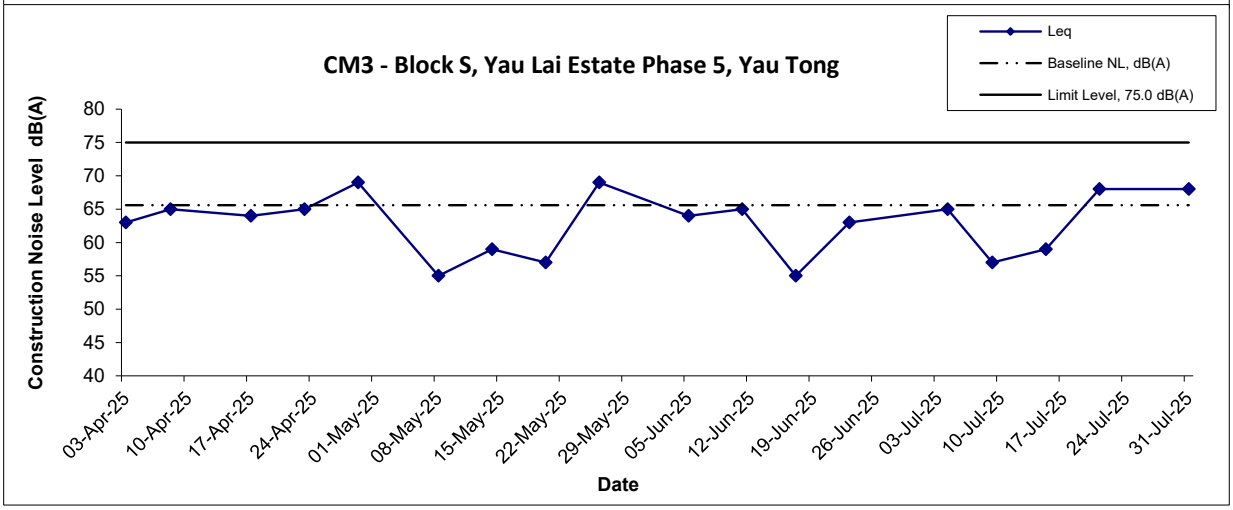
Location CM4 - Tin Hau Temple, Cha Kwo Ling							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4 Jul 2025	13:30	Sunny	54.6	57.1	50.5	62.0	55 Measured ≦ Baseline
9 Jul 2025	17:10	Cloudy	57.2	59.6	53.7	62.0	57 Measured ≦ Baseline
15 Jul 2025	10:45	Sunny	59.6	61.7	56.5	62.0	60 Measured ≦ Baseline
21 Jul 2025	14:00	Cloudy	63.7	66.9	57.9	62.0	59
31 Jul 2025	14:00	Sunny	63.7	68.1	59.4	62.0	59

Location CM5 - CCC Kei Faat Primary School, Yau Tong							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
4 Jul 2025	14:05	Sunny	63.4	66.2	59.5	68.2	63 Measured ≦ Baseline
9 Jul 2025	16:00	Cloudy	67.2	69.6	63.6	68.2	67 Measured ≦ Baseline
15 Jul 2025	11:30	Sunny	67.6	70.1	63.9	68.2	68 Measured ≦ Baseline
21 Jul 2025	11:30	Cloudy	67.7	70.9	63.6	68.2	68 Measured ≦ Baseline
31 Jul 2025	13:00	Sunny	67.5	70.6	63.1	68.2	68 Measured ≦ Baseline

Noise Levels



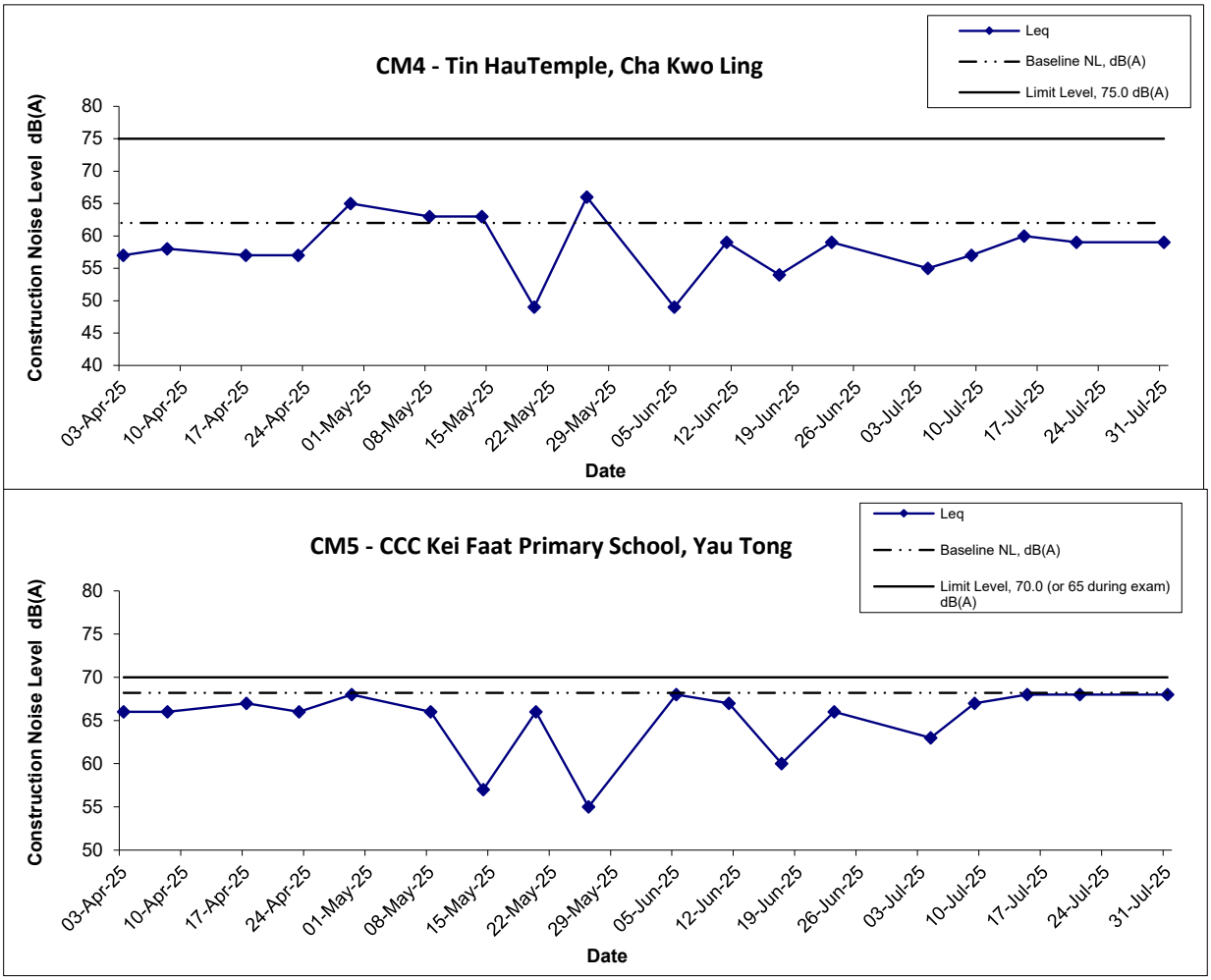




Title	Scale	Project
Contract No. ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	N.T.S	No. MA20003
	Date July 25	Appendix G

CINOTECH

Noise 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 3.13.

Title: 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	Scale: N.T.S Date: July 25	Project No. MA20003 Appendix G	CINOTECH

APPENDIX H
WASTE GENERATION IN THE REPORTING MONTH

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

Name of Department: CEDD

Monthly Summary Waste Flow Table for 2025 (CKL)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
January	11.536	0.843	0.866	0.259	10.410	0.000	0.000	0.000	0.000	0.000	0.048
February	11.239	1.307	0.589	0.000	10.650	0.000	0.000	0.000	0.000	0.000	0.076
March	4.432	0.820	0.359	0.000	4.074	0.000	0.000	0.000	0.000	0.000	0.075
April	15.886	1.091	0.000	0.000	15.886	0.000	0.000	0.000	0.000	0.000	0.045
May	12.110	1.262	0.000	0.000	12.110	0.000	0.000	0.000	0.000	0.000	0.038
June	5.179	0.036	0.000	0.000	5.179	0.000	0.000	0.000	0.000	0.000	0.032
Sub-total	60.383	5.360	1.815	0.259	58.309	0.000	0.000	0.000	0.000	0.000	0.313
July	1.328	0.442	0.000	0.000	1.328	0.000	0.000	0.000	0.000	0.000	0.025
August											
September											
October											
November											
December											
Total	61.711	5.802	1.815	0.259	59.637	0.000	0.000	0.000	0.000	0.000	0.338

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).

Monthly Summary Waste Flow Table For 2025 (CKL)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Waste Generated Monthly							
	Total Quantity Generated	Broken Concrete (see Note 4)	Estimated Quantities (Broken Concrete)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Estimated Quantities (Metals)	Paper/ cardboard packaging	Estimated Quantities (Paper/ cardboard packaging)	Plastics (see Note 3)	Estimated Quantities (Plastics)	Chemical Waste	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 '000kg)	(in '000kg)	(in '000kg)	(tonne)
Jan-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
May-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Jun-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sub-total	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Jul-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Aug-25														
Sep-25														
Oct-25														
Nov-25														
Dec-25														
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	**0**

Notes:

(1) The performance targets are given in PS Sub-clause 2(5) (c).

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

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

(4) Broken concrete for recycling into aggregates.

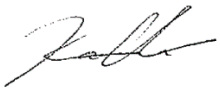
APPENDIX I
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250703
Date	03 July 2025 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 250626).	

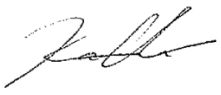
	Name	Signature	Date
Recorded by	William Yeung		03 Jul 2025
Checked by	Karina Chan		07 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250710
Date	10 July 2025 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 250703).	

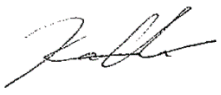
	Name	Signature	Date
Recorded by	William Yeung		10 Jul 2025
Checked by	Karina Chan		14 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250717
Date	17 July 2025 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 250710).	

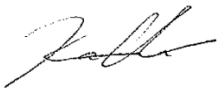
	Name	Signature	Date
Recorded by	William Yeung		17 Jul 2025
Checked by	Karina Chan		21 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250724
Date	24 July 2025 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 250717).	

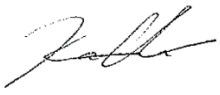
	Name	Signature	Date
Recorded by	William Yeung		24 Jul 2025
Checked by	Karina Chan		28 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250731
Date	31 July 2025 (Thursday)
Time	09:30 – 16:30

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*** • No environmental deficiency was identified in previous session (Ref No.: 250724).	

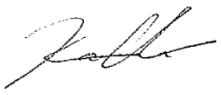
	Name	Signature	Date
Recorded by	William Yeung		31 Jul 2025
Checked by	Karina Chan		04 Aug 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250703
Date	03 July 2025 (Thursday)
Time	09:30 – 12:30

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.:250626), no major environmental deficiency was identified during site inspection.	

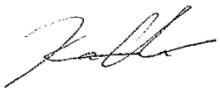
	Name	Signature	Date
Recorded by	William Yeung		03 Jul 2025
Checked by	Karina Chan		07 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250711
Date	11 July 2025 (Friday)
Time	09:30 – 12:30

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.:250703), no major environmental deficiency was identified during site inspection.	

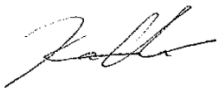
	Name	Signature	Date
Recorded by	William Yeung		11 Jul 2025
Checked by	Karina Chan		14 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250717
Date	17 July 2025 (Thursday)
Time	09:30 – 12:30

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.:250711), no major environmental deficiency was identified during site inspection.	

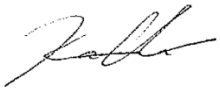
	Name	Signature	Date
Recorded by	William Yeung		17 Jul 2025
Checked by	Karina Chan		21 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250724
Date	24 July 2025 (Thursday)
Time	09:30 – 12:30

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.:250717), no major environmental deficiency was identified during site inspection.	

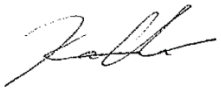
	Name	Signature	Date
Recorded by	William Yeung		24 Jul 2025
Checked by	Karina Chan		28 Jul 2025

Weekly Site Inspection Record Summary
Inspection Information

Checklist Reference Number	250731
Date	31 July 2025 (Thursday)
Time	09:30 – 12:30

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.:250724), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung		31 Jul 2025
Checked by	Karina Chan		04 Aug 2025

APPENDIX J
ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

✓ 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 Impact (Construction Phase)						
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1,900kg/m^3, with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m^3 (i.e. 1,000 m^3 per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	• Silt curtains should be deployed properly to surround the works area. • Maintenance of silt curtain should be provided. • Sufficient stock of silt curtain should be provided on site.	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.3	Other good site practices should be undertaken during filling operations include: • all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea; • floating single silt curtain shall be employed for all marine works; • all vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; • all hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material; • excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; • adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; • loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation; • any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; • construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and • before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the reclamation, design and operation of the silt curtain.	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR S5.6.1	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
S5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.6	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?
S5.8.7	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 S5.8.8 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: • use of sediment traps; and • adequate maintenance of drainage systems to prevent flooding and overflow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.9	Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m^3 capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m^3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
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
S5.8.25 - S5.8.27 & Table 5.18	Grouting would be adopted as measure to reduce the groundwater inflow into the tunnel. During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater 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 run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
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
S5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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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
S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
S5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport; • 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						
S6.8.4	**Measures to Minimize Disturbance** • Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. • Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase activities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers; • Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

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S6.8.5	**Standard Good Site Practice** • Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitats. • Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. • Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. • General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. • Open burning on works sites is illegal, and should be strictly prohibited. • Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	**Measure to Minimize Groundwater Inflow** • The drained tunnel construction method with groundwater inflow control measures would generally be adopted. • During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements.	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
S6.8.8	**Measure to Minimize Impact on Corals** <u>Coral translocation</u> • It is recommended to translocate the affected coral colonies, except the locally common *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. <u>Post translocation Monitoring</u> • 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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S6.8.9 S6.8.10	**Measure to Control Water Quality Impact** • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. • Diverting of the site runoff to silt trap facilities before discharging into storm drain; • Proper waste and dumping management; and • Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	WQO
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						
S7.7.3	**Measure to Control Water Quality Impact** • Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	WQO
Waste Management (Construction Phase)						
S8.6.3	**Good Site Practices and Waste Reduction Measures** • Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; • Provision of sufficient waste disposal points and regular collection of waste; • Appropriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.4	***Good Site Practices and Waste Reduction Measures (con't)*** • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; • Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and • Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
S8.6.5	**Good Site Practices and Waste Reduction Measures (con't)** The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.6	**Good Site Practices and Waste Reduction Measures (con't)** • C&D materials would be reused in the project and other local concurrent projects as far as possible.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.7	**Storage, Collection and Transportation of Waste** Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: • Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; • Maintain and clean storage areas routinely; • Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and • Different locations should be designated to stockpile each material to enhance reuse.	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	**Storage, Collection and Transportation of Waste (con't)** • Remove waste in timely manner; • Waste collectors should only collect wastes prescribed by their permits; • Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; • Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); • Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and • Maintain records of quantities of waste generated, recycled and disposed.	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	**Storage, Collection and Transportation of Waste (con't)** • Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010, Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed (including disposal sites) should be proposed.	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	**Sorting of C&D Materials** • Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. • Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. • The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	**Sediments (con't)** • Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. • A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). • In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. • 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	**Sediments (con't)** • The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The 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 sediments. Adequate washing and cleaning facilities should also be provided on site. • Another possible arrangement for Type 3 disposal is by geosynthetic containment. A geosynthetic containment method is a method whereby the sediments are sealed in geosynthetic containers and, at the disposal site, the containers would be dropped into the designated contaminated mud pit where they would be covered by further mud disposal and later by the mud pit capping, thereby meeting the requirements for fully confined mud disposal.	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	**Chemical Wastes.** • If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

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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 Heritage (Construction Phase)						
S9.6.4	**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
S9.6.4	**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 Visual Impact (Construction Phase)						
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

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)						
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill Consultation Zone	Construction phase	EPD's Landfill Gas Hazard Assessment Guidance Note

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S11.5.10 S11.5.25	**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 other buildings located within the Sai Tso Wan Landfill Consultation Zone which have enclosed spaces with the capacity to accumulate landfill gas, then they should either be located in an area which has been proven to be free of landfill gas (by survey using portable gas detectors); or be raised clear of the ground by a minimum of 500mm. This aims to create a clear void under the structure which is ventilated by natural air movement such that emission of gas from the ground are mixed and diluted by air. • Any electrical equipment, such as motors and extension cords, should be intrinsically safe. During piping assembly or conduiting construction, all valves/seals should be closed immediately after installation. As construction progresses, all valves/seals should be closed to prevent the migration of gases through the pipeline/conduit. All piping /conduiting should be capped at the end of each working day. • During construction, adequate fire extinguishing equipment, fire-resistant clothing and breathing apparatus (BA) sets should be made available on site. • Fire drills should be organized at not less than six monthly intervals.	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?
S11.5.10 S11.5.25	• 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 prevent hazards due to asphyxiating atmospheres in confined spaces. Detailed guidance on entry into confined spaces is given in Code of Practice on Safety and Health at Work in Confined Spaces (Labour Department, Hong Kong). • Periodically during ground-works construction within the 250m Consultation Zone, the works area should be monitored for methane, carbon dioxide and oxygen using appropriately calibrated portable gas detection equipment. The monitoring frequency and areas to be monitored should be set down prior to commencement of ground-works either by the Safety Officer or an approved and appropriately qualified person.					
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
S11.5.32	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
- ✕ Observation/reminder was made during site audit but not yet improved/rectified by the contractor in the next site audit
- # Follow up action will be reported in next reporting month
- ✻ Non-compliance of mitigation measure
- · Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
--	--	--		
Construction Noise Impact				
--	--	--		
Water Quality Impact				
--	--	--		
Ecological Impact				
--	--	--		
Fisheries Impact				
--	--	--		
Waste Management				
--	--	--		
Landscape and Visual Impact				
--	--	--		
Landfill Gas Hazards				
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APPENDIX L
EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
Action level being exceeded by one sampling	1. Identify source, investigate the causes of complaint and propose remedial measures; 2. Inform IEC and ER; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
Action level being exceeded by two or more consecutive sampling	1. Identify source; 2. Inform IEC and ER; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC and Contractor on remedial actions required;	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to IEC within three working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.

	7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.			
Limit level being exceeded by one sampling	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform Contractor ,IEC, ER, and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
Limit level being exceeded by two or more consecutive sampling	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within three working days of notification; 3. 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 of the results; 8. If exceedance stops, cease additional monitoring.	3. Supervise the implementation of remedial measures.	4. Ensure remedial measures properly implemented; 5. 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	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	1. Notify IEC and Contractor; 2. Carry out investigation; 3. Report the results of investigation to the IEC, ER and Contractor; 4. Discuss with the Contractor and formulate remedial measures; 5. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented.	1. Submit noise mitigation proposals to IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Identify source; 2. Inform IEC, ER, EPD and Contractor; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures properly implemented; 5. 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.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to IEC within 3 working days of notification; 3. Implement the agreed proposals; 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.

Limit Levels and Action Plan for Landfill Gas

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

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

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

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

Reporting Month: July 2025

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

Contract No. ED/2018/04
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

Reporting Month: July 2025

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 is 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
Complaint #N04	Portion T1	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	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 on the evening time and night-time of the date of complaint are considered as one of the potential noise sources of the ground borne noise nuisance.	Closed
		6 March 2021	The complainant informed that they continue to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.			

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

Reporting Month: July 2025

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.	

Contract No. ED/2018/04
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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N05	Portion T1	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.	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 on the evening time and night-time of the date of complaint are considered as one of the potential noise sources of the ground borne noise nuisance. • A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. • Contractor is recommended to	Closed
		27 July 2021	Complainant further informed that they continued to hear underground breaking noise during 3-5 a.m. on 27 July 2021.			

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

Reporting Month: July 2025

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 sources of the ground borne noise nuisance.	Closed

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

Reporting Month: July 2025

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

Contract No. ED/2018/04
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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N07	Portion T1	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 sources of the ground borne noise nuisance. • A valid CNP was hold and the construction activities being taken were complied with the relevant CNP. • Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide	Closed
		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.			

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		12-April-22	3rd 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 these 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.	
Complaint #N08	Portion T1	19-Oct-22	Complainant informed that the ground borne 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 ground borne 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	Closed

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

Reporting Month: July 2025

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

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					• 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	
Complaint #N11	Portion T1 & Portion V	11th August 2023	Complainant informed that there was a noise nuisance from construction work between 8 am and 7 pm, causing an impact on the residents. -	Noise	• A valid CNP was hold and construction activities being taken were complied with the relevant CNP • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the	Closed

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					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-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received	
		23rd August 2023	The complainant informed that there were vibrations caused by the works in CKL Tunnel on 21 August 2023. They stated that their units are temporary housing with certain risks involved and requested an explanation for the project as well as appropriate actions to be taken		• A valid CNP was hold and construction activities being taken were complied with the relevant CNP • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • In addition, the Contractor should	Closed

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					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-RE0603-23), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received	
		6th September 2023	EPD received a complaint from a resident of Cha Kwo Ling Village regarding vibrations caused by the construction works of the T2 project on 5 September 2023. The complainant stated that these vibrations are affecting House No. 78 in the village.	Noise	• A valid CNP was hold and construction activities being taken were complied with the relevant CNP • The weekly noise monitoring and additional noise assessments have verified that the noise levels remain within the set limits. Moreover, the ground borne noise measurements	Closed

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					data suggests that the noise levels are well within the criteria outlined in the TM. • The contractor has taken steps to address noise concerns by implementing noise control measures such as erecting noise barriers and using a hydraulic breaker equipped with a noise muffler. • 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-RE0973-23), the	

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received	
Complaint #N14	Portion T1	11th September 2024	The complainant stated that noise nuisance was alleviated before but the noise recurred again which had affected her health.	Noise	• No violation of the NMP was recorded as the numbers and types of PMEs operated during the period of complaint comply with the latest NMP. • The weekly noise monitoring and additional noise assessments have verified that the noise levels remain within the set limits. Moreover, the ground borne noise measurements data suggests that the noise levels are well within the criteria outlined in the TM. • The contractor has taken steps to address noise concerns by implementing noise	Closed

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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					control measures such as covering all the noisy operating PME/equipment with silencer and noise enclosure. • 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. • The Contractor is recommended to strictly follow the conditions and requirements of the valid NMP and ensure the construction activities being taken were complied with the relevant NMP.	

Contract No. ED/2018/04
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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #L01	Portion Q1	03rd October 2024	EPD received complaint referred by CE office against the light nuisance and Dark Smoke from the barges berthed near Laguna City, Lam Tin. EPD's inspection on 17 Oct 2024 noticed some barges anchored outside the seafront of T2 construction site with their floodlights turned on. And this may be the source of the light nuisance complaint.	Light and Air	• The night work operation is under valid permit, lighting at Portion Q1 area including all PME was turned off before 11pm. • Micro-Ringelmann Chart produced by the Marine Department was used to check the emission from the barge and no dark smoke is emitted when the barge is operating. • There was no direct evidence that any dark smoke was emitted while the barge is operating. • In addition, the Contractor should still maintain good site practices, such as turn off unnecessary lighting and adjust the angle of lighting to reduce light nuisance to public. • The Contractor is recommended to conduct regular maintenance for all Powered Mechanical Equipment to prevent dark smoke emission.	Closed

Contract No. ED/2018/04
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

Reporting Month: July 2025

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N14	Portion T1, Q	19 January 2025	Kwun Tong District Council Secretariat received a complaint from a resident of Yau Tong Estate regarding noise nuisance caused by the construction works at Yau Tong area on 19 January 2025. The complainant stated that noise nuisance was occurred during daytime on Sunday.	Noise	• No construction activities were conducted in the complaint period (public holiday). The location of the complainant (Yau Tong Estate) is located approximately 720 meters away from Portion T1/Q. • The weekly noise monitoring has verified that the noise levels remain within the set limits. • The contractor has taken steps to address noise concerns by implementing noise control measures such as conducting regular noise monitoring. • 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. • The Contractor is recommended to strictly follow the conditions and requirements of the valid NMP/CNP and ensure the construction activities being taken were complied with the relevant NMP/CNP.	Closed

APPENDIX N
SUMMARY OF EXCEEDANCE

Appendix N – Summary of Exceedance

Reporting Period: July 2025

(A) Exceedance Report for Air Quality

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

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

(B) Exceedance Report for Construction Noise

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

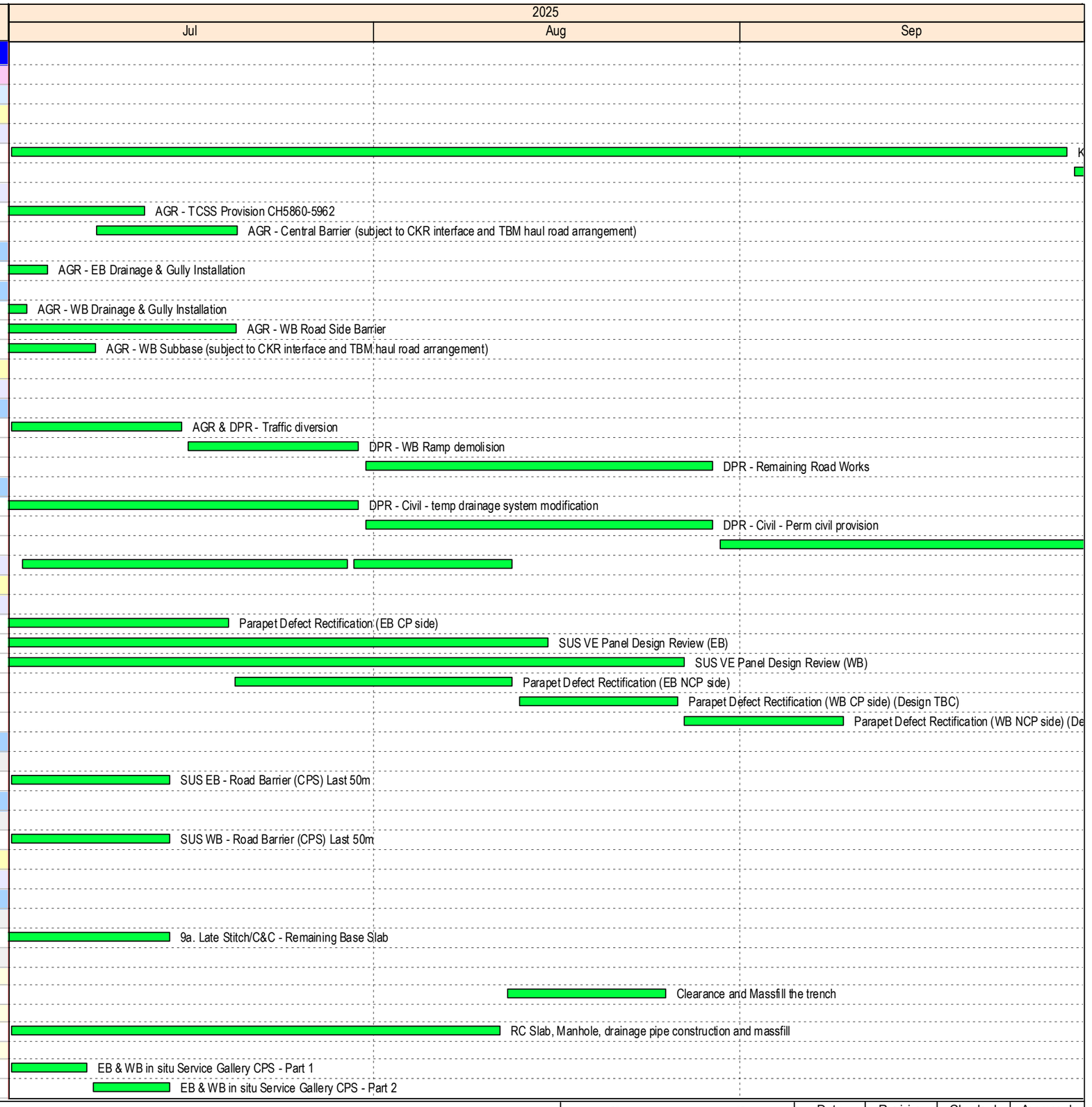
No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

APPENDIX O
TENTATIVE CONSTRUCTION PROGRAMME

Activity ID	Activity Name	Dur	Start	Finish
HKT2 Pre-P80 Programme DD 01Jul25		761	20-Nov-23 A	20-Dec-25
Construction		761	20-Nov-23 A	20-Dec-25
Trunk Road T2		761	20-Nov-23 A	20-Dec-25
02 At-Grade Road - AGR		501	15-Jun-24 A	28-Oct-25
Kiosk		120	01-Jul-25	28-Oct-25
AGR1030	Kiosk - procurement, fabrication & delivery	90	01-Jul-25*	28-Sep-25
AGR1060	Kiosk - Civil	30	29-Sep-25	28-Oct-25
AGR - Road & Drainage works		400	15-Jun-24 A	20-Jul-25
AGR1021	AGR - TCSS Provision CH5860-5962	148	09-Jan-25 A	12-Jul-25
AGR1150	AGR - Central Barrier (subject to CKR interface and TBM haul roa	12	08-Jul-25	20-Jul-25
Eastbound		165	07-Dec-24 A	04-Jul-25
AGR1040	AGR - EB Drainage & Gully Installation	165	07-Dec-24 A	04-Jul-25
Westbound		400	15-Jun-24 A	20-Jul-25
AGR1020	AGR - WB Drainage & Gully Installation	310	15-Jun-24 A	02-Jul-25
AGR1050	AGR - WB Road Side Barrier	155	15-Feb-25 A	20-Jul-25
AGR1140	AGR - WB Subbase (subject to CKR interface and TBM haul road	98	06-Mar-25 A	08-Jul-25
03 Depressed Road - DPR		135	16-Jun-25 A	28-Oct-25
DPR - Road Works		135	16-Jun-25 A	28-Oct-25
Temporary Ramp for CKR Opening		60	01-Jul-25	29-Aug-25
A229450370	AGR & DPR - Traffic diversion	15	01-Jul-25	15-Jul-25
A229450510	DPR - WB Ramp demolision	15	16-Jul-25	30-Jul-25
A229450530	DPR - Remaining Road Works	30	31-Jul-25	29-Aug-25
Rising Main		135	16-Jun-25 A	28-Oct-25
A229450070	DPR - Civil - temp drainage system modification	45	16-Jun-25 A	30-Jul-25
A229450170	DPR - Civil - Perm civil provision	30	31-Jul-25	29-Aug-25
A229426391	DPR - E&M - Sump pit pumps and watermain installation	60	30-Aug-25	28-Oct-25
DPR - Final Works		36	02-Jul-25	12-Aug-25
05 Supporting Underground Structure - SUS		84	18-Jun-25 A	09-Sep-25
SUS - Tunnel Civil Works		84	18-Jun-25 A	09-Sep-25
A229450430	Parapet Defect Rectification (EB CP side)	32	18-Jun-25 A	19-Jul-25
A229450470	SUS VE Panel Design Review (EB)	47	30-Jun-25 A	15-Aug-25
A229450490	SUS VE Panel Design Review (WB)	58	30-Jun-25 A	27-Aug-25
A229450440	Parapet Defect Rectification (EB NCP side)	24	20-Jul-25	12-Aug-25
A229450450	Parapet Defect Rectification (WB CP side) (Design TBC)	14	13-Aug-25	26-Aug-25
A229450460	Parapet Defect Rectification (WB NCP side) (Design TBC)	14	27-Aug-25	09-Sep-25
Eastbound TCW		14	01-Jul-25	14-Jul-25
EB Road Barrier		14	01-Jul-25	14-Jul-25
SUS10060	SUS EB - Road Barrier (CPS) Last 50m	14	01-Jul-25	14-Jul-25
Westbound TCW		14	01-Jul-25	14-Jul-25
WB Road Barrier		14	01-Jul-25	14-Jul-25
SUS10210	SUS WB - Road Barrier (CPS) Last 50m	14	01-Jul-25	14-Jul-25
06 Launching Shaft & C&C Tunnel - LSCC		702	20-Nov-23 A	21-Oct-25
LSCC - Structure works		133	15-Apr-25 A	25-Aug-25
Launching Shaft		133	15-Apr-25 A	25-Aug-25
Late Stitch/C&C		91	15-Apr-25 A	14-Jul-25
LSCC10401	9a. Late Stitch/C&C - Remaining Base Slab	91	15-Apr-25 A	14-Jul-25
LS - Miscellaneous Structural Openings		56	01-Jul-25	25-Aug-25
01 Massfill at cable trench (subject to temporary cable relocation)		14	12-Aug-25	25-Aug-25
A229448630	Clearance and Massfill the trench	14	12-Aug-25	25-Aug-25
02 Road slab opening & Drainage works (subject to temporary cable relocation)		42	01-Jul-25	11-Aug-25
A229448640	RC Slab, Manhole, drainage pipe construction and massfill	42	01-Jul-25	11-Aug-25
04 In situ SG at LS/TSS connection (subject to temporary works to maintain tunn		31	01-Jul-25	31-Jul-25
A229448570	EB & WB in situ Service Gallery CPS - Part 1	7	01-Jul-25	07-Jul-25
A229448580	EB & WB in situ Service Gallery CPS - Part 2	7	08-Jul-25	14-Jul-25



◆ ◆ Milestones
Planned Bar
Actual Bar

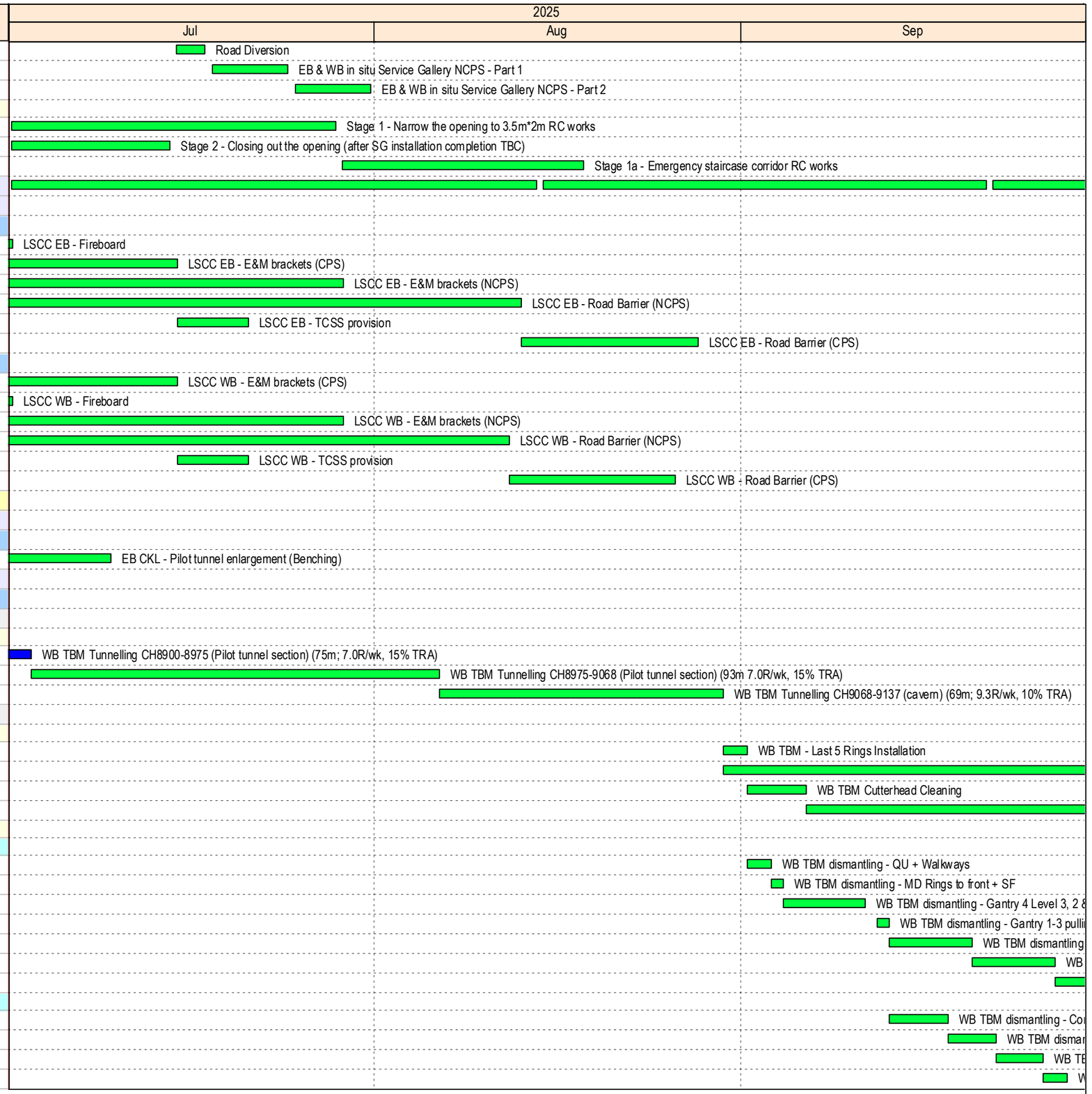
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
A229448581	Road Diversion	3	15-Jul-25	17-Jul-25
A229448590	EB & WB in situ Service Gallery NCPS - Part 1	7	18-Jul-25	24-Jul-25
A229448600	EB & WB in situ Service Gallery NCPS - Part 2	7	25-Jul-25	31-Jul-25
05 RC works at MIMEP Opening for Service Galleries Works (subject to BYME &		49	01-Jul-25	18-Aug-25
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Jul-25*	28-Jul-25
A229448660	Stage 2 - Closing out the opening (after SG installation completion	14	01-Jul-25*	14-Jul-25
A229449020	Stage 1a - Emergency staircase corridor RC works	21	29-Jul-25	18-Aug-25
LSCC - Backfilling & Dwall Dismantling		113	01-Jul-25	21-Oct-25
LSCC - Tunnel Civil Works		647	20-Nov-23 A	28-Aug-25
Eastbound TCW		647	20-Nov-23 A	28-Aug-25
LSCC10070	LSCC EB - Fireboard	589	20-Nov-23 A	01-Jul-25
LSCC10090	LSCC EB - E&M brackets (CPS)	312	06-Sep-24 A	15-Jul-25
LSCC10421	LSCC EB - E&M brackets (NCPS)	312	20-Sep-24 A	29-Jul-25
LSCC10050	LSCC EB - Road Barrier (NCPS)	61	13-Jun-25 A	13-Aug-25
LSCC10110	LSCC EB - TCSS provision	6	15-Jul-25	21-Jul-25
LSCC10431	LSCC EB - Road Barrier (CPS)	15	13-Aug-25*	28-Aug-25
Westbound TCW		409	13-Jul-24 A	26-Aug-25
LSCC10080	LSCC WB - E&M brackets (CPS)	367	13-Jul-24 A	15-Jul-25
LSCC10060	LSCC WB - Fireboard	255	19-Oct-24 A	01-Jul-25
LSCC10411	LSCC WB - E&M brackets (NCPS)	278	24-Oct-24 A	29-Jul-25
LSCC10441	LSCC WB - Road Barrier (NCPS)	74	30-May-25 A	12-Aug-25
LSCC10100	LSCC WB - TCSS provision	6	15-Jul-25	21-Jul-25
LSCC10451	LSCC WB - Road Barrier (CPS)	14	12-Aug-25	26-Aug-25
07 Tunnel Sub-sea (TSS)		711	26-Nov-23 A	05-Nov-25
Additional Excavation by D&Br from CKL		329	15-Aug-24 A	09-Jul-25
Eastbound Pilot Tunnel		329	15-Aug-24 A	09-Jul-25
CKL1130	EB CKL - Pilot tunnel enlargement (Benching)	329	15-Aug-24 A	09-Jul-25
TSS - TBM Excavation from Kai Tak		634	11-Feb-24 A	05-Nov-25
Westbound - TBM S1281		163	27-May-25 A	05-Nov-25
TBM1 Tunneling		96	27-May-25 A	30-Aug-25
CP26-31		96	27-May-25 A	30-Aug-25
A229450300	WB TBM Tunnelling CH8900-8975 (Pilot tunnel section) (75m; 7.0I	37	27-May-25 A	03-Jul-25 A
A229449564	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section) (93m 7.0F	35	03-Jul-25 A	06-Aug-25
A229449565	WB TBM Tunnelling CH9068-9137 (cavern) (69m; 9.3R/wk, 10% T	24	06-Aug-25	30-Aug-25
TBM1 Dismantling		67	30-Aug-25	05-Nov-25
General		67	30-Aug-25	05-Nov-25
TA525	WB TBM - Last 5 Rings Installation	2	30-Aug-25	01-Sep-25
TA85	WB TBM dismantling - TSS side	67	30-Aug-25	05-Nov-25
TA70	WB TBM Cutterhead Cleaning	5	01-Sep-25	06-Sep-25
TA325	WB TBM dismantling - CKL side	60	06-Sep-25	05-Nov-25
TSS side		34	01-Sep-25	05-Oct-25
Gantries		33	01-Sep-25	04-Oct-25
TA526	WB TBM dismantling - QU + Walkways	2	01-Sep-25	03-Sep-25
TA536	WB TBM dismantling - MD Rings to front + SF	1	03-Sep-25	04-Sep-25
TA135	WB TBM dismantling - Gantry 4 Level 3, 2 & 1 dismantling	7	04-Sep-25	11-Sep-25
TA115	WB TBM dismantling - Gantry 1-3 pulling (free up 1st 50m)	1	12-Sep-25	13-Sep-25
TA275	WB TBM dismantling - Gantry 1-3 Level 3 Dismantling	7	13-Sep-25	20-Sep-25
TA921	WB TBM dismantling - Gantry 1-3 Level 2 Dismantling	7	20-Sep-25	27-Sep-25
TA931	WB TBM dismantling - Gantry 1-3 Level 1 Dismantling	7	27-Sep-25	04-Oct-25
Erector, Cross Beam, MD		22	13-Sep-25	05-Oct-25
TA185	WB TBM dismantling - Concreting	5	13-Sep-25	18-Sep-25
TA195	WB TBM dismantling - Rail Installation	4	18-Sep-25	22-Sep-25
TA205	WB TBM dismantling - Erector Support installation + pulling	4	22-Sep-25	26-Sep-25
TA225	WB TBM dismantling - Cross Beam Extraction	2	26-Sep-25	28-Sep-25



◆ Milestones
Planned Bar
Actual Bar

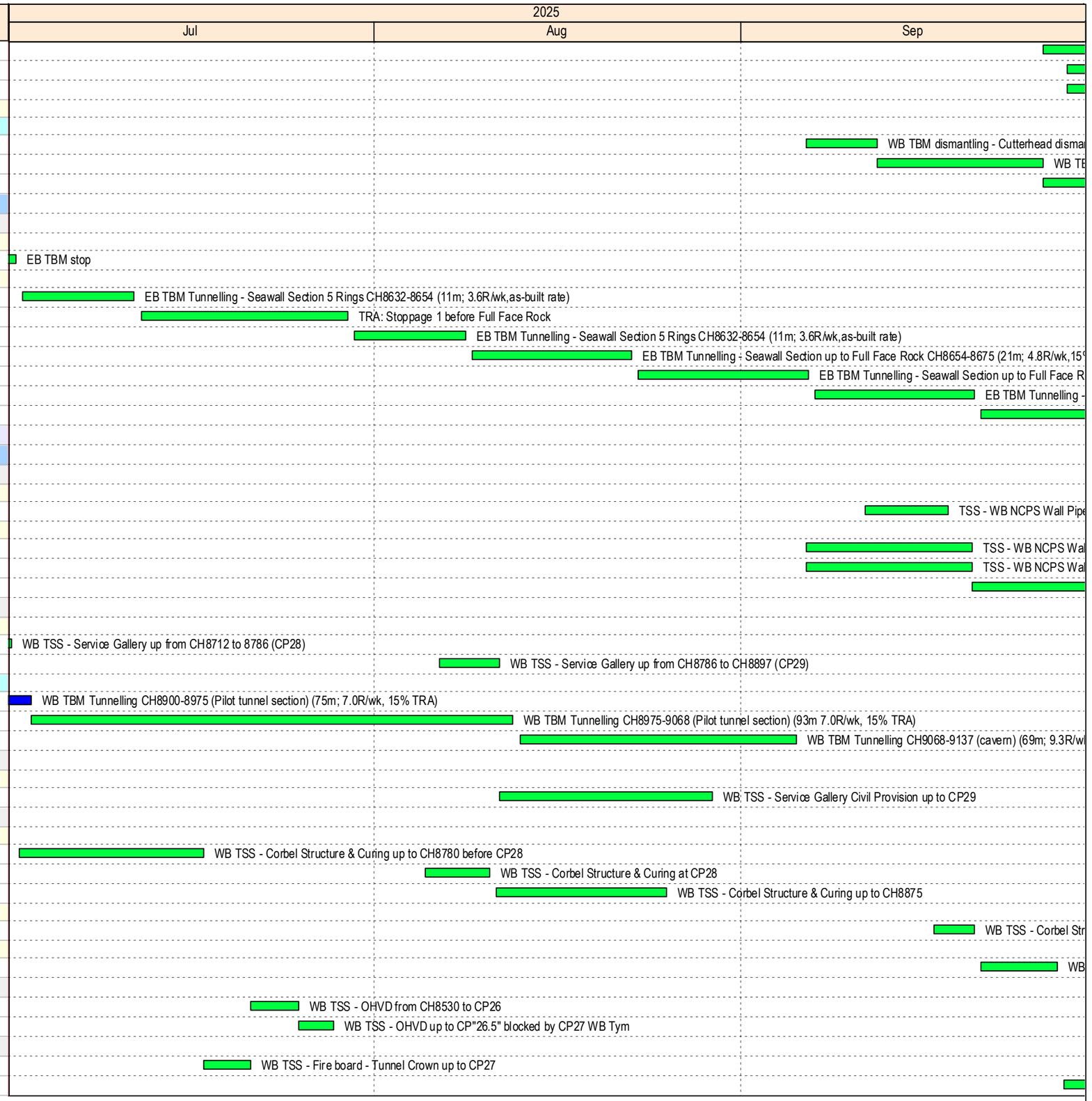
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
TA216	WB TBM dismantling - Erector dismantling	7	26-Sep-25	03-Oct-25
TA245	WB TBM dismantling - MD Extraction	2	28-Sep-25	30-Sep-25
TA236	WB TBM dismantling - Cross Beam Wire Cutting	7	28-Sep-25	05-Oct-25
CKL Side		24	06-Sep-25	30-Sep-25
Cutterhead, Bearing, Shield		24	06-Sep-25	30-Sep-25
TA90	WB TBM dismantling - Cutterhead dismantling Part 1 + Rotation	6	06-Sep-25	12-Sep-25
TA901	WB TBM dismantling - Cutterhead dismantling Part 2	14	12-Sep-25	26-Sep-25
TA91	WB TBM dismantling - Shield Cutting (before MD removal)	4	26-Sep-25	30-Sep-25
Eastbound - TBM S1282		604	11-Feb-24 A	06-Oct-25
TBM2 Tunneling		604	11-Feb-24 A	06-Oct-25
CP21-26		507	11-Feb-24 A	01-Jul-25
EBTBM1250	EB TBM stop	507	11-Feb-24 A	01-Jul-25
CP26-30		97	02-Jul-25	06-Oct-25
EBTBM1350	EB TBM Tunnelling - Seawall Section 5 Rings CH8632-8654 (11m	10	02-Jul-25	11-Jul-25
EBTBM1300	TRA: Stoppage 1 before Full Face Rock	18	12-Jul-25	29-Jul-25
EBTBM1360	EB TBM Tunnelling - Seawall Section 5 Rings CH8632-8654 (11m	10	30-Jul-25	08-Aug-25
EBTBM1260	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH865	14	09-Aug-25	22-Aug-25
EBTBM1530	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH867	15	23-Aug-25	06-Sep-25
EBTBM1270	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH869	14	07-Sep-25	20-Sep-25
EBTBM1280	EB TBM Tunnelling CH8718-8748 up to start of Pilot Tunnel (30m;	16	21-Sep-25	06-Oct-25
TSS - Tunnel Civil Works		685	26-Nov-23 A	11-Oct-25
Westbound (WB)		321	24-Nov-24 A	11-Oct-25
WB TSS - TBM Temporary Services		28	06-Sep-25	04-Oct-25
TBM slurry pipe relocation		7	11-Sep-25	18-Sep-25
A229447540	TSS - WB NCPS Wall Pipe Relocation from CP23 to CP24	7	11-Sep-25	18-Sep-25
TBM slurry pipe dismantling		28	06-Sep-25	04-Oct-25
A229447590	TSS - WB NCPS Wall Pipe Dismantling from CP25 to CP29	14	06-Sep-25	20-Sep-25
A229447610	TSS - WB NCPS Wall Pipe Dismantling from FT to CP11	14	06-Sep-25	20-Sep-25
A229447620	TSS - WB NCPS Wall Pipe Dismantling from CP11 to CP16	14	20-Sep-25	04-Oct-25
WB TSS - Service Gallery		103	26-May-25 A	05-Sep-25
CP26-31		103	26-May-25 A	05-Sep-25
A229446380	WB TSS - Service Gallery up from CH8712 to 8786 (CP28)	36	26-May-25 A	01-Jul-25
TC3010	WB TSS - Service Gallery up from CH8786 to CH8897 (CP29)	5	06-Aug-25	11-Aug-25
Same Rate as TBM Excavation (Last SG 170m behind TBM CH)		102	27-May-25 A	05-Sep-25
A229450330	WB TBM Tunnelling CH8900-8975 (Pilot tunnel section) (75m; 7.0I	37	27-May-25 A	03-Jul-25 A
A229450340	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section) (93m 7.0F	41	03-Jul-25 A	12-Aug-25
A229450350	WB TBM Tunnelling CH9068-9137 (cavern) (69m; 9.3R/wk, 10% T	24	13-Aug-25	05-Sep-25
WB TSS - Below Road Level Installation		18	11-Aug-25	29-Aug-25
Service Gallery Civil Provision		18	11-Aug-25	29-Aug-25
TC1100	WB TSS - Service Gallery Civil Provision up to CP29	18	11-Aug-25	29-Aug-25
WB TSS - Corbel		88	02-Jul-25 A	27-Sep-25
CP21-26		55	02-Jul-25 A	25-Aug-25
A229450520	WB TSS - Corbel Structure & Curing up to CH8780 before CP28	16	02-Jul-25 A	17-Jul-25
A229424160	WB TSS - Corbel Structure & Curing at CP28	6	05-Aug-25	10-Aug-25
TC11200	WB TSS - Corbel Structure & Curing up to CH8875	15	11-Aug-25	25-Aug-25
CP26-31		4	17-Sep-25	20-Sep-25
TC1930	WB TSS - Corbel Structure up to CP29 (25m)	4	17-Sep-25	20-Sep-25
Concrete curing time before ISSG arrival		7	21-Sep-25	27-Sep-25
TC1330	WB TSS - Corbel Structure up to CP29 (concrete curing)	7	21-Sep-25	27-Sep-25
WB TSS - OHVD		7	21-Jul-25	28-Jul-25
TC11470	WB TSS - OHVD from CH8530 to CP26	4	21-Jul-25	25-Jul-25
TC11400	WB TSS - OHVD up to CP"26.5" blocked by CP27 WB Tym	3	25-Jul-25	28-Jul-25
WB TSS - Fire Board - Tunnel Crown with deletion up Ch8924		80	17-Jul-25	05-Oct-25
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	4	17-Jul-25	21-Jul-25
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	28-Sep-25	05-Oct-25



◆ ◆ Milestones
Planned Bar
Actual Bar

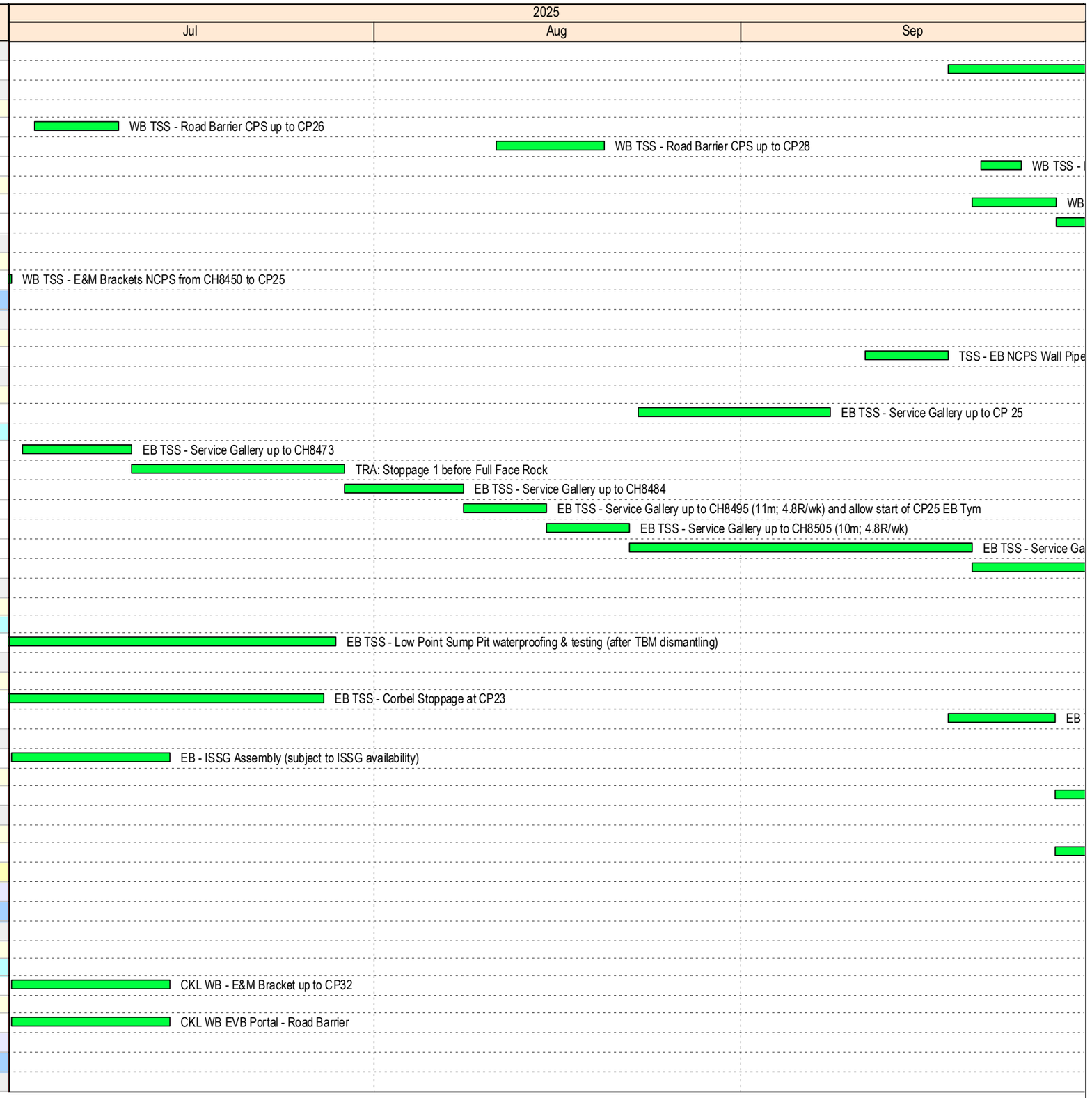
ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
WB TSS - Fire Board - Road level with deletion up Ch8924		14	18-Sep-25	02-Oct-25
A229446460	WB TSS - Fire Board - Road level up to CP24	14	18-Sep-25	02-Oct-25
WB TSS - Road Barrier		100	03-Jul-25	11-Oct-25
CPS		84	03-Jul-25	24-Sep-25
A229447850	WB TSS - Road Barrier CPS up to CP26	6	03-Jul-25	10-Jul-25
A229447650	WB TSS - Road Barrier CPS up to CP28	6	11-Aug-25	20-Aug-25
TC1040	WB TSS - Road Barrier CPS up to CP29	4	21-Sep-25	24-Sep-25
NCPS		13	20-Sep-25	11-Oct-25
A229446430	WB TSS - Road Barrier NCPS up to CP26	6	20-Sep-25	27-Sep-25
A229446420	WB TSS - Road Barrier NCPS up to CP27	6	27-Sep-25	11-Oct-25
WB TSS - E&M Brackets		219	24-Nov-24 A	01-Jul-25
NCPS		219	24-Nov-24 A	01-Jul-25
TC11460	WB TSS - E&M Brackets NCPS from CH8450 to CP25	219	24-Nov-24 A	01-Jul-25
Eastbound (EB)		681	26-Nov-23 A	06-Oct-25
EB TSS - TBM Temporary Services		7	11-Sep-25	18-Sep-25
TBM slurry pipe relocation		7	11-Sep-25	18-Sep-25
A229447680	TSS - EB NCPS Wall Pipe Relocation from CP23 to CP24	7	11-Sep-25	18-Sep-25
EB TSS - Service Gallery		97	02-Jul-25	06-Oct-25
CP21-26		97	02-Jul-25	06-Oct-25
A229428552	EB TSS - Service Gallery up to CP 25	13	23-Aug-25	08-Sep-25
Same Rate as TBM Excavation (Last SG 170m behind TBM CH)		97	02-Jul-25	06-Oct-25
EBTBM1380	EB TSS - Service Gallery up to CH8473	10	02-Jul-25	11-Jul-25
EBTBM1390	TRA: Stoppage 1 before Full Face Rock	18	11-Jul-25	29-Jul-25
EBTBM1400	EB TSS - Service Gallery up to CH8484	10	29-Jul-25	08-Aug-25
EBTBM1410	EB TSS - Service Gallery up to CH8495 (11m; 4.8R/wk) and allow	7	08-Aug-25	15-Aug-25
EBTBM1500	EB TSS - Service Gallery up to CH8505 (10m; 4.8R/wk)	7	15-Aug-25	22-Aug-25
EBTBM1430	EB TSS - Service Gallery up to CH8548 (43m; 4.8R/wk)	29	22-Aug-25	20-Sep-25
EBTBM1440	EB TSS - Service Gallery up to CH8578	16	20-Sep-25	06-Oct-25
EB TSS - Below Road Level Installation		162	17-Feb-25 A	28-Jul-25
Low Point Sump Pit		162	17-Feb-25 A	28-Jul-25
Low Point @ CP12		162	17-Feb-25 A	28-Jul-25
TC11330	EB TSS - Low Point Sump Pit waterproofing & testing (after TBM c	162	17-Feb-25 A	28-Jul-25
EB TSS - Corbel		672	26-Nov-23 A	27-Sep-25
CP21-26		672	26-Nov-23 A	27-Sep-25
A229415982	EB TSS - Corbel Stoppage at CP23	610	26-Nov-23 A	27-Jul-25
A229415952	EB TSS - Corbel Structure up to CP24	8	18-Sep-25	27-Sep-25
EB TSS - OHVD		93	01-Jul-25	01-Oct-25
TC305	EB - ISSG Assembly (subject to ISSG availability)	14	01-Jul-25*	14-Jul-25
CP21-26		4	27-Sep-25	01-Oct-25
TC320	EB TSS - OHVD up to CP24	4	27-Sep-25	01-Oct-25
EB TSS - Road Barrier		8	27-Sep-25	05-Oct-25
NCPS		8	27-Sep-25	05-Oct-25
TC10160	EB TSS - Road Barrier NCPS up to CP24	8	27-Sep-25	05-Oct-25
08 CKL Tunnel		305	25-Nov-24 A	25-Sep-25
Westbound (WB)		14	01-Jul-25	14-Jul-25
WB CKL - Before TBM breakthough		14	01-Jul-25	14-Jul-25
Westbound (WB) Civil Works		14	01-Jul-25	14-Jul-25
WB Type A		14	01-Jul-25	14-Jul-25
E&M Brackets		14	01-Jul-25	14-Jul-25
A229450100	CKL WB - E&M Bracket up to CP32	14	01-Jul-25	14-Jul-25
WB EVB Portal		14	01-Jul-25	14-Jul-25
A229450180	CKL WB EVB Portal - Road Barrier	14	01-Jul-25	14-Jul-25
Eastbound (EB)		305	25-Nov-24 A	25-Sep-25
EB CKL - Before TBM breakthough		305	25-Nov-24 A	25-Sep-25
Eastbound (EB) Structure Works		254	25-Nov-24 A	05-Aug-25



◆ ◆ Milestones
Planned Bar
Actual Bar

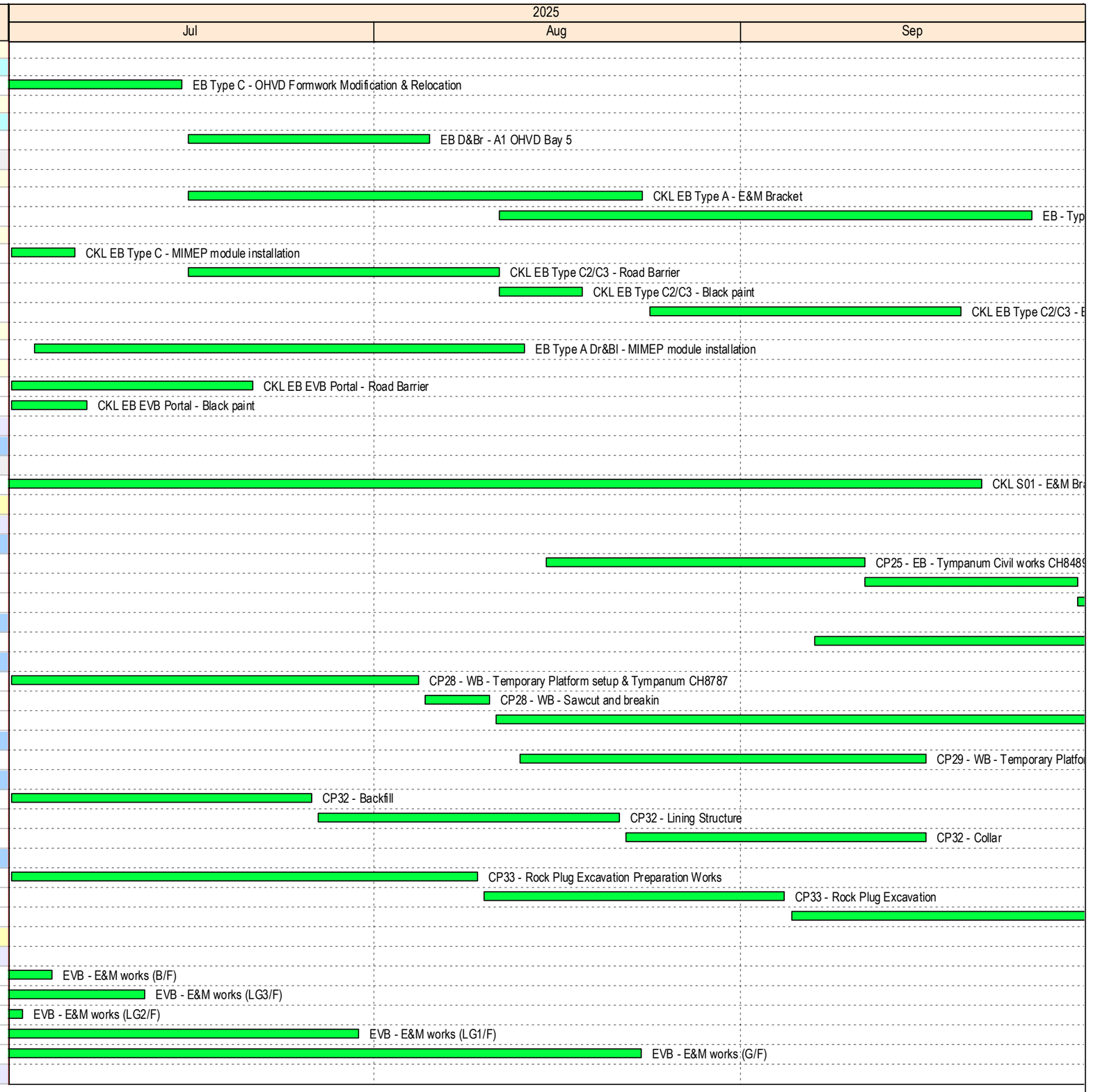
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
EB Type C		186	25-Nov-24 A	15-Jul-25
OHVD		186	25-Nov-24 A	15-Jul-25
A2050	EB Type C - OHVD Formwork Modification & Relocation	186	25-Nov-24 A	15-Jul-25
EB Type A D&Br		21	16-Jul-25	05-Aug-25
OHVD		21	16-Jul-25	05-Aug-25
A1800	EB D&Br - A1 OHVD Bay 5	21	16-Jul-25	05-Aug-25
Eastbound (EB) Civil Works		87	01-Jul-25	25-Sep-25
EB Type A		72	16-Jul-25	25-Sep-25
A8980	CKL EB Type A - E&M Bracket	39	16-Jul-25	23-Aug-25
A229444530	EB - Type A - Road Barrier	36	11-Aug-25	25-Sep-25
EB Type C		81	01-Jul-25	19-Sep-25
A229450140	CKL EB Type C - MIMEP module installation	6	01-Jul-25	06-Jul-25
A229444520	CKL EB Type C2/C3 - Road Barrier	27	16-Jul-25	11-Aug-25
A229450120	CKL EB Type C2/C3 - Black paint	7	11-Aug-25	18-Aug-25
A229450110	CKL EB Type C2/C3 - E&M Bracket	27	24-Aug-25	19-Sep-25
EB Type A D&Br		36	03-Jul-25	13-Aug-25
A229444700	EB Type A Dr&Bl - MIMEP module installation	36	03-Jul-25	13-Aug-25
EB EVB Portal		21	01-Jul-25	21-Jul-25
A229450150	CKL EB EVB Portal - Road Barrier	21	01-Jul-25	21-Jul-25
A229450160	CKL EB EVB Portal - Black paint	7	01-Jul-25	07-Jul-25
Branch Tunnel (S01)		223	10-Feb-25 A	21-Sep-25
Branch Tunnel (S01) Civil Works		223	10-Feb-25 A	21-Sep-25
E&M Brackets		223	10-Feb-25 A	21-Sep-25
A229450130	CKL S01 - E&M Bracket	223	10-Feb-25 A	21-Sep-25
09 Cross Passages		151	01-Jul-25	28-Nov-25
Cross Passages @ TSS & CKL Tunnel (CP7 to CP33)		151	01-Jul-25	28-Nov-25
CP25 by Mini TBM		105	15-Aug-25	28-Nov-25
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	15-Aug-25	11-Sep-25
A7950	CP25 - CP TBM cycle	18	11-Sep-25	29-Sep-25
A8260	CP25 - Internal & Collar Structure & ABWF	60	29-Sep-25	28-Nov-25
CP27 by Mini TBM		27	07-Sep-25	03-Oct-25
TD0310	CP27 - WB - Tympanum Civil works CH8688 R0936W	27	07-Sep-25	03-Oct-25
CP28 by D&Br		129	01-Jul-25	06-Nov-25
TD1000	CP28 - WB - Temporary Platform setup & Tympanum CH8787	35	01-Jul-25	04-Aug-25
TD1030	CP28 - WB - Sawcut and breakin	6	05-Aug-25	10-Aug-25
TD1250	CP28 - Advance excavation from WB (15m Length; 0.17m/d)	88	11-Aug-25	06-Nov-25
CP29 by D&Br		35	13-Aug-25	16-Sep-25
TD1310	CP29 - WB - Temporary Platform setup & Tympanum	35	13-Aug-25	16-Sep-25
CP32 by D&Bl		78	01-Jul-25	16-Sep-25
A229438446	CP32 - Backfill	26	01-Jul-25	26-Jul-25
A229438436	CP32 - Lining Structure	26	27-Jul-25	21-Aug-25
A229422590	CP32 - Collar	26	22-Aug-25	16-Sep-25
CP33 by D&Bl		133	01-Jul-25	10-Nov-25
A1900	CP33 - Rock Plug Excavation Preparation Works	40	01-Jul-25	09-Aug-25
A1710	CP33 - Rock Plug Excavation	26	10-Aug-25	04-Sep-25
A1720	CP33 - CP33/Type E Junction	67	05-Sep-25	10-Nov-25
10 East Ventilation Building - EVB		622	15-Mar-24 A	26-Nov-25
E&M Works (by BYME)		427	15-Mar-24 A	23-Aug-25
EVB1210	EVB - E&M works (B/F)	384	15-Mar-24 A	04-Jul-25
EVB1300	EVB - E&M works (LG3/F)	359	26-Apr-24 A	12-Jul-25
EVB1360	EVB - E&M works (LG2/F)	330	21-May-24 A	02-Jul-25
EVB1440	EVB - E&M works (LG1/F)	314	10-Jul-24 A	30-Jul-25
EVB1500	EVB - E&M works (G/F)	311	07-Aug-24 A	23-Aug-25
EVB Remaining Works (TBC)		209	02-May-25 A	26-Nov-25



◆ ◆ Milestones
Planned Bar
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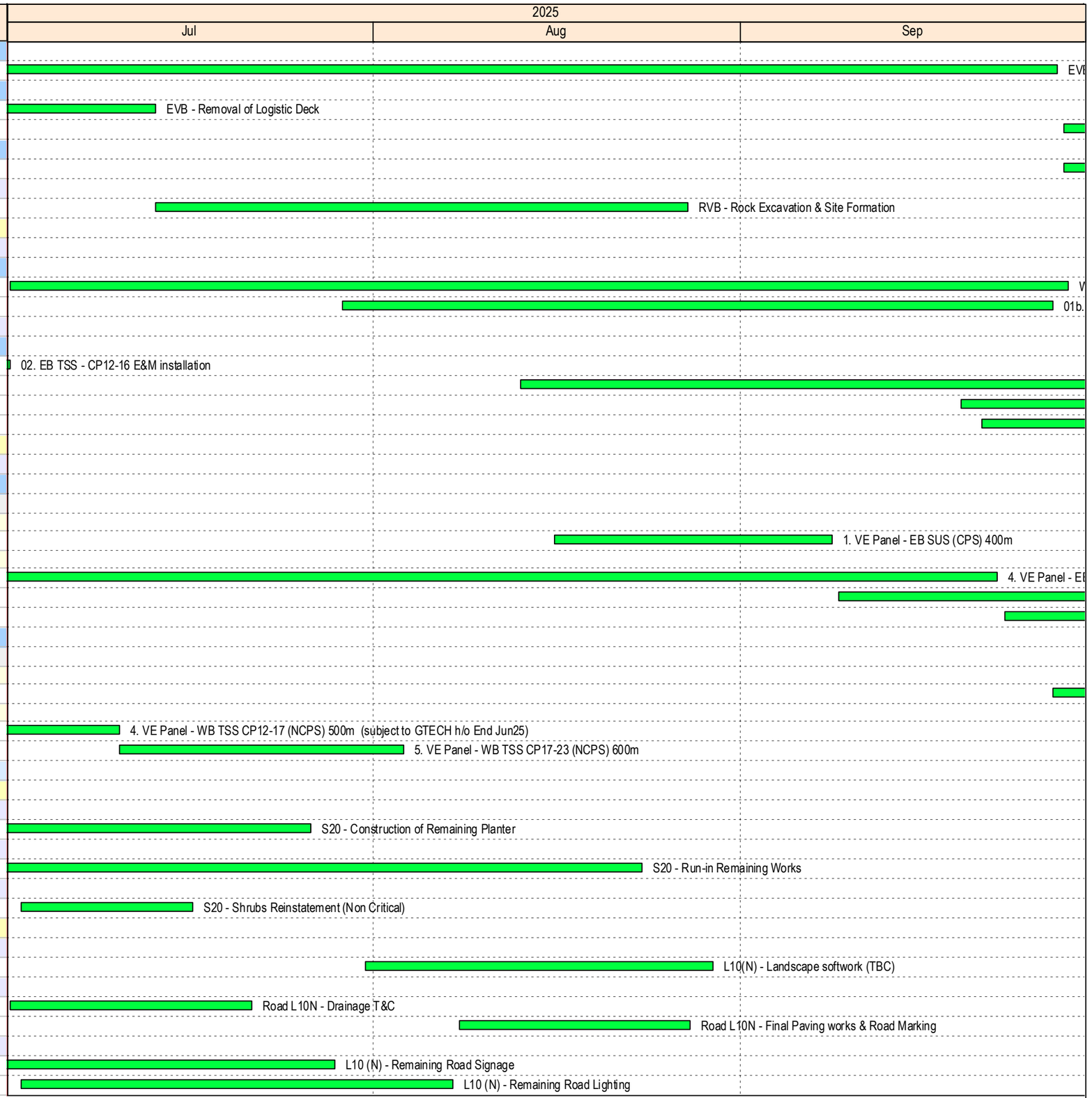
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
Facade works		107	13-Jun-25 A	27-Sep-25
EVB1606	EVB - Aluminium Fins Installation	107	13-Jun-25 A	27-Sep-25
Logistic Deck & Tower Crane Removal		164	02-May-25 A	12-Oct-25
EVB1620	EVB - Removal of Logistic Deck	73	02-May-25 A	13-Jul-25
EVB1621	EVB - Tower Crane TC2 Removal TC2	15	28-Sep-25	12-Oct-25
Landscape works		60	28-Sep-25	26-Nov-25
EVB1650	EVB - Landscape - Above G/F	60	28-Sep-25	26-Nov-25
VO - Recovery Vehicle Base (RVB) Construction		45	13-Jul-25	27-Aug-25
EVB1810	RVB - Rock Excavation & Site Formation	45	13-Jul-25	27-Aug-25
11 Tunnel E&M Installation		233	01-May-25 A	20-Dec-25
WB - E&M Works		90	01-Jul-25	28-Sep-25
WB - LV Cabling & LV Power On		90	01-Jul-25	28-Sep-25
TF170	WB CKL - CP32-EVB Portal E&M installation	90	01-Jul-25*	28-Sep-25
E&MC1180	01b. WB SUS CP1 to CP12 - E&M Installation (Final Stage)	60	29-Jul-25	27-Sep-25
EB - E&M Works		233	01-May-25 A	20-Dec-25
EB - LV Cabling & LV Power On		233	01-May-25 A	20-Dec-25
E&MC1080	02. EB TSS - CP12-16 E&M installation	61	01-May-25 A	01-Jul-25
E&MC1150	01b. EB SUS to TSS CP12 - E&M Installation (Final Stage)	60	13-Aug-25	12-Oct-25
E&MC1130	11. EB CKL - CP31 to EVB Portal - E&M installation	90	19-Sep-25	18-Dec-25
E&MC1140	12. EB CKL - BT & S01 - E&M installation	90	21-Sep-25	20-Dec-25
14 Projectwide Final Works		261	29-Jan-25 A	16-Oct-25
Tunnel Cladding		261	29-Jan-25 A	16-Oct-25
Eastbound		261	29-Jan-25 A	16-Oct-25
Typical Subframe & Cladding		261	29-Jan-25 A	16-Oct-25
EB CPS		24	16-Aug-25	08-Sep-25
VE10220	1. VE Panel - EB SUS (CPS) 400m	24	16-Aug-25	08-Sep-25
EB NCPS		261	29-Jan-25 A	16-Oct-25
VE10601	4. VE Panel - EB TSS CP12-17 (NCPS) 500m	237	29-Jan-25 A	22-Sep-25
VE10571	1. VE Panel - EB SUS (NCPS) 400m	24	09-Sep-25	02-Oct-25
VE10611	5. VE Panel - EB TSS CP17-21 (NCPS) 400m	24	23-Sep-25	16-Oct-25
Westbound		234	15-Feb-25 A	07-Oct-25
Typical Subframe & Cladding		234	15-Feb-25 A	07-Oct-25
WB CPS		10	27-Sep-25	07-Oct-25
VE10022	2. VE Panel - WB LSCC to CP7 (CPS) 150m	10	27-Sep-25	07-Oct-25
WB NCPS		170	15-Feb-25 A	03-Aug-25
VE10701	4. VE Panel - WB TSS CP12-17 (NCPS) 500m (subject to GTECH	146	15-Feb-25 A	10-Jul-25
VE10731	5. VE Panel - WB TSS CP17-23 (NCPS) 600m	24	10-Jul-25*	03-Aug-25
Infrastructure Works		276	07-Jan-25 A	10-Oct-25
06 Road S20		107	31-Mar-25 A	23-Aug-25
Addition of Planter (Non Critical)		85	31-Mar-25 A	26-Jul-25
A1140	S20 - Construction of Remaining Planter	85	31-Mar-25 A	26-Jul-25
Run-in Remaining Works		83	08-May-25 A	23-Aug-25
A1100	S20 - Run-in Remaining Works	83	08-May-25 A	23-Aug-25
VO - Modification of Irrigation System at Charging Station Run-in		12	02-Jul-25	16-Jul-25
A1070	S20 - Shrubs Reinstatement (Non Critical)	12	02-Jul-25	16-Jul-25
07 Road L10(N)		182	01-Mar-25 A	29-Aug-25
L10(N) Landscape (KD-26)		26	31-Jul-25	29-Aug-25
LN10110	L10(N) - Landscape softwork (TBC)	26	31-Jul-25	29-Aug-25
L10(N) Remaining works		58	01-Jul-25	27-Aug-25
LN10100	Road L10N - Drainage T&C	21	01-Jul-25	21-Jul-25
LN10150	Road L10N - Final Paving works & Road Marking	20	08-Aug-25	27-Aug-25
L10 (N) Remaining Road Works (Subject to Manpower)		121	01-Mar-25 A	07-Aug-25
A229450270	L10 (N) - Remaining Road Signage	112	01-Mar-25 A	28-Jul-25
A229450280	L10 (N) - Remaining Road Lighting	30	02-Jul-25	07-Aug-25



◆ Milestones
Planned Bar
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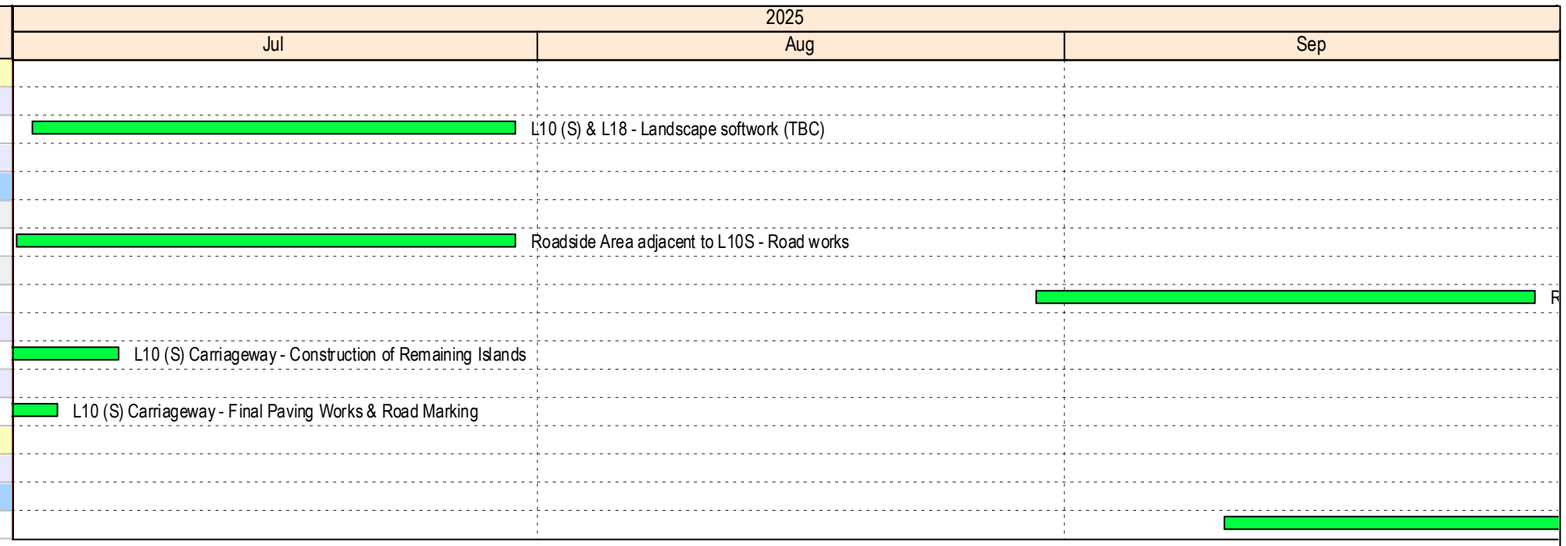
ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
08 Road L10(S) & L18		265	07-Jan-25 A	28-Sep-25
L10(S) & L18 Landscape (KD-24)		25	02-Jul-25	30-Jul-25
A229445710	L10 (S) & L18 - Landscape softwork (TBC)	25	02-Jul-25*	30-Jul-25
L10(S) & L18 Remaining works		90	01-Jul-25	28-Sep-25
Roadside Area adjacent to L10(S)		90	01-Jul-25	28-Sep-25
Roadworks		30	01-Jul-25	30-Jul-25
A229448810	Roadside Area adjacent to L10S - Road works	30	01-Jul-25*	30-Jul-25
Landscape		30	30-Aug-25	28-Sep-25
A229448820	Roadside Area adjacent to L10S - Landscape (TBC)	30	30-Aug-25	28-Sep-25
Miscellaneous Road Works		137	07-Jan-25 A	07-Jul-25
A1190	L10 (S) Carriageway - Construction of Remaining Islands	137	07-Jan-25 A	07-Jul-25
Preparation for Road Opening (L10S)		51	26-Apr-25 A	03-Jul-25
A229450210	L10 (S) Carriageway - Final Paving Works & Road Marking	51	26-Apr-25 A	03-Jul-25
10 Lam Chak Street / Kai Hing Road Modification		30	10-Sep-25	10-Oct-25
LCS/KHR Modification (KD-19)		30	10-Sep-25	10-Oct-25
VO -Additional Raod Lighting at Stage 1 Area		30	10-Sep-25	10-Oct-25
A229450080	VO - Additional Road Lighting installation	30	10-Sep-25	10-Oct-25



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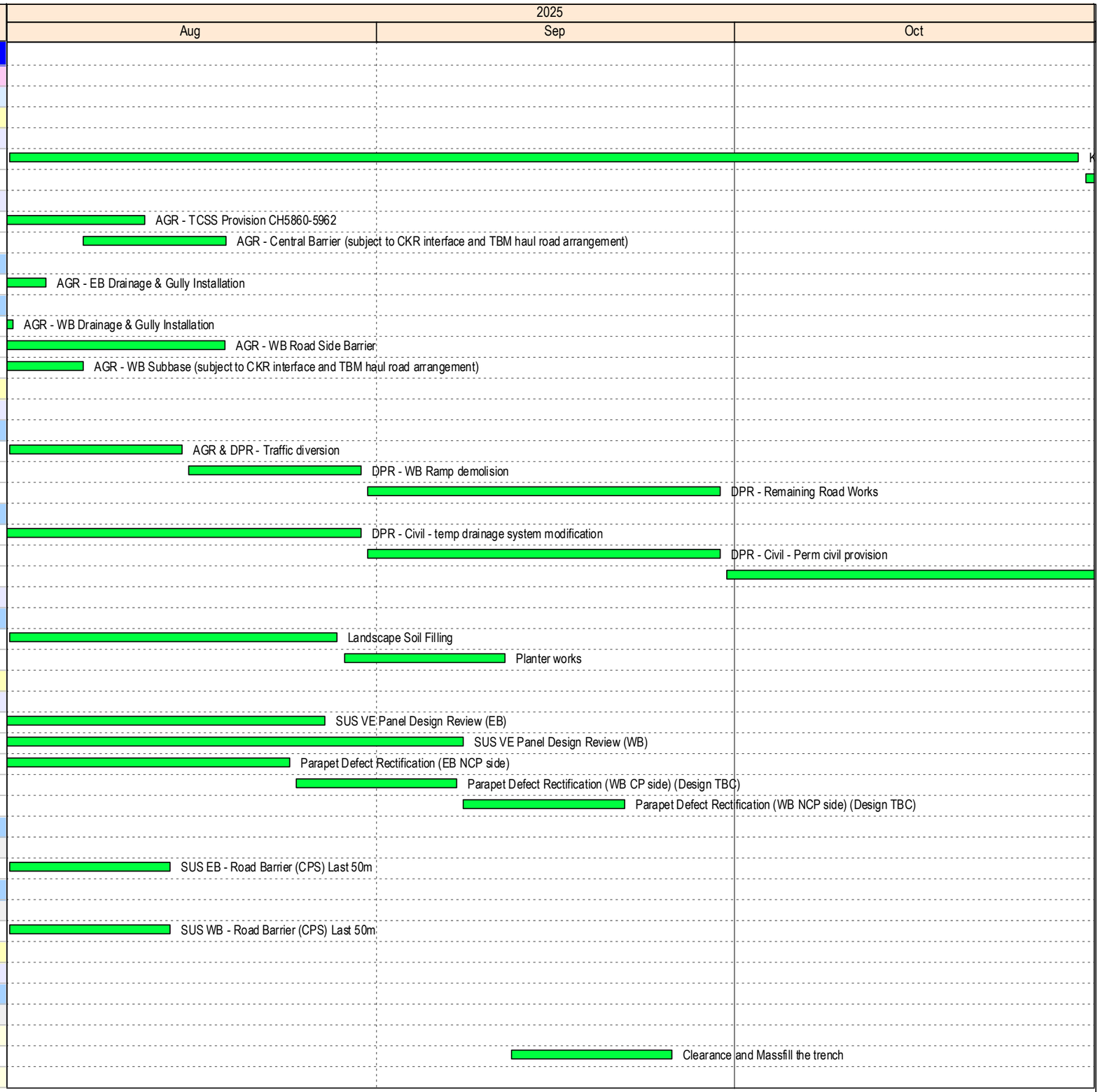
ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron

Three Months Rolling Programme (Jul25-Sep25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
HKT2 Pre-P80 Programme DD 01Aug25		796	20-Nov-23 A	23-Jan-26
Construction		796	20-Nov-23 A	23-Jan-26
Trunk Road T2		796	20-Nov-23 A	23-Jan-26
02 At-Grade Road - AGR		532	15-Jun-24 A	28-Nov-25
Kiosk		120	01-Aug-25	28-Nov-25
AGR1030	Kiosk - procurement, fabrication & delivery	90	01-Aug-25*	29-Oct-25
AGR1060	Kiosk - Civil	30	30-Oct-25	28-Nov-25
AGR - Road & Drainage works		430	15-Jun-24 A	19-Aug-25
AGR1021	AGR - TCSS Provision CH5860-5962	174	09-Jan-25 A	12-Aug-25
AGR1150	AGR - Central Barrier (subject to CKR interface and TBM haul roa	12	07-Aug-25	19-Aug-25
Eastbound		191	07-Dec-24 A	04-Aug-25
AGR1040	AGR - EB Drainage & Gully Installation	191	07-Dec-24 A	04-Aug-25
Westbound		430	15-Jun-24 A	19-Aug-25
AGR1020	AGR - WB Drainage & Gully Installation	336	15-Jun-24 A	01-Aug-25
AGR1050	AGR - WB Road Side Barrier	185	15-Feb-25 A	19-Aug-25
AGR1140	AGR - WB Subbase (subject to CKR interface and TBM haul road	124	06-Mar-25 A	07-Aug-25
03 Depressed Road - DPR		166	16-Jun-25 A	28-Nov-25
DPR - Road Works		166	16-Jun-25 A	28-Nov-25
Temporary Ramp for CKR Opening		60	01-Aug-25	29-Sep-25
A229450370	AGR & DPR - Traffic diversion	15	01-Aug-25	15-Aug-25
A229450510	DPR - WB Ramp demolision	15	16-Aug-25	30-Aug-25
A229450530	DPR - Remaining Road Works	30	31-Aug-25	29-Sep-25
Rising Main		166	16-Jun-25 A	28-Nov-25
A229450070	DPR - Civil - temp drainage system modification	76	16-Jun-25 A	30-Aug-25
A229450170	DPR - Civil - Perm civil provision	30	31-Aug-25	29-Sep-25
A229426391	DPR - E&M - Sump pit pumps and watermain installation	60	30-Sep-25	28-Nov-25
DPR - Final Works		36	01-Aug-25	11-Sep-25
Landscape work (TBC)		36	01-Aug-25	11-Sep-25
A12991	Landscape Soil Filling	24	01-Aug-25	28-Aug-25
A12992	Planter works	12	29-Aug-25	11-Sep-25
05 Supporting Underground Structure - SUS		84	30-Jun-25 A	21-Sep-25
SUS - Tunnel Civil Works		84	30-Jun-25 A	21-Sep-25
A229450470	SUS VE Panel Design Review (EB)	59	30-Jun-25 A	27-Aug-25
A229450490	SUS VE Panel Design Review (WB)	70	30-Jun-25 A	08-Sep-25
A229450440	Parapet Defect Rectification (EB NCP side)	27	29-Jul-25 A	24-Aug-25
A229450450	Parapet Defect Rectification (WB CP side) (Design TBC)	14	25-Aug-25	07-Sep-25
A229450460	Parapet Defect Rectification (WB NCP side) (Design TBC)	14	08-Sep-25	21-Sep-25
Eastbound TCW		14	01-Aug-25	14-Aug-25
EB Road Barrier		14	01-Aug-25	14-Aug-25
SUS10060	SUS EB - Road Barrier (CPS) Last 50m	14	01-Aug-25	14-Aug-25
Westbound TCW		14	01-Aug-25	14-Aug-25
WB Road Barrier		14	01-Aug-25	14-Aug-25
SUS10210	SUS WB - Road Barrier (CPS) Last 50m	14	01-Aug-25	14-Aug-25
06 Launching Shaft & C&C Tunnel - LSCC		733	20-Nov-23 A	21-Nov-25
LSCC - Structure works		56	01-Aug-25	25-Sep-25
Launching Shaft		56	01-Aug-25	25-Sep-25
LS - Miscellaneous Structural Openings		56	01-Aug-25	25-Sep-25
01 Massfill at cable trench (subject to temporary cable relocation)		14	12-Sep-25	25-Sep-25
A229448630	Clearance and Massfill the trench	14	12-Sep-25	25-Sep-25
02 Road slab opening & Drainage works (subject to temporary cable relocation)		42	01-Aug-25	11-Sep-25



◆ Milestones
Planned Bar
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

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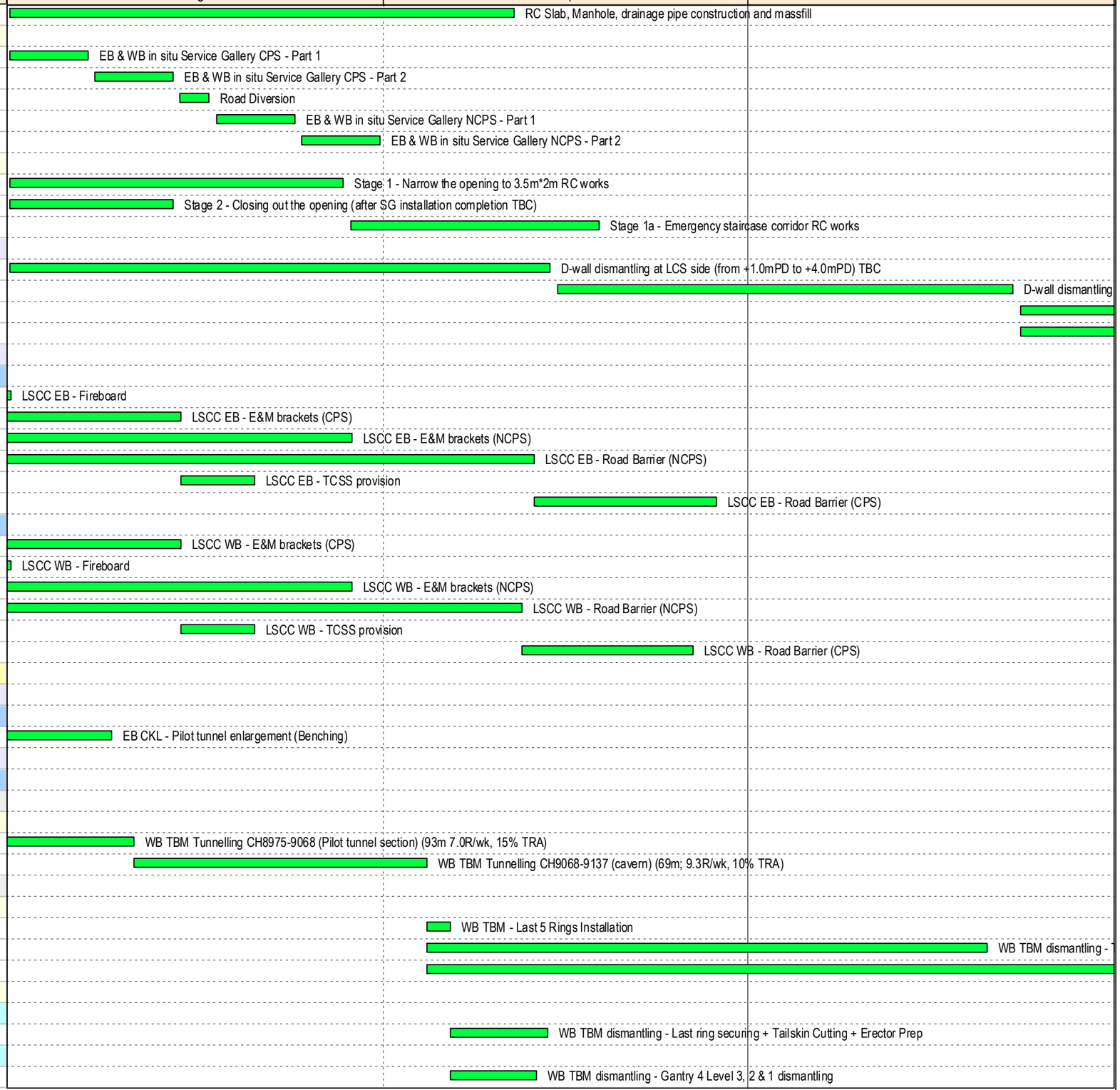
Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
A229448640	RC Slab, Manhole, drainage pipe construction and massfill	42	01-Aug-25	11-Sep-25
04 In situ SG at LS/TSS connection (subject to temporary works to maintain tunn		31	01-Aug-25	31-Aug-25
A229448570	EB & WB in situ Service Gallery CPS - Part 1	7	01-Aug-25	07-Aug-25
A229448580	EB & WB in situ Service Gallery CPS - Part 2	7	08-Aug-25	14-Aug-25
A229448581	Road Diversion	3	15-Aug-25	17-Aug-25
A229448590	EB & WB in situ Service Gallery NCPS - Part 1	7	18-Aug-25	24-Aug-25
A229448600	EB & WB in situ Service Gallery NCPS - Part 2	7	25-Aug-25	31-Aug-25
05 RC works at MIMEP Opening for Service Galleries Works (subject to BYME &		49	01-Aug-25	18-Sep-25
A229448650	Stage 1 - Narrow the opening to 3.5m*2m RC works	28	01-Aug-25*	28-Aug-25
A229448660	Stage 2 - Closing out the opening (after SG installation completion	14	01-Aug-25*	14-Aug-25
A229449020	Stage 1a - Emergency staircase corridor RC works	21	29-Aug-25	18-Sep-25
LSCC - Backfilling & Dwall Dismantling		113	01-Aug-25	21-Nov-25
A229447780	D-wall dismantling at LCS side (from +1.0mPD to +4.0mPD) TBC	45	01-Aug-25	14-Sep-25
A229447781	D-wall dismantling (from +1.0mPD to +4.0mPD) ~3050 m3 TBC	38	15-Sep-25	22-Oct-25
A229447790	Stage 2b (i) Final Backfilling at LCS side with open cut and allow L	18	23-Oct-25	10-Nov-25
A229447800	Stage 2b (ii) Final Backfilling (from +1.0mPD to +4.0mPD) (total qu	30	23-Oct-25	21-Nov-25
LSCC - Tunnel Civil Works		678	20-Nov-23 A	28-Sep-25
Eastbound TCW		678	20-Nov-23 A	28-Sep-25
LSCC10070	LSCC EB - Fireboard	620	20-Nov-23 A	01-Aug-25
LSCC10090	LSCC EB - E&M brackets (CPS)	343	06-Sep-24 A	15-Aug-25
LSCC10421	LSCC EB - E&M brackets (NCPS)	343	20-Sep-24 A	29-Aug-25
LSCC10050	LSCC EB - Road Barrier (NCPS)	92	13-Jun-25 A	13-Sep-25
LSCC10110	LSCC EB - TCSS provision	6	15-Aug-25	21-Aug-25
LSCC10431	LSCC EB - Road Barrier (CPS)	15	13-Sep-25*	28-Sep-25
Westbound TCW		440	13-Jul-24 A	26-Sep-25
LSCC10080	LSCC WB - E&M brackets (CPS)	398	13-Jul-24 A	15-Aug-25
LSCC10060	LSCC WB - Fireboard	286	19-Oct-24 A	01-Aug-25
LSCC10411	LSCC WB - E&M brackets (NCPS)	309	24-Oct-24 A	29-Aug-25
LSCC10441	LSCC WB - Road Barrier (NCPS)	105	30-May-25 A	12-Sep-25
LSCC10100	LSCC WB - TCSS provision	6	15-Aug-25	21-Aug-25
LSCC10451	LSCC WB - Road Barrier (CPS)	14	12-Sep-25	26-Sep-25
07 Tunnel Sub-sea (TSS)		743	26-Nov-23 A	07-Dec-25
Additional Excavation by D&Br from CKL		360	15-Aug-24 A	09-Aug-25
Eastbound Pilot Tunnel		360	15-Aug-24 A	09-Aug-25
CKL1130	EB CKL - Pilot tunnel enlargement (Benching)	360	15-Aug-24 A	09-Aug-25
TSS - TBM Excavation from Kai Tak		158	03-Jul-25 A	07-Dec-25
Westbound - TBM S1281		158	03-Jul-25 A	07-Dec-25
TBM1 Tunneling		64	03-Jul-25 A	04-Sep-25
CP26-31		64	03-Jul-25 A	04-Sep-25
A229449564	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section) (93m 7.0F	40	03-Jul-25 A	11-Aug-25
A229449565	WB TBM Tunnelling CH9068-9137 (cavern) (69m; 9.3R/wk, 10% T	24	11-Aug-25	04-Sep-25
TBM1 Dismantling		94	04-Sep-25	07-Dec-25
General		94	04-Sep-25	07-Dec-25
TA1251	WB TBM - Last 5 Rings Installation	2	04-Sep-25	06-Sep-25
TA85	WB TBM dismantling - TSS side (46d)	46	04-Sep-25	20-Oct-25
TA325	WB TBM dismantling - CKL side (94d)	94	04-Sep-25	07-Dec-25
TSS side		50	06-Sep-25	26-Oct-25
Gantry 4		8	06-Sep-25	14-Sep-25
TA1551	WB TBM dismantling - Last ring securing + Tailskin Cutting + Erec	8	06-Sep-25	14-Sep-25
Gantries 1-3		29	06-Sep-25	05-Oct-25
TA135	WB TBM dismantling - Gantry 4 Level 3, 2 & 1 dismantling	7	06-Sep-25	13-Sep-25



◆ ◆ Milestones
Planned Bar
Actual Bar

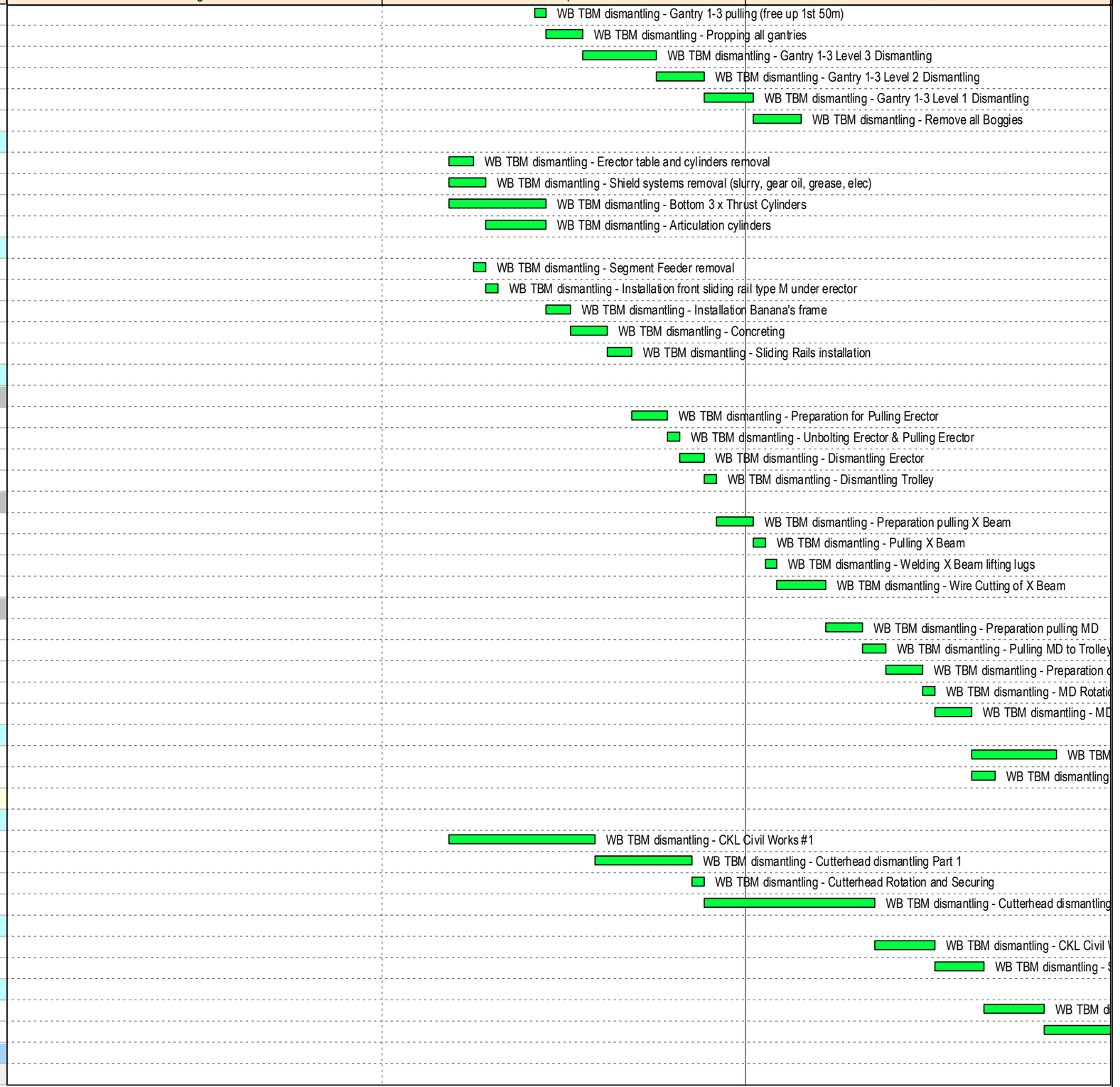
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
TA115	WB TBM dismantling - Gantry 1-3 pulling (free up 1st 50m)	1	13-Sep-25	14-Sep-25
TA275	WB TBM dismantling - Propping all gantries	3	14-Sep-25	17-Sep-25
TA921	WB TBM dismantling - Gantry 1-3 Level 3 Dismantling	6	17-Sep-25	23-Sep-25
TA931	WB TBM dismantling - Gantry 1-3 Level 2 Dismantling	4	23-Sep-25	27-Sep-25
TA1261	WB TBM dismantling - Gantry 1-3 Level 1 Dismantling	4	27-Sep-25	01-Oct-25
TA285	WB TBM dismantling - Remove all Boggies	4	01-Oct-25	05-Oct-25
Back shield		8	06-Sep-25	14-Sep-25
TA185	WB TBM dismantling - Erector table and cylinders removal	2	06-Sep-25	08-Sep-25
TA1451	WB TBM dismantling - Shield systems removal (slurry, gear oil, gre	3	06-Sep-25	09-Sep-25
TA1461	WB TBM dismantling - Bottom 3 x Thrust Cylinders	8	06-Sep-25	14-Sep-25
TA1471	WB TBM dismantling - Articulation cylinders	5	09-Sep-25	14-Sep-25
HAG System Preparation		13	08-Sep-25	21-Sep-25
TA1271	WB TBM dismantling - Segment Feeder removal	1	08-Sep-25	09-Sep-25
TA1281	WB TBM dismantling - Installation front sliding rail type M under er	1	09-Sep-25	10-Sep-25
TA1291	WB TBM dismantling - Installation Banana's frame	2	14-Sep-25	16-Sep-25
TA1301	WB TBM dismantling - Concreting	3	16-Sep-25	19-Sep-25
TA1311	WB TBM dismantling - Sliding Rails installation	2	19-Sep-25	21-Sep-25
Erector, Cross Beam, MD		28	21-Sep-25	19-Oct-25
Erector		7	21-Sep-25	28-Sep-25
TA1321	WB TBM dismantling - Preparation for Pulling Erector	3	21-Sep-25	24-Sep-25
TA1331	WB TBM dismantling - Unbolting Erector & Pulling Erector	1	24-Sep-25	25-Sep-25
TA1341	WB TBM dismantling - Dismantling Erector	2	25-Sep-25	27-Sep-25
TA1351	WB TBM dismantling - Dismantling Trolley	1	27-Sep-25	28-Sep-25
Cross Beam		9	28-Sep-25	07-Oct-25
TA1361	WB TBM dismantling - Preparation pulling X Beam	3	28-Sep-25	01-Oct-25
TA1371	WB TBM dismantling - Pulling X Beam	1	01-Oct-25	02-Oct-25
TA1381	WB TBM dismantling - Welding X Beam lifting lugs	1	02-Oct-25	03-Oct-25
TA1391	WB TBM dismantling - Wire Cutting of X Beam	4	03-Oct-25	07-Oct-25
Main Drive		12	07-Oct-25	19-Oct-25
TA1401	WB TBM dismantling - Preparation pulling MD	3	07-Oct-25	10-Oct-25
TA1411	WB TBM dismantling - Pulling MD to Trolley to Rotation Device	2	10-Oct-25	12-Oct-25
TA1421	WB TBM dismantling - Preparation of MD Rotation	3	12-Oct-25	15-Oct-25
TA1431	WB TBM dismantling - MD Rotation	1	15-Oct-25	16-Oct-25
TA1441	WB TBM dismantling - MD Dismantling and Cutting	3	16-Oct-25	19-Oct-25
Final Demo		7	19-Oct-25	26-Oct-25
TA296	WB TBM dismantling - HAG System Rail dismantling & Concrete E	7	19-Oct-25	26-Oct-25
TA1581	WB TBM dismantling - Oxycutting area dismantling	2	19-Oct-25	21-Oct-25
CKL Side		64	06-Sep-25	09-Nov-25
Cutterhead		35	06-Sep-25	11-Oct-25
TA90	WB TBM dismantling - CKL Civil Works #1	12	06-Sep-25	18-Sep-25
TA901	WB TBM dismantling - Cutterhead dismantling Part 1	8	18-Sep-25	26-Sep-25
TA1481	WB TBM dismantling - Cutterhead Rotation and Securing	1	26-Sep-25	27-Sep-25
TA1491	WB TBM dismantling - Cutterhead dismantling Part 2	14	27-Sep-25	11-Oct-25
Spherical Bearing		9	11-Oct-25	20-Oct-25
TA91	WB TBM dismantling - CKL Civil Works #2	5	11-Oct-25	16-Oct-25
TA92	WB TBM dismantling - Spherical Bearing	4	16-Oct-25	20-Oct-25
Sheild		20	20-Oct-25	09-Nov-25
TA1561	WB TBM dismantling - CKL Civil Works #3	5	20-Oct-25	25-Oct-25
TA93	WB TBM dismantling - Shield Part 1	15	25-Oct-25	09-Nov-25
Eastbound - TBM S1282		124	23-Jul-25 A	24-Nov-25
TBM2 Tunneling		124	23-Jul-25 A	24-Nov-25



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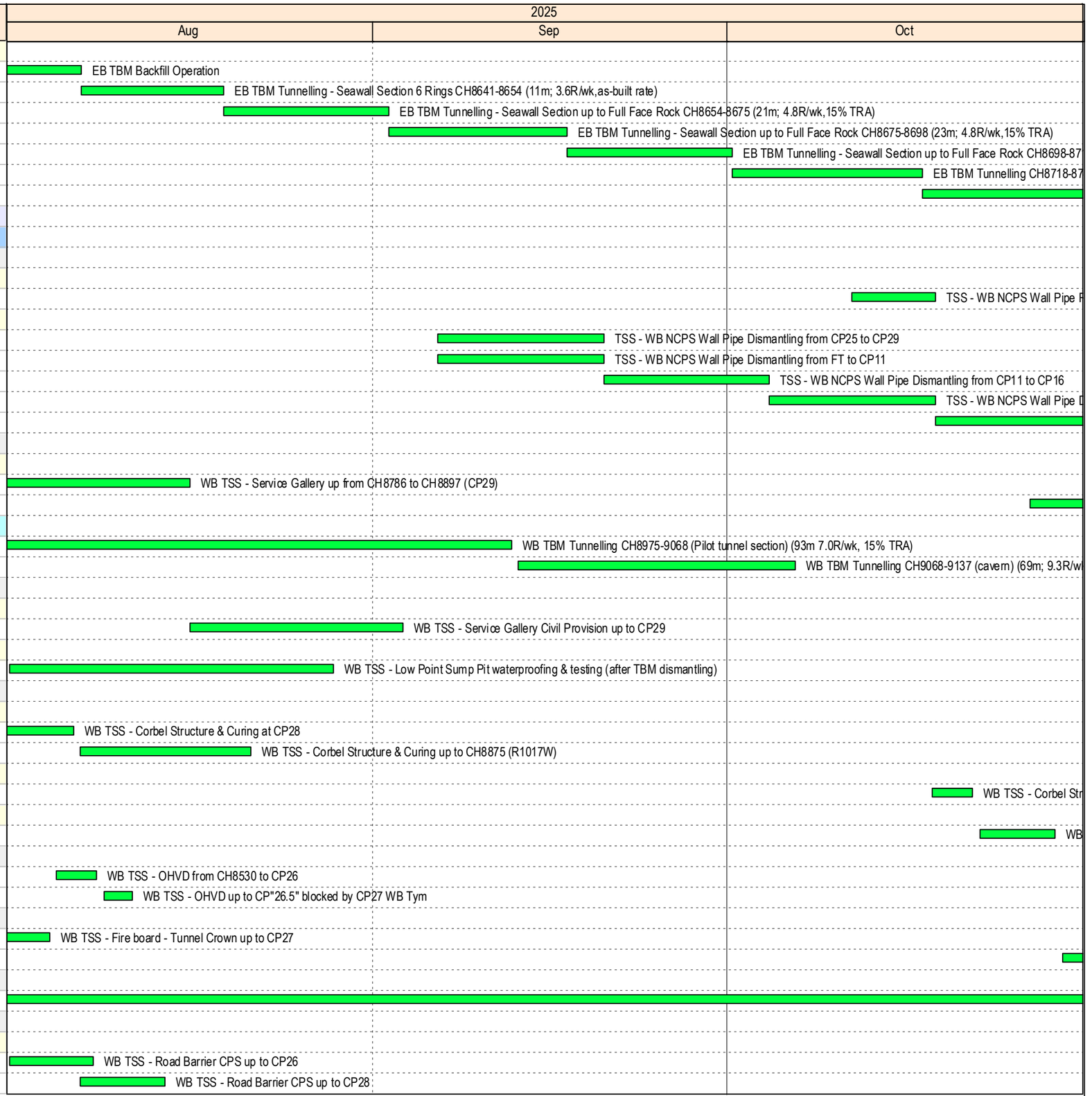
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
CP26-30		124	23-Jul-25 A	24-Nov-25
EBTBM1420	EB TBM Backfill Operation	15	23-Jul-25 A	07-Aug-25
EBTBM1360	EB TBM Tunnelling - Seawall Section 6 Rings CH8641-8654 (11m	12	07-Aug-25	19-Aug-25
EBTBM1260	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH865	14	19-Aug-25	02-Sep-25
EBTBM1530	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH867	15	02-Sep-25	17-Sep-25
EBTBM1270	EB TBM Tunnelling - Seawall Section up to Full Face Rock CH869	14	17-Sep-25	01-Oct-25
EBTBM1280	EB TBM Tunnelling CH8718-8748 up to start of Pilot Tunnel (30m;	16	01-Oct-25	17-Oct-25
EBTBM1290	EB TBM Tunnelling CH8748-8831 (Pilot tunnel section) (83m; 7.0F	38	17-Oct-25	24-Nov-25
TSS - Tunnel Civil Works		727	26-Nov-23 A	21-Nov-25
Westbound (WB)		363	24-Nov-24 A	21-Nov-25
WB TSS - TBM Temporary Services		56	06-Sep-25	01-Nov-25
TBM slurry pipe relocation		7	11-Oct-25	18-Oct-25
A229447540	TSS - WB NCPS Wall Pipe Relocation from CP23 to CP24	7	11-Oct-25	18-Oct-25
TBM slurry pipe dismantling		56	06-Sep-25	01-Nov-25
A229447590	TSS - WB NCPS Wall Pipe Dismantling from CP25 to CP29	14	06-Sep-25	20-Sep-25
A229447610	TSS - WB NCPS Wall Pipe Dismantling from FT to CP11	14	06-Sep-25	20-Sep-25
A229447620	TSS - WB NCPS Wall Pipe Dismantling from CP11 to CP16	14	20-Sep-25	04-Oct-25
A229447630	TSS - WB NCPS Wall Pipe Dismantling from CP16 to CP21	14	04-Oct-25	18-Oct-25
A229447640	TSS - WB NCPS Wall Pipe Dismantling from CP21 to CP25	14	18-Oct-25	01-Nov-25
WB TSS - Service Gallery		123	03-Jul-25 A	02-Nov-25
CP26-31		123	03-Jul-25 A	02-Nov-25
TC3010	WB TSS - Service Gallery up from CH8786 to CH8897 (CP29)	42	05-Jul-25 A	16-Aug-25
TC3020	WB TSS - Service Gallery up to CP30 (100m)	7	26-Oct-25	02-Nov-25
Same Rate as TBM Excavation (Last SG 170m behind TBM CH)		96	03-Jul-25 A	06-Oct-25
A229450340	WB TBM Tunnelling CH8975-9068 (Pilot tunnel section) (93m 7.0F	72	03-Jul-25 A	12-Sep-25
A229450350	WB TBM Tunnelling CH9068-9137 (cavern) (69m; 9.3R/wk, 10% T	24	13-Sep-25	06-Oct-25
WB TSS - Below Road Level Installation		34	01-Aug-25	03-Sep-25
Service Gallery Civil Provision		18	16-Aug-25	03-Sep-25
TC1100	WB TSS - Service Gallery Civil Provision up to CP29	18	16-Aug-25	03-Sep-25
Low Point @ CP12		28	01-Aug-25	28-Aug-25
TC11290	WB TSS - Low Point Sump Pit waterproofing & testing (after TBM	28	01-Aug-25	28-Aug-25
WB TSS - Corbel		100	21-Jul-25 A	28-Oct-25
CP21-26		32	21-Jul-25 A	21-Aug-25
A229424160	WB TSS - Corbel Structure & Curing at CP28	17	21-Jul-25 A	06-Aug-25
TC11200	WB TSS - Corbel Structure & Curing up to CH8875 (R1017W)	15	07-Aug-25	21-Aug-25
CP26-31		4	18-Oct-25	21-Oct-25
TC1930	WB TSS - Corbel Structure up to CP29 (25m)	4	18-Oct-25	21-Oct-25
Concrete curing time before ISSG arrival		7	22-Oct-25	28-Oct-25
TC1330	WB TSS - Corbel Structure up to CP29 (concrete curing)	7	22-Oct-25	28-Oct-25
WB TSS - OHVD		7	05-Aug-25	11-Aug-25
TC11470	WB TSS - OHVD from CH8530 to CP26	4	05-Aug-25	08-Aug-25
TC11400	WB TSS - OHVD up to CP"26.5" blocked by CP27 WB Tym	3	09-Aug-25	11-Aug-25
WB TSS - Fire Board - Tunnel Crown with deletion up Ch8924		100	28-Jul-25 A	05-Nov-25
D12555	WB TSS - Fire board - Tunnel Crown up to CP27	7	28-Jul-25 A	04-Aug-25
D12565	WB TSS - Fire board - Tunnel Crown up to CP28	8	29-Oct-25	05-Nov-25
WB TSS - Fire Board - Road level with deletion up Ch8924		268	21-Feb-25 A	15-Nov-25
TC11430	WB TSS - Fire Board - Wall & OHVD Soffit from CP25 to CP26	268	21-Feb-25 A	15-Nov-25
WB TSS - Road Barrier		86	01-Aug-25	25-Oct-25
CPS		86	01-Aug-25	25-Oct-25
A229447850	WB TSS - Road Barrier CPS up to CP26	6	01-Aug-25	08-Aug-25
A229447650	WB TSS - Road Barrier CPS up to CP28	6	07-Aug-25	14-Aug-25



◆ Milestones
Planned Bar
Actual Bar

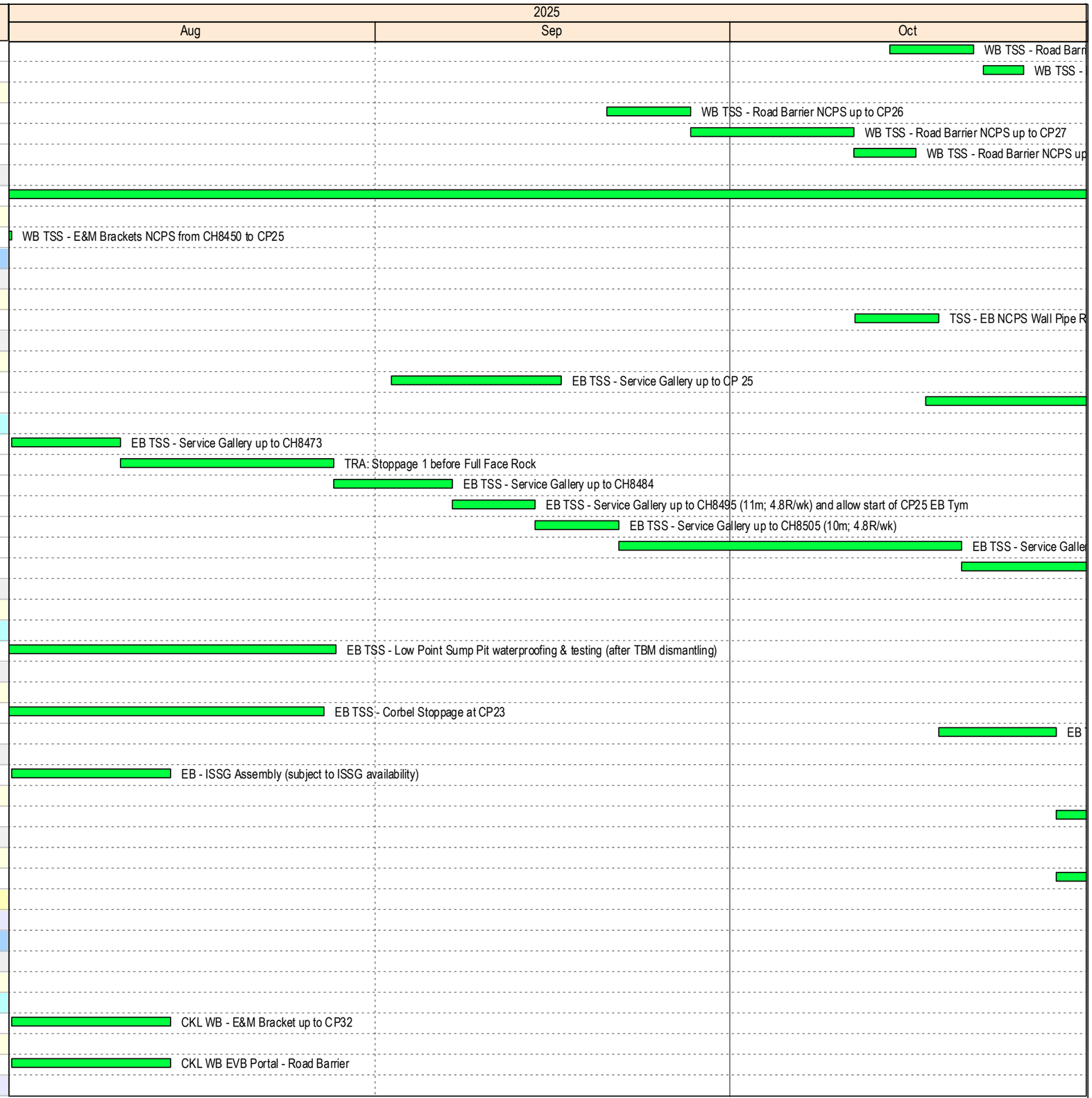
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
A229447860	WB TSS - Road Barrier CPS up to CP27	6	14-Oct-25	21-Oct-25
TC1040	WB TSS - Road Barrier CPS up to CP29	4	22-Oct-25	25-Oct-25
NCPS		16	20-Sep-25	16-Oct-25
A229446430	WB TSS - Road Barrier NCPS up to CP26	6	20-Sep-25	27-Sep-25
A229446420	WB TSS - Road Barrier NCPS up to CP27	6	27-Sep-25	11-Oct-25
A229425611	WB TSS - Road Barrier NCPS up to CP28	4	11-Oct-25	16-Oct-25
WB TSS - E&M Brackets		363	24-Nov-24 A	21-Nov-25
TC11030	WB TSS - E&M Brackets up to CP26	143	02-Jul-25 A	21-Nov-25
NCPS		250	24-Nov-24 A	01-Aug-25
TC11460	WB TSS - E&M Brackets NCPS from CH8450 to CP25	250	24-Nov-24 A	01-Aug-25
Eastbound (EB)		711	26-Nov-23 A	05-Nov-25
EB TSS - TBM Temporary Services		7	11-Oct-25	18-Oct-25
TBM slurry pipe relocation		7	11-Oct-25	18-Oct-25
A229447680	TSS - EB NCPS Wall Pipe Relocation from CP23 to CP24	7	11-Oct-25	18-Oct-25
EB TSS - Service Gallery		97	01-Aug-25	05-Nov-25
CP21-26		97	01-Aug-25	05-Nov-25
A229428552	EB TSS - Service Gallery up to CP 25	13	02-Sep-25	16-Sep-25
A229428562	EB TSS - Service Gallery up to CP 26	13	17-Oct-25	01-Nov-25
Same Rate as TBM Excavation (Last SG 170m behind TBM CH)		97	01-Aug-25	05-Nov-25
EBTBM1380	EB TSS - Service Gallery up to CH8473	10	01-Aug-25	10-Aug-25
EBTBM1390	TRA: Stoppage 1 before Full Face Rock	18	10-Aug-25	28-Aug-25
EBTBM1400	EB TSS - Service Gallery up to CH8484	10	28-Aug-25	07-Sep-25
EBTBM1410	EB TSS - Service Gallery up to CH8495 (11m; 4.8R/wk) and allow	7	07-Sep-25	14-Sep-25
EBTBM1500	EB TSS - Service Gallery up to CH8505 (10m; 4.8R/wk)	7	14-Sep-25	21-Sep-25
EBTBM1430	EB TSS - Service Gallery up to CH8548 (43m; 4.8R/wk)	29	21-Sep-25	20-Oct-25
EBTBM1440	EB TSS - Service Gallery up to CH8578	16	20-Oct-25	05-Nov-25
EB TSS - Below Road Level Installation		193	17-Feb-25 A	28-Aug-25
Low Point Sump Pit		193	17-Feb-25 A	28-Aug-25
Low Point @ CP12		193	17-Feb-25 A	28-Aug-25
TC11330	EB TSS - Low Point Sump Pit waterproofing & testing (after TBM c	193	17-Feb-25 A	28-Aug-25
EB TSS - Corbel		703	26-Nov-23 A	28-Oct-25
CP21-26		703	26-Nov-23 A	28-Oct-25
A229415982	EB TSS - Corbel Stoppage at CP23	641	26-Nov-23 A	27-Aug-25
A229415952	EB TSS - Corbel Structure up to CP24	8	18-Oct-25	28-Oct-25
EB TSS - OHVD		93	01-Aug-25	01-Nov-25
TC305	EB - ISSG Assembly (subject to ISSG availability)	14	01-Aug-25*	14-Aug-25
CP21-26		4	28-Oct-25	01-Nov-25
TC320	EB TSS - OHVD up to CP24	4	28-Oct-25	01-Nov-25
EB TSS - Road Barrier		8	28-Oct-25	05-Nov-25
NCPS		8	28-Oct-25	05-Nov-25
TC10160	EB TSS - Road Barrier NCPS up to CP24	8	28-Oct-25	05-Nov-25
08 CKL Tunnel		340	25-Nov-24 A	30-Oct-25
Westbound (WB)		14	01-Aug-25	14-Aug-25
WB CKL - Before TBM breakthough		14	01-Aug-25	14-Aug-25
Westbound (WB) Civil Works		14	01-Aug-25	14-Aug-25
WB Type A		14	01-Aug-25	14-Aug-25
E&M Brackets		14	01-Aug-25	14-Aug-25
A229450100	CKL WB - E&M Bracket up to CP32	14	01-Aug-25	14-Aug-25
WB EVB Portal		14	01-Aug-25	14-Aug-25
A229450180	CKL WB EVB Portal - Road Barrier	14	01-Aug-25	14-Aug-25
Eastbound (EB)		340	25-Nov-24 A	30-Oct-25



◆ ◆ Milestones
Planned Bar
Actual Bar

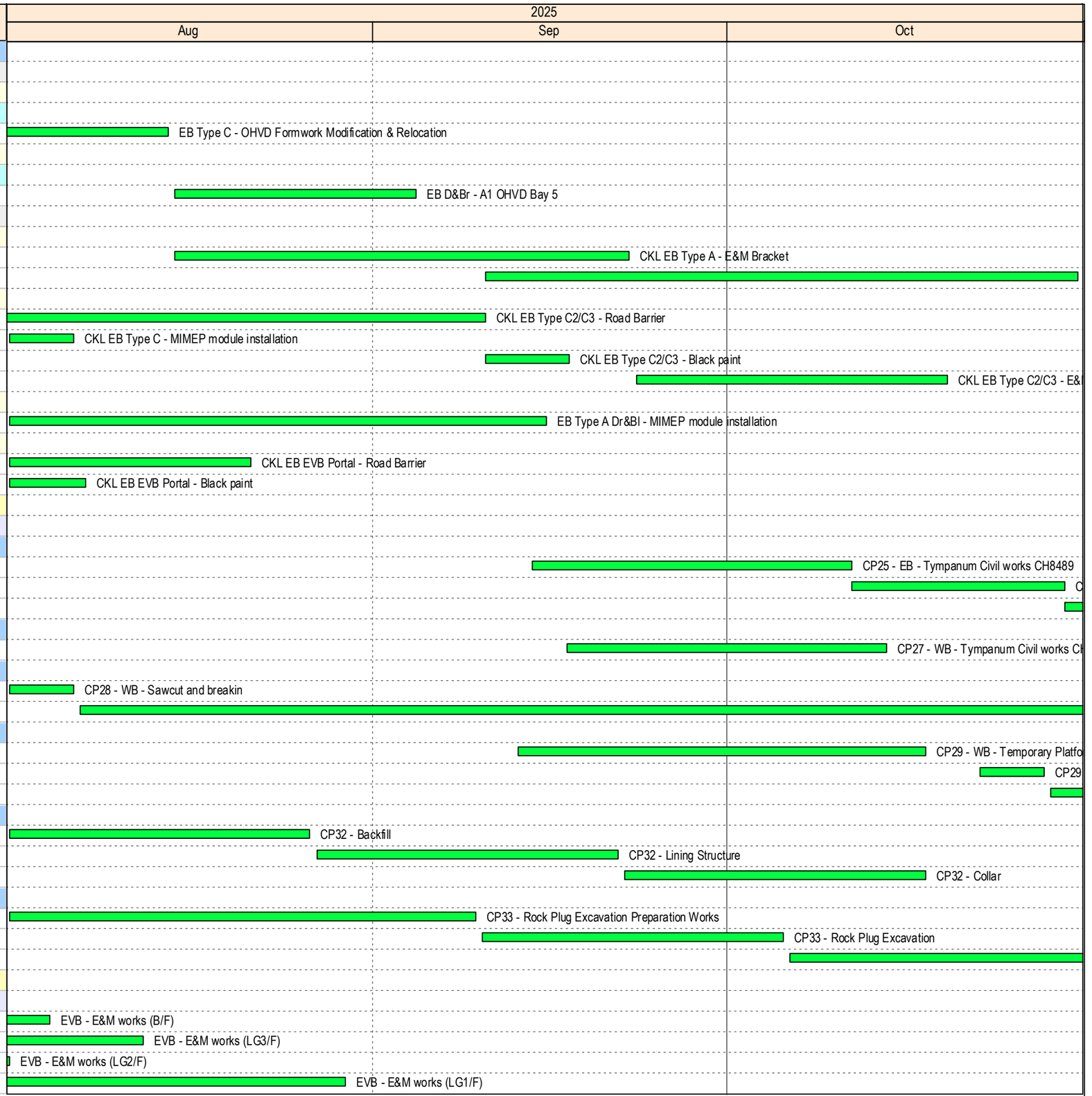
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
EB CKL - Before TBM breakthough		340	25-Nov-24 A	30-Oct-25
Eastbound (EB) Structure Works		284	25-Nov-24 A	04-Sep-25
EB Type C		212	25-Nov-24 A	14-Aug-25
OHVD		212	25-Nov-24 A	14-Aug-25
A2050	EB Type C - OHVD Formwork Modification & Relocation	212	25-Nov-24 A	14-Aug-25
EB Type A D&Br		21	15-Aug-25	04-Sep-25
OHVD		21	15-Aug-25	04-Sep-25
A1800	EB D&Br - A1 OHVD Bay 5	21	15-Aug-25	04-Sep-25
Eastbound (EB) Civil Works		92	31-Jul-25 A	30-Oct-25
EB Type A		77	15-Aug-25	30-Oct-25
A8980	CKL EB Type A - E&M Bracket	39	15-Aug-25	22-Sep-25
A229444530	EB - Type A - Road Barrier	36	10-Sep-25	30-Oct-25
EB Type C		81	31-Jul-25 A	19-Oct-25
A229444520	CKL EB Type C2/C3 - Road Barrier	42	31-Jul-25 A	10-Sep-25
A229450140	CKL EB Type C - MIMEP module installation	6	01-Aug-25	06-Aug-25
A229450120	CKL EB Type C2/C3 - Black paint	7	10-Sep-25	17-Sep-25
A229450110	CKL EB Type C2/C3 - E&M Bracket	27	23-Sep-25	19-Oct-25
EB Type A D&Br		36	01-Aug-25	15-Sep-25
A229444700	EB Type A Dr&Bl - MIMEP module installation	36	01-Aug-25	15-Sep-25
EB EVB Portal		21	01-Aug-25	21-Aug-25
A229450150	CKL EB EVB Portal - Road Barrier	21	01-Aug-25	21-Aug-25
A229450160	CKL EB EVB Portal - Black paint	7	01-Aug-25	07-Aug-25
09 Cross Passages		176	01-Aug-25	23-Jan-26
Cross Passages @ TSS & CKL Tunnel (CP7 to CP33)		176	01-Aug-25	23-Jan-26
CP25 by Mini TBM		105	14-Sep-25	28-Dec-25
TD0100	CP25 - EB - Tympanum Civil works CH8489	27	14-Sep-25	11-Oct-25
A7950	CP25 - CP TBM cycle	18	11-Oct-25	29-Oct-25
A8260	CP25 - Internal & Collar Structure & ABWF	60	29-Oct-25	28-Dec-25
CP27 by Mini TBM		27	17-Sep-25	14-Oct-25
TD0310	CP27 - WB - Tympanum Civil works CH8688 R0936W	27	17-Sep-25	14-Oct-25
CP28 by D&Br		94	01-Aug-25	02-Nov-25
TD1030	CP28 - WB - Sawcut and breakin	6	01-Aug-25	06-Aug-25
TD1250	CP28 - Advance excavation from WB (15m Length; 0.17m/d)	88	07-Aug-25	02-Nov-25
CP29 by D&Br		133	13-Sep-25	23-Jan-26
TD1310	CP29 - WB - Temporary Platform setup & Tympanum	35	13-Sep-25	17-Oct-25
TD1320	CP29 - WB - Sawcut and break in	6	22-Oct-25	27-Oct-25
TD1330	CP29 - excavation from WB	88	28-Oct-25	23-Jan-26
CP32 by D&Bl		78	01-Aug-25	17-Oct-25
A229438446	CP32 - Backfill	26	01-Aug-25	26-Aug-25
A229438436	CP32 - Lining Structure	26	27-Aug-25	21-Sep-25
A229422590	CP32 - Collar	26	22-Sep-25	17-Oct-25
CP33 by D&Bl		133	01-Aug-25	11-Dec-25
A1900	CP33 - Rock Plug Excavation Preparation Works	40	01-Aug-25	09-Sep-25
A1710	CP33 - Rock Plug Excavation	26	10-Sep-25	05-Oct-25
A1720	CP33 - CP33/Type E Junction	67	06-Oct-25	11-Dec-25
10 East Ventilation Building - EVB		653	15-Mar-24 A	27-Dec-25
E&M Works (by BYME)		453	15-Mar-24 A	23-Sep-25
EVB1210	EVB - E&M works (B/F)	410	15-Mar-24 A	04-Aug-25
EVB1300	EVB - E&M works (LG3/F)	385	26-Apr-24 A	12-Aug-25
EVB1360	EVB - E&M works (LG2/F)	356	21-May-24 A	01-Aug-25
EVB1440	EVB - E&M works (LG1/F)	340	10-Jul-24 A	29-Aug-25



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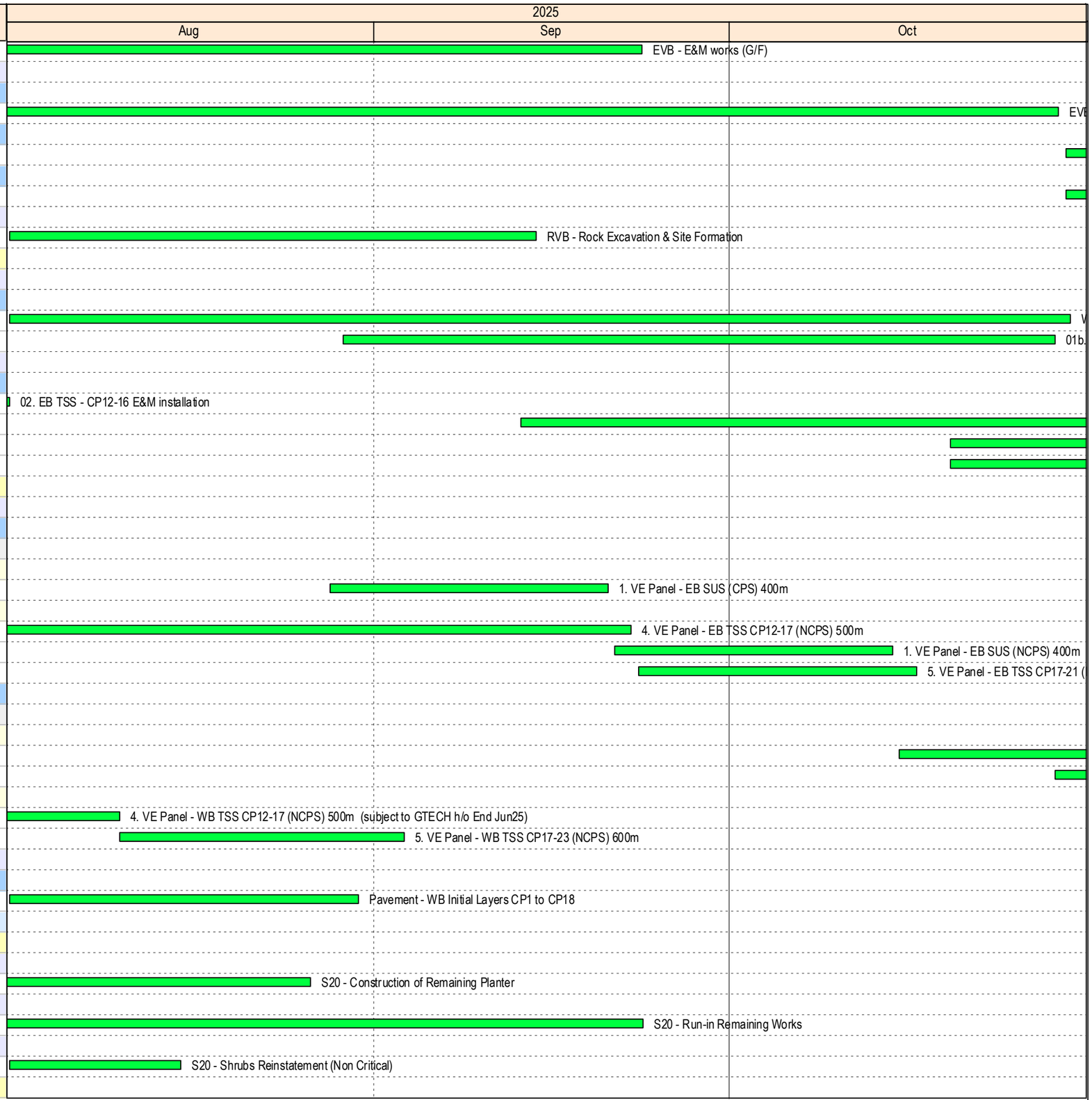
Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
EVB1500	EVB - E&M works (G/F)	337	07-Aug-24 A	23-Sep-25
EVB Remaining Works (TBC)		198	13-Jun-25 A	27-Dec-25
Facade works		138	13-Jun-25 A	28-Oct-25
EVB1606	EVB - Aluminium Fins Installation	138	13-Jun-25 A	28-Oct-25
Logistic Deck & Tower Crane Removal		15	29-Oct-25	12-Nov-25
EVB1621	EVB - Tower Crane TC2 Removal TC2	15	29-Oct-25	12-Nov-25
Landscape works		60	29-Oct-25	27-Dec-25
EVB1650	EVB - Landscape - Above G/F	60	29-Oct-25	27-Dec-25
VO - Recovery Vehicle Base (RVB) Construction		45	01-Aug-25	14-Sep-25
EVB1810	RVB - Rock Excavation & Site Formation	45	01-Aug-25	14-Sep-25
11 Tunnel E&M Installation		262	01-May-25 A	17-Jan-26
WB - E&M Works		90	01-Aug-25	29-Oct-25
WB - LV Cabling & LV Power On		90	01-Aug-25	29-Oct-25
TF170	WB CKL - CP32-EVB Portal E&M installation	90	01-Aug-25*	29-Oct-25
E&MC1180	01b. WB SUS CP1 to CP12 - E&M Installation (Final Stage)	60	29-Aug-25	28-Oct-25
EB - E&M Works		262	01-May-25 A	17-Jan-26
EB - LV Cabling & LV Power On		262	01-May-25 A	17-Jan-26
E&MC1080	02. EB TSS - CP12-16 E&M installation	92	01-May-25 A	01-Aug-25
E&MC1150	01b. EB SUS to TSS CP12 - E&M Installation (Final Stage)	60	13-Sep-25	12-Nov-25
E&MC1130	11. EB CKL - CP31 to EVB Portal - E&M installation	90	19-Oct-25	17-Jan-26
E&MC1140	12. EB CKL - BT & S01 - E&M installation	90	19-Oct-25	17-Jan-26
14 Projectwide Final Works		283	29-Jan-25 A	07-Nov-25
Tunnel Cladding		283	29-Jan-25 A	07-Nov-25
Eastbound		261	29-Jan-25 A	16-Oct-25
Typical Subframe & Cladding		261	29-Jan-25 A	16-Oct-25
EB CPS		24	28-Aug-25	20-Sep-25
VE10220	1. VE Panel - EB SUS (CPS) 400m	24	28-Aug-25	20-Sep-25
EB NCPS		261	29-Jan-25 A	16-Oct-25
VE10601	4. VE Panel - EB TSS CP12-17 (NCPS) 500m	237	29-Jan-25 A	22-Sep-25
VE10571	1. VE Panel - EB SUS (NCPS) 400m	24	21-Sep-25	14-Oct-25
VE10611	5. VE Panel - EB TSS CP17-21 (NCPS) 400m	24	23-Sep-25	16-Oct-25
Westbound		266	15-Feb-25 A	07-Nov-25
Typical Subframe & Cladding		266	15-Feb-25 A	07-Nov-25
WB CPS		24	15-Oct-25	07-Nov-25
VE10021	1. VE Panel - WB SUS (CPS) 400m	24	15-Oct-25*	07-Nov-25
VE10022	2. VE Panel - WB LSCC to CP7 (CPS) 150m	10	28-Oct-25	07-Nov-25
WB NCPS		201	15-Feb-25 A	03-Sep-25
VE10701	4. VE Panel - WB TSS CP12-17 (NCPS) 500m (subject to GTECH	177	15-Feb-25 A	10-Aug-25
VE10731	5. VE Panel - WB TSS CP17-23 (NCPS) 600m	24	10-Aug-25*	03-Sep-25
Tunnel Pavement		30	01-Aug-25	30-Aug-25
Westbound		30	01-Aug-25	30-Aug-25
AGR10090	Pavement - WB Initial Layers CP1 to CP18	30	01-Aug-25	30-Aug-25
Infrastructure Works		307	07-Jan-25 A	10-Nov-25
06 Road S20		131	31-Mar-25 A	23-Sep-25
Addition of Planter (Non Critical)		109	31-Mar-25 A	26-Aug-25
A1140	S20 - Construction of Remaining Planter	109	31-Mar-25 A	26-Aug-25
Run-in Remaining Works		107	08-May-25 A	23-Sep-25
A1100	S20 - Run-in Remaining Works	107	08-May-25 A	23-Sep-25
VO - Modification of Irrigation System at Charging Station Run-in		12	01-Aug-25	15-Aug-25
A1070	S20 - Shrubs Reinstatement (Non Critical)	12	01-Aug-25	15-Aug-25
07 Road L10(N)		213	01-Mar-25 A	29-Sep-25



◆ Milestones
Planned Bar
Actual Bar

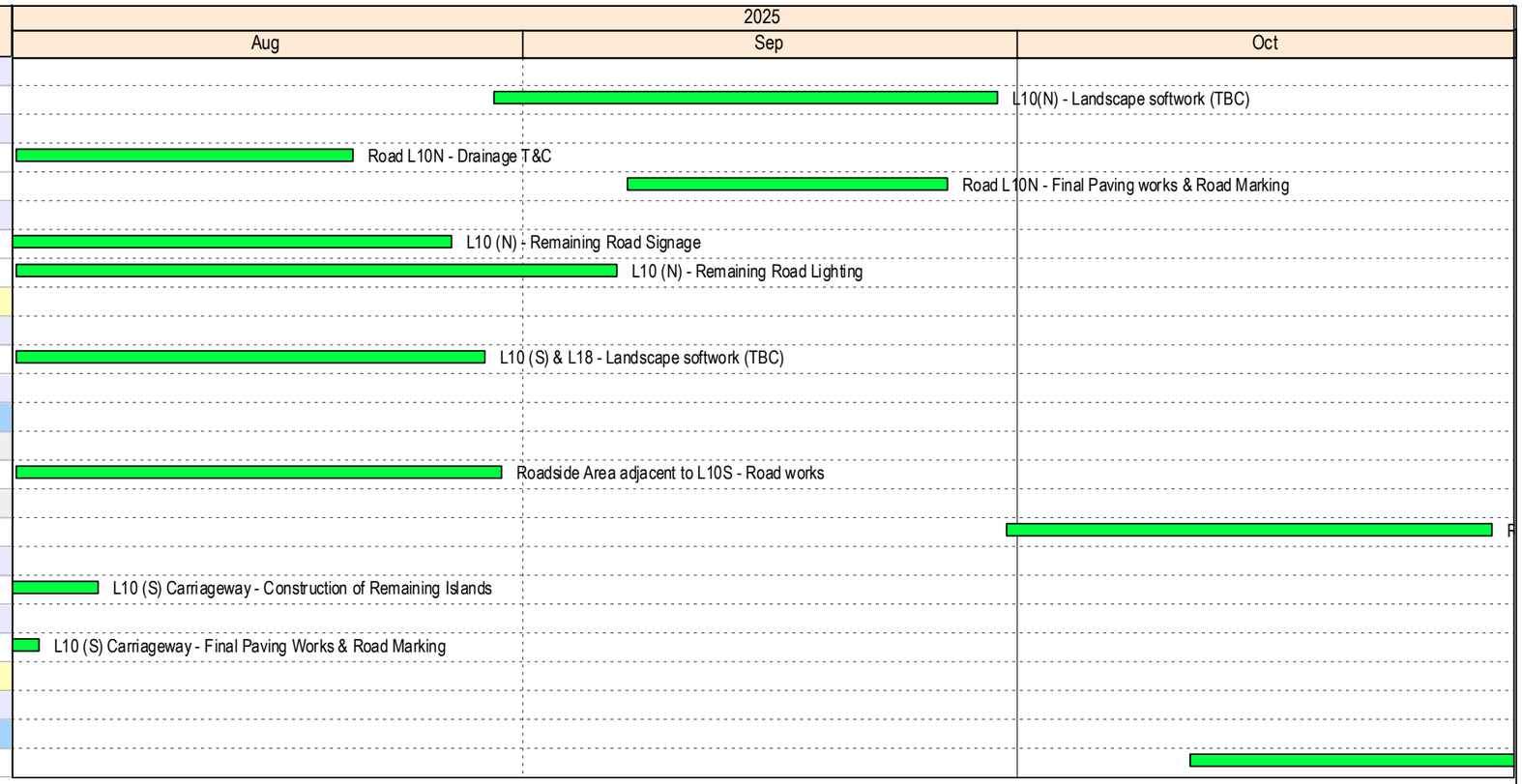
ED/2018/04 Trunk Road T2 and Infrastructure Works
for Developments at South Apron

Three Months Rolling Programme (Aug25-Oct25)

BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

Activity ID	Activity Name	Dur	Start	Finish
L10(N) Landscape (KD-26)		26	30-Aug-25	29-Sep-25
LN10110	L10(N) - Landscape softwork (TBC)	26	30-Aug-25	29-Sep-25
L10(N) Remaining works		57	01-Aug-25	26-Sep-25
LN10100	Road L10N - Drainage T&C	21	01-Aug-25	21-Aug-25
LN10150	Road L10N - Final Paving works & Road Marking	20	07-Sep-25	26-Sep-25
L10 (N) Remaining Road Works (Subject to Manpower)		145	01-Mar-25 A	06-Sep-25
A229450270	L10 (N) - Remaining Road Signage	136	01-Mar-25 A	27-Aug-25
A229450280	L10 (N) - Remaining Road Lighting	30	01-Aug-25	06-Sep-25
08 Road L10(S) & L18		296	07-Jan-25 A	29-Oct-25
L10(S) & L18 Landscape (KD-24)		25	01-Aug-25	29-Aug-25
A229445710	L10 (S) & L18 - Landscape softwork (TBC)	25	01-Aug-25*	29-Aug-25
L10(S) & L18 Remaining works		90	01-Aug-25	29-Oct-25
Roadside Area adjacent to L10(S)		90	01-Aug-25	29-Oct-25
Roadworks		30	01-Aug-25	30-Aug-25
A229448810	Roadside Area adjacent to L10S - Road works	30	01-Aug-25*	30-Aug-25
Landscape		30	30-Sep-25	29-Oct-25
A229448820	Roadside Area adjacent to L10S - Landscape (TBC)	30	30-Sep-25	29-Oct-25
Miscellaneous Road Works		161	07-Jan-25 A	06-Aug-25
A1190	L10 (S) Carriageway - Construction of Remaining Islands	161	07-Jan-25 A	06-Aug-25
Preparation for Road Opening (L10S)		75	26-Apr-25 A	02-Aug-25
A229450210	L10 (S) Carriageway - Final Paving Works & Road Marking	75	26-Apr-25 A	02-Aug-25
10 Lam Chak Street / Kai Hing Road Modification		30	11-Oct-25	10-Nov-25
LCS/KHR Modification (KD-19)		30	11-Oct-25	10-Nov-25
VO -Additional Raod Lighting at Stage 1 Area		30	11-Oct-25	10-Nov-25
A229450080	VO - Additional Road Lighting installation	30	11-Oct-25	10-Nov-25



◆ Milestones
Planned Bar
Actual Bar

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

Three Months Rolling Programme (Aug25-Oct25)

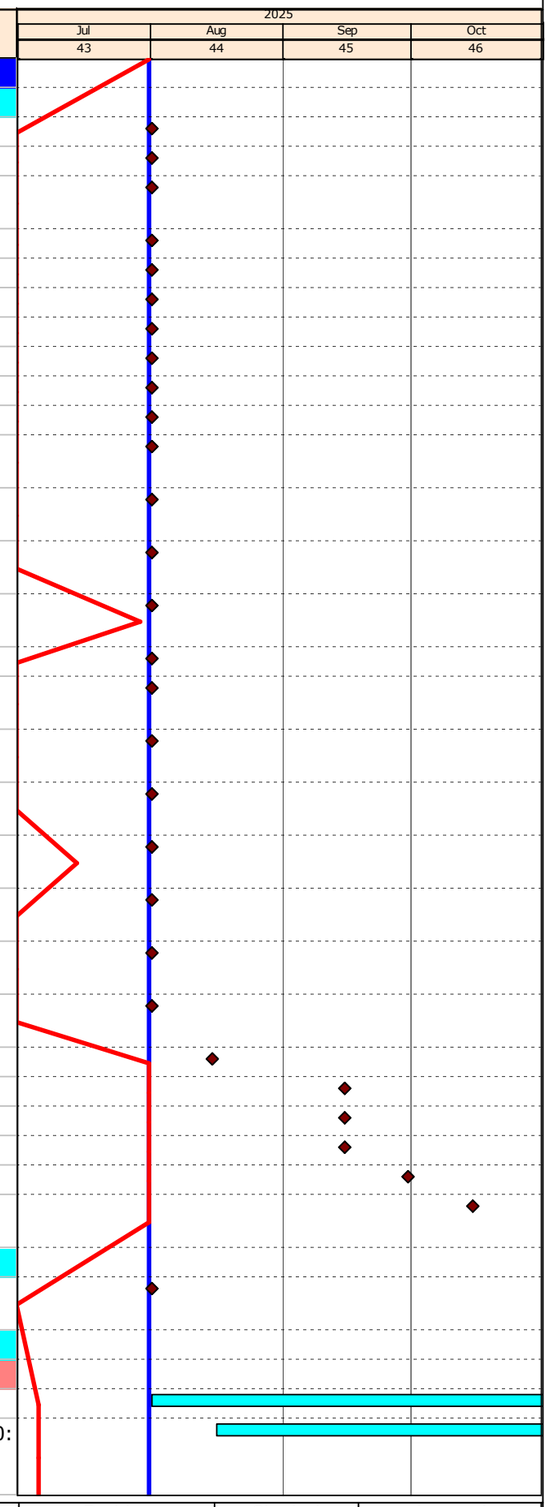
BOUYGUES TRAVAUX PUBLICS

Date	Revision	Checked	Approved

CONTRACT NO. ED/2020/03
TRUNK ROAD T2
TRAFFIC CONTROL SURVEILLANCE SYSTEM AND ASSOCIATED WORKS
THREE MONTH ROLLING PROGRAMME

Appendix III B - Three Month Rolling Programme

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Trunk Road T2 - Traffic Control & Surveillance System & Associated Works		814	01-Aug-25	01-Jun-26	19-Feb-24	31-Oct-26	10-Aug-23		
Access Dates		75	01-Aug-25	15-Oct-25	02-Apr-24	15-May-25			
AC1010b	Portion 2 - LSCC to CP7 (NCP Side) - WB	0	01-Aug-25		02-Oct-24				
AC1010c	Portion 2 - LSCC to CP7 (Under OHVD) - WB	0	01-Aug-25		15-May-25				
AC1010d	Portion 2 - LSCC to CP7 (VSLS Signage Anchors & Niche Cabinet) - EB & WB	0	01-Aug-25		28-Jan-25				
AC1010f	Portion 2 - LSCC to CP7 (CP Side) - EB	0	01-Aug-25		02-Oct-24				
AC1010g	Portion 2 - LSCC to CP7 (Under OHVD) - EB	0	01-Aug-25		15-May-25				
AC1010h	Portion 2 - LSCC to CP7 (NCP Side) - EB	0	01-Aug-25		02-Oct-24				
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	01-Aug-25		23-Aug-24				
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-Aug-25		02-Apr-24				
AC1040	Underpass S21	0	01-Aug-25		16-Jan-25				
AC1050i	Portion 2 - LS - CKL Tunnel CP7 to CP11 (Niche cabinet) - EB	0	01-Aug-25		15-Feb-25				
AC1050j	Portion 2 - LS - CKL Tunnel CP7 to CP11 (Niche cabinet) - WB	0	01-Aug-25		31-Jan-25				
AC1060i	Portion 2 - LS - CKL Tunnel CP11 to CP16 (Niche Cabinet) - EB & WB	0	01-Aug-25		15-May-25				
AC1070i	Portion 2 - LS - CKL Tunnel CP16 to CP21 (Niche Cabinet) - EB & WB	0	01-Aug-25		18-Nov-24				
AC1080b	Portion 2 - LS - CKL Tunnel CP24 to CP26 (Service Gallery) - EB	0	01-Aug-25		13-Feb-25				
AC1080f	Portion 2 - LS - CKL Tunnel CP24 to CP26 (Road Level) - WB	0	01-Aug-25		20-Sep-24				
AC1080h	Portion 2 - LS - CKL Tunnel CP21 to CP24 (VSLS Signage Anchor) - WB	0	01-Aug-25		25-Jan-25				
AC1080i	Portion 2 - LS - CKL Tunnel CP21 to CP24 (Niche Cabinet) - WB	0	01-Aug-25		14-Feb-25				
AC1090d	Portion 2 - LS - CKL Tunnel CP26 to CP30 (Service Gallery) - WB	0	01-Aug-25		19-Dec-24				
AC1090e	Portion 2 - LS - CKL Main Tunnel CP29 to CP32 (Road Level) - EB	0	01-Aug-25		02-Sep-24				
AC1090f	Portion 2 - LS - CKL Main Tunnel CP29 to CP32 (Service Gallery) - EB	0	01-Aug-25		21-Jan-25				
AC1090g	Portion 2 - LS - CKL Main Tunnel CP30 to CP32 (Road Level) - WB	0	01-Aug-25		17-Sep-24				
AC1090h	Portion 2 - LS - CKL Main Tunnel CP30 to CP32 (Service Gallery) - WB	0	01-Aug-25		21-Jan-25				
AC1090c	Portion 2 - LS - CKL Tunnel CP26 to CP30 (Road Level) - WB	0	15-Aug-25		27-Aug-24				
AC1080a	Portion 2 - LS - CKL Tunnel CP21 to CP26 (Road Level) - EB	0	15-Sep-25		09-Sep-24				
AC1090a	Portion 2 - LS - CKL Tunnel CP26 to CP29 (Road Level) - EB	0	15-Sep-25		07-Sep-24				
AC1120a	Portion 2 - LS - CKL Final Connection (Service Gallery) - WB	0	15-Sep-25		01-Mar-25				
AC1120	Portion 2 - LS - CKL Final Connection (Road Level) - WB	0	30-Sep-25		25-Sep-24				
AC1090b	Portion 2 - LS - CKL Tunnel CP26 to CP29 (Service Gallery) - EB	0	15-Oct-25		17-Jan-25				
Milestones of Contract T2		0	01-Aug-25	01-Aug-25	27-Mar-25	27-Mar-25			
KD1050	Commencement of Project-wide FSD Inspection - Contract T2	0	01-Aug-25		27-Mar-25				
Summary by Cost Center		527	01-Aug-25	01-Jun-26	19-Feb-24	30-May-25	01-Apr-24		
Cost Center B - Central System		108	01-Aug-25	08-Dec-25	16-Aug-24	11-Apr-25			
SC1090	SAT Plan Submission & Approval for Central System	78	01-Aug-25	03-Nov-25	07-Jan-25	11-Apr-25			DS3500: SS
SC1080	Site Installation of Central System	95	16-Aug-25	08-Dec-25	16-Aug-24	22-Jan-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS

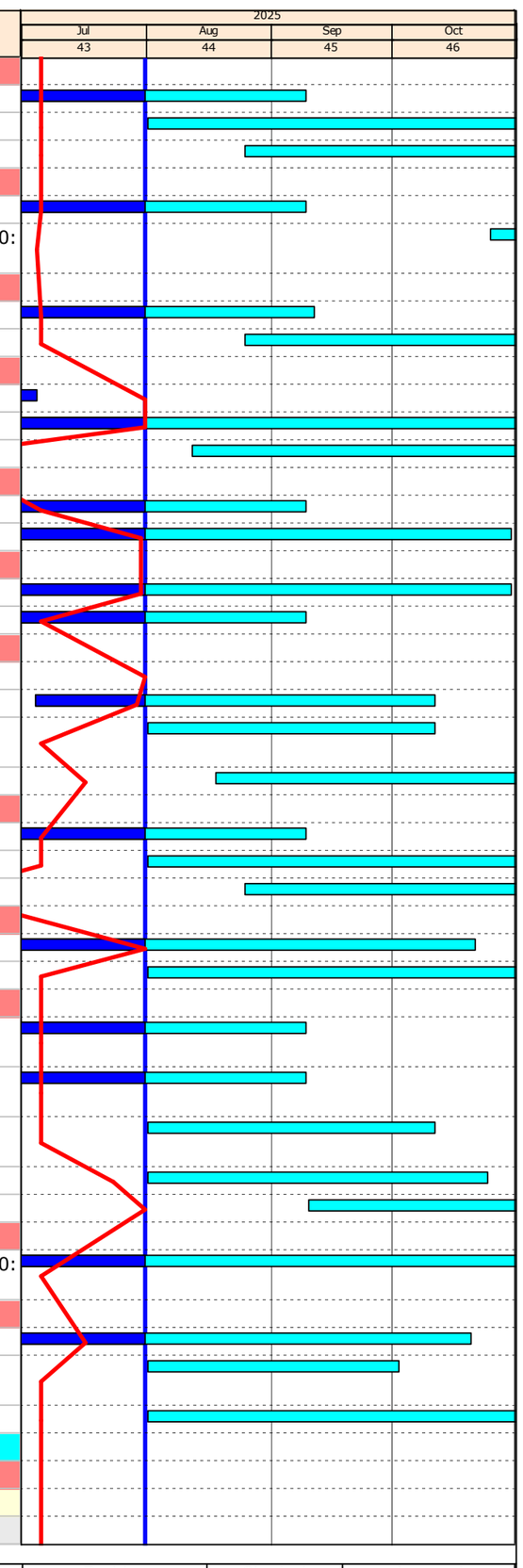


Remaining Work ◆ Milestone
Critical Activity
Actual Work

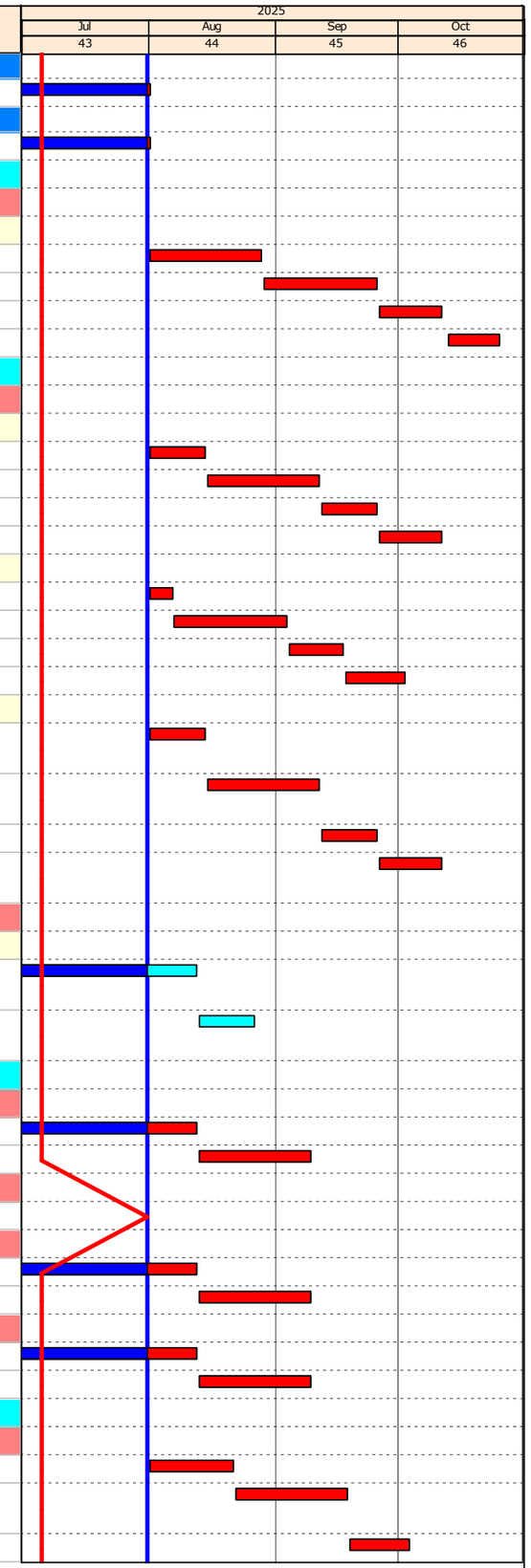
Date	Revision	Checked	Approved
31-Jul-25	Rev. 0	MY	

GTECH Services (Hong Kong) Limited

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Cost Center C - Traffic Control Devices		442	01-Aug-25	14-Mar-26	11-Jul-24	29-May-25	23-Sep-24		
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	0	01-Aug-25	09-Sep-25	23-Sep-24	22-Feb-25	23-Sep-24		DS2980: SS
SC1220	SAT Plan Submission & Approval for Traffic Control Devices	84	01-Aug-25	10-Nov-25	30-Dec-24	11-Apr-25			DS3540: SS
SC1210	Site Installation of Traffic Control Devices	166	25-Aug-25	14-Mar-26	11-Jul-24	29-May-25			SW1110: SS
Cost Center D - Communication System		310	01-Aug-25	09-Dec-25	16-Aug-24	22-Jan-25	28-Nov-24		
SC1350	SAT Plan Submission & Approval for Communication System	0	01-Aug-25	09-Sep-25	28-Nov-24	31-Dec-24	28-Nov-24		DS3580: SS
SC1330	Site Installation of Communication System	38	25-Oct-25	09-Dec-25	16-Aug-24	22-Jan-25			SW1100: SS, SW1120: SS, SW1960: SS
Cost Center E - CCTV System		306	01-Aug-25	24-Nov-25	13-Sep-24	29-May-25	18-Nov-24		
SC1480	SAT Plan Submission & Approval for CCTV System	0	01-Aug-25	11-Sep-25	18-Nov-24	28-Mar-25	18-Nov-24		DS3620: SS
SC1470	Site Installation of CCTV System	76	25-Aug-25	24-Nov-25	13-Sep-24	29-May-25			SW1060: SS, SW1940: SS
Cost Center F - PABX System		474	01-Aug-25	01-Jun-26	30-Dec-24	21-May-25	01-Nov-24		
SC1610	SAT Plan Submission & Approval for PABX System	0					01-Nov-24	04-Jul-25	DS3660: SS
SC1590	Site Installation of PABX System	120	01-Aug-25	11-Nov-25	30-Dec-24	07-Apr-25	30-Dec-24		SW2380: SS
SC1620	SCT of PABX System	241	12-Aug-25	01-Jun-26	28-Jan-25	21-May-25			SW2770: SS, SW2770a: SS
Cost Center G - ET System		251	01-Aug-25	30-Oct-25	27-Dec-24	21-Apr-25	27-Dec-24		
SC1740	SAT Plan Submission & Approval for ET System	0	01-Aug-25	09-Sep-25	27-Dec-24	21-Apr-25	27-Dec-24		DS3700: SS
SC1720	Site Installation of ET System	74	01-Aug-25	30-Oct-25	15-Feb-25	22-Feb-25	15-Feb-25		SW2340: SS
Cost Center H - PA System		190	01-Aug-25	30-Oct-25	01-Nov-24	07-May-25	01-Nov-24		
SC1860	Site Installation of PA System	130	01-Aug-25	30-Oct-25	01-Nov-24	31-Mar-25	01-Nov-24		SW2370: SS, SW3170: FS
SC1870	SAT Plan Submission & Approval for PA System	0	01-Aug-25	09-Sep-25	18-Nov-24	07-May-25	18-Nov-24		DS3740: SS
Cost Center I - Radio System		378	01-Aug-25	05-Dec-25	22-Apr-24	21-Apr-25	03-Sep-24		
SC1980	SCT Plan Submission & Approval for Radio System	0					03-Sep-24	30-Jun-25	DS3220: SS
SC2000	SAT Plan Submission & Approval for Radio System	84	01-Aug-25	11-Oct-25	21-Apr-25	21-Apr-25	04-Jul-25		DS3780: SS
SC1930	Installation Drawing Preparation, Submission & Approval for Radio System	60	01-Aug-25	11-Oct-25	22-Apr-24	06-Feb-25			DS6130: SS
SC1990	Site Installation of Radio System	92	18-Aug-25	05-Dec-25	12-Nov-24	22-Feb-25			SW2390: SS
Cost Center J - Detection System		399	01-Aug-25	03-Mar-26	31-Aug-24	30-May-25	02-Nov-24		
SC2110	SCT Plan Submission & Approval for Detection System	0	01-Aug-25	09-Sep-25	02-Nov-24	17-Jan-25	02-Nov-24		DS3260: SS
SC2130	SAT Plan Submission & Approval for Detection System	84	01-Aug-25	10-Nov-25	04-Jan-25	16-Apr-25			DS3820: SS
SC2120	Site Installation of Detection System	156	25-Aug-25	03-Mar-26	31-Aug-24	30-May-25			SW1070: SS, SW1250: SS
Cost Center K - Manual Fallback System		258	01-Aug-25	10-Nov-25	12-Nov-24	22-Feb-25	31-Dec-24		
SC2240	Site Installation of Manual Fallback System	0	01-Aug-25	21-Oct-25	25-Nov-24	25-Nov-24	31-Dec-24		EM1110: FS
SC2270	SAT Plan Submission & Approval for Manual Fallback System	84	01-Aug-25	10-Nov-25	12-Nov-24	22-Feb-25			DS3860: SS
Cost Center L - Speed Enforcement System		413	01-Aug-25	12-Jan-26	19-Feb-24	21-May-25	28-Aug-24		
SC2370	SCT Plan Submission & Approval for Speed Enforcement System	98	01-Aug-25	09-Sep-25	28-Aug-24	22-Mar-25	28-Aug-24		DS3380: SS
SC2380	Reliability Test Plan Submission & Approval for Speed Enforcement System	84	01-Aug-25	09-Sep-25	21-Dec-24	11-Apr-25	21-Dec-24		DS3940: SS
SC2340	Installation Drawing Preparation, Submission & Approval for Speed Enforcement System	60	01-Aug-25	11-Oct-25	19-Feb-24	10-Mar-25			DS6290: SS
SC2390	Site Installation of Speed Enforcement System	71	01-Aug-25	24-Oct-25	10-Dec-24	22-Mar-25			SW2330: SS
SC2400	SCT of Speed Enforcement System	102	10-Sep-25	12-Jan-26	24-Mar-25	21-May-25			DS8860: FS
Cost Center M - Power Distribution System		98	01-Aug-25	01-Dec-25	01-Apr-24	21-Mar-25	01-Apr-24		
SC2480	Site Installation of Power Distribution System	98	01-Aug-25	01-Dec-25	01-Apr-24	21-Mar-25	01-Apr-24		SW1920: SS, SW2250: SS, SW1650: SS
Operation Facilities		257	01-Aug-25	10-Nov-25	19-Aug-24	11-Apr-25	31-Dec-24		
SC2680	Site Installation of Operation Facilities	0	01-Aug-25	20-Oct-25	07-Nov-24	07-Nov-24	31-Dec-24		EM1120: FS
SC2630	Installation Drawing Preparation, Submission & Approval for Operation Facilities	53	01-Aug-25	02-Oct-25	19-Aug-24	22-Oct-24			DS6250: SS
SC2710	SAT Plan Submission & Approval for Operation Facilities	84	01-Aug-25	10-Nov-25	30-Dec-24	11-Apr-25			DS3900: SS
Design & Submissions		304	01-Aug-25	01-Aug-25	27-Aug-24	25-Jun-25	29-Aug-23		
FSP Submissions (42 Working Days after Commencement of FSP)		304	01-Aug-25	01-Aug-25	27-Aug-24	25-Jun-25	29-Aug-23		
FSP Batch 1 Submission		304	01-Aug-25	01-Aug-25	27-Aug-24	25-Jun-25	29-Aug-23		
Central System		304	01-Aug-25	01-Aug-25	27-Aug-24	25-Jun-25	29-Aug-23		



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Traffic Plan Review & Combine		140	01-Aug-25	01-Aug-25	27-Aug-24	27-Aug-24	28-Dec-23		
DS7300	Traffic Plan Review & Combine Workshop	140	01-Aug-25	01-Aug-25	27-Aug-24	27-Aug-24	28-Dec-23		DS1830: FS 22
IT Security Risk Assessment Plan		30	01-Aug-25	01-Aug-25	25-Jun-25	25-Jun-25	29-Aug-23		
DS7440	Approval on IT Security Risk Assessment Plan	30	01-Aug-25	01-Aug-25	25-Jun-25	25-Jun-25	29-Aug-23		DS7430: FS
Interface Coordination & Integration with Other Parties		72	01-Aug-25	25-Oct-25	06-Apr-24	03-Jul-24			
Interfacing Coordination with T2		72	01-Aug-25	25-Oct-25	06-Apr-24	03-Jul-24			
Preliminary Interfacing Management Plan (PIMP)		72	01-Aug-25	25-Oct-25	06-Apr-24	03-Jul-24			
DS6890	Prepare & Submit PIMP with T2	24	01-Aug-25	28-Aug-25	06-Apr-24	04-May-24			DS2680: FS 211
DS6900	Comment on PIMP with T2	24	29-Aug-25	25-Sep-25	06-May-24	03-Jun-24			DS6890: FS
DS6910	Resubmit PIMP with T2	12	26-Sep-25	11-Oct-25	04-Jun-24	18-Jun-24			DS6900: FS
DS6920	Approval of PIMP with T2	12	13-Oct-25	25-Oct-25	19-Jun-24	03-Jul-24			DS6910: FS
Drawing & Installation Method Statement Submissions		537	01-Aug-25	11-Oct-25	19-Feb-24	31-Oct-26	10-Aug-23		
Installation Drawing Submission		60	01-Aug-25	11-Oct-25	19-Feb-24	10-Mar-25			
Radio System		60	01-Aug-25	11-Oct-25	22-Apr-24	06-Feb-25			
DS6130	Prepare & Submit Installation Drawing for Radio System	12	01-Aug-25	14-Aug-25	22-Apr-24	06-May-24			DS2154: FS
DS6140	Comment on Installation Drawing for Radio System	24	15-Aug-25	11-Sep-25	07-Dec-24	06-Jan-25			DS6130: FS
DS6150	Resubmit Installation Drawing for Radio System	12	12-Sep-25	25-Sep-25	07-Jan-25	20-Jan-25			DS6140: FS
DS6160	Approval of Installation Drawing for Radio System	12	26-Sep-25	11-Oct-25	21-Jan-25	06-Feb-25			DS6150: FS, SC1930: FF
Operation Facility		53	01-Aug-25	02-Oct-25	19-Aug-24	22-Oct-24			
DS6250	Prepare & Submit Installation Drawing for Operation Facility	5	01-Aug-25	06-Aug-25	19-Aug-24	23-Aug-24			DS2532: FS
DS6260	Comment on Installation Drawing for Operation Facility	24	07-Aug-25	03-Sep-25	24-Aug-24	21-Sep-24			DS6250: FS
DS6270	Resubmit Installation Drawing for Operation Facility	12	04-Sep-25	17-Sep-25	23-Sep-24	07-Oct-24			DS6260: FS
DS6280	Approval of Installation Drawing for Operation Facility	12	18-Sep-25	02-Oct-25	08-Oct-24	22-Oct-24			DS6270: FS, SC2630: FF
Speed Enforcement System		60	01-Aug-25	11-Oct-25	19-Feb-24	10-Mar-25			
DS6290	Prepare & Submit Installation Drawing for Speed Enforcement System	12	01-Aug-25	14-Aug-25	19-Feb-24	02-Mar-24			DS2472: FS
DS6300	Comment on Installation Drawing for Speed Enforcement System	24	15-Aug-25	11-Sep-25	10-Jan-25	10-Feb-25			DS6290: FS
DS6310	Resubmit Installation Drawing for Speed Enforcement System	12	12-Sep-25	25-Sep-25	11-Feb-25	24-Feb-25			DS6300: FS
DS6320	Approval of Installation Drawing for Speed Enforcement System	12	26-Sep-25	11-Oct-25	25-Feb-25	10-Mar-25			DS6310: FS, SC2340: FF
Installation Method Statement Submission		499	01-Aug-25	26-Aug-25	06-Oct-26	31-Oct-26	10-Aug-23		
Power Distribution System		499	01-Aug-25	26-Aug-25	06-Oct-26	31-Oct-26	10-Aug-23		
DS6550	Resubmit Installation Method Statement for Power Distribution System	6	01-Aug-25	12-Aug-25	06-Oct-26	16-Oct-26	10-Aug-23		DS6540: FS
DS6560	Approval of Installation Method Statement for Power Distribution System	12	13-Aug-25	26-Aug-25	17-Oct-26	31-Oct-26			DS6550: FS
SCT Plan Submissions		386	01-Aug-25	09-Sep-25	07-Dec-24	22-Mar-25	24-Dec-24		
Traffic Control Devices		361	01-Aug-25	09-Sep-25	11-Jan-25	22-Feb-25	11-Feb-25		
DS8910	Resubmission of SCT Plan for Traffic Control Devices	12	01-Aug-25	12-Aug-25	11-Jan-25	22-Jan-25	11-Feb-25		DS3010: FS
DS8920	Approval of SCT Plan for Traffic Control Devices	24	13-Aug-25	09-Sep-25	23-Jan-25	22-Feb-25			DS8910: FS, SC1200: FF
Radio System		24					12-Jun-25	30-Jun-25	
DS9080	Approval of SCT Plan for Radio System	24					12-Jun-25	30-Jun-25	SC1980: FF, DS9070: FS
Detection System		38	01-Aug-25	09-Sep-25	07-Dec-24	17-Jan-25	24-Jun-25		
DS9150	Resubmission of SCT Plan for Detection System	12	01-Aug-25	12-Aug-25	07-Dec-24	18-Dec-24	24-Jun-25		DS9100: FS
DS9160	Approval of SCT Plan for Detection System	24	13-Aug-25	09-Sep-25	19-Dec-24	17-Jan-25			SC2110: FF, DS9150: FS
Speed Enforcement System		386	01-Aug-25	09-Sep-25	12-Feb-25	22-Mar-25	24-Dec-24		
DS8850	Resubmission of SCT Plan for Speed Enforcement System	12	01-Aug-25	12-Aug-25	12-Feb-25	22-Feb-25	24-Dec-24		DS3410: FS
DS8860	Approval of SCT Plan for Speed Enforcement System	24	13-Aug-25	09-Sep-25	24-Feb-25	22-Mar-25			DS8850: FS, SC2370: FF
SAT Plan Submissions		428	01-Aug-25	10-Nov-25	09-Nov-24	07-May-25	14-Jan-25		
Central System		78	01-Aug-25	03-Nov-25	07-Jan-25	11-Apr-25			
DS3500	Submission of Central System SAT Plan	18	01-Aug-25	21-Aug-25	07-Jan-25	27-Jan-25			DS2940: FS
DS3510	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	22-Aug-25	18-Sep-25	28-Jan-25	27-Feb-25			DS3500: FS
DS3520	Resubmission of SAT Plan for Central System	12	19-Sep-25	03-Oct-25	28-Feb-25	13-Mar-25			DS3510: FS



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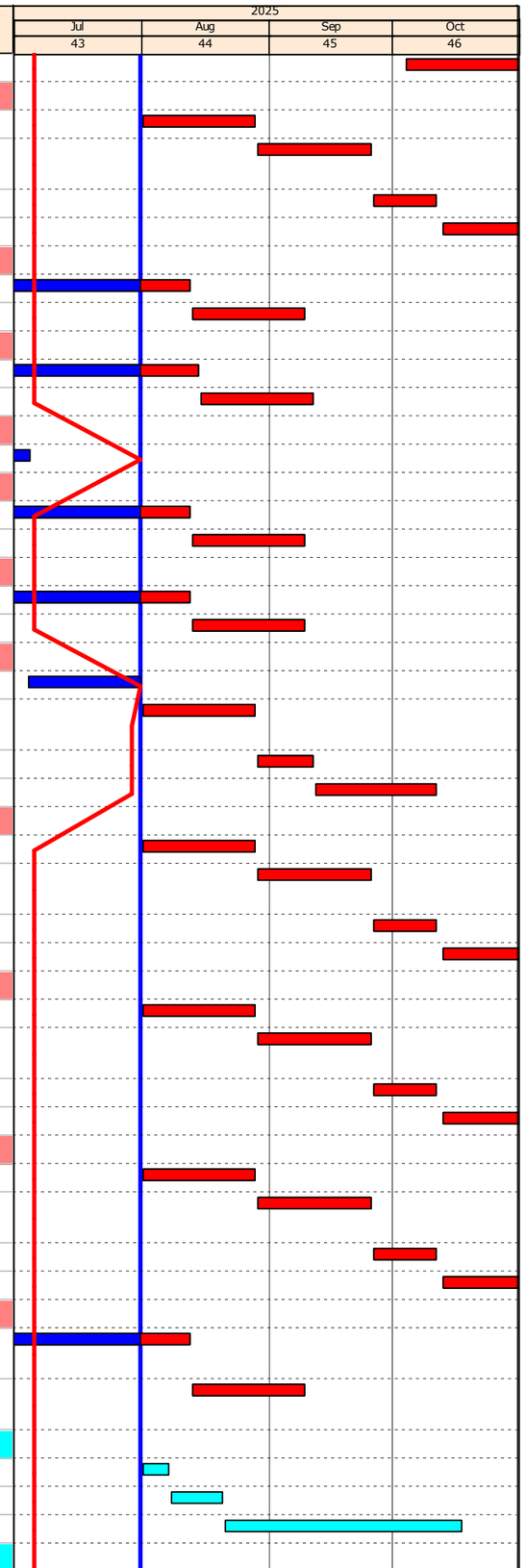
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
DS3530	Approval of SAT Plan for Central System	24	04-Oct-25	03-Nov-25	14-Mar-25	11-Apr-25			SC1090: FF, DS3520: FS
Traffic Control Devices		84	01-Aug-25	10-Nov-25	30-Dec-24	11-Apr-25			
DS3540	Submission of Traffic Control Devices System SAT Plan	24	01-Aug-25	28-Aug-25	30-Dec-24	27-Jan-25			DS2980: FS
DS3550	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-25	25-Sep-25	28-Jan-25	27-Feb-25			DS3540: FS
DS3560	Resubmission of SAT Plan for Traffic Control Devices	12	26-Sep-25	11-Oct-25	28-Feb-25	13-Mar-25			DS3550: FS
DS3570	Approval of SAT Plan for Traffic Control Devices	24	13-Oct-25	10-Nov-25	14-Mar-25	11-Apr-25			SC1220: FF, DS3560: FS
Communication System		378	01-Aug-25	09-Sep-25	21-Nov-24	31-Dec-24	30-Apr-25		
DS9110	Resubmission of SAT Plan for Communication System	12	01-Aug-25	12-Aug-25	21-Nov-24	02-Dec-24	30-Apr-25		DS3610: FS
DS9120	Approval of SAT Plan for Communication System	24	13-Aug-25	09-Sep-25	03-Dec-24	31-Dec-24			SC1350: FF, DS9110: FS
CCTV System		364	01-Aug-25	11-Sep-25	15-Feb-25	28-Mar-25	14-Jan-25		
DS3640	Resubmission of SAT Plan for CCTV System	12	01-Aug-25	14-Aug-25	15-Feb-25	28-Feb-25	14-Jan-25		DS3630: FS
DS3650	Approval of SAT Plan for CCTV System	24	15-Aug-25	11-Sep-25	01-Mar-25	28-Mar-25			SC1480: FF, DS3640: FS
PABX System		24					20-Jun-25	04-Jul-25	
DS9060	Approval of SAT Plan for PABX System	24					20-Jun-25	04-Jul-25	SC1610: FF, DS9050: FS
ET System		136	01-Aug-25	09-Sep-25	12-Mar-25	21-Apr-25	19-Feb-25		
DS3720	Resubmission of SAT Plan for ET System	12	01-Aug-25	12-Aug-25	12-Mar-25	22-Mar-25	19-Feb-25		DS3710: FS
DS3730	Approval of SAT Plan for ET System	24	13-Aug-25	09-Sep-25	24-Mar-25	21-Apr-25			SC1740: FF, DS3720: FS
PA System		338	01-Aug-25	09-Sep-25	26-Mar-25	07-May-25	11-Apr-25		
DS9130	Resubmission of SAT Plan for PA System	12	01-Aug-25	12-Aug-25	26-Mar-25	07-Apr-25	11-Apr-25		DS3770: FS
DS9140	Approval of SAT Plan for PA System	24	13-Aug-25	09-Sep-25	08-Apr-25	07-May-25			SC1870: FF, DS9130: FS
Radio System		60	01-Aug-25	11-Oct-25	09-Nov-24	21-Apr-25	04-Jul-25		
DS3780	Submission of Radio System SAT Plan	24					04-Jul-25	31-Jul-25	DS3220: FS 48
DS3790	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	01-Aug-25	28-Aug-25	09-Nov-24	06-Dec-24			DS3780: FS
DS3800	Resubmission of SAT Plan for Radio System	12	29-Aug-25	11-Sep-25	10-Mar-25	22-Mar-25			DS3790: FS
DS3810	Approval of SAT Plan for Radio System	24	12-Sep-25	11-Oct-25	24-Mar-25	21-Apr-25			SC2000: FF, DS3800: FS
Detection System		84	01-Aug-25	10-Nov-25	04-Jan-25	16-Apr-25			
DS3820	Submission of Detection System SAT Plan	24	01-Aug-25	28-Aug-25	04-Jan-25	04-Feb-25			DS3260: FS 72
DS3830	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-25	25-Sep-25	05-Feb-25	04-Mar-25			DS3820: FS
DS3840	Resubmission of SAT Plan for Detection System	12	26-Sep-25	11-Oct-25	05-Mar-25	18-Mar-25			DS3830: FS
DS3850	Approval of SAT Plan for Detection System	24	13-Oct-25	10-Nov-25	19-Mar-25	16-Apr-25			SC2130: FF, DS3840: FS
Manual Fallback Control System		84	01-Aug-25	10-Nov-25	12-Nov-24	22-Feb-25			
DS3860	Submission of Manual Fallback Control System SAT Plan	24	01-Aug-25	28-Aug-25	12-Nov-24	09-Dec-24			DS3300: FS
DS3870	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-25	25-Sep-25	10-Dec-24	08-Jan-25			DS3860: FS
DS3880	Resubmission of SAT Plan for Manual Fallback Control System	12	26-Sep-25	11-Oct-25	09-Jan-25	22-Jan-25			DS3870: FS
DS3890	Approval of SAT Plan for Manual Fallback Control System	24	13-Oct-25	10-Nov-25	23-Jan-25	22-Feb-25			SC2270: FF, DS3880: FS
Operation Facility		84	01-Aug-25	10-Nov-25	30-Dec-24	11-Apr-25			
DS3900	Submission of Operation Facility SAT Plan	24	01-Aug-25	28-Aug-25	30-Dec-24	27-Jan-25			DS3340: FS
DS3910	Comment on SAT Plan/ Workshops (System Briefing & Comment Discussion)	24	29-Aug-25	25-Sep-25	28-Jan-25	27-Feb-25			DS3900: FS
DS3920	Resubmission of SAT Plan for Operation Facility	12	26-Sep-25	11-Oct-25	28-Feb-25	13-Mar-25			DS3910: FS
DS3930	Approval of SAT Plan for Operation Facility	24	13-Oct-25	10-Nov-25	14-Mar-25	11-Apr-25			SC2710: FF, DS3920: FS
Speed Enforcement System		61	01-Aug-25	09-Sep-25	03-Mar-25	11-Apr-25	22-Feb-25		
DS3960	Resubmission of Reliability Test Plan for Speed Enforcement System	12	01-Aug-25	12-Aug-25	03-Mar-25	13-Mar-25	22-Feb-25		DS3950: FS
DS3970	Approval of Reliability Test Plan for Speed Enforcement System	24	13-Aug-25	09-Sep-25	14-Mar-25	11-Apr-25			SC2380: FF, DS3960: FS
Training Document & O&M Manual Submission for T2/TKOLTT TCSS		65	01-Aug-25	17-Oct-25	06-Jun-26	22-Aug-26			
DS3980	Submit Document for System Description	6	01-Aug-25	07-Aug-25	06-Jun-26	12-Jun-26			DS3580: SS 30
DS4010	Submit System Administration Manual	11	08-Aug-25	20-Aug-25	13-Jun-26	26-Jun-26			DS3980: FS
DS4020	Submit Training Manual	48	21-Aug-25	17-Oct-25	27-Jun-26	22-Aug-26			DS4010: FS
Site Installation and Testing & Commissioning		510	01-Aug-25	10-Jan-26	02-Apr-24	31-Oct-26	01-Apr-24		



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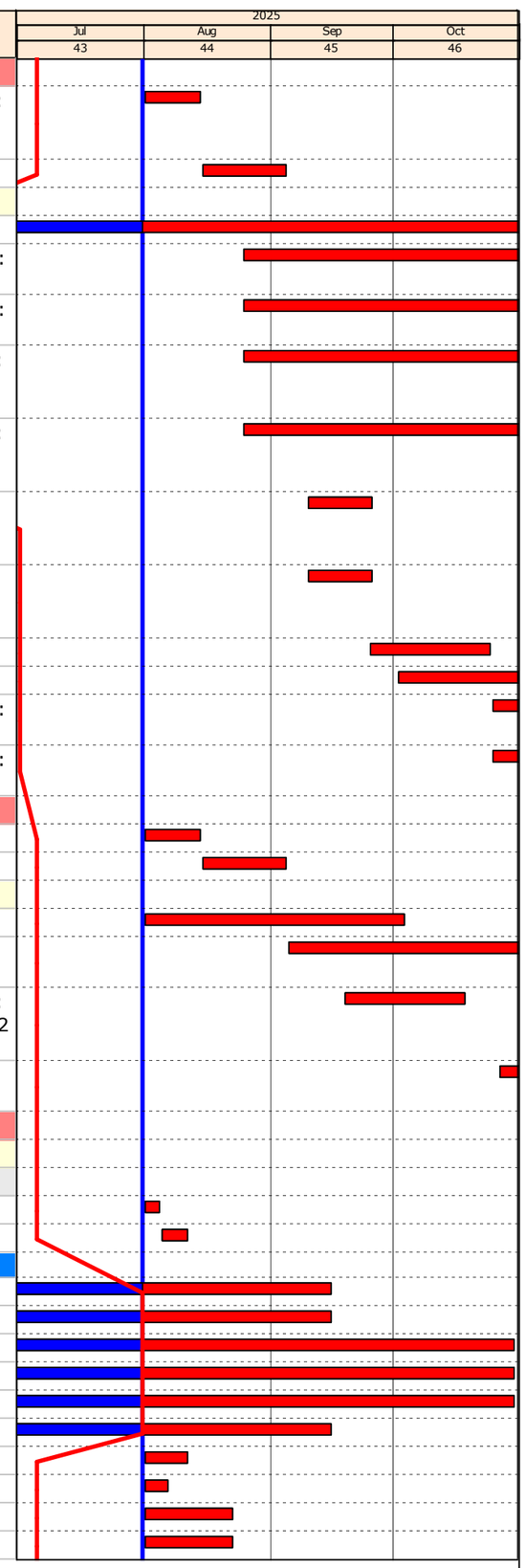
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Portion 4 - TKO-LTT (LT Interchange)		149	01-Aug-25	10-Jan-26	02-Apr-24	03-Feb-25	30-Jun-25		
SW1020	Inpect Civil Provisions & Submit Inspection Report	12	01-Aug-25	14-Aug-25	02-Apr-24	16-Apr-24			DS6600: FS, DS6680: FS, DS6760: FS, DS6840: FS, AC1030: SS
SW1030	Rectify Civil Provision Defects by Others	18	15-Aug-25	04-Sep-25	17-Apr-24	08-May-24			SW1020: FS
Installation Works		149	01-Aug-25	10-Jan-26	26-Apr-24	03-Feb-25	30-Jun-25		
SW1080	Laying of Signal Cable - the 1st Section	38	01-Aug-25	11-Nov-25	13-May-24	22-Aug-24	30-Jun-25		DS8480: FS, DS8580: FS
SW1040	Install Cable Containments	98	25-Aug-25	19-Dec-25	26-Apr-24	22-Aug-24			DS6400: FS, DS6540: FS, SW1030: SS 8
SW1060	Install CCTV Camera	115	25-Aug-25	10-Jan-26	13-Sep-24	03-Feb-25			DS4090: FS, DS6440: FS, SW1040: SS, SW1930: SS
SW1070	Install Detection Camera	115	25-Aug-25	10-Jan-26	31-Aug-24	17-Jan-25			DS4490: FS, DS6440: FS, DS7500: FS, SW1040: SS, SW1930: SS
SW1110	Install Traffic Control Devices	115	25-Aug-25	10-Jan-26	11-Jul-24	25-Nov-24			DS2810: FS, EM1650: FS, DS8250: FS, SW1040: SS, SW1930: SS
SW1130	Install VSLS on Gantry	14	10-Sep-25	25-Sep-25	02-Sep-24	17-Sep-24			SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, SW1040: SS 14
SW1140	Install PVMS on Gantry	14	10-Sep-25	25-Sep-25	04-Jul-24	19-Jul-24			SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS, SW1040: SS 14
SW1050	Install Equipment Racks	24	25-Sep-25	24-Oct-25	19-Jul-24	15-Aug-24			SW1140: SS 13, SW1030: FS
SW1170	Install Manual Barriers	24	02-Oct-25	31-Oct-25	29-Oct-24	25-Nov-24			SW1130: FS, SW1140: SS 18
SW1100	Install Server Equipment	36	25-Oct-25	06-Dec-25	16-Aug-24	27-Sep-24			DS4440: FS, DS4340: FS, SW1050: FS
SW1120	Install Equipment in Kiosk C	12	25-Oct-25	08-Nov-25	13-Sep-24	27-Sep-24			DS4340: FS, DS4440: FS, SW1050: FS
Portion 1 - South Apron Up to SUS		96	01-Aug-25	24-Nov-25	31-May-24	25-Nov-24			
SW1210	Inspect Civil Provisions & Submit Inspection Report	12	01-Aug-25	14-Aug-25	31-May-24	14-Jun-24			AC1000: SS
SW1220	Rectify Civil Provision Defects by Others	18	15-Aug-25	04-Sep-25	15-Jun-24	06-Jul-24			SW1210: FS
Installation Works		96	01-Aug-25	24-Nov-25	18-Jul-24	25-Nov-24			
SW1350	Signal Cable Laying - the 2nd Section	54	01-Aug-25	03-Oct-25	21-Sep-24	25-Nov-24			SW1260: FS 33
SW1230	Install Cable Containments - the 1st Section	48	05-Sep-25	03-Nov-25	18-Jul-24	11-Sep-24			SC2480: FF, DS6404: FS, DS6540: FS, SW1220: FS
SW1250	Install Detection Cameras	24	19-Sep-25	18-Oct-25	07-Oct-24	04-Nov-24			DS4490: FS, DS6440: FS, DS7500: FS, SW1230: SS 12, SW2000: SS 12
SW1240	Install CCTV Camera	24	27-Oct-25	24-Nov-25	07-Oct-24	04-Nov-24			SC1470: FF, DS4090: FS, DS6440: FS, SW1230: SS 42
Portion 2 - Tunnel Section, Service Gallery, WVB & EVB		489	01-Aug-25	15-Dec-25	10-Aug-24	31-Oct-26	01-Apr-24		
Tunnel Section		258	01-Aug-25	15-Dec-25	17-Aug-24	21-May-25	25-Feb-25		
Tunnel Section - LSCC to CP7		71	01-Aug-25	30-Oct-25	20-Sep-24	07-Apr-25	24-Mar-25		
SW3080	Inspect Civil Provisions & Submit Inspection Report	3	01-Aug-25	04-Aug-25	20-Sep-24	23-Sep-24			AC1010a: SS
SW3090	Rectify Civil Provision Defects by Others	6	05-Aug-25	11-Aug-25	24-Sep-24	30-Sep-24			SW3080: FS
East Bound		71	01-Aug-25	30-Oct-25	02-Oct-24	07-Apr-25	24-Mar-25		
SW2461	Signal Cable Laying and Termination (WVB to CP7) (CP Side)	12	01-Aug-25	15-Sep-25	10-Oct-24	25-Nov-24	24-Mar-25		SW1260: SS
SW2463	Install GOFS (WVB to CP7)	12	01-Aug-25	15-Sep-25	10-Oct-24	25-Nov-24	24-Mar-25		SW2461: SS
SW2990	Install CCTV Camera	19	01-Aug-25	30-Oct-25	26-Nov-24	26-Feb-25	15-May-25		AC1010g: SS
SW3000	Install Detection Camera	18	01-Aug-25	30-Oct-25	21-Oct-24	17-Jan-25	15-May-25		AC1010g: SS
SW3030	Install Traffic Control Devices	9	01-Aug-25	30-Oct-25	22-Nov-24	22-Feb-25	15-May-25		AC1010g: SS
SW2462	Signal Cable Laying and Termination (WVB to CP7) (NCP Side)	12	01-Aug-25	15-Sep-25	10-Oct-24	25-Nov-24	27-May-25		SW2461: SS
SW2980a	Install Cable Containment (NCP Side)	9	01-Aug-25	11-Aug-25	02-Oct-24	12-Oct-24			AC1010h: SS, AC1010h: SF
SW3020a	Install ET (Service Gallery)	5	01-Aug-25	06-Aug-25	18-Feb-25	22-Feb-25			AC1010i: SS
SW3050	Install PA in Service Gallery	19	01-Aug-25	22-Aug-25	15-Mar-25	07-Apr-25			AC1010i: SS
SW3060	Install PABX in Service Gallery	19	01-Aug-25	22-Aug-25	15-Mar-25	07-Apr-25			SW3050: SS, AC1010i: SS



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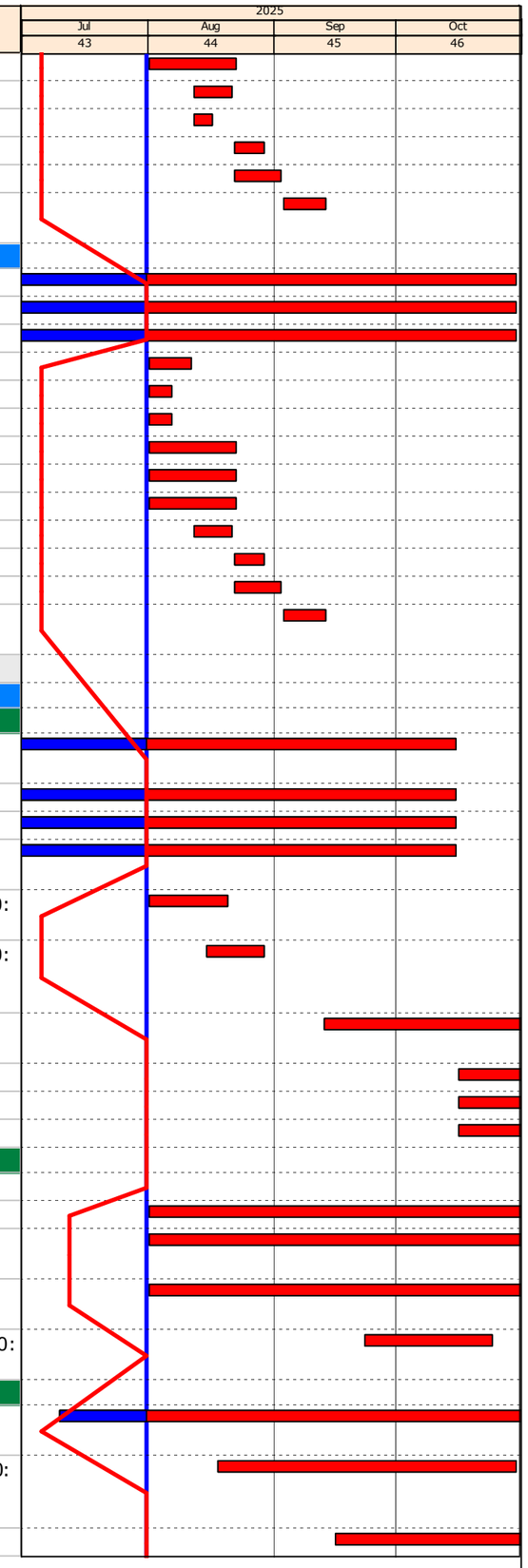
SW3070	Install Radio System in Service Gallery	19	01-Aug-25	22-Aug-25	01-Feb-25	22-Feb-25			AC1010i: SS
SW2980	Install Cable Containment (CP Side)	9	12-Aug-25	21-Aug-25	02-Oct-24	12-Oct-24			SW3090: FS, AC1010f: SS
SW3020	Install ET (Road Level)	5	12-Aug-25	16-Aug-25	18-Feb-25	22-Feb-25			SW2980a: FS, AC1010d: SS
SW3010	Install SEC Camera	7	22-Aug-25	29-Aug-25	15-Mar-25	22-Mar-25			SW2980: FS
SW3040	Install VSLS (CP Side)	10	22-Aug-25	02-Sep-25	28-Jan-25	11-Feb-25			AC1010d: SS, SW2980: FS
SW3040a	Install VSLS (NCP Side)	10	03-Sep-25	13-Sep-25	12-Feb-25	22-Feb-25			AC1010d: SS, SW3040: FS, SW2980a: FS
West Bound		71	01-Aug-25	30-Oct-25	02-Oct-24	07-Apr-25	15-May-25		
SW3110	Install CCTV Camera	19	01-Aug-25	30-Oct-25	26-Nov-24	26-Feb-25	15-May-25		AC1010c: SS
SW3120	Install Detection Camera	18	01-Aug-25	30-Oct-25	21-Oct-24	17-Jan-25	15-May-25		AC1010c: SS
SW3150	Install Traffic Control Devices	9	01-Aug-25	30-Oct-25	22-Nov-24	22-Feb-25	15-May-25		AC1010c: SS
SW3100a	Install Cable Containment (NCP Side)	9	01-Aug-25	11-Aug-25	02-Oct-24	12-Oct-24			AC1010b: SS
SW3140	Install ET (Road Level)	5	01-Aug-25	06-Aug-25	18-Feb-25	22-Feb-25			AC1010d: SS
SW3140a	Install ET (Service Gallery)	5	01-Aug-25	06-Aug-25	18-Feb-25	22-Feb-25			AC1010e: SS
SW3170	Install PA in Service Gallery	19	01-Aug-25	22-Aug-25	15-Feb-25	08-Mar-25			AC1010e: SS
SW3180	Install PABX in Service Gallery	19	01-Aug-25	22-Aug-25	15-Mar-25	07-Apr-25			AC1010e: SS
SW3190	Install Radio System in Service Gallery	19	01-Aug-25	22-Aug-25	01-Feb-25	22-Feb-25			AC1010e: SS
SW3100	Install Cable Containment (CP Side)	9	12-Aug-25	21-Aug-25	02-Oct-24	12-Oct-24			AC1010a: SS, SW3090: FS
SW3130	Install SEC Camera	7	22-Aug-25	29-Aug-25	15-Mar-25	22-Mar-25			SW3100: FS
SW3160	Install VSLS (CP Side)	10	22-Aug-25	02-Sep-25	28-Jan-25	11-Feb-25			SW3100: FS, AC1010d: SS
SW3160a	Install VSLS (NCP Side)	10	03-Sep-25	13-Sep-25	12-Feb-25	22-Feb-25			SW3100a: FS, SW3160: FS, AC1010d: SS
Tunnel Section - CP7 to CP11		140	01-Aug-25	15-Dec-25	17-Aug-24	21-May-25	02-Jun-25		
East Bound		140	01-Aug-25	15-Dec-25	06-Sep-24	21-May-25	02-Jun-25		
CP Side		89	01-Aug-25	15-Nov-25	25-Nov-24	21-May-25	23-Jun-25		
SW2330a	SEC Camera - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	20-Jan-25	17-Apr-25	23-Jun-25		SW2330: SS
SW2340b	ET - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	26-Nov-24	22-Feb-25	23-Jun-25		SW2340: SS, SW2330a: SS
SW2360a	VSLS - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	26-Nov-24	22-Feb-25	23-Jun-25		SW2330a: SS
SW4060a	TCSS Cabinet - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	25-Nov-24	21-Feb-25	23-Jun-25		SW4060: SS, SW2330a: SS
SW2330	Install SEC Camera - CP7 to CP11	17	01-Aug-25	20-Aug-25	10-Dec-24	30-Dec-24			EM1130: FS, DS7410: FS, SW2300: FS, AC1050d: SS
SW2360	Install VSLS - CP7 to CP11	13	15-Aug-25	29-Aug-25	24-Dec-24	09-Jan-25			SW2300: FS, DS2810: FS, EM1650: FS, DS8250: FS, AC1050g: SS, SW2330: SS 12
SW2330b	SEC Camera - Physical Inspection and Function Test - CP7 to CP21	50	13-Sep-25	13-Nov-25	18-Mar-25	21-May-25			SW2330a: FF 24
SW2340c	ET - Physical Inspection and Function Test - CP7 to CP21	25	16-Oct-25	14-Nov-25	19-Mar-25	17-Apr-25			SW2340b: FS
SW2360b	VSLS - Physical Inspection and Function Test - CP7 to CP21	26	16-Oct-25	15-Nov-25	16-Apr-25	21-May-25			SW2360a: FS
SW4060a	TCSS Cabinet - Physical Inspection - CP7 to CP21	25	16-Oct-25	14-Nov-25	22-Feb-25	22-Mar-25			SW4060a: FS
OHVD		106	01-Aug-25	05-Nov-25	06-Sep-24	22-Feb-25	02-Jun-25		
SW4080	Install LCX Bracket - CP7 to CP11	25					02-Jun-25	30-Jun-25	AC1050b: SS
SW2310a	CCTV - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	80	01-Aug-25	05-Nov-25	04-Oct-24	08-Jan-25			SW2310: FS, SW2340d: SS
SW2320a	Detection Camera - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	80	01-Aug-25	05-Nov-25	06-Sep-24	11-Dec-24			SW2320: FS, SW2340d: SS
SW2350a	Traffic Control Devices - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	80	01-Aug-25	05-Nov-25	30-Sep-24	04-Jan-25			SW2350: FS, SW2340d: SS
SW4090	Install LCX Cable - CP7 to CP11	26	23-Sep-25	24-Oct-25	10-Jan-25	22-Feb-25			SW4080: FS, SW4170: FS, SW4270: FS
Service Gallery		114	01-Aug-25	15-Dec-25	06-Sep-24	24-Mar-25	10-Jul-25		
SW2340d	ET - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	94	01-Aug-25	29-Nov-25	06-Sep-24	07-Jan-25	10-Jul-25		SW2340a: FS, SW2480a: FS, SW2340b: SS 14
SW2390	Install LCX Bracket - CP7 to CP21	61	18-Aug-25	30-Oct-25	12-Nov-24	23-Jan-25			SW2310: SS, DS4390: FS, DS6520: FS, AC1050e: SS, SW2340a: FS, SW2340d: SS 33
SW2390a	Install LCX Cable - CP7 to CP21	61	16-Sep-25	28-Nov-25	11-Dec-24	07-Mar-25			SW2390: SS 25



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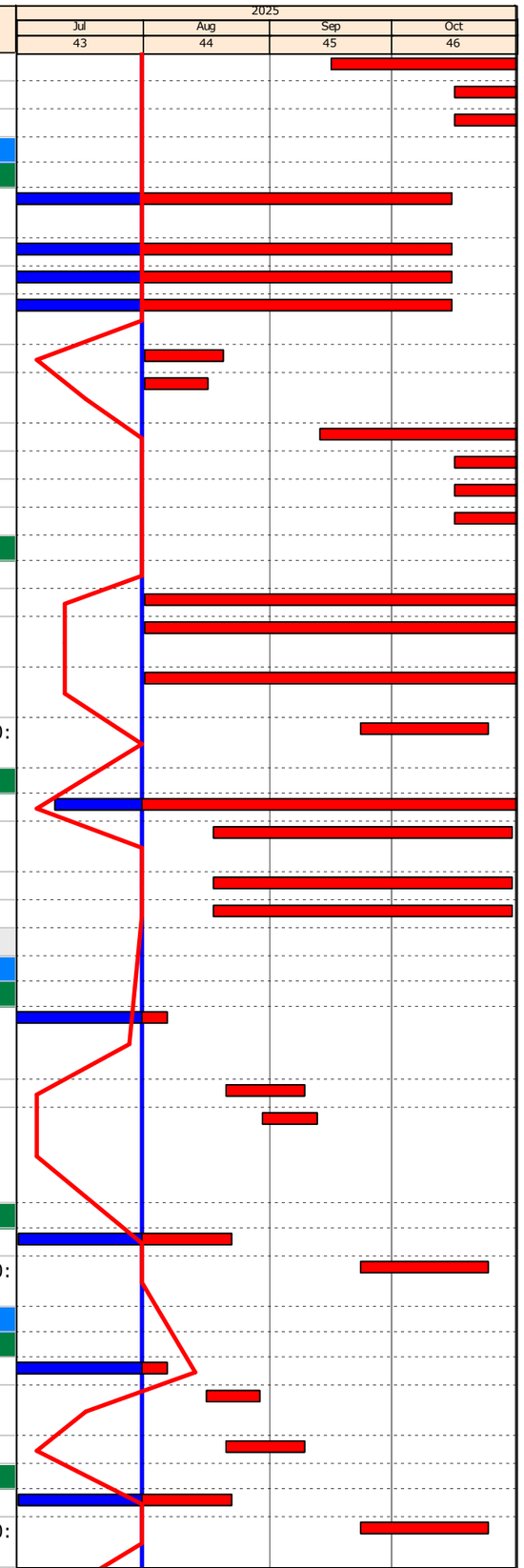
31-Jul-25	Rev. 0	MY	

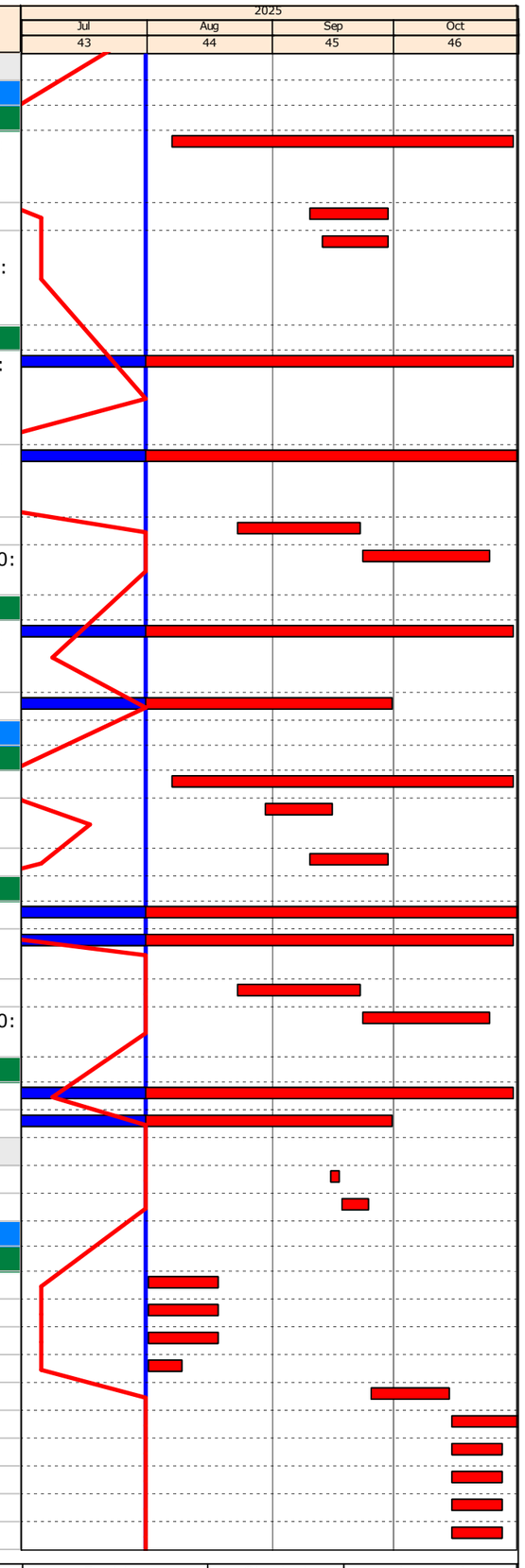
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW2390b	Install RAD Feeder Cable - CP7 to CP21	61	16-Sep-25	28-Nov-25	11-Dec-24	07-Mar-25			SW2390a: SS
SW2390c	Install RAD Equipment & Coupler - CP7 to CP21	51	16-Oct-25	15-Dec-25	10-Jan-25	24-Mar-25			SW2390b: SS 24
SW2390d	RAD Connection & SCT - CP7 to CP21	26	16-Oct-25	15-Nov-25	10-Jan-25	22-Feb-25			SW2390c: SS, SW4090: SS
West Bound		120	01-Aug-25	29-Nov-25	17-Aug-24	21-May-25	02-Jun-25		
CP Side		108	01-Aug-25	15-Nov-25	28-Oct-24	21-May-25	23-Jun-25		
SW3230a	SEC Camera - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	26-Nov-24	22-Feb-25	23-Jun-25		SW3230: SS
SW3240b	ET - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	28-Oct-24	10-Jan-25	23-Jun-25		SW3230a: SS
SW3260a	VSLS - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	26-Nov-24	22-Feb-25	23-Jun-25		SW3230a: SS
SW4100a	TCSS Cabinet - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	71	01-Aug-25	15-Oct-25	28-Oct-24	10-Jan-25	23-Jun-25		AC1050j: SS, SW4100: SS
SW3230	Install SEC Camera - CP7 to CP11	17	01-Aug-25	20-Aug-25	09-Jan-25	11-Feb-25			SW3200: FS, AC1050d: SS
SW3260	Install VSLS - CP7 to CP11	14	01-Aug-25	16-Aug-25	24-Dec-24	10-Jan-25			SW3200: FS, AC1050g: SS, SW3210: SS 16, SW3240: SS
SW3230b	SEC Camera - Physical Inspection - CP7 to CP21	50	13-Sep-25	13-Nov-25	10-Jan-25	22-Mar-25			SW3230a: FF 24
SW3240c	ET - Physical Inspection - CP7 to CP21	25	16-Oct-25	14-Nov-25	11-Jan-25	22-Feb-25			SW3240b: FS
SW3260b	VSLS - Physical Inspection and Function Test - CP7 to CP21	26	16-Oct-25	15-Nov-25	16-Apr-25	21-May-25			SW3260a: FS
SW4100b	TCSS Cabinet - Physical Inspection - CP7 to CP21	25	16-Oct-25	14-Nov-25	11-Jan-25	22-Feb-25			SW4100a: FS
OHVD		106	01-Aug-25	05-Nov-25	06-Sep-24	12-Feb-25	02-Jun-25		
SW4120	Install LCX Bracket - CP7 to CP11	25					02-Jun-25	30-Jun-25	AC1050b: SS, SW3250: FS
SW3210a	CCTV - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	80	01-Aug-25	05-Nov-25	04-Oct-24	08-Jan-25			SW3210: SS, SW3220a: SS
SW3220a	Detection Camera - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	80	01-Aug-25	05-Nov-25	06-Sep-24	11-Dec-24			SW3220: FS, SW2340d: SS
SW3250a	Traffic Control Devices - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	77	01-Aug-25	01-Nov-25	04-Oct-24	04-Jan-25			SW2460: SS, SW3250: SS, SW2340d: SS
SW4130	Install LCX Cable - CP7 to CP11	26	23-Sep-25	24-Oct-25	10-Jan-25	12-Feb-25			SW4120: FS, SW4220: FS, SW4320: FS
Service Gallery		94	01-Aug-25	29-Nov-25	17-Aug-24	16-Dec-24	10-Jul-25		
SW3240d	ET - SCT Cable Test & Final Circuit Wiring - CP7 to CP21	94	01-Aug-25	29-Nov-25	17-Aug-24	16-Dec-24	10-Jul-25		SW3240a: FS, SW2340d: SS
SW3290	Install LCX Bracket - CP7 to CP21	61	18-Aug-25	30-Oct-25	26-Sep-24	07-Dec-24			AC1050h: SS, SW3270: FS, SW3250: FS, SW3240d: SS 33
SW3290a	Cable Test & Install LCX Cable - CP7 to CP21	61	18-Aug-25	30-Oct-25	26-Sep-24	07-Dec-24			SW3290: SS
SW3290b	Install RAD Feeder Cable - CP7 to CP21	61	18-Aug-25	30-Oct-25	26-Sep-24	07-Dec-24			SW3290a: SS
Tunnel Section - CP11 to CP16		71	01-Aug-25	24-Oct-25	12-Nov-24	03-Mar-25	15-May-25		
East Bound		71	01-Aug-25	24-Oct-25	12-Nov-24	03-Mar-25	15-May-25		
CP Side		24	01-Aug-25	12-Sep-25	12-Nov-24	03-Mar-25	15-May-25		
SW2480	Install ET (Road Level) - CP11 to CP16	16	01-Aug-25	06-Aug-25	12-Nov-24	16-Nov-24	15-May-25		SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, AC1060i: SS
SW4160	Install SEC Camera - CP11 to CP16	17	21-Aug-25	09-Sep-25	12-Feb-25	03-Mar-25			SW2330: FS, AC1060d: SS
SW2420	Install VSLS - CP11 to CP16	12	30-Aug-25	12-Sep-25	10-Jan-25	23-Jan-25			SW2400: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, AC1060g: SS, SW2360: FS
OHVD		71	01-Aug-25	24-Oct-25	16-Nov-24	22-Feb-25	01-Jul-25		
SW4170	Install LCX Bracket - CP11 to CP18	45	01-Aug-25	22-Aug-25	16-Nov-24	07-Dec-24	01-Jul-25		SW4080: FS, AC1060b: SS
SW4180	Install LCX Cable - CP11 to CP18	26	23-Sep-25	24-Oct-25	10-Jan-25	22-Feb-25			SW4170: FS, SW4270: FS, SW4080: FS, SW4090: SS
West Bound		71	01-Aug-25	24-Oct-25	12-Nov-24	03-Mar-25	15-May-25		
CP Side		32	01-Aug-25	09-Sep-25	12-Nov-24	03-Mar-25	15-May-25		
SW3360	Install ET (Road Level) - CP11 to CP16	16	01-Aug-25	06-Aug-25	12-Nov-24	16-Nov-24	15-May-25		SW3240: FS, AC1060i: SS
SW3330	Install VSLS - CP11 to CP16	12	16-Aug-25	29-Aug-25	10-Jan-25	23-Jan-25			SW3300: SS 18, AC1060g: SS, SW3260: SS 13
SW4210	Install SEC Camera - CP11 to CP16	17	21-Aug-25	09-Sep-25	12-Feb-25	03-Mar-25			SW3230: FS, AC1060d: SS
OHVD		71	01-Aug-25	24-Oct-25	16-Nov-24	22-Feb-25	01-Jul-25		
SW4220	Install LCX Bracket - CP11 to CP18	45	01-Aug-25	22-Aug-25	16-Nov-24	07-Dec-24	01-Jul-25		SW4120: FS, AC1060b: SS
SW4230	Cable Test & Install LCX Cable - CP11 to CP18	26	23-Sep-25	24-Oct-25	10-Jan-25	22-Feb-25			SW4220: FS, SW4320: FS, SW4120: FS, SW4130: SS



Remaining Work
Critical Activity
Actual Work
Milestone

Date	Revision	Checked	Approved
31-Jul-25	Rev. 0	MY	

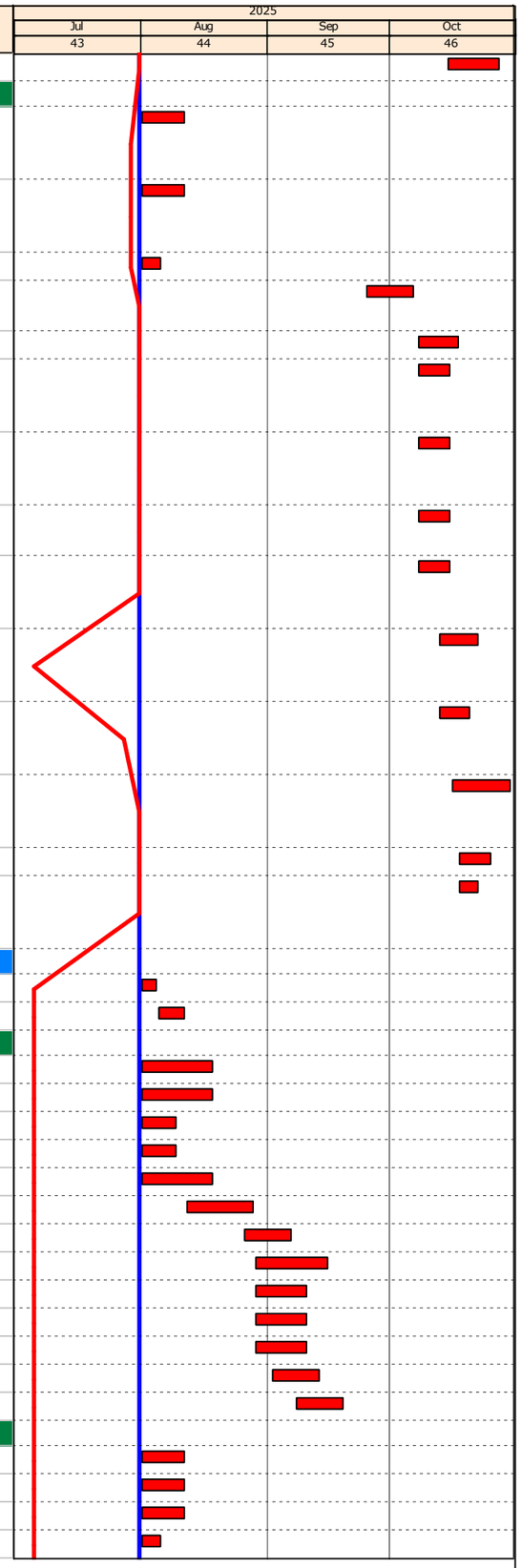
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
Tunnel Section - CP16 to CP21		216	01-Aug-25	31-Oct-25	12-Nov-24	22-Mar-25	25-Feb-25		
East Bound		216	01-Aug-25	31-Oct-25	12-Nov-24	22-Mar-25	25-Feb-25		
CP Side		70	07-Aug-25	30-Oct-25	18-Nov-24	22-Mar-25			
SW2590	Install ET (Road Level) - CP16 to CP21	70	07-Aug-25	30-Oct-25	18-Nov-24	22-Feb-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, AC1070i: SS, SW2480: FS
SW4260	Install SEC Camera - CP16 to CP21	17	10-Sep-25	29-Sep-25	04-Mar-25	22-Mar-25			SW4160: FS, AC1070d: SS
SW2520	Install VSLS - CP16 to CP21	14	13-Sep-25	29-Sep-25	24-Jan-25	22-Feb-25			SW2510: SS 12, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, AC1070g: SS, SW2420: FS
OHVD		122	01-Aug-25	31-Oct-25	12-Nov-24	26-Feb-25	30-May-25		
SW2540	Install Traffic Control Devices - CP16 to CP21	31	01-Aug-25	30-Oct-25	12-Nov-24	22-Feb-25	30-May-25		SW2510: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, AC1070b: SS, SW2460: FS
SW2550	Install CCTV Camera - CP16 to CP21	23	01-Aug-25	31-Oct-25	14-Nov-24	26-Feb-25	30-May-25		SC1470: FF, DS4090: FS, DS6440: FS, AC1070b: SS, SW2430: FS
SW4270	Install LCX Bracket - CP18 to CP21	26	23-Aug-25	22-Sep-25	09-Dec-24	09-Jan-25			SW4170: FS, AC1070b: SS
SW4280	Install LCX Cable - CP18 to CP21	26	23-Sep-25	24-Oct-25	10-Jan-25	22-Feb-25			SW4270: FS, SW4170: FS, SW4080: FS, SW4180: SS
Service Gallery		17	01-Aug-25	30-Oct-25	26-Nov-24	08-Mar-25	25-Feb-25		
SW2530	Install PA in Service Gallery - CP16 to CP21	17	01-Aug-25	30-Oct-25	26-Nov-24	08-Mar-25	25-Feb-25		SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, AC1070e: SS
SW2590a	Install ET in Service Gallery - CP16 to CP21	17	01-Aug-25	30-Sep-25	09-Dec-24	22-Feb-25	26-Feb-25		AC1070e: SS
West Bound		216	01-Aug-25	31-Oct-25	12-Nov-24	22-Mar-25	26-Feb-25		
CP Side		70	07-Aug-25	30-Oct-25	18-Nov-24	22-Mar-25			
SW3470	Install ET (Road Level) - CP16 to CP21	70	07-Aug-25	30-Oct-25	18-Nov-24	22-Feb-25			AC1070i: SS, SW3360: FS
SW3440	Install VSLS - CP16 to CP21	14	30-Aug-25	15-Sep-25	24-Jan-25	22-Feb-25			SW3410: SS 12, AC1070g: SS, SW3330: FS
SW4310	Install SEC Camera - CP16 to CP21	17	10-Sep-25	29-Sep-25	04-Mar-25	22-Mar-25			SW4210: FS, AC1070d: SS
OHVD		122	01-Aug-25	31-Oct-25	12-Nov-24	26-Feb-25	30-May-25		
SW3420	Install CCTV Camera - CP16 to CP21	23	01-Aug-25	31-Oct-25	14-Nov-24	26-Feb-25	30-May-25		AC1070b: SS, SW3310: FS
SW3480	Install Traffic Control Devices - CP16 to CP21	31	01-Aug-25	30-Oct-25	12-Nov-24	22-Feb-25	30-May-25		SW3410: FS, AC1070b: SS, SW3370: FS
SW4320	Install LCX Bracket - CP18 to CP21	26	23-Aug-25	22-Sep-25	09-Dec-24	09-Jan-25			SW4220: FS, AC1070b: SS
SW4330	Install LCX Cable - CP18 to CP21	26	23-Sep-25	24-Oct-25	10-Jan-25	22-Feb-25			SW4320: FS, SW4220: FS, SW4120: FS, SW4130: SS
Service Gallery		17	01-Aug-25	30-Oct-25	26-Nov-24	08-Mar-25	26-Feb-25		
SW3450	Install PA in Service Gallery - CP16 to CP21	17	01-Aug-25	30-Oct-25	26-Nov-24	08-Mar-25	26-Feb-25		AC1070h: SS
SW3470a	Install ET in Service Gallery - CP16 to CP21	17	01-Aug-25	30-Sep-25	09-Dec-24	22-Feb-25	26-Feb-25		AC1070h: SS
Tunnel Section - CP21 to CP26		77	01-Aug-25	01-Nov-25	26-Aug-24	21-May-25			
SW2920	Inspect Civil Provisions & Submit Inspection Report	3	15-Sep-25	17-Sep-25	09-Sep-24	11-Sep-24			AC1080a: SS
SW2930	Rectify Civil Provision Defects by Others	6	18-Sep-25	24-Sep-25	12-Sep-24	19-Sep-24			SW2920: FS
East Bound		77	01-Aug-25	01-Nov-25	20-Sep-24	21-May-25			
East Bound - Tunnel Section - CP21 to CP24		77	01-Aug-25	01-Nov-25	17-Dec-24	21-May-25			
SW3980	Install PA in Service Gallery	15	01-Aug-25	18-Aug-25	20-Feb-25	08-Mar-25			AC1080j: SS
SW4010	Install PABX in Service Gallery	15	01-Aug-25	18-Aug-25	20-Mar-25	07-Apr-25			AC1080j: SS
SW4020	Install Radio System in Service Gallery	15	01-Aug-25	18-Aug-25	06-Feb-25	22-Feb-25			AC1080j: SS
SW4040a	Install ET (Service Gallery)	8	01-Aug-25	09-Aug-25	14-Feb-25	22-Feb-25			AC1080j: SS
SW3960	Install Cable Containment (CP Side)	15	25-Sep-25	14-Oct-25	17-Dec-24	04-Jan-25			SW2930: FS
SW3960a	Install Cable Containment (NCP Side)	15	15-Oct-25	01-Nov-25	21-Jan-25	10-Feb-25			SW3960: FS
SW3970	Install VSLS (CP Side)	11	15-Oct-25	27-Oct-25	25-Jan-25	10-Feb-25			SW3960: FS, SW3960: FF
SW3990	Install Traffic Control Devices	11	15-Oct-25	27-Oct-25	11-Feb-25	22-Feb-25			SW3960: FS
SW4000	Install CCTV Camera	11	15-Oct-25	27-Oct-25	26-Apr-25	10-May-25			SW3960: FS
SW4030	Install Detection Camera	11	15-Oct-25	27-Oct-25	06-Jan-25	17-Jan-25			SW3960: FS



Remaining Work
Critical Activity
Actual Work
Milestone

Date	Revision	Checked	Approved
31-Jul-25	Rev. 0	MY	

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW4050	Install SEC Camera	11	15-Oct-25	27-Oct-25	09-May-25	21-May-25			SW3960: FS
East Bound - Tunnel Section - CP24 to CP26		75	01-Aug-25	30-Oct-25	20-Sep-24	07-Apr-25			
SW2620	Install PA in Service Gallery	9	01-Aug-25	11-Aug-25	27-Feb-25	08-Mar-25			SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, AC1080b: SS
SW2650	Install PABX in Service Gallery	9	01-Aug-25	11-Aug-25	27-Mar-25	07-Apr-25			SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS, AC1080b: SS
SW2680a	Install ET (Service Gallery)	4	01-Aug-25	05-Aug-25	19-Feb-25	22-Feb-25			AC1080b: SS
SW2600	Install Cable Containment (CP Side)	9	25-Sep-25	06-Oct-25	20-Sep-24	30-Sep-24			SC2480: FF, SW2930: FS, DS6404: FS, DS6540: FS
SW2600a	Install Cable Containment (NCP Side)	9	08-Oct-25	17-Oct-25	02-Oct-24	12-Oct-24			SW2600: FS
SW2610	Install VSLS (CP Side)	7	08-Oct-25	15-Oct-25	07-Feb-25	14-Feb-25			SW2600: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, SW2600: FF
SW2630	Install Traffic Control Devices	7	08-Oct-25	15-Oct-25	21-Oct-24	28-Oct-24			SW2600: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2640	Install CCTV Camera	7	08-Oct-25	15-Oct-25	21-Oct-24	28-Oct-24			SC1470: FF, DS4090: FS, DS6440: FS, SW2600: FS
SW2670	Install Detection Camera	7	08-Oct-25	15-Oct-25	21-Oct-24	28-Oct-24			SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS, SW2600: FS
SW2660	Install Radio System in Service Gallery	9	13-Oct-25	22-Oct-25	13-Feb-25	22-Feb-25			SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS, AC1080b: SS
SW2690	Install SEC Camera	7	13-Oct-25	20-Oct-25	15-Mar-25	22-Mar-25			SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS, SW2600: FS
SW2710	Signal Cable Laying and Termination (CP21 to CP26) (CP Side)	12	16-Oct-25	30-Oct-25	29-Oct-24	11-Nov-24			SW2600: FS, SC2480: FF, SW2640: FS, SW2670: FS, SW2630: FS
SW2610a	Install VSLS (NCP Side)	7	18-Oct-25	25-Oct-25	15-Feb-25	22-Feb-25			SW2610: FS, SW2600a: FS
SW2680	Install ET (Road Level)	4	18-Oct-25	22-Oct-25	19-Feb-25	22-Feb-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2600a: FS
West Bound		62	01-Aug-25	14-Oct-25	26-Aug-24	28-Apr-25			
SW3620	Inspect Civil Provisions & Submit Inspection Report	3	01-Aug-25	04-Aug-25	26-Aug-24	28-Aug-24			AC1080c: SS
SW3630	Rectify Civil Provision Defects by Others	6	05-Aug-25	11-Aug-25	29-Aug-24	04-Sep-24			SW3620: FS
West Bound - Tunnel Section - CP21 to CP24		43	01-Aug-25	19-Sep-25	05-Sep-24	07-Apr-25			
SW3540	Install PA in Service Gallery	15	01-Aug-25	18-Aug-25	20-Feb-25	08-Mar-25			AC1080e: SS
SW3550	Install PABX in Service Gallery	15	01-Aug-25	18-Aug-25	20-Mar-25	07-Apr-25			AC1080e: SS
SW3560	Install ET (Road Level)	8	01-Aug-25	09-Aug-25	14-Feb-25	22-Feb-25			AC1080i: SS
SW3560a	Install ET (Service Gallery)	8	01-Aug-25	09-Aug-25	14-Feb-25	22-Feb-25			AC1080e: SS
SW3580	Install Radio System in Service Gallery	15	01-Aug-25	18-Aug-25	06-Feb-25	22-Feb-25			AC1080e: SS
SW3500	Install Cable Containment (CP Side)	15	12-Aug-25	28-Aug-25	05-Sep-24	23-Sep-24			SW3630: FS
SW3530	Install VSLS (CP Side)	11	26-Aug-25	06-Sep-25	25-Jan-25	10-Feb-25			SW3500: SS 12, AC1080h: SS
SW3500a	Install Cable Containment (NCP Side)	15	29-Aug-25	15-Sep-25	24-Sep-24	12-Oct-24			SW3500: FS
SW3510	Install CCTV Camera	11	29-Aug-25	10-Sep-25	16-Oct-24	28-Oct-24			SW3500: FS
SW3520	Install Detection Camera	11	29-Aug-25	10-Sep-25	16-Oct-24	28-Oct-24			SW3500: FS
SW3590	Install SEC Camera	11	29-Aug-25	10-Sep-25	11-Mar-25	22-Mar-25			SW3500: FS
SW3570	Install Traffic Control Devices	11	02-Sep-25	13-Sep-25	16-Oct-24	28-Oct-24			SW3500: SS 18, SW3500: FS
SW3530a	Install VSLS (NCP Side)	11	08-Sep-25	19-Sep-25	11-Feb-25	22-Feb-25			SW3530: FS, AC1080h: SS
West Bound - Tunnel Section - CP24 to CP26		62	01-Aug-25	14-Oct-25	20-Sep-24	28-Apr-25			
SW3640	Install Cable Containment (CP Side)	9	01-Aug-25	11-Aug-25	20-Sep-24	30-Sep-24			AC1080f: SS
SW3680	Install PA in Service Gallery	9	01-Aug-25	11-Aug-25	27-Feb-25	08-Mar-25			AC1080g: SS
SW3690	Install PABX in Service Gallery	9	01-Aug-25	11-Aug-25	27-Mar-25	07-Apr-25			AC1080g: SS
SW3700a	Install ET (Service Gallery)	4	01-Aug-25	05-Aug-25	19-Feb-25	22-Feb-25			AC1080g: SS



Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW3720	Install Radio System in Service Gallery	9	01-Aug-25	11-Aug-25	13-Feb-25	22-Feb-25			AC1080g: SS
SW3640a	Install Cable Containment (NCP Side)	9	12-Aug-25	21-Aug-25	02-Oct-24	12-Oct-24			SW3640: FS
SW3650	Install CCTV Camera	7	12-Aug-25	19-Aug-25	21-Oct-24	28-Oct-24			SW3640: FS
SW3660	Install Detection Camera	7	12-Aug-25	19-Aug-25	21-Oct-24	28-Oct-24			SW3640: FS
SW3710	Install Traffic Control Devices	7	12-Aug-25	19-Aug-25	21-Oct-24	28-Oct-24			SW3640: FS
SW3730	Install SEC Camera	7	12-Aug-25	19-Aug-25	15-Mar-25	22-Mar-25			SW3640: FS
SW3670	Install VSLS (CP Side)	7	15-Aug-25	22-Aug-25	07-Feb-25	14-Feb-25			SW3640: SS 12
SW3700	Install ET (Road Level)	4	22-Aug-25	26-Aug-25	19-Feb-25	22-Feb-25			SW3640a: FS
SW3670a	Install VSLS (NCP Side)	7	23-Aug-25	30-Aug-25	15-Feb-25	22-Feb-25			SW3640a: FS, SW3670: FS
SW3750	Signal Cable Laying and Termination (CP21 to CP26) (CP Side)	12	15-Sep-25	27-Sep-25	29-Oct-24	11-Nov-24			SW3640: FS, SW3650: FS, SW3660: FS, SW3710: FS, SW3510: FS, SW3520: FS, SW3570: FS, SW3500: FS
SW3740	Install GOFS (CP21 to CP26)	12	29-Sep-25	14-Oct-25	15-Apr-25	28-Apr-25			SW3750: FS, SW3640a: FS
SW3750a	Signal Cable Laying and Termination (CP21 to CP26) (NCP Side)	12	29-Sep-25	14-Oct-25	12-Nov-24	25-Nov-24			SW3750: FS, SW3640a: FS, SW3500a: FS
Tunnel Section - CP26 to CP32		85	01-Aug-25	11-Nov-25	27-Aug-24	22-Mar-25			
SW2940	Inspect Civil Provisions & Submit Inspection Report	1	01-Aug-25	01-Aug-25	02-Sep-24	02-Sep-24			AC1090e: SS
SW2950	Rectify Civil Provision Defects by Others	4	02-Aug-25	06-Aug-25	03-Sep-24	06-Sep-24			SW2940: FS
East Bound		85	01-Aug-25	11-Nov-25	07-Sep-24	22-Mar-25			
East Bound - Tunnel Section - CP26 to CP29		47	15-Sep-25	11-Nov-25	07-Sep-24	22-Mar-25			
SW2720	Install Cable Containment (CP Side)	14	15-Sep-25	30-Sep-25	07-Sep-24	24-Sep-24			SC2480: FF, SW2950: FS, DS6404: FS, DS6540: FS, AC1090a: SS
SW2720a	Install Cable Containment (NCP Side)	14	02-Oct-25	18-Oct-25	25-Sep-24	12-Oct-24			SW2720: FS
SW2730	Install VSLS (CP Side)	8	02-Oct-25	11-Oct-25	05-Feb-25	13-Feb-25			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2750	Install Traffic Control Devices	11	02-Oct-25	15-Oct-25	25-Oct-24	06-Nov-24			SW2720: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2760	Install CCTV Camera	11	02-Oct-25	15-Oct-25	25-Oct-24	06-Nov-24			SC1470: FF, DS4090: FS, DS6440: FS, SW2720: FS
SW2810	Install Detection Camera	11	02-Oct-25	15-Oct-25	25-Oct-24	06-Nov-24			SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS, SW2720: FS
SW2840	Install PVMS	8	02-Oct-25	11-Oct-25	14-Feb-25	22-Feb-25			SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS, SW2720: FS
SW2830	Install SEC Camera	11	13-Oct-25	24-Oct-25	11-Mar-25	22-Mar-25			SC2390: FF, EM1130: FS, DS6320: FS, DS7410: FS, SW2720: FS
SW2740	Install PA in Service Gallery	12	15-Oct-25	28-Oct-25	17-Jan-25	03-Feb-25			SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, AC1090b: SS
SW2820a	Install ET (Service Gallery)	8	15-Oct-25	23-Oct-25	14-Feb-25	22-Feb-25			AC1090b: SS
SW2790	Signal Cable Laying and Termination (CP26 to CP29) (CP Side)	8	16-Oct-25	24-Oct-25	07-Nov-24	15-Nov-24			SW2720: FS, SC2480: FF, SW2760: FS, SW2810: FS, SW2750: FS
SW2730a	Install VSLS (NCP Side)	8	20-Oct-25	28-Oct-25	14-Feb-25	22-Feb-25			SW2720a: FS, SW2730: FS
SW2820	Install ET (Road Level)	8	20-Oct-25	28-Oct-25	14-Feb-25	22-Feb-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2720a: FS
SW2770	Install PABX in Service Gallery	14	25-Oct-25	11-Nov-25	28-Jan-25	15-Feb-25			SW2740: SS 9, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS, AC1090b: SS
SW2780	Install GOFS (CP26 to CP29)	8	25-Oct-25	04-Nov-25	08-Mar-25	17-Mar-25			SC2570: FF, DS8560: FS, SW2720a: FS, SW2790: FS



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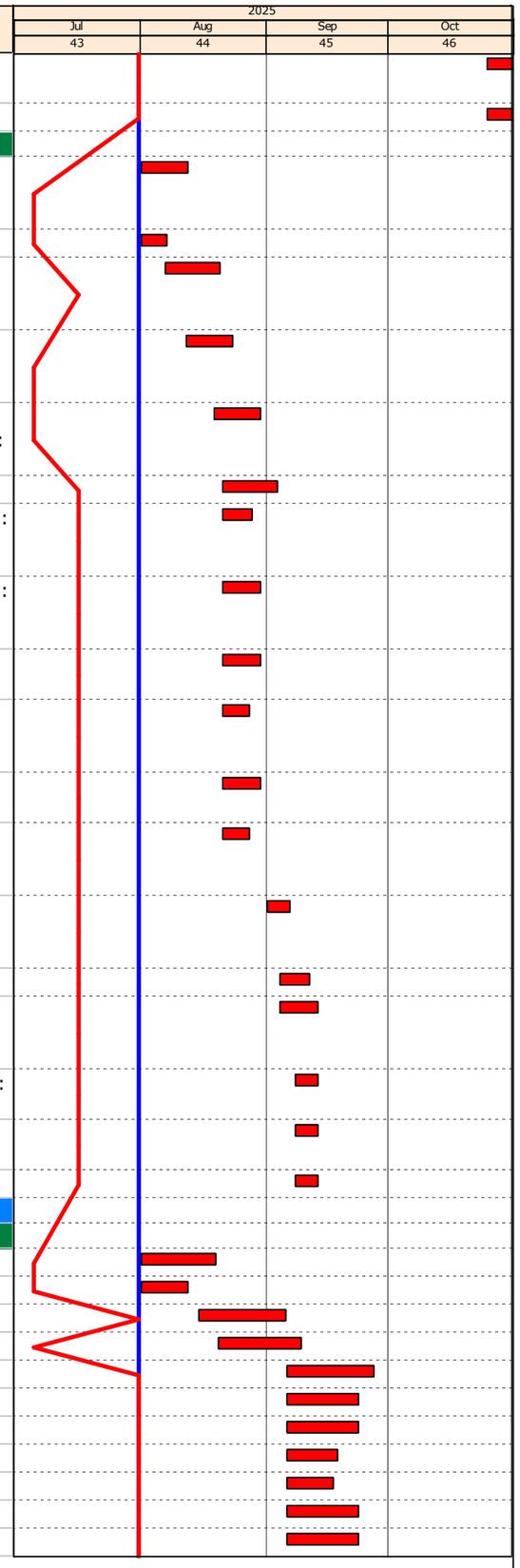
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW2790a	Signal Cable Laying and Termination (CP26 to CP29) (NCP Side)	8	25-Oct-25	04-Nov-25	16-Nov-24	25-Nov-24			SW2720a: FS, SW2790: FS
SW2850	Laying of Leaky Cable	8	25-Oct-25	04-Nov-25	14-Feb-25	22-Feb-25			SW2720a: FS, SW2790: FS
East Bound - Tunnel Section - CP29 to CP32 (CKL Main Tunnel)		38	01-Aug-25	13-Sep-25	12-Sep-24	22-Mar-25			
SW2740a	Install PA in Service Gallery	10	01-Aug-25	12-Aug-25	21-Jan-25	04-Feb-25			SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS, AC1090f: SS
SW2820c	Install ET (Service Gallery)	6	01-Aug-25	07-Aug-25	17-Feb-25	22-Feb-25			AC1090f: SS
SW2720b	Install Cable Containment (CP Side)	12	07-Aug-25	20-Aug-25	12-Sep-24	26-Sep-24			SC2480: FF, SW2950: FS, DS6404: FS, DS6540: FS, AC1090e: SS
SW2770a	Install PABX in Service Gallery	11	12-Aug-25	23-Aug-25	04-Feb-25	15-Feb-25			SW2740a: SS 9, SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS, AC1090f: SS
SW2800a	Install Radio System in Service Gallery	11	19-Aug-25	30-Aug-25	11-Feb-25	22-Feb-25			SW2770a: SS 6, SC1990: FF, DS4390: FS, DS6520: FS, AC1090f: SS
SW2720c	Install Cable Containment (NCP Side)	12	21-Aug-25	03-Sep-25	27-Sep-24	12-Oct-24			SW2720b: FS
SW2730b	Install VSLS (CP Side)	7	21-Aug-25	28-Aug-25	07-Feb-25	14-Feb-25			SW2720b: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2750a	Install Traffic Control Devices	9	21-Aug-25	30-Aug-25	01-Nov-24	11-Nov-24			SW2720b: FS, SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS
SW2760a	Install CCTV Camera	9	21-Aug-25	30-Aug-25	01-Nov-24	11-Nov-24			SC1470: FF, DS4090: FS, DS6440: FS, SW2720b: FS
SW2810a	Install Detection Camera	6	21-Aug-25	27-Aug-25	05-Nov-24	11-Nov-24			SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS, SW2720b: FS
SW2830a	Install SEC Camera	9	21-Aug-25	30-Aug-25	13-Mar-25	22-Mar-25			SC2390: FF, EM1130: FS, DS7410: FS, SW2720b: FS
SW2840a	Install PVMS	6	21-Aug-25	27-Aug-25	17-Feb-25	22-Feb-25			SC1210: FF, EM1030: FS, DS2810: FS, EM1650: FS, DS8250: FS, SW2720b: FS
SW2790b	Signal Cable Laying and Termination (CP29 to CP32) (CP Side)	6	01-Sep-25	06-Sep-25	12-Nov-24	18-Nov-24			SW2720b: FS, SC2480: FF, SW2760a: FS, SW2810a: FS, SW2750a: FS
SW2730c	Install VSLS (NCP Side)	7	04-Sep-25	11-Sep-25	15-Feb-25	22-Feb-25			SW2720c: FS, SW2730b: FS
SW2820b	Install ET (Road Level)	9	04-Sep-25	13-Sep-25	13-Feb-25	22-Feb-25			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW2720c: FS
SW2780a	Install GOFS (CP29 to CP32)	6	08-Sep-25	13-Sep-25	11-Mar-25	17-Mar-25			SC2570: FF, DS8560: FS, SW2720c: FS, SW2790b: FS
SW2790c	Signal Cable Laying and Termination (CP29 to CP32) (NCP Side)	6	08-Sep-25	13-Sep-25	19-Nov-24	25-Nov-24			SW2720c: FS, SW2790b: FS
SW2850a	Laying of Leaky Cable	6	08-Sep-25	13-Sep-25	17-Feb-25	22-Feb-25			SW2720c: FS, SW2790b: FS
West Bound		66	01-Aug-25	18-Oct-25	27-Aug-24	22-Mar-25			
West Bound - Tunnel Section - CP26 to CP30		66	01-Aug-25	18-Oct-25	27-Aug-24	22-Mar-25			
SW3800	Install PA in Service Gallery	16	01-Aug-25	19-Aug-25	19-Dec-24	08-Jan-25			AC1090d: SS
SW3820a	Install ET (Service Gallery)	10	01-Aug-25	12-Aug-25	12-Feb-25	22-Feb-25			AC1090d: SS
SW3760	Install Cable Containment (CP Side)	19	15-Aug-25	05-Sep-25	27-Aug-24	17-Sep-24			AC1090c: SS
SW3810	Install PABX in Service Gallery	18	20-Aug-25	09-Sep-25	09-Jan-25	01-Feb-25			AC1090d: SS, SW3800: FS
SW3760a	Install Cable Containment (NCP Side)	19	06-Sep-25	27-Sep-25	19-Sep-24	12-Oct-24			SW3760: FS
SW3770	Install CCTV Camera	15	06-Sep-25	23-Sep-25	16-Oct-24	01-Nov-24			SW3760: FS
SW3780	Install Detection Camera	15	06-Sep-25	23-Sep-25	16-Oct-24	01-Nov-24			SW3760: FS
SW3790	Install VSLS (CP Side)	11	06-Sep-25	18-Sep-25	25-Jan-25	10-Feb-25			SW3760: FS
SW3820	Install ET (Road Level)	10	06-Sep-25	17-Sep-25	12-Feb-25	22-Feb-25			SW3760: FS
SW3830	Install Traffic Control Devices	15	06-Sep-25	23-Sep-25	16-Oct-24	01-Nov-24			SW3760: FS, SW3760: FF
SW3850	Install SEC Camera	15	06-Sep-25	23-Sep-25	06-Mar-25	22-Mar-25			SW3760: FS



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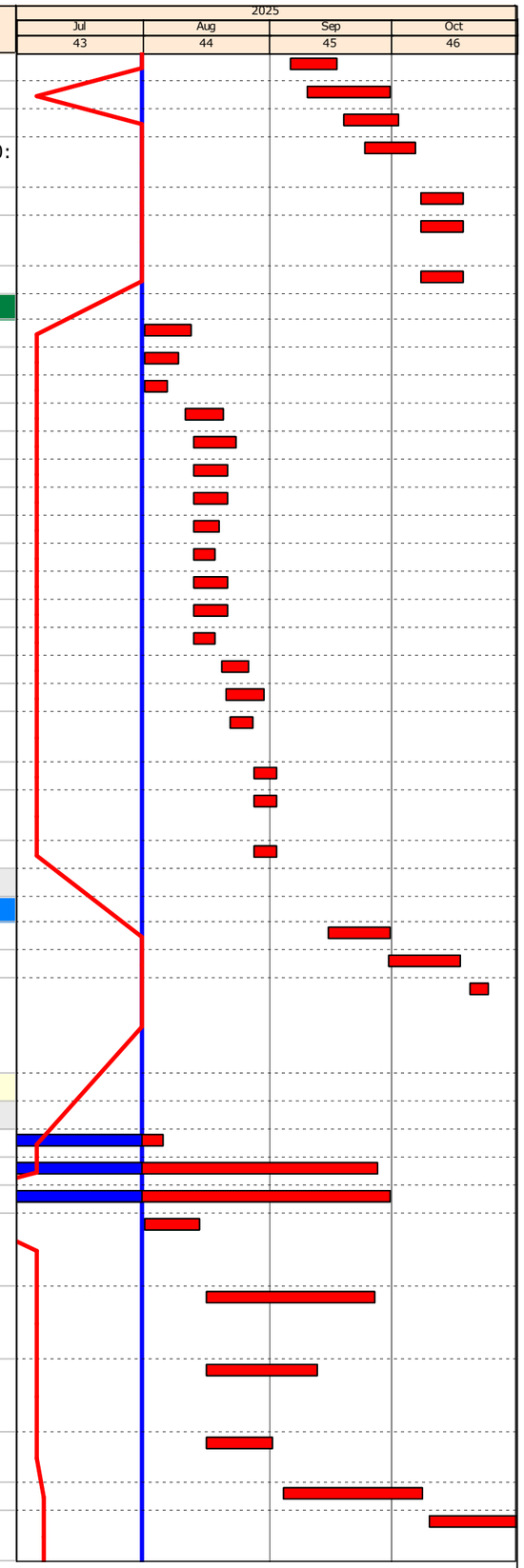
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details
SW3880	Install PVMS	10	06-Sep-25	17-Sep-25	12-Feb-25	22-Feb-25			SW3760: FS
SW3840	Install Radio System in Service Gallery	18	10-Sep-25	30-Sep-25	03-Feb-25	22-Feb-25			AC1090d: SS, SW3810: FS
SW3790a	Install VSLS (NCP Side)	11	19-Sep-25	02-Oct-25	11-Feb-25	22-Feb-25			SW3790: FS
SW3870	Signal Cable Laying and Termination (CP26 to CP30) (CP Side)	10	24-Sep-25	06-Oct-25	02-Nov-24	13-Nov-24			SW3760: FS, SW3770: FS, SW3780: FS, SW3830: FS
SW3860	Install GOFS (CP26 to CP30)	10	08-Oct-25	18-Oct-25	06-Mar-25	17-Mar-25			SW3760a: FS, SW3870: FS
SW3870a	Signal Cable Laying and Termination (CP26 to CP30) (NCP Side)	10	08-Oct-25	18-Oct-25	14-Nov-24	25-Nov-24			SW3760a: FS, SW3870: FS
SW3890	Laying of Leaky Cable	10	08-Oct-25	18-Oct-25	12-Feb-25	22-Feb-25			SW3760a: FS, SW3870: FS
West Bound - Tunnel Section - CP30 to CP32 (CKL Main Tunnel)		28	01-Aug-25	02-Sep-25	17-Sep-24	22-Mar-25			
SW3760b	Install Cable Containment (CP Side)	10	01-Aug-25	12-Aug-25	17-Sep-24	28-Sep-24			AC1090g: SS
SW3800a	Install PA in Service Gallery	8	01-Aug-25	09-Aug-25	21-Jan-25	01-Feb-25			AC1090h: SS
SW3820c	Install ET (Service Gallery)	5	01-Aug-25	06-Aug-25	18-Feb-25	22-Feb-25			AC1090h: SS
SW3810a	Install PABX in Service Gallery	9	11-Aug-25	20-Aug-25	03-Feb-25	12-Feb-25			AC1090h: SS, SW3800a: FS
SW3760c	Install Cable Containment (NCP Side)	10	13-Aug-25	23-Aug-25	30-Sep-24	12-Oct-24			SW3760b: FS
SW3770a	Install CCTV Camera	8	13-Aug-25	21-Aug-25	05-Nov-24	13-Nov-24			SW3760b: FS
SW3780a	Install Detection Camera	8	13-Aug-25	21-Aug-25	05-Nov-24	13-Nov-24			SW3760b: FS
SW3790b	Install VSLS (CP Side)	6	13-Aug-25	19-Aug-25	10-Feb-25	15-Feb-25			SW3760b: FS
SW3820b	Install ET (Road Level)	5	13-Aug-25	18-Aug-25	18-Feb-25	22-Feb-25			SW3760b: FS
SW3830a	Install Traffic Control Devices	8	13-Aug-25	21-Aug-25	05-Nov-24	13-Nov-24			SW3760b: FS, SW3760b: FF
SW3850a	Install SEC Camera	8	13-Aug-25	21-Aug-25	14-Mar-25	22-Mar-25			SW3760b: FS
SW3880a	Install PVMS	5	13-Aug-25	18-Aug-25	18-Feb-25	22-Feb-25			SW3760b: FS
SW3790c	Install VSLS (NCP Side)	6	20-Aug-25	26-Aug-25	17-Feb-25	22-Feb-25			SW3790b: FS
SW3840a	Install Radio System in Service Gallery	9	21-Aug-25	30-Aug-25	13-Feb-25	22-Feb-25			AC1090h: SS, SW3810a: FS
SW3870b	Signal Cable Laying and Termination (CP30 to CP32) (CP Side)	5	22-Aug-25	27-Aug-25	14-Nov-24	19-Nov-24			SW3760b: FS, SW3770a: FS, SW3780a: FS, SW3830a: FS
SW3860a	Install GOFS (CP30 to CP32)	5	28-Aug-25	02-Sep-25	12-Mar-25	17-Mar-25			SW3760c: FS, SW3870b: FS
SW3870c	Signal Cable Laying and Termination (CP30 to CP32) (NCP Side)	5	28-Aug-25	02-Sep-25	20-Nov-24	25-Nov-24			SW3760c: FS, SW3870b: FS
SW3890a	Laying of Leaky Cable	5	28-Aug-25	02-Sep-25	18-Feb-25	22-Feb-25			SW3760c: FS, SW3870b: FS
Tunnel Section - TSS/CKL Final Connection		33	15-Sep-25	24-Oct-25	25-Sep-24	22-Mar-25			
West Bound		33	15-Sep-25	24-Oct-25	25-Sep-24	22-Mar-25			
SW3940a	Remaining TCSS Installations (Service Gallery)	14	15-Sep-25	30-Sep-25	01-Mar-25	17-Mar-25			AC1120a: SS
SW3940	Remaining TCSS Installations (Road Level)	14	30-Sep-25	17-Oct-25	25-Sep-24	12-Oct-24			AC1120: SS
SW3950	Cable Laying and Termination	5	20-Oct-25	24-Oct-25	18-Mar-25	22-Mar-25			SW3860: FS, SW3890: FS, SW3870a: FS, SW3940: FS, SW3860a: FS, SW3890a: FS, SW3870c: FS, SW3940a: FS
West Ventilation Building		461	01-Aug-25	12-Nov-25	06-Sep-24	21-Apr-25	01-Apr-24		
Installation Works		461	01-Aug-25	12-Nov-25	06-Sep-24	21-Apr-25	01-Apr-24		
SW1650	Install Cable Containments	24	01-Aug-25	05-Aug-25	06-Sep-24	10-Sep-24	01-Apr-24		DS6400: FS, DS6540: FS
SW1740	Signal Cable Laying	15	01-Aug-25	27-Sep-25	26-Sep-24	25-Nov-24	24-Mar-25		SW1650: SS
SW1710a	Install LCX Bracket	21	01-Aug-25	30-Sep-25	13-Dec-24	17-Feb-25	25-Apr-25		SW4340: FS, DS3250: FS
SW1730	Install ET Equipment	12	01-Aug-25	14-Aug-25	27-Sep-24	12-Oct-24			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW1690: SS
SW1670	Install Network Equipment	36	16-Aug-25	26-Sep-25	15-Oct-24	25-Nov-24			SC1330: FF, DS4340: FS, DS4440: FS, SW1700: SS, SW1660: FS
SW1680	Install Manual Fallback Control Equipment	24	16-Aug-25	12-Sep-25	29-Oct-24	25-Nov-24			SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS, SW1700: SS, EM1110: FS
SW1700	Install Operation Facilities Equipment	14	16-Aug-25	01-Sep-25	15-Oct-24	30-Oct-24			SC2680: FF, EM1120: FS, SW1730: FS 1
SW1710b	Install LCX Cable	28	04-Sep-25	08-Oct-25	13-Dec-24	16-Jan-25			SW1710a: SS, DS3790: FS 5
SW1710	Install RAD Equipment & Coupler	28	10-Oct-25	12-Nov-25	18-Jan-25	22-Feb-25			SC1990: FF, DS4390: FS, DS6520: FS, SW1710b: FS 1



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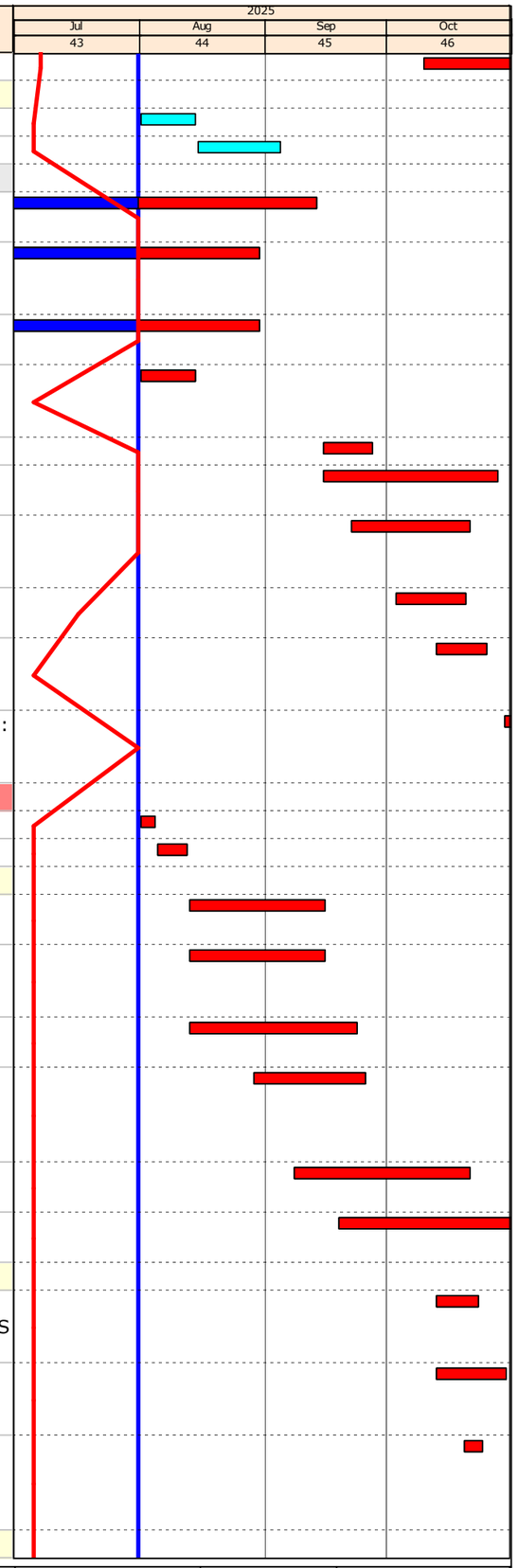
SW1710c	RAD Connection & SCT	28	10-Oct-25	12-Nov-25	19-Mar-25	21-Apr-25			SW1710: SS
East Ventilation Building		89	01-Aug-25	15-Nov-25	10-Aug-24	31-Oct-26	23-Jun-25		
SW2960	Inspect Civil Provisions & Submit Inspection Report	12	01-Aug-25	14-Aug-25	24-Sep-26	09-Oct-26			AC1010: SS, KD1010: FS
SW2970	Rectify Civil Provision Defects by Others	18	15-Aug-25	04-Sep-25	10-Oct-26	31-Oct-26			SW2960: FS
Installation Works		89	01-Aug-25	15-Nov-25	10-Aug-24	22-Feb-25	23-Jun-25		
SW1750	Install Cable Containments	24	01-Aug-25	13-Sep-25	10-Aug-24	24-Sep-24	23-Jun-25		SC2480: FF, DS6400: FS, DS6540: FS
SW1790	Install PABX Equipment	20	01-Aug-25	30-Aug-25	08-Oct-24	07-Nov-24	23-Jun-25		SC1590: FF, DS4140: FS, DS6040: FS, DS6480: FS, SW1750: SS
SW1820	Install PA Equipment	12	01-Aug-25	30-Aug-25	08-Oct-24	07-Nov-24	23-Jun-25		SC1860: FF, DS4240: FS, DS6480: FS, DS6120: FS
SW1830	Install ET Equipment	12	01-Aug-25	14-Aug-25	25-Oct-24	07-Nov-24			SC1720: FF, DS4190: FS, DS6080: FS, DS6480: FS, SW1820: SS
SW1760	Position Equipment Rack	12	15-Sep-25	27-Sep-25	25-Sep-24	09-Oct-24			SW1750: FS
SW1770	Install Network Equipment	36	15-Sep-25	28-Oct-25	25-Sep-24	07-Nov-24			SC1330: FF, DS4340: FS, DS4440: FS, SW1760: SS
SW1780	Install Manual Fallback Control Equipment	24	22-Sep-25	21-Oct-25	10-Oct-24	07-Nov-24			SC2240: FF, DS6240: FS, DS7370: FS, DS8310: FS, SW1770: SS 6, EM1110: FS
SW1800	Install Operation Facilities Equipment	14	03-Oct-25	20-Oct-25	23-Oct-24	07-Nov-24			SC2680: FF, DS6280: FS, SW1770: SS, EM1120: FS
SW1810	Install Radio Equipment	12	13-Oct-25	25-Oct-25	10-Feb-25	22-Feb-25			SC1990: FF, DS4390: FS, DS6160: FS, DS6520: FS, SW1790: FS
SW1840	Signal Cable Laying	15	30-Oct-25	15-Nov-25	08-Nov-24	25-Nov-24			SW1770: FS, SW1780: FS, SW1800: FS, SW1820: FS, SW1830: FS, SW1790: FS
Portion 3 - CKL Branch Tunnel in TKO-LTT Site		95	01-Aug-25	22-Nov-25	23-Aug-24	19-Jun-25			
SW1850	Inspect Civil Provisions & Submit Inspection Report	3	01-Aug-25	04-Aug-25	23-Aug-24	26-Aug-24			AC1020: SS
SW1860	Rectify Civil Provision Defects by Others	7	05-Aug-25	12-Aug-25	27-Aug-24	03-Sep-24			SW1850: FS
Installation Works		68	13-Aug-25	03-Nov-25	04-Sep-24	22-Feb-25			
SW1870	Install CCTV Camera	29	13-Aug-25	15-Sep-25	07-Oct-24	09-Nov-24			SC1470: FF, DS4090: FS, DS6440: FS, SW1860: FS
SW1880	Install Detection Camera	29	13-Aug-25	15-Sep-25	07-Oct-24	09-Nov-24			SC2120: FF, DS4490: FS, DS6440: FS, DS7500: FS, SW1860: FS
SW1890	Install Cable Containments	36	13-Aug-25	23-Sep-25	04-Sep-24	18-Oct-24			SC2480: FF, DS6404: FS, DS6540: FS, SW1860: FS
SW1900	Install Traffic Control Devices	24	29-Aug-25	25-Sep-25	29-Oct-24	25-Nov-24			SC1210: FF, DS2810: FS, EM1650: FS, DS8250: FS, SW1870: SS 9, SW1880: SS 9, SW2220: SS 9
SW1910	Laying of Leaky Cable	36	08-Sep-25	21-Oct-25	09-Jan-25	22-Feb-25			SW1890: SS 6, SW1870: SS 22, SW1880: SS, SW1900: FF 6
SW1920	Signal Cable Laying	36	19-Sep-25	03-Nov-25	15-Oct-24	25-Nov-24			SW1890: SS 32, SW1900: FF, SW1870: SS 6, SW1880: SS 6
Site Commissioning Test		15	13-Oct-25	30-Oct-25	27-Mar-25	02-May-25			
TC1370	SCT of ET System	10	13-Oct-25	23-Oct-25	21-Apr-25	02-May-25			SC1750: FF, DS8960: FS, SW1920: SS 18, SW1910: SS 18, SW2250: SS 18, SW2240: SS 18
TC1380	SCT of Power Distribution System	15	13-Oct-25	30-Oct-25	27-Mar-25	14-Apr-25			SC2500: FF, SW1890: FS, SW1910: SS 28, SW2230: FS, SW2240: SS 24, DS9040: FS
TC1390	SCT of CCTV System	5	20-Oct-25	24-Oct-25	09-Apr-25	14-Apr-25			SC1500: FF, DS8940: FS, SW1870: FS, SW1920: SS 24, SW1910: SS 18, SW2220: FS, SW2250: SS 24, SW2240: SS 18
Submit Site Commissioning Test Report		25	24-Oct-25	22-Nov-25	22-May-25	19-Jun-25			



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DS5160	Submit ET System SCT Test Report	24	24-Oct-25	21-Nov-25	22-May-25	19-Jun-25			TC1370: FS
DS5170	Submit CCTV System SCT Test Report	24	25-Oct-25	22-Nov-25	22-May-25	19-Jun-25			TC1390: FS

