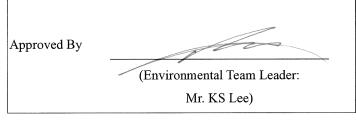
# **Civil Engineering and Development Department**

# Trunk Road T2 Monthly Environmental Monitoring and Audit Report (under EP-451/2013)

April 2025 (Version 1.0)



#### REMARKS:

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

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

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Ref.: CEDKTDT2EM00\_0\_0747L.25.doc

14 May 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 (April 2025) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for April 2025 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 13 May 2025. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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

CEDD C.C.

Attn.: Mr. Tommy Wong

By Fax: 2739 0076

**BTP** 

Attn.: Mr. Ivan Chau

By email

Cinotech

Attn.: Mr. K. S. Lee

By Fax: 3107 1388

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#### **EXECUTIVE SUMMARY**

#### Introduction

1. This is the 62<sup>nd</sup> Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of April 2025.

# Summary of Main Works Undertaken and Key Measures Implemented

2. The main works of each works contracts 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	• WVB – ABWF works
	Infrastructure Works for	• WVB – E&M works
	Developments at South	• WVB – External works
	Apron	• DPR – GRC panel subframe installation
		DPR – Parapet Installation
		DPR – Sign Gantry erection
		• SUS – E&M works
		• LSCC – RC Structure
		• LSCC – Backfilling
		TSS – WB internal structure from CP22
		to CP26
		• TSS – EB internal structure up to CP22
		CP – TSS WB Tympanum construction
ED/2020/03	ED/2020/03 Trunk Road T2 - Traffic • WVB - Installation of	
	Control And Surveillance	containment, cable laying, power
	System (TCSS) and	distribution, installation of PA Speaker
	Associated Works (1)	Cable laying from SUS to Service Adit and WVB
		Material delivery for TCSS Sub- systems
		Project Signboard in Works Area
		FAT for CSS Installation in WVB
		• SCT for LV Electrical Installation in WVB

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

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

Table 11 Summary of Key Whitgation Measures Implemented in the Reporting Monte			
Contract No. and Project Title	Key Mitigation Measures Implemented		
ED/2018/04 - Trunk Road T2	Air Quality  Weter approxima recovery on construction site area to avoid dust		
and Infrastructure Works for	Water spraying regularly on construction site area to avoid dust generation.		
Developments at South Apron	Excavated dusty materials were covered by impervious sheets.  Noise		
	<ul> <li>Air compressor was operated with door closed and have valid noise labels.</li> <li>Use of Quality Powered Mechanical Equipment (QPME)</li> <li>Erecting noise barriers on site to minimize noise impact generated from breaking activities.</li> </ul>		
	Water Quality		
	WetSep was constructed to treat the surface runoff prior to discharge.		
	Landscape and Visual		
	Tree protection zone was fenced off to protect the existing tree.		
ED/2020/03 - Trunk Road T2 - Traffic Control			
And Surveillance System (TCSS) and Associated Works (1)	N/A		

Notes

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

#### Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (April 2025) and the investigation results and/or follow-up actions:

Air Quality Monitoring

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

#### Construction Noise Monitoring

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

Landscape and Visual Monitoring and Audit

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

# Complaint Handling, Prosecution and Public Engagement

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

E4	Event Details		Follow-up/ Remedial Actions	Status/
Event	Number	<b>Brief Description</b>		Remarks
Complaints Received	0	-	-	-
Notification of Summons and Prosecutions Received	0	-	-	-
Public Engagement Activities	0	-	-	-

# **Reporting Changes**

5. No reporting change in this reporting month.

# **Future Key Issues**

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

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

Contract No. and	Site Activities (May 2025)	<b>Key Environmental</b>	
<b>Project Title</b>	Site Activities (May 2023)	Issues	
ED/2018/04 - Trunk	• WVB – ABWF works		
Road T2 and	• WVB – E&M works		
Infrastructure Works	W VB External Works		
for Developments at	• DPR – GRC panel subframe installation		
South Apron	• DPR – Parapet installation		
	• DPR – Sign gantry erection		
	• SUS – E&M works	(A)/(B)/(C)/(D)	
	• LSCC – RC Structure		
	• LSCC – Backfilling		
	• TSS – WB internal structure from CP22		
	to CP26		
	• TSS – EB internal structure up to CP22		
	• CP – TSS WB Tympanum construction		

ED/2020/03 - Trunk	•	Erection of Fencing Wall and Metal Gate	
Road T2 - Traffic		for Works Area	
Control And	•	Cable laying works & TCSS cabinet	NT/A
Surveillance System		inside Tunnel CP7-CP21 NCP side	N/A
(TCSS) and	•	Commissioning test for power	
Associated Works		distribution system at WVB IRER	

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

# **Review of Status and Location of Monitoring Stations**

7. According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in April 2025 and the review of status and location of monitoring stations are summarized as follow:

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

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

N/A: Not Applicable

#### 1 INTRODUCTION

#### **Background**

- 1.1 In 2009, Civil Engineering and Development Department (CEDD) commissioned a Kai Tak Development (KTD) Trunk Road T2 and Infrastructure at South Apron Investigation. The assignment covers the provision of the Trunk Road T2 and its connections with the Central Kowloon Route (CKR) at the north apron area and the Tseung Kwan O Lam Tin Tunnel (TKOLTT) to the south in the Cha Kwo Ling area.
- 1.2 The Trunk Road T2 Project is one of the designated Projects under Schedule 2 of the EIAO proposed in the KTD. CEDD submitted the Project Profile (No. PP-379/2009) on 24 March 2009 for application for an EIA study brief for the Trunk Road T2 Project under the EIAO. Accordingly, an EIA Study Brief (ESB-203/2009) for the Trunk Road T2 Project was issued on 30 April 2009. The Environmental Impact Assessment (EIA) Report for the Trunk Road T2 Project was approved under the Environmental Impact Assessment Ordinance (EIAO) on 19 September 2013. The corresponding Environmental Permit (EP) was issued on 19 September 2013 (EP no.: EP-451/2013).
- 1.3 The Contract No. ED/2018/04 is the main contract of Trunk Road T2 ("T2 Main Works") which comprises mainly the design and construction of a dual two-lane trunk road of approximately 3.4km long with about 3.1km 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 at Kai Tak area under the Contract ED/2018/04 and ED/2020/03 are governed by the EP-451/2013 and EM&A Manual (AEIAR-174/2013). The work areas of the Trunk Road T2 Project are shown in **Figure 1** and the works to be executed under each Contract and corresponding EP are summarized as follows:

<b>Environmental Permit</b>	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	

#### Monitoring Works in Kai Tak under EP-451/2013

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

Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 27 March 2021 (EPD reference: ( ) in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

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

- 1.5 The environmental impact of the remaining works in Cha Kwo Ling, under EP-451/2013, shall be monitored at the two proposed stations, namely CKL1, CKL2, in accordance to the EM&A Manual (AEIAR-174/2013). The impact monitoring for the two proposed stations shall be conducted by the ET of T2 Main Works.
- 1.6 Cinotech Consultants Ltd. Was designated as the Environmental Team (ET) to undertake the EM&A works for "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron" (hereinafter called the "Project") and "Trunk Road T2 –Traffic Control & Surveillance System (TCSS) and Associated Works".

#### **Purpose of the Report**

1.7 This is the 62<sup>nd</sup> Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in April 2025.

#### **Project Organizations**

- 1.8 Different Parties with different levels of involvement in the Project organization include:
  - Permit Holder Civil Engineering and Development Department (CEDD)
  - Supervisor Representative Hyder-Meinhardt Joint Venture (HMJV)
  - Environmental Team (ET) Cinotech Consultants Limited (Cinotech)
  - Independent Environmental Checker (IEC) Ramboll Hong Kong Limited (Ramboll)
  - Contractor Bouygues Travaux Publics (BTP) (For ED/2018/04) & GTECH Services (Hong Kong) Limited (For ED/2020/03)

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

**Table 1.1 Key Project Contacts** 

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotech		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

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

# Construction Activities undertaken during the Reporting Month

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

 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	• WVB – ABWF works
	Infrastructure Works for	• WVB – E&M works
	Developments at South	• WVB – External works
	Apron	• DPR – GRC panel subframe installation
		DPR – Parapet Installation
		DPR – Sign Gantry erection
		• SUS – E&M works
		• LSCC – RC Structure
		• LSCC – Backfilling
		• TSS – WB internal structure from CP22
		to CP26
		• TSS – EB internal structure up to CP22
		• CP – TSS WB Tympanum construction
ED/2020/03	Trunk Road T2 – Traffic	• WVB – Installation of TCSS cable
	Control And Surveillance	containment, cable laying, power
	System (TCSS) and	distribution, installation of PA Speaker
	Associated Works	• Cable laying from SUS to Service Adit and WVB
		Material delivery for TCSS Sub- systems
		Project Signboard in Works Area
		FAT for CSS Installation in WVB
		SCT for LV Electrical Installation in WVB

- 1.12 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
  - All monitoring parameters;
  - Action and Limit levels for all environmental parameters;
  - Event Action Plans;
  - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.13 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 10** of this report.
- 1.14 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in April 2025.

# **Status of Environmental Licensing and Permitting**

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

Table 1.3 Summary of Environmental License and Permit

Contract	D 1///	Valid	G		
No. Permit / License No.		From	То	Status	
Environment	al Permit (EP)				
N/A	EP-451/2013	19 Sep 2013	N/A	Valid	
Notification p	oursuant to Air Pollution (Construction	on Dust) Regula	tion		
ED/2018/04	Ref. No.: 451120	20 Nov 2019	N/A	Valid	
ED/2020/03	Ref. No.: 483143	15 Aug 2022	N/A	Valid	
Billing Accou	nt for Construction Waste Disposal				
ED/2018/04	A/C No.: 7036016	09 Dec 2019	N/A	Valid	
ED/2020/03	A/C No.: 7043158	31 Jan 2022	N/A	Valid	
Billing Accou	nt for Vessel Disposal				
ED/2018/04	A/C No.: 7037747 (Application No.: CEDD01260)	26 Apr 2025	25 Jul 2025	Valid	
Construction	Construction Noise Permit				
ED/2019/04	CNP No. (For Launching Shaft and Barging Point): GW-RE1660-24	30 Dec 2024	29 Jun 2025	Valid	
ED/2018/04	CNP No. (For Depressed Road & Supporting Area): GW-RE0248-25	31 Mar 2025	29 Sep 2025	Valid	
Wastewater Discharge License					
	WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid	
ED/2018/04	WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 2026	Valid	
	WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid	

# Trunk Road T2 Monthly EM&A Report – April 2025

Contract	Permit / License No.	Valid 1	Status	
No.	Fermit / License No.	From	To	Status
	WT00046131-2025 (For Launching Shaft)	14 Apr 2025	31 Jul 2030	Valid
Chemical Wa	ste Producer License			
ED/2018/04	WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid
Marine Dumping Permit				
ED/2018/04	EP/MD/25-056	01 Apr 2025	30 Jun 2025	Valid

#### 2. AIR QUALITY

## **Monitoring Requirement**

2.1 According to the EM&A Manual (AEIAR-174/2013), 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

# **Monitoring Locations**

- 2.2 Five designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.
- 2.3 The monitoring location at Kai Tak area has been reviewed and updated to obtain the data with higher representative based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to KTD1 and KER1 respectively, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Monitoring location KTD2c was then further relocated to KTD2d after the review of status and location of monitoring station conducted in between February and March 2021.

**Table 2.1 Air Quality Monitoring Locations** 

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

#### **Monitoring Parameters and Frequency**

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

<b>Monitoring Stations</b>	Parameter	Period	Frequency
KTD1, KTD2d, KER1, CKL1 & CKL2	1-hour TSP	0700 – 1900	3 times per 6 days (as required in case of complaints)
KTD1, KTD2d, KER1, CKL1 & CKL2	24-hour TSP	24 hours	Once every 6 days

#### **Monitoring Equipment**

- 2.5 High Volume Samplers (HVS) in compliance with the specification stipulated in the EM&A Manual (AEIAR-174/2013), Section 2.2.1.4, were used to carry out 24-hour TSP monitoring. Direct reading dust meter were also used to measure 1-hour average TSP levels. The 1-hour sampling was determined by HVS to check the validity and accuracy of the results measured by direct reading method.
- 2.6 Wind data monitoring equipment was set at rooftop (about 41/F) of Yau Lai Estate Bik Lai House, Lam Tin for logging wind speed and wind direction such that the wind sensors were clear of obstructions or turbulence caused by building. The wind data monitoring equipment was recalibrated at least once every six months and the wind directions were divided into 16 sectors of 22.5 degrees each. Wind data is attached in **Appendix D**.
- 2.7 **Table 2.3** summarizes the equipment used for air quality monitoring. Copies of calibration certificates are attached in **Appendix C**.

Table 2.3 Air Quality Monitoring Equipment

Equipment Model		Quantity
HVS Sampler	TISCH Model: TE-5170 (Serial no. 0723, 1956,	5
n v S Sampler	10595, 1316, 5280)	3
Calibrator	TISCH Model: TE-5025A (Serial no. 3864)	1
Wind Anomometer	Davis Weather Monitor II, Model no. 7440	1
Wind Anemometer	(Serial no. MC01010A44)	1

#### **Monitoring Methodology**

# 1-hour TSP Monitoring

#### Measuring Procedures

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

(Sibata Model No.: LD-3B/LD-5R)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Set POWER to "ON" and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
- Push the knob at MEASURE position.

- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

# Maintenance/Calibration

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

#### 24-hour TSP Monitoring

#### Instrumentation

- 2.10 High volume samplers (HVS) (TISCH Model: TE-5170) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50). Moreover, the HVS also met all the requirements in Section 2.2 of the Annex II Specification.
- 2.11 The positioning of the HVS samplers are as follows:
  - A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
  - No two samplers shall be placed less than 2 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

- 2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
  - Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
  - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3 µm 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 (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
  - Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

#### Maintenance/Calibration

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

#### **Results and Observations**

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

Table 2.4 Major Dust Source during Air Quality Monitoring

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

# Comparison of EM&A Result with EIA Prediction

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

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 174/2013), μg/m <sup>3</sup>	Maximum 24-hr TSP Concentration in the Reporting Month (April 2025), μg/m <sup>3</sup>
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	90.9
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A (1)	N/A <sup>(1)</sup>	116.1
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	147.1
CKL1 - Flat 121 Cha Kwo Ling Village	N/A (1)	N/A <sup>(1)</sup>	138.7
CKL2 - Flat 103 Cha Kwo Ling Village	N/A (1)	N/A <sup>(1)</sup>	138.7

Remarks

2.20 In the reporting month, the 24-hour TSP concentration at KER1 and KTD1 were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

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

#### 3 NOISE

# **Monitoring Requirement**

3.1 According to the EM&A Manual (AEIAR-174/2013), construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix A** shows the established Action and Limit Levels for the environmental monitoring works.

#### **Monitoring Locations**

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

**Table 3.1 Noise Monitoring Stations** 

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

# **Monitoring Parameters, Frequency and Duration**

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

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
KTD1					Façade Measurement
KTD2d				L <sub>10</sub> (30 min.) dB(A)	Free Field Measurement
KER1	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L <sub>90</sub> (30 min.) dB(A)	Free Field Measurement
CKL1	weekdays			L <sub>eq</sub> (30 min.)	Free Field Measurement
CKL2				dB(A)	Free Field Measurement

**Table 3.2** Frequency and Parameters of Noise Monitoring

#### **Monitoring Equipment**

3.5 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L<sub>eq</sub>) and percentile sound pressure level (L<sub>x</sub>) that also complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 3.3** summarizes the noise monitoring equipment being used within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

**Table 3.3** Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial no. 570187, 580238, 620091) SVAN 957 (Serial no. 23851)	4
Calibrator	AWA6021A (Serial no.1023253, 1023064)	2

# Monitoring Methodology and QA/QC Procedure

- 3.6 The monitoring procedures are as follows:
  - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement

- was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

#### **Maintenance and Calibration**

- 3.7 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.8 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.9 Immediately prior to and following each noise measurement the accuracy of the sound level meter was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

#### **Results and Observations**

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

**Table 3.4** Other Noise Source Identified during Noise Monitoring

<b>Monitoring Stations</b>	Major Noise Source		
KTD 1	<ul> <li>Project related construction activities (Loading and unloading of C&amp;D waste, travel of vehicles, use of PME and other plants, and other construction activities);</li> <li>Vehicle movement in the site;</li> <li>Road traffic along Shing Cheong Road; and,</li> <li>Non-project related construction activities at the nearby construction site of New Acute Hospital.</li> </ul>		
KTD 2d	<ul> <li>Project related construction activities (Loading and unloading of C&amp;D waste, travel of vehicles, use of PME and other plants, and other construction activities);</li> <li>Vehicle movement in the site; and,</li> <li>Non-project related construction activities. (i.e excavating work, Loading and unloading of C&amp;D wastes at the nearby construction site of Additional District Cooling System at Kai Tak Development, Paul Y. Engineering.)</li> </ul>		

<b>Monitoring Stations</b>	Major Noise Source	
	Road traffic along Kai Hing Road.	
KER 1	<ul> <li>Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities)</li> </ul>	
CKL1	Road traffic along Cha Kwo Ling Road.	
CKL2	Road traffic along Cha Kwo Ling Road	

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

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

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

# Comparison of EM&A Result with EIA Prediction

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

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (April 2025), Leq (30min) dB(A)
KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	71.2
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A (1)	N/A <sup>(1)</sup>	66
KER1 – Future Residential Development at Kerry Godown	KER1	75	73
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	73
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75

Remarks

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

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

#### 4 WATER QUALITY

#### **Monitoring Requirement**

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

#### 5 MARINE ECOLOGY

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

#### **6 FISHERIES**

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

#### 7 LANDSCAPE AND VISUAL

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

**Table 7.1** Construction Phase Landscape and Visual Mitigation Measures

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

7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting

should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12-month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.

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

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

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

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

#### 8 CULTURAL HERITAGE

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

#### 9 WASTE MANAGEMENT

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

#### 10 ENVIRONMENTAL AUDIT

#### **Site Audits**

- 10.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 10.2 Site audits for each contract were conducted as follows.
  - ED/2018/04 Site audit was conducted on 03, 10, 17, 24 & 30 April 2025 in the reporting month. Site inspection of the IEC was conducted on 24 April 2025. No non-compliances were observed during site audits.
  - ED/2020/03 Site audit was conducted on 03, 11, 17, 24 & 30 April 2025 in the reporting month. Site inspection of the IEC was conducted on 11 April 2025. No non-compliance was observed during the site audits.

#### **Implementation Status of Environmental Mitigation Measures**

- 10.3 According to Environmental Permits, the approved EIA Reports (Register No.: AEIAR-174/2013 and AEIAR-173/2013), and the EM&A Manuals of the Project (AEIAR-174/2013 and AEIAR-173/2013), the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.
- 10.4 The ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in **Table 10.1**. Refer to **Appendix I** for the site inspection summary reports in the reporting month.

Table 10.1 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

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

#### **Implementation Status of Event and Action Plans**

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

Air Quality Monitoring

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

Construction Noise Monitoring

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

Landscape and Visual

No landscape and visual non-conformity were recorded.

# Status of Required Submission under Environmental Permit

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

Table 10.2 Status of Required Submission under Environmental Permit

<b>EP Condition</b>	Submission	<b>Submission Date</b>		
EP-451/2013	EP-451/2013			
Condition 2.3	Management Organization of Main Construction Companies for ED/2018/04	20 January 2020		
Condition 2.3	Management Organization of Main Construction Companies for ED/2020/03	21 March 2023		
Condition 2.4	Design Drawing of the Project	20 January 2020		
Condition 2.5	Landscape Mitigation Plan (Rev. F)	25 November 2022		
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015		
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016		
Condition 3.3	Updated Baseline Monitoring Report	3 November 2020		
Condition 3.4	Monthly EM&A Report (March 2025) for ED/2018/04 and ED/2020/03	10 April 2025		

#### 11 ENVIRONMENTAL NON-CONFORMANCE

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

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

#### **Summary of Exceedance**

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

#### 12 FUTURE KEY ISSUES

- 12.1 Tentative construction programmes for the next three months are provided in **Appendix N**.
- 12.2 Major site activities undertaken for the coming months and the key environmental issues are summarized as follows:

Table 12.1 Summary Table for Site Activities and the Key Environmental Issues in the next Reporting Period

Contract No. and Project Title	Site Activities (May 2025)	Key Environmental Issues
ED/2018/04 - Trunk Road T2 and Infrastructure Works for Developments at South Apron	<ul> <li>WVB – ABWF works</li> <li>WVB – E&amp;M works</li> <li>WVB – External works</li> <li>DPR – GRC panel subframe installation</li> <li>DPR – Parapet installation</li> <li>DPR – Sign gantry erection</li> <li>SUS – E&amp;M works</li> <li>LSCC – RC Structure</li> <li>LSCC – Backfilling</li> <li>TSS – WB internal structure from CP22 to CP26</li> <li>TSS – EB internal structure up to CP22</li> <li>CP – TSS WB Tympanum construction</li> </ul>	<ul> <li>Wheel washing bay at site exits;</li> <li>Temporary noise barriers for PMEs;</li> <li>Sedimentation tank for settling muddy water; and</li> <li>Make sure open stockpiles are covered during rainstorm.</li> </ul>
ED/2020/03 - Trunk Road T2 - Traffic Control And Surveillance System (TCSS) and Associated Works <sup>(1)</sup>	<ul> <li>Erection of Fencing Wall and Metal Gate for Works Area</li> <li>Cable laying works &amp; TCSS cabinet inside Tunnel CP7-CP21 NCP side</li> <li>Commissioning test for power distribution system at WVB IRER</li> </ul>	<ul> <li>The waste should be removed regularly and litter free.</li> <li>The storage area should be kept tidy.</li> </ul>

Contract No. and Project Title	Site Activities (May 2025)	Key Environmental Issues

Notes:

(1): No major construction work was undertaken during reporting month.

N/A: Not applicable

# **Monitoring Schedule**

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

#### 13 CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

13.1 This is the 62<sup>nd</sup> Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

#### **Air Quality Monitoring**

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

#### **Construction Noise Monitoring**

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

#### Site Audit

- 13.5 Five (5) ET joint weekly environmental site inspections were conducted for the Contact No. ED/2018/04 in the reporting month.
- 13.6 Five (5) ET joint environmental site inspections were conducted for the Contact No. ED/2020/03 in the reporting month.

# Complaint, Notification of Summons and Successful Prosecution

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

#### Recommendations

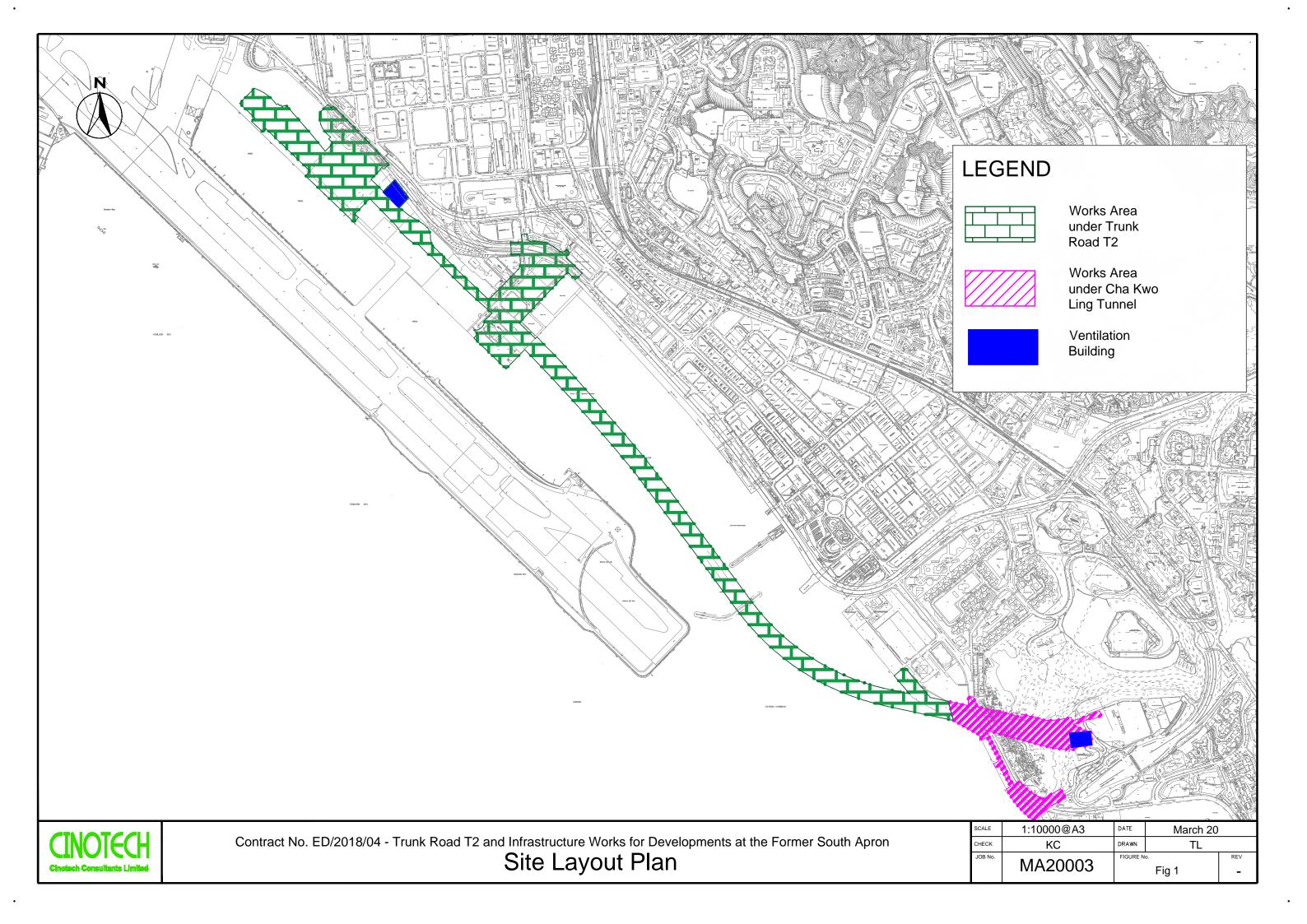
13.8 According to the environmental audit performed in the reporting month, the following recommendations was made:

# ED/2018/04

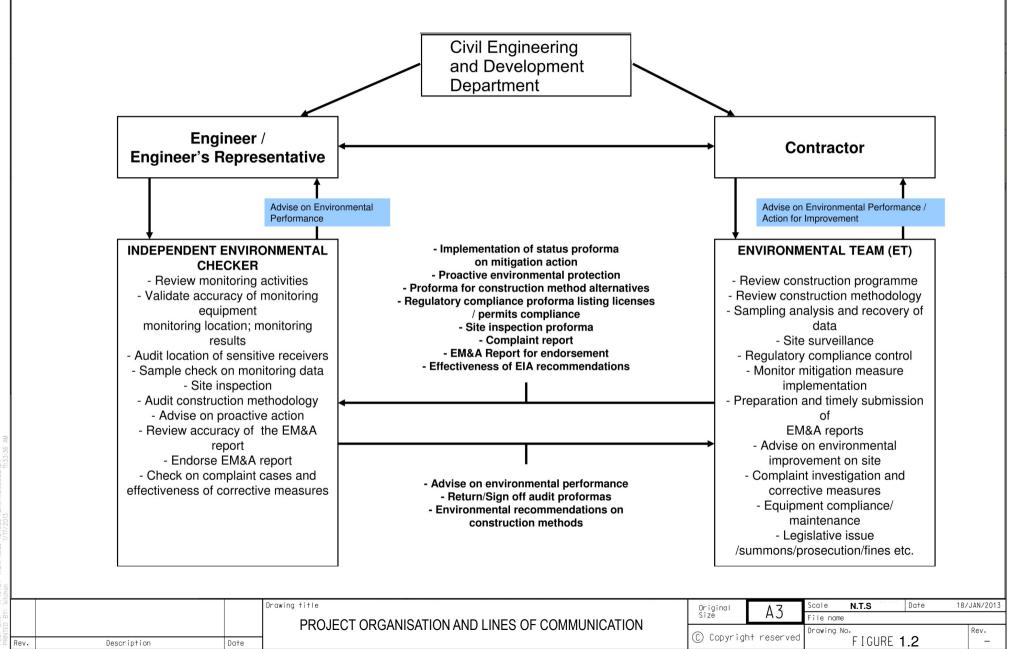
# Water Quality

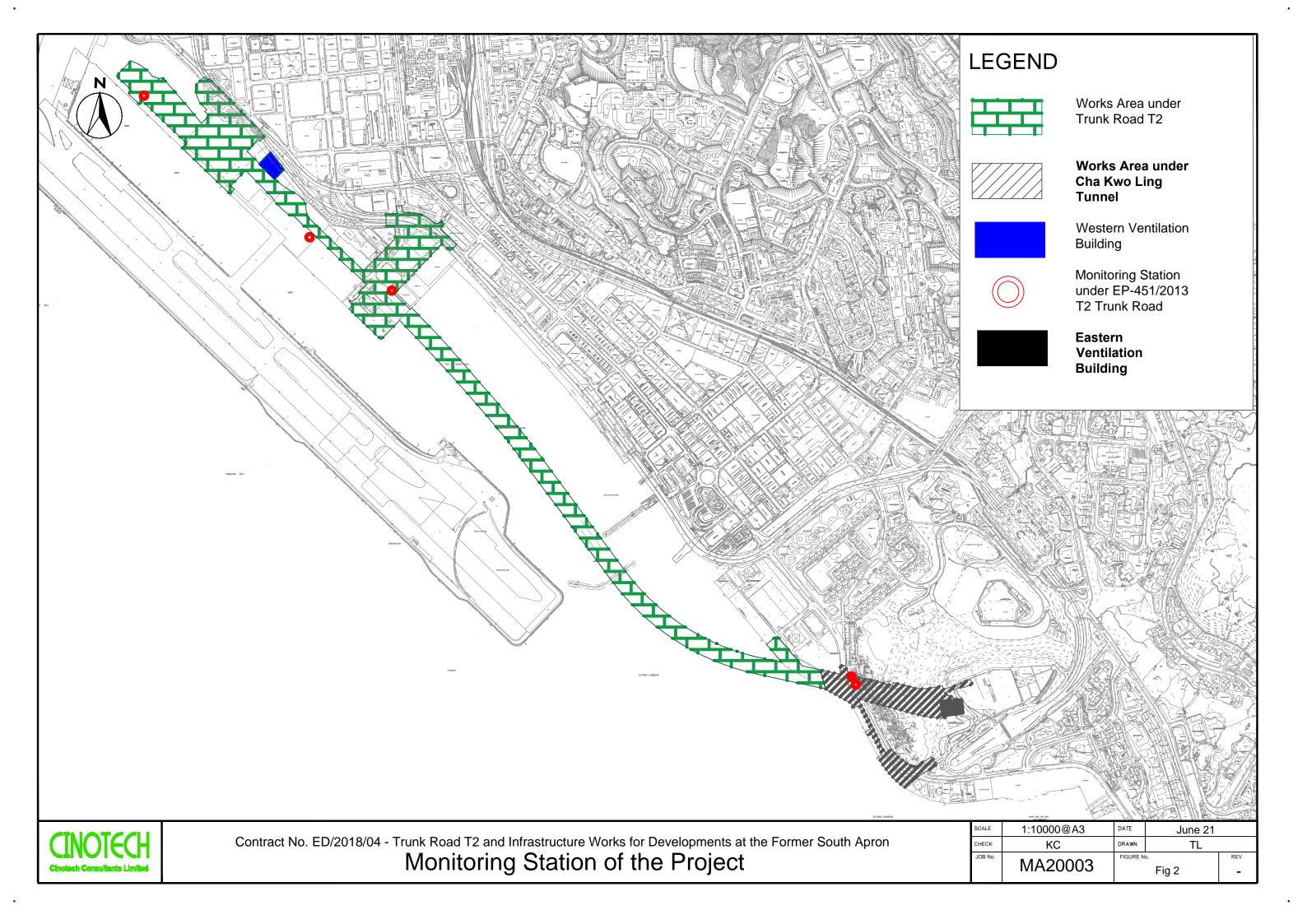
• Ponding water should be removed.

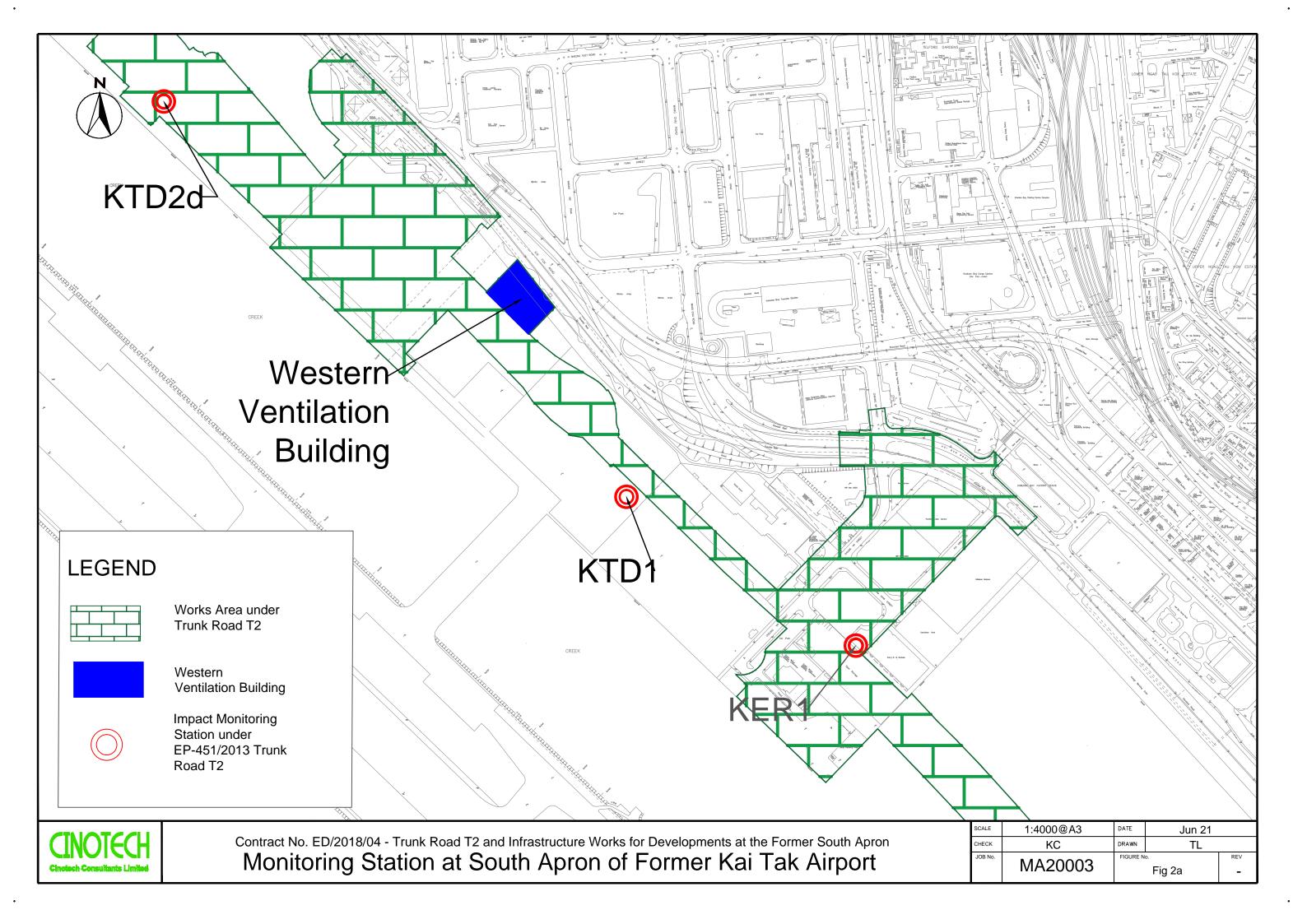
**FIGURES** 

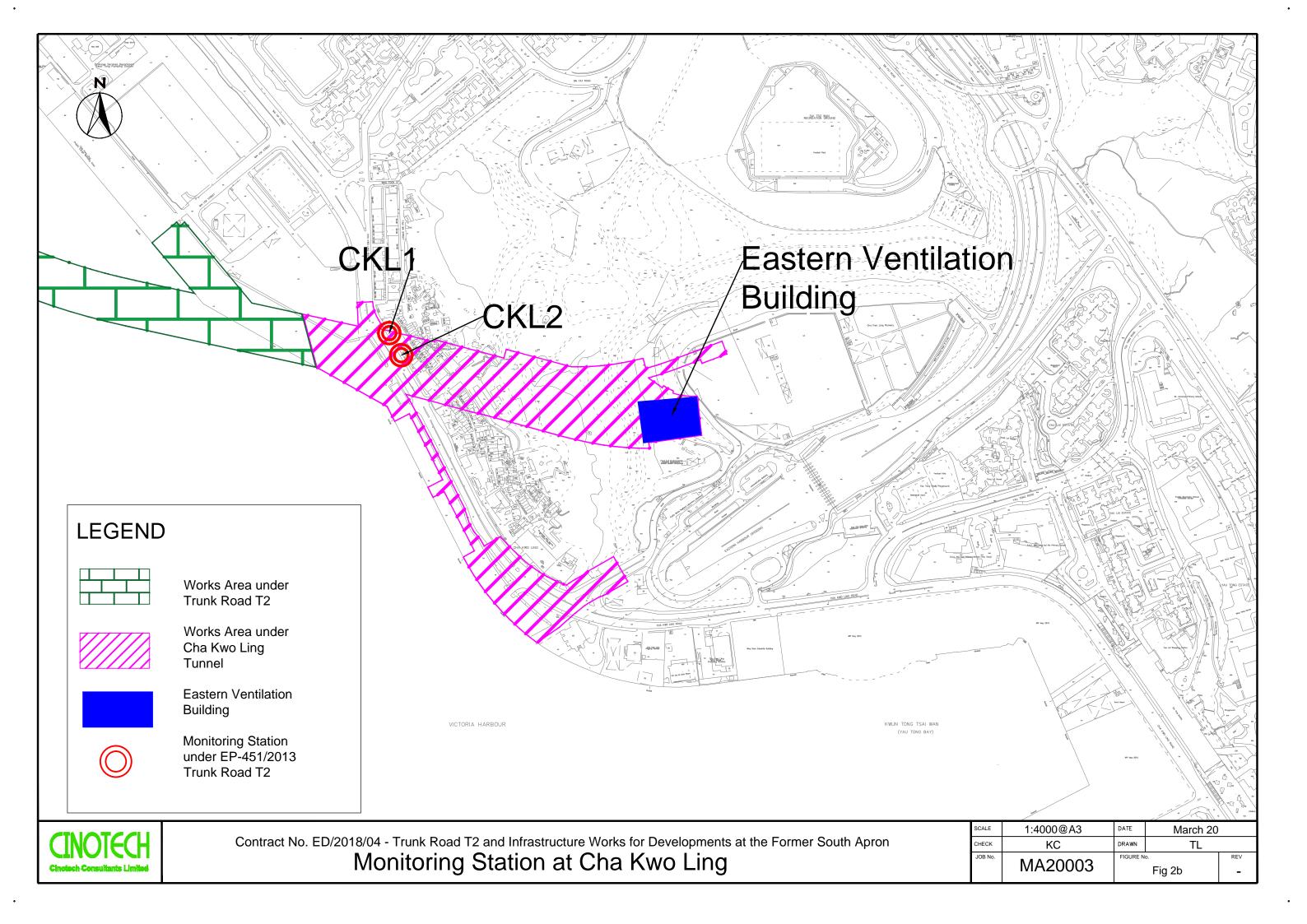












## APPENDIX A ACTION AND LIMIT LEVELS

#### Appendix A - Action and Limit Levels

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

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

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

Location	Action Level, μg/m <sup>3</sup>	Limit Level, μg/m³
KTD1	177	
KTD2d	157	
KER1	172	260
CKL1	191	
CKL2	183	

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

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

Note:

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

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

### Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Impact Air and Noise Monitoring Schedule (April 2025)

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

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

#### **Air Quality Monitoring Station**

24-hr TSP

KTD1 - Centre of Excellence in Paediatrics (Children's Hospital) KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village CKL2 - Flat 103 Cha Kwo Ling Village

#### Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

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

#### Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (May 2025)

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

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

#### **Air Quality Monitoring Station**

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

#### Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

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

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

#### Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative Impact Air and Noise Monitoring Schedule (June 2025)

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

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

#### **Air Quality Monitoring Station**

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

#### Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

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

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

#### Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Tentative 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-hr TSP
6-Jul	7-Jul	8-Jul	9-Jul	10-Jul	11-Jul	12-Jul
				24-hr TSP	Noise	
13-Jul	14-Jul	15-Jul	16-Jul	17-Jul	18-Jul	19-Jul
			24-hr TSP	Noise		
20-Jul	21-Jul	22-Jul	23-Jul	24-Jul	25-Jul	26-Jul
		24-hr TSP	Noise			
27-Jul	28-Jul	29-Jul	30-Jul	31-Jul		
	24-hr TSP	Noise				

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

#### **Air Quality Monitoring Station**

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

#### Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

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

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

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



#### **Certificate of Calibration - Wind Monitoring Station**

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

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

Serial No.: <u>MC01010A44</u>

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

Date of Calibration <u>17-Feb-2025</u>

Next Due Date <u>17-Aug-2025</u>

#### 1. Performance check of Wind Speed

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

#### 2. Performance check of Wind Direction

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

#### **Test Specification:**

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

Calibrated by:

Wong Shing Kwai

Approved by:

Henry/Leung





# 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	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(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	
	m=	2.08969		m=	1.30853	
QSTD	b=	-0.02374	QA	b=	-0.01464	
	r=	0.99985		r=	0.99985	

Calculations					
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va=	ΔVol((Pa-ΔP)/Pa)		
Qstd=	Vstd/∆Time	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				
Pstd:	760 i	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	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

# **High-Volume TSP Sampler** 5-POINT CALIBRATION DATA SHEET



						File No. N	MA20003/18/031
Project No.	CKL 1 - Flat 12:	1 Cha Kwo Ling	Village				
Date:		ar-25		6-M	May-25	Operator:	SK
	A-01				5170		
Equipment 110	71-0	1-10	Wiodel Ivo		7.5170	Deriai No.	0723
			Ambient	Condition			
Temperatu	re, Ta (K)	287.5	Pressure, Pa	ı (mmHg)		764.8	
	T		rifice Transfer St	1			
Serial		3864	Slope, mc	0.05914	Intercept		-0.02377
Last Calibra		7-Jan-25			$c = [\Delta H \times (Pa/76)] \times (Pa/760) \times (298)$		
Next Calibra	ation Date:	7-Jan-26		$\mathbf{Qsta} = \{ [\Delta \mathbf{H} \ \mathbf{x} ] \}$	K (Pa/700) X (298)	/1a)] -bc}/m	<u> </u>
		•	Calibration of	f TSP Sampler			
Callback and		Or	fice	<u> </u>		HVS	
Calibration Point	ΔH (orifice), in. of water		0) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	· ·	) x (298/Ta)] <sup>1/2</sup> <b>Y-</b> axis
1	13.2	,	3.71	63.14	9.1	,	3.08
2	10.4		3.29	56.09	7.3	,	2.76
3	8.3		2.94	50.15	5.4		2.37
4	6.1	<u>'</u>	2.52	43.05	3.7		1.96
5	3.0		1.77	30.31	1.6		1.29
By Linear Regr Slope , mw = Correlation		_	9991	Intercept, bw :	-0.397	70	
	coefficient < 0.99	-		_			
'II Correlation C	Joennelent < 0.99	o, check and rec	anorate.				
			Set Point (	Calculation			
From the TSP Fi	eld Calibration C	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, th	e "Y" value acco	ording to				
		v. (	$\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W}]$	v. (Do/760) v. (2	000/Ta)1 <sup>1/2</sup>		
		mw x C	$\mathbf{v}_{\mathbf{M}} = \mathbf{v}_{\mathbf{M}} + \mathbf{n}_{\mathbf{M}}$	X (Fa/700) X (2	290/1a)j		
Therefore, Se	et Point; W = ( m	w x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x (	Ta / 298 ) =	3.78		
Remarks:							
				<u></u>			
Conducted by:	Wong Sh	ing Kwai	Signature	·	火-	Date:	6-Mar-25
Checked by:	Henry	Leung	Signature:	- lem	y Olony	Date:	6-Mar-25

# High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/031 Project No. CKL 2 - Flat 103 Cha Kwo Ling Village 6-Mar-25 Next Due Date: 6-May-25 Date: Operator: SK Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956 **Ambient Condition** Temperature, Ta (K) 287.5 Pressure, Pa (mmHg) 764.8 **Orifice Transfer Standard Information** 0.05914 Intercept, bc 3864 Slope, mc -0.02377 Serial No.  $mc \times Ostd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ 7-Jan-25 Last Calibration Date: Qstd =  $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ 7-Jan-26 Next Calibration Date: **Calibration of TSP Sampler** Orfice Calibration  $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$  $\Delta H$  (orifice), Ostd (CFM)  $\Delta W$  (HVS), in.  $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in. of water X - axis of water Y-axis 1 13.5 3.75 63.85 9.1 3.08 7.2 2.74 2 11.0 3.39 57.68 9.1 3.08 52.50 5.6 2.42 4 5.1 2.31 39.40 2.6 1.65 1.9 5 3.8 1.99 34.07 1.41 By Linear Regression of Y on X Slope , mw = 0.0571 Intercept, bw : -0.5684 Correlation coefficient\* = \*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 =  $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point;  $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 3.42$ Remarks: Conducted by: Wong Shing Kwai Checked by: Henry Leung

### **High-Volume TSP Sampler**

#### 5-POINT CALIBRATION DATA SHEET



File No. MA20003/04/0029

Project No.	KER 1 - Future	Residential Deve	elopment at Kerry (	Godown		_	
Date:	13-Mar-25		Next Due Date:	13-May-25		Operator:	SK
Equipment No.:	A-0	1-04	Model No.:	TE	E 5170	Serial No.	10595
			Ambient C	ondition			
Temperatu	re, Ta (K)	297.3	Pressure, Pa			760.1	
•	•			·			
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	l No.	3864	Slope, mc	0.05914	Intercept		-0.02377
Last Calibra	ation Date:	7-Jan-25			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	7-Jan-26	(	$Qstd = \{ [\Delta H \ x ] \}$	(Pa/760) x (298/	Γa)] <sup>1/2</sup> -bc} / m	c
	l		Calibration of 7	TSP Sampler		TTTO	
Calibration	ΔH (orifice),		fice	Octd (CEM)	AW (IIVG) :	HVS	50) x (298/Ta)] <sup>1/2</sup>
Point	in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	$\Delta$ W (HVS), in. of water		50) x (298/1a)] 7 <b>-axis</b>
1	13.0		3.61	61.44	8.5		2.92
2	10.8		3.29	56.04	7.2		2.69
3	8.7		2.95	50.34	5.6		2.37
4	5.1		2.26	38.64	3.2		1.79
5	3.9		1.98	33.84	2.2		1.49
Slope , mw =	cession of Y on Y  0.0518  coefficient* =	_	. <b>9990</b>	Intercept, bw :	-0.238	32	
*If Correlation C	Coefficient < 0.99	90, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (	Curve, take Qstd					
From the Regres	sion Equation, th	ne "Y" value acco	ording to				
				(D. (E.(0)) (A)	20/57 > 1/2		
		mw x (	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)]***		
Therefore, Se	et Point; W = ( m	w x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	3.94		
_							
Remarks:							
				. 1 .	. 1		
Conducted by:	Wong Sh	ning Kwai	Signature:		<u> </u>	Date:	13-Mar-25
Checked by:	Henry	Leung	Signature:	\-Pa.	2 (X2)	Date:	13-Mar-25

### **High-Volume TSP Sampler**

#### 5-POINT CALIBRATION DATA SHEET



File No. MA20003/44/0028

Project No.	KTD1 - Centre o	of Excellence in	Paediatrics (Childr	en's Hospital)			
Date:	13-M	ar-25	Next Due Date:	Date:         13-May-25           No.:         TE-5170		Operator:	SK
Equipment No.:	A-01	1-44	Model No.:			Serial No.	1316
			Ambient C	ondition			
Temperatur	re, Ta (K)	297.3	Pressure, Pa			760.1	
*	, , , ,		<u>,                                      </u>	ν υ/			
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05914	Intercept	t, bc	-0.02377
Last Calibra	ntion Date:	7-Jan-25			$c = [\Delta H \times (Pa/760]]$		
Next Calibra	ation Date:	7-Jan-26		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x} ] \}$	(Pa/760) x (298/	Γa)] <sup>1/2</sup> -bc} / m	c
			Calibration of	TSP Sampler			
Calibration		Oı	fice	1		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] <sup>1/2</sup> '-axis
1	13.5		3.68	62.61	9.1		3.02
2	11.4		3.38	57.56	7.5		2.74
3	9.3		3.05	52.03	5.7		2.39
4	6.0		2.45	41.87	3.6		1.90
5	3.6		1.90	32.52	2.0		1.42
By Linear Regr	ession of Y on X	<u>.</u>	]	Intercept, bw :	-0.324	14	
Correlation	coefficient* =	0	.9991	<u>-</u>			
*If Correlation C	Coefficient < 0.99	0, check and rec	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration C	urve, take Qstd					
	sion Equation, the						
					1/2		
		mw x (	$\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] <sup>1/2</sup>		
Therefore, Se	et Point; W = ( m	w x Qstd + bw)	<sup>2</sup> x ( 760 / Pa ) x ( 7	Γa / 298 ) =	3.83		
Remarks:							
				. 1.			
Conducted by:	Wong Sh	ing Kwai	Signature:	χ'n	<u> </u>	Date:	13-Mar-25
<b>,</b>			_		• · · · · · · · · · · · · · · · · · · ·	· <u> </u>	
Checked by:	Henry	Leung	Signature:	1-0	X1927	Date	13-Mar-25

# **High-Volume TSP Sampler** 5-POINT CALIBRATION DATA SHEET



File No. MA20003/41/0028

Project No.	KTD 2D - Next	to the SOR Offic	ce of Trunk Road T	2 in Kai Tak A	area			
Date:	13-Mar-25		13-Mar-25 Next l	Next Due Date:	t Due Date: 13-May-25		Operator:	SK
		01-41	-		E 5170	· ·	5280	
			Ambient C	ondition				
Temperatur	re Ta (K)	297.3	Pressure, Pa			760.1		
Temperatur	ic, 1a (K)	2)1.3	Tressure, Ta	(IIIIIIIg)		700.1		
Orifice Transfer Standard Information								
Serial No. 3864 Slope, mc 0.05914 Intercept, bc -0.05					-0.02377			
Last Calibra	ation Date:	7-Jan-25	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	) x (298/Ta)]	1/2	
Next Calibra	ation Date:	7-Jan-26			(Pa/760) x (298/7			
			Calibration of T	TSP Sampler				
Calibration		Or	fice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] <sup>1/2</sup> <b>Y-axis</b>	
1	13.8		3.72	63.29	9.6		3.10	
2	11.6		3.41	58.06	8.5		2.92	
3	9.6		3.10	52.86	6.3		2.51	
4	7.1		2.67	45.51	4.4		2.10	
5	4.1		2.03	34.68	2.3		1.52	
By Linear Regression of Y on X  Slope , mw =								
			Set Point Ca	lculation				
From the TSP Field Calibration Curve, take Qstd = 43 CFM  From the Regression Equation, the "Y" value according to $\mathbf{mw} \times \mathbf{Qstd} + \mathbf{bw} = \left[\Delta \mathbf{W} \times (\mathbf{Pa/760}) \times (\mathbf{298/Ta})\right]^{1/2}$ Therefore, Set Point; W = ( mw x Qstd + bw ) <sup>2</sup> x ( 760 / Pa ) x ( Ta / 298 ) = 3.92								
Remarks:								
Conducted by:	Wong Sh	ning Kwai	Signature:	K	<u> </u>	Date:	13-Mar-25	
Checked by:	Henry	Leung	Signature:	Plea	Jan	Date:	13-Mar-25	

#### APPENDIX D WEATHER INFORMATION

Appendix D - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C) <sup>1</sup>	Mean Relative Humidity	Precipitation (mm) <sup>3</sup>
		(%) <sup>2</sup>	
1-Apr-25	16.1	67	0.0
2-Apr-25	18.6	63	0.0
3-Apr-25	20.6	57	0.0
4-Apr-25	19.9	72	Trace
5-Apr-25	19.3	90	7.3
6-Apr-25	20.5	74	Trace
7-Apr-25	22.1	64	0.0
8-Apr-25	23.2	72	0.0
9-Apr-25	24.1	77	0.0
10-Apr-25	24.6	80	0.0
11-Apr-25	25.0	85	Trace
12-Apr-25	24.6	81	6.9
13-Apr-25	21.8	32	Trace
14-Apr-25	22.6	49	0.0
15-Apr-25	25.8	48	0.0
16-Apr-25	24.0	73	0.0
17-Apr-25	24.5	78	0.0
18-Apr-25	24.9	90	3.5
19-Apr-25	26.3	86	0.1
20-Apr-25	27.1	79	0.0
21-Apr-25	26.9	79	0.0
22-Apr-25	27.3	78	0.0
23-Apr-25	27.8	77	0.0
24-Apr-25	27.5	78	0.5
25-Apr-25	25.2	88	18.9
26-Apr-25	22.3	85	Trace
27-Apr-25	22.2	92	0.8
28-Apr-25	25.3	85	19.1
29-Apr-25	25.4	64	0.0
30-Apr-25	25.2	75	0.0

(Reporting Month: April 2025)

#### Remarks:

Source - Hong Kong Observatory

<sup>&</sup>lt;sup>1-3</sup>Retrieved from Manned Weather Station (Hong Kong Observatory) (22°18′07" N, 114°10′27" E)

	April 2025					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
1 Apr 2025	12:00 AM	NW	2.8			
1 Apr 2025	1:00 AM	W	2.4			
1 Apr 2025	2:00 AM	W	2.7			
1 Apr 2025	3:00 AM	WSW	1.6			
1 Apr 2025	4:00 AM	SSW	1.4			
1 Apr 2025	5:00 AM	SSW	1.7			
1 Apr 2025	6:00 AM	SSW	1.8			
1 Apr 2025	7:00 AM	SW	1.4			
1 Apr 2025	8:00 AM	SSW	0.8			
1 Apr 2025	9:00 AM	WSW	0.9			
1 Apr 2025	10:00 AM	SSW	0.7			
1 Apr 2025	11:00 AM	SSW	0.8			
1 Apr 2025	12:00 PM	S	1.3			
1 Apr 2025	1:00 PM	SSW	0.9			
1 Apr 2025	2:00 PM	SSW	1.0			
1 Apr 2025	3:00 PM	SSW	0.7			
1 Apr 2025	4:00 PM	SSW	0.8			
1 Apr 2025	5:00 PM	SSW	1.5			
1 Apr 2025	6:00 PM	SSW	1.4			
1 Apr 2025	7:00 PM	S	2.0			
1 Apr 2025	8:00 PM	SSW	1.7			
1 Apr 2025	9:00 PM	S	1.4			
1 Apr 2025	10:00 PM	SSW	1.6			
1 Apr 2025	11:00 PM	SSW	1.7			
2 Apr 2025	12:00 AM	W	2.3			
2 Apr 2025	1:00 AM	W	2.1			
2 Apr 2025	2:00 AM	WSW	1.5			
2 Apr 2025	3:00 AM	SW	1.9			
2 Apr 2025	4:00 AM	SW	1.8			
2 Apr 2025	5:00 AM	SSW	1.6			
2 Apr 2025	6:00 AM	WSW	1.5			
2 Apr 2025	7:00 AM	SW	1.6			
2 Apr 2025	8:00 AM	SW	1.6			
2 Apr 2025	9:00 AM	SSW	1.6			
2 Apr 2025	10:00 AM	S	1.0			
2 Apr 2025	11:00 AM	S	1.2			
2 Apr 2025	12:00 PM	S	0.8			
2 Apr 2025	1:00 PM	S	1.1			
2 Apr 2025	2:00 PM	SSE	1.0			
2 Apr 2025	3:00 PM	S	1.3			
2 Apr 2025	4:00 PM	S	1.5			
2 Apr 2025	5:00 PM	SSW	1.2			
2 Apr 2025	6:00 PM	S	1.1			
2 Apr 2025	7:00 PM	SSW	0.7			
2 Apr 2025	8:00 PM	SSW	1.0			
2 Apr 2025	9:00 PM	SSW	1.4			
2 Apr 2025	10:00 PM	SSE	1.3			
2 Apr 2025	11:00 PM	SSW	1.3			
3 Apr 2025	12:00 AM	S	1.3			
3 Apr 2025	1:00 AM	SSE	1.4			
3 Apr 2025	2:00 AM	S	0.9			
3 Apr 2025	3:00 AM	SSE	1.1			
3 Apr 2025	4:00 AM	SSE	0.7			
3 Apr 2025	5:00 AM	SSW	0.6			
3 Apr 2025	6:00 AM	SSW	0.8			
3 Apr 2025	7:00 AM	S	0.7			
3 Apr 2025	8:00 AM	SSE	0.4			

	Apr	il 2025				
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
3 Apr 2025	9:00 AM	SSE	0.5			
3 Apr 2025	10:00 AM	S	0.6			
3 Apr 2025	11:00 AM	WSW	0.6			
3 Apr 2025	12:00 PM	S	0.7			
3 Apr 2025	1:00 PM	S	0.6			
3 Apr 2025	2:00 PM	S	0.4			
3 Apr 2025	3:00 PM	S	0.7			
3 Apr 2025	4:00 PM	S	0.6			
3 Apr 2025	5:00 PM	S	0.9			
3 Apr 2025	6:00 PM	SSE	0.4			
3 Apr 2025	7:00 PM	SSE	0.7			
3 Apr 2025	8:00 PM	S	0.9			
3 Apr 2025	9:00 PM	SSE	1.2			
3 Apr 2025	10:00 PM	SSE	1.5			
3 Apr 2025	11:00 PM	S	1.9			
4 Apr 2025	12:00 AM	SSE	1.3			
4 Apr 2025	1:00 AM	SSE	2.4			
4 Apr 2025	2:00 AM	SSW	1.1			
4 Apr 2025	3:00 AM	SSW	0.4			
4 Apr 2025	4:00 AM	SSE	0.8			
4 Apr 2025	5:00 AM	SSW	0.4			
4 Apr 2025	6:00 AM	SE	0.6			
4 Apr 2025	7:00 AM	S	0.8			
4 Apr 2025	8:00 AM	S	1.0			
4 Apr 2025	9:00 AM	SSE	0.2			
4 Apr 2025	10:00 AM	SSW	0.5			
4 Apr 2025	11:00 AM	S	0.6			
4 Apr 2025	12:00 PM	S	0.5			
4 Apr 2025	1:00 PM	S	0.2			
4 Apr 2025	2:00 PM	SSE	1.1			
4 Apr 2025	3:00 PM	SSE	1.3			
4 Apr 2025	4:00 PM	S	0.7			
4 Apr 2025	5:00 PM	S	1.4			
4 Apr 2025	6:00 PM	SSW	2.3			
4 Apr 2025	7:00 PM	S	2.4			
4 Apr 2025	8:00 PM	S	2.0			
4 Apr 2025	9:00 PM	S	1.6			
4 Apr 2025	10:00 PM	S	1.5			
4 Apr 2025	11:00 PM	SSE	1.9			
5 Apr 2025	12:00 AM	SSE	1.1			
5 Apr 2025	1:00 AM	S	1.3			
5 Apr 2025	2:00 AM	SW	1.8			
5 Apr 2025	3:00 AM	S	0.8			
5 Apr 2025	4:00 AM	SW	0.7			
5 Apr 2025	5:00 AM	SSE	0.9			
5 Apr 2025	6:00 AM	SSW	0.9			
5 Apr 2025	7:00 AM	SSW	1.5			
5 Apr 2025	8:00 AM	SSW	1.6			
5 Apr 2025	9:00 AM	SSW	1.0			
5 Apr 2025	10:00 AM	WSW	1.5			
5 Apr 2025	11:00 AM	SW	1.0			
5 Apr 2025	12:00 PM	WSW	1.4			
5 Apr 2025	1:00 PM	SSW	0.9			
5 Apr 2025	2:00 PM	SW	1.0			
5 Apr 2025	3:00 PM	SSW	0.8			
5 Apr 2025	4:00 PM	SSW	0.8			
5 Apr 2025	5:00 PM	S	1.2			

	April 2025					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
5 Apr 2025	6:00 PM	S	1.5			
5 Apr 2025	7:00 PM	S	1.7			
5 Apr 2025	8:00 PM	S	1.6			
5 Apr 2025	9:00 PM	S	1.9			
5 Apr 2025	10:00 PM	S	1.4			
5 Apr 2025	11:00 PM	SSE	1.6			
6 Apr 2025	12:00 AM	SE	1.7			
6 Apr 2025	1:00 AM	SSE	1.7			
6 Apr 2025	2:00 AM	S	1.4			
6 Apr 2025	3:00 AM	SSE	0.9			
6 Apr 2025	4:00 AM	W	1.8			
6 Apr 2025	5:00 AM	SSE	0.9			
6 Apr 2025	6:00 AM	WSW	1.1			
6 Apr 2025	7:00 AM	WNW	1.6			
6 Apr 2025	8:00 AM	W	1.2			
6 Apr 2025	9:00 AM	SW	0.9			
6 Apr 2025	10:00 AM	WSW	1.3			
6 Apr 2025	11:00 AM	WSW	1.0			
6 Apr 2025	12:00 PM	SSW	0.6			
6 Apr 2025	1:00 PM	SSE	0.4			
6 Apr 2025	2:00 PM	SSE	0.5			
6 Apr 2025	3:00 PM	S	0.5			
6 Apr 2025	4:00 PM	S	0.3			
6 Apr 2025	5:00 PM	S	1.0			
6 Apr 2025	6:00 PM	S	1.0			
6 Apr 2025	7:00 PM	SSW	1.1			
6 Apr 2025	8:00 PM	S	1.5			
6 Apr 2025	9:00 PM	SSW	1.4			
6 Apr 2025	10:00 PM	SSW	1.6			
6 Apr 2025	11:00 PM	S	1.5			
7 Apr 2025	12:00 AM	SE	1.8			
7 Apr 2025	1:00 AM	SE	1.4			
7 Apr 2025	2:00 AM	S	1.0			
7 Apr 2025	3:00 AM	WSW	1.2			
7 Apr 2025	4:00 AM	S	0.5			
7 Apr 2025	5:00 AM	SE	0.5			
7 Apr 2025	6:00 AM	S	0.2			
7 Apr 2025	7:00 AM	S	0.3			
7 Apr 2025	8:00 AM	SSE	0.2			
7 Apr 2025	9:00 AM	SSE	0.3			
7 Apr 2025	10:00 AM	S	0.1			
7 Apr 2025	11:00 AM	S	0.2			
7 Apr 2025	12:00 PM	SSE	0.0			
7 Apr 2025	1:00 PM	S	0.0			
7 Apr 2025	2:00 PM	S	0.0			
7 Apr 2025	3:00 PM	S	0.3			
7 Apr 2025	4:00 PM	SSW	1.2			
7 Apr 2025	5:00 PM	SSW	1.5			
7 Apr 2025	6:00 PM	SSW	2.3			
7 Apr 2025	7:00 PM	SSW	2.8			
7 Apr 2025	8:00 PM	SSW	2.8			
7 Apr 2025	9:00 PM	SW	2.7			
7 Apr 2025	10:00 PM	SSW	2.8			
7 Apr 2025	11:00 PM	S	2.6			
8 Apr 2025	12:00 AM	SSW	2.5			
8 Apr 2025	1:00 AM	SSW	2.5			
8 Apr 2025	2:00 AM	SSW	2.0			

	Apr	il 2025				
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
8 Apr 2025	3:00 AM	WNW	3.0			
8 Apr 2025	4:00 AM	WNW	2.5			
8 Apr 2025	5:00 AM	WNW	2.8			
8 Apr 2025	6:00 AM	WSW	1.8			
8 Apr 2025	7:00 AM	W	3.0			
8 Apr 2025	8:00 AM	W	2.2			
8 Apr 2025	9:00 AM	SSW	1.6			
8 Apr 2025	10:00 AM	SW	1.3			
8 Apr 2025	11:00 AM	SSW	0.9			
8 Apr 2025	12:00 PM	S	0.8			
8 Apr 2025	1:00 PM	S	0.7			
8 Apr 2025	2:00 PM	S	1.3			
8 Apr 2025	3:00 PM	SSW	0.4			
8 Apr 2025	4:00 PM	S	1.0			
8 Apr 2025	5:00 PM	S	1.4			
8 Apr 2025	6:00 PM	S	1.6			
8 Apr 2025	7:00 PM	SSE	1.3			
8 Apr 2025	8:00 PM	SSE	1.4			
8 Apr 2025	9:00 PM	SSW	1.1			
8 Apr 2025	10:00 PM	SSW	1.0			
8 Apr 2025	11:00 PM	S	1.2			
9 Apr 2025	12:00 AM	SSE	1.4			
9 Apr 2025	1:00 AM	SSE	1.4			
9 Apr 2025	2:00 AM	SSW	1.0			
9 Apr 2025	3:00 AM	SSW	1.0			
9 Apr 2025	4:00 AM	WNW	1.5			
9 Apr 2025	5:00 AM	W	1.5			
9 Apr 2025	6:00 AM	SSE	0.6			
9 Apr 2025	7:00 AM	S	0.9			
9 Apr 2025	8:00 AM	SSW	0.7			
9 Apr 2025	9:00 AM	SSW	0.7			
9 Apr 2025	10:00 AM	SSW	0.3			
9 Apr 2025	11:00 AM	S	0.7			
9 Apr 2025	12:00 PM	S	0.5			
9 Apr 2025	1:00 PM	SSE	0.3			
9 Apr 2025	2:00 PM	S	0.4			
9 Apr 2025	3:00 PM	S	0.3			
9 Apr 2025	4:00 PM	SSE	0.8			
9 Apr 2025	5:00 PM	S	0.9			
9 Apr 2025	6:00 PM	SSE	0.9			
9 Apr 2025	7:00 PM	S	1.7			
9 Apr 2025	8:00 PM	SSW	1.8			
9 Apr 2025	9:00 PM	SW	1.2			
9 Apr 2025	10:00 PM	SW	1.1			
9 Apr 2025	11:00 PM	SW	1.3			
10 Apr 2025	12:00 AM	WSW	1.5			
10 Apr 2025	1:00 AM	W	1.5			
10 Apr 2025	2:00 AM	SSW	1.1			
10 Apr 2025	3:00 AM	SSW	1.0			
10 Apr 2025	4:00 AM	SW	1.4			
10 Apr 2025	5:00 AM	SSW	1.8			
10 Apr 2025	6:00 AM	SSW	1.2			
10 Apr 2025	7:00 AM	SSW	0.6			
10 Apr 2025	8:00 AM	SW	1.0			
10 Apr 2025	9:00 AM	SSW	0.9			
10 Apr 2025	10:00 AM	SSW	0.8			
10 Apr 2025	11:00 AM	S	0.8			

	Apı	ril 2025			
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
10 Apr 2025	12:00 PM	S	0.7		
10 Apr 2025	1:00 PM	SW	0.9		
10 Apr 2025	2:00 PM	WSW	1.1		
10 Apr 2025	3:00 PM	SW	1.6		
10 Apr 2025	4:00 PM	SSW	1.0		
10 Apr 2025	5:00 PM	WSW	1.4		
10 Apr 2025	6:00 PM	SW	2.0		
10 Apr 2025	7:00 PM	SW	1.2		
10 Apr 2025	8:00 PM	SW	1.5		
10 Apr 2025	9:00 PM	SW	2.1		
10 Apr 2025	10:00 PM	SW	1.6		
10 Apr 2025	11:00 PM	SW	1.9		
11 Apr 2025	12:00 AM	SW	1.7		
11 Apr 2025	1:00 AM	SSW	1.5		
11 Apr 2025	2:00 AM	SW	1.6		
11 Apr 2025	3:00 AM	SSW	1.6		
11 Apr 2025	4:00 AM	S	1.6		
11 Apr 2025	5:00 AM	S	1.1		
11 Apr 2025	6:00 AM	SSW	1.3		
11 Apr 2025	7:00 AM	SSW	1.0		
11 Apr 2025	8:00 AM	S	1.3		
11 Apr 2025	9:00 AM	SSW	1.1		
11 Apr 2025	10:00 AM	SSE	1.0		
11 Apr 2025	11:00 AM	S	1.3		
11 Apr 2025	12:00 PM	S	1.2		
11 Apr 2025	1:00 PM	SSW	0.8		
11 Apr 2025	2:00 PM	S	0.7		
11 Apr 2025	3:00 PM	SSW	1.1		
11 Apr 2025	4:00 PM	S	1.4		
11 Apr 2025	5:00 PM	S	1.2		
11 Apr 2025	6:00 PM	SSW	1.2		
11 Apr 2025	7:00 PM	S	1.0		
11 Apr 2025	8:00 PM	SSW	1.8		
11 Apr 2025	9:00 PM	SSW	1.6		
11 Apr 2025	10:00 PM	SW	2.3		
11 Apr 2025	11:00 PM	SW	1.7		
12 Apr 2025	12:00 AM	SSW	1.9		
12 Apr 2025	1:00 AM	SSW	1.1		
12 Apr 2025	2:00 AM	SSW	1.0		
12 Apr 2025	3:00 AM	SSW	1.7		
12 Apr 2025	4:00 AM	SSW	1.1		
12 Apr 2025	5:00 AM	SSW	1.2		
12 Apr 2025	6:00 AM	S	1.3		
12 Apr 2025	7:00 AM	S	1.3		
12 Apr 2025	8:00 AM	SSW	1.1		
12 Apr 2025	9:00 AM	S	0.9		
12 Apr 2025	10:00 AM	S	1.0		
12 Apr 2025	11:00 AM	S	0.8		
12 Apr 2025	12:00 PM	SSE	1.0		
12 Apr 2025	1:00 PM	SSE	1.2		
12 Apr 2025	2:00 PM	S	0.7		
12 Apr 2025	3:00 PM	SSE	0.3		
12 Apr 2025	4:00 PM	S	0.7		
12 Apr 2025	5:00 PM	SSE	0.7		
12 Apr 2025	6:00 PM	SSE	0.7		
12 Apr 2025	7:00 PM	SSE	0.5		
12 Apr 2025	8:00 PM	S	0.3		
12 Apr 2023	0.UU FIVI	ာ	0.4		

	April 2025					
	Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s			
12 Apr 2025	9:00 PM	SSW	0.5			
12 Apr 2025	10:00 PM	S	1.0			
12 Apr 2025	11:00 PM	S	0.9			
13 Apr 2025	12:00 AM	S	0.4			
13 Apr 2025	1:00 AM	SSE	1.1			
13 Apr 2025	2:00 AM	SSE	1.0			
13 Apr 2025	3:00 AM	SE	0.5			
13 Apr 2025	4:00 AM	SSE	0.2			
13 Apr 2025	5:00 AM	SSE	0.6			
13 Apr 2025	6:00 AM	SE	0.6			
13 Apr 2025	7:00 AM	S	0.4			
13 Apr 2025	8:00 AM	SSW	0.3			
13 Apr 2025	9:00 AM	SSE	0.5			
13 Apr 2025	10:00 AM	S	0.3			
13 Apr 2025	11:00 AM	SSE	0.3			
13 Apr 2025	12:00 PM	SSE	0.8			
13 Apr 2025	1:00 PM	SSE	1.0			
13 Apr 2025	2:00 PM	S	0.8			
13 Apr 2025	3:00 PM	S	0.2			
13 Apr 2025	4:00 PM	SSE	0.6			
13 Apr 2025	5:00 PM	S	1.1			
13 Apr 2025	6:00 PM	S	1.2			
13 Apr 2025	7:00 PM	S	1.0			
13 Apr 2025	8:00 PM	S	0.8			
13 Apr 2025	9:00 PM	SSE	1.0			
13 Apr 2025	10:00 PM	S	1.0			
13 Apr 2025	11:00 PM	SSW	0.8			
14 Apr 2025	12:00 AM	SSE	1.0			
14 Apr 2025	1:00 AM	S	0.9			
14 Apr 2025	2:00 AM	SW	1.5			
14 Apr 2025	3:00 AM	SE	0.8			
14 Apr 2025	4:00 AM	S	0.6			
14 Apr 2025	5:00 AM	S	0.3			
14 Apr 2025	6:00 AM	SSE	0.5			
14 Apr 2025	7:00 AM	S	0.6			
14 Apr 2025	8:00 AM	SSE	0.6			
14 Apr 2025	9:00 AM	SSE	0.3			
14 Apr 2025	10:00 AM	SSE	0.5			
14 Apr 2025	11:00 AM	SSE	0.6			
14 Apr 2025	12:00 PM	SSE	0.3			
14 Apr 2025	1:00 PM	S	0.3			
14 Apr 2025	2:00 PM	S	0.3			
14 Apr 2025	3:00 PM	SSW	0.3			
14 Apr 2025	4:00 PM	SSE	0.4			
14 Apr 2025	5:00 PM	SSE	0.3			
14 Apr 2025	6:00 PM	SSE	0.6			
14 Apr 2025	7:00 PM	SSE	0.6			
14 Apr 2025	8:00 PM	S	0.6			
14 Apr 2025	9:00 PM	SSW	0.8			
14 Apr 2025	10:00 PM	SSE	0.9			
14 Apr 2025	11:00 PM	SSE	1.2			
15 Apr 2025	12:00 AM	SE	1.1			
15 Apr 2025	1:00 AM	SSW	0.8			
15 Apr 2025	2:00 AM	SSW	1.1			
15 Apr 2025	3:00 AM	S	2.1			
15 Apr 2025	4:00 AM	S	1.2			
15 Apr 2025	5:00 AM	S	1.3			

	Apr	il 2025	
		and Directions	
Date	Time	Direction	Wind Speed m-s
15 Apr 2025	6:00 AM	SSE	0.8
15 Apr 2025	7:00 AM	S	0.9
15 Apr 2025	8:00 AM	SSE	0.7
15 Apr 2025	9:00 AM	S	0.6
15 Apr 2025	10:00 AM	SSW	0.2
15 Apr 2025	11:00 AM	S	0.3
15 Apr 2025	12:00 PM	S	0.3
15 Apr 2025	1:00 PM	SSE	0.2
15 Apr 2025	2:00 PM	SSE	0.1
15 Apr 2025	3:00 PM	SSE	0.5
15 Apr 2025	4:00 PM	SSE	0.3
15 Apr 2025	5:00 PM	SSE	0.6
15 Apr 2025	6:00 PM	SSE	0.6
15 Apr 2025	7:00 PM	S	0.6
15 Apr 2025	8:00 PM	SSW	0.7
15 Apr 2025	9:00 PM	SSE	0.5
15 Apr 2025	10:00 PM	SSW	0.4
15 Apr 2025	11:00 PM	SW	0.6
16 Apr 2025	12:00 AM	SSW	0.7
16 Apr 2025	1:00 AM	S	0.4
16 Apr 2025	2:00 AM	S	0.9
16 Apr 2025	3:00 AM	S	1.5
16 Apr 2025	4:00 AM	S	1.0
16 Apr 2025	5:00 AM	SSE	0.8
16 Apr 2025	6:00 AM	S	0.6
16 Apr 2025	7:00 AM	SSE	0.4
16 Apr 2025	8:00 AM	W	1.5
16 Apr 2025	9:00 AM	W	1.3
16 Apr 2025	10:00 AM	SW	0.9
16 Apr 2025	11:00 AM	S	0.2
16 Apr 2025	12:00 PM	S	0.0
16 Apr 2025	1:00 PM	S	0.2
16 Apr 2025	2:00 PM	S	0.1
16 Apr 2025	3:00 PM	SSE	0.0
16 Apr 2025	4:00 PM	S	0.7
16 Apr 2025	5:00 PM	SSW	0.6
16 Apr 2025	6:00 PM	S	1.3
16 Apr 2025	7:00 PM	SSE	1.3
16 Apr 2025	8:00 PM	SSW	0.8
16 Apr 2025	9:00 PM	S	0.6
16 Apr 2025	10:00 PM	ESE	1.0
16 Apr 2025	11:00 PM	SSE	1.1
17 Apr 2025	12:00 AM	SSW	1.0
17 Apr 2025	1:00 AM	SW	1.3
17 Apr 2025	2:00 AM	WSW	1.2
17 Apr 2025	3:00 AM	WSW	1.2
17 Apr 2025	4:00 AM	SW	0.9
17 Apr 2025	5:00 AM	WSW	0.6
17 Apr 2025	6:00 AM	SSW	0.6
17 Apr 2025	7:00 AM	SW	0.6
17 Apr 2025	8:00 AM	SW	0.3
17 Apr 2025	9:00 AM	WSW	0.6
17 Apr 2025	10:00 AM	S	0.2
17 Apr 2025	11:00 AM	SSE	0.3
17 Apr 2025	12:00 PM	SSE	0.2
17 Apr 2025	1:00 PM	S	0.2
17 Apr 2025	2:00 PM	S	0.3

	Apr	ril 2025	
	Wind Speed	and Directions	
Date	Time	Direction	Wind Speed m-s
17 Apr 2025	3:00 PM	S	0.6
17 Apr 2025	4:00 PM	SSE	0.1
17 Apr 2025	5:00 PM	S	0.0
17 Apr 2025	6:00 PM	S	0.4
17 Apr 2025	7:00 PM	S	0.4
17 Apr 2025	8:00 PM	SE	0.7
17 Apr 2025	9:00 PM	S	1.0
17 Apr 2025	10:00 PM	SSE	1.1
17 Apr 2025	11:00 PM	SSE	1.2
18 Apr 2025	12:00 AM	S	1.1
18 Apr 2025	1:00 AM	SSE	1.0
18 Apr 2025	2:00 AM	SE	1.1
18 Apr 2025	3:00 AM	SSE	0.9
18 Apr 2025	4:00 AM	SE	1.0
18 Apr 2025	5:00 AM	SSE	0.7
18 Apr 2025	6:00 AM	SW	0.9
18 Apr 2025	7:00 AM	S	0.6
18 Apr 2025	8:00 AM	SSE	0.6
18 Apr 2025	9:00 AM	SE	0.4
18 Apr 2025	10:00 AM	S	0.4
18 Apr 2025	11:00 AM	SSE	0.6
18 Apr 2025	12:00 PM	SE	0.8
18 Apr 2025	1:00 PM	SE	0.7
18 Apr 2025	2:00 PM	SE	0.7
18 Apr 2025	3:00 PM	SE	0.9
18 Apr 2025	4:00 PM	ESE	1.0
18 Apr 2025	5:00 PM	SE	0.7
18 Apr 2025	6:00 PM	SW	0.8
18 Apr 2025	7:00 PM	SSW	0.8
18 Apr 2025	8:00 PM	SSE	0.9
18 Apr 2025	9:00 PM	SSE	1.2
18 Apr 2025	10:00 PM	SSE	1.2
18 Apr 2025	11:00 PM	S	1.2
19 Apr 2025	12:00 AM	SSE	1.5
19 Apr 2025	1:00 AM	SSE	1.4
19 Apr 2025	2:00 AM	S	1.8
19 Apr 2025	3:00 AM	SSE	1.9
19 Apr 2025	4:00 AM	SE	1.5
19 Apr 2025	5:00 AM	S	0.8
19 Apr 2025	6:00 AM	S	0.7
19 Apr 2025	7:00 AM	SSW	1.2
19 Apr 2025	8:00 AM	SW	1.2
19 Apr 2025	9:00 AM	SSE	0.9
19 Apr 2025	10:00 AM	WSW	1.3
19 Apr 2025	11:00 AM	W	1.1
19 Apr 2025	12:00 PM	SW	0.6
19 Apr 2025	1:00 PM	SSE	0.3
19 Apr 2025	2:00 PM	SSW	0.5
19 Apr 2025	3:00 PM	SSW	0.9
19 Apr 2025	4:00 PM	SE	0.8
19 Apr 2025	5:00 PM	S	0.2
19 Apr 2025	6:00 PM	S	0.8
19 Apr 2025	7:00 PM	S	0.9
19 Apr 2025	8:00 PM	S	1.6
19 Apr 2025	9:00 PM	S	1.3
19 Apr 2025	10:00 PM	S	1.3
19 Apr 2025	11:00 PM	SW	0.9
1		L	

	Apr	ril 2025	
		and Directions	
Date	Time	Direction	Wind Speed m-s
20 Apr 2025	12:00 AM	WSW	1.3
20 Apr 2025	1:00 AM	WSW	1.9
20 Apr 2025	2:00 AM	WSW	2.7
20 Apr 2025	3:00 AM	WSW	1.5
20 Apr 2025	4:00 AM	W	1.0
20 Apr 2025	5:00 AM	W	1.7
20 Apr 2025	6:00 AM	SW	1.6
20 Apr 2025	7:00 AM	WSW	1.6
20 Apr 2025	8:00 AM	SSW	1.1
20 Apr 2025	9:00 AM	SSW	1.2
20 Apr 2025	10:00 AM	SW	1.7
20 Apr 2025	11:00 AM	SW	1.6
20 Apr 2025	12:00 PM	SW	1.8
20 Apr 2025	1:00 PM	SSW	0.9
20 Apr 2025	2:00 PM	S	1.8
20 Apr 2025	3:00 PM	SW	2.3
20 Apr 2025	4:00 PM	SSW	1.1
20 Apr 2025	5:00 PM	SSW	1.4
20 Apr 2025	6:00 PM	SW	2.4
20 Apr 2025	7:00 PM	SSW	2.4
20 Apr 2025	8:00 PM	SSW	2.8
20 Apr 2025	9:00 PM	SW	2.3
20 Apr 2025	10:00 PM	SW	2.3
20 Apr 2025	11:00 PM	SSW	2.6
21 Apr 2025	12:00 AM	SW	1.9
21 Apr 2025	1:00 AM	SSW	2.1
21 Apr 2025	2:00 AM	WSW	2.5
21 Apr 2025	3:00 AM	SW	1.6
21 Apr 2025	4:00 AM	SW	1.5
21 Apr 2025	5:00 AM	SW	1.0
21 Apr 2025	6:00 AM	SSW	1.0
21 Apr 2025	7:00 AM	SSW	1.3
21 Apr 2025	8:00 AM	SSW	0.9
21 Apr 2025	9:00 AM	SW	1.1
21 Apr 2025	10:00 AM	SSW	1.6
21 Apr 2025	11:00 AM	SSW	1.4
21 Apr 2025	12:00 PM	SW	1.8
21 Apr 2025	1:00 PM	SW	1.7
21 Apr 2025	2:00 PM	SSW	1.5
21 Apr 2025	3:00 PM	SSW	1.0
21 Apr 2025	4:00 PM	S	1.5
21 Apr 2025	5:00 PM	SSE	1.5
21 Apr 2025	6:00 PM	SSW	1.5
21 Apr 2025	7:00 PM	S	2.0
21 Apr 2025	8:00 PM	S	2.1
21 Apr 2025	9:00 PM	S	1.9
21 Apr 2025	10:00 PM	S	1.5
21 Apr 2025	11:00 PM	S	1.5
22 Apr 2025	12:00 AM	SW	1.3
22 Apr 2025	1:00 AM	S	1.9
22 Apr 2025	2:00 AM	SSW	2.1
22 Apr 2025	3:00 AM	SW	1.7
22 Apr 2025	4:00 AM	SW	1.8
22 Apr 2025	5:00 AM	SW	1.7
22 Apr 2025	6:00 AM	SW	1.4
22 Apr 2025	7:00 AM	SW	1.5
22 Apr 2025	8:00 AM	SSW	1.6

	Apı	·il 2025	
		and Directions	
Date	Time	Direction	Wind Speed m-s
22 Apr 2025	9:00 AM	SSW	1.3
22 Apr 2025	10:00 AM	SW	1.2
22 Apr 2025	11:00 AM	NNW	3.3
22 Apr 2025	12:00 PM	NW	4.7
22 Apr 2025	1:00 PM	NW	1.4
22 Apr 2025	2:00 PM	WNW	1.6
22 Apr 2025	3:00 PM	SW	1.9
22 Apr 2025	4:00 PM	SW	1.8
22 Apr 2025	5:00 PM	SW	1.7
22 Apr 2025	6:00 PM	NW	2.9
22 Apr 2025	7:00 PM	NNW	3.9
22 Apr 2025	8:00 PM	WSW	3.3
22 Apr 2025	9:00 PM	WNW	2.0
22 Apr 2025	10:00 PM	NW	5.7
22 Apr 2025	11:00 PM	NNW	6.5
23 Apr 2025	12:00 AM	SW	1.0
23 Apr 2025	1:00 AM	NW	3.9
23 Apr 2025	2:00 AM	NW	4.3
23 Apr 2025	3:00 AM	NW	4.9
23 Apr 2025	4:00 AM	NW	3.3
23 Apr 2025	5:00 AM	NW	1.6
23 Apr 2025	6:00 AM	SW	5.4
23 Apr 2025	7:00 AM	WNW	1.1
23 Apr 2025	8:00 AM	NW	2.1
23 Apr 2025	9:00 AM	WNW	4.9
23 Apr 2025	10:00 AM	NW	2.4
23 Apr 2025	11:00 AM	W	1.7
23 Apr 2025	12:00 PM	NW	5.1
23 Apr 2025	1:00 PM	NNW	3.9
23 Apr 2025	2:00 PM	NNW	3.6
23 Apr 2025	3:00 PM	NW	2.1
23 Apr 2025	4:00 PM	SW	1.2
23 Apr 2025	5:00 PM	WSW	1.6
23 Apr 2025	6:00 PM	ESE	1.7
23 Apr 2025	7:00 PM	NNW	2.1
23 Apr 2025	8:00 PM	S	1.0
23 Apr 2025	9:00 PM	NNW	2.5
23 Apr 2025	10:00 PM	NNW	4.9
23 Apr 2025	11:00 PM	NNW	3.6
24 Apr 2025	12:00 AM	SSW	4.1
24 Apr 2025	1:00 AM	SE	1.4
24 Apr 2025	2:00 AM	SSW	0.8
24 Apr 2025	3:00 AM	W	0.5
24 Apr 2025	4:00 AM	N	0.9
24 Apr 2025	5:00 AM	NW	0.8
24 Apr 2025	6:00 AM	NW	1.3
24 Apr 2025	7:00 AM	ENE	0.9
24 Apr 2025	8:00 AM	NNW	2.9
24 Apr 2025	9:00 AM	NNW	1.0
24 Apr 2025	10:00 AM	SSW	1.7
24 Apr 2025	11:00 AM	S	1.1
24 Apr 2025	12:00 PM	WSW	1.4
24 Apr 2025	1:00 PM	NW	2.0
24 Apr 2025	2:00 PM	SW	2.3
24 Apr 2025	3:00 PM	WSW	1.2
24 Apr 2025	4:00 PM	SW	2.4
24 Apr 2025	5:00 PM	SW	1.9

	Apr	ril 2025	
	Wind Speed	and Directions	
Date	Time	Direction	Wind Speed m-s
24 Apr 2025	6:00 PM	SW	1.4
24 Apr 2025	7:00 PM	WSW	0.9
24 Apr 2025	8:00 PM	W	1.2
24 Apr 2025	9:00 PM	NW	1.0
24 Apr 2025	10:00 PM	SW	1.4
24 Apr 2025	11:00 PM	SSW	1.9
25 Apr 2025	12:00 AM	WSW	1.8
25 Apr 2025	1:00 AM	NW	3.1
25 Apr 2025	2:00 AM	NW	3.3
25 Apr 2025	3:00 AM	SSW	2.0
25 Apr 2025	4:00 AM	SSW	0.9
25 Apr 2025	5:00 AM	NNW	4.2
25 Apr 2025	6:00 AM	NNW	5.0
25 Apr 2025	7:00 AM	NNW	4.4
25 Apr 2025	8:00 AM	NNW	4.0
25 Apr 2025	9:00 AM	WNW	3.2
25 Apr 2025	10:00 AM	NNW	2.7
25 Apr 2025	11:00 AM	NNW	4.0
25 Apr 2025	12:00 PM	NW	2.4
25 Apr 2025	1:00 PM	WNW	4.7
25 Apr 2025	2:00 PM	ENE	1.7
25 Apr 2025	3:00 PM	SSW	2.1
25 Apr 2025	4:00 PM	NNW	1.3
25 Apr 2025	5:00 PM	WNW	0.9
25 Apr 2025	6:00 PM	NNW	5.1
25 Apr 2025	7:00 PM	NW	4.0
25 Apr 2025	8:00 PM	NNW	5.4
25 Apr 2025	9:00 PM	SW	4.1
25 Apr 2025	10:00 PM	WNW	2.6
25 Apr 2025	11:00 PM	SSW	3.5
26 Apr 2025	12:00 AM	WNW	2.7
26 Apr 2025	1:00 AM	NW	4.1
26 Apr 2025	2:00 AM	SW	2.0
26 Apr 2025	3:00 AM	WSW	1.0
26 Apr 2025	4:00 AM	WNW	0.8
26 Apr 2025	5:00 AM	NNW	5.4
26 Apr 2025	6:00 AM	N	1.7
26 Apr 2025	7:00 AM	S	1.0
26 Apr 2025	8:00 AM	ESE	2.4
26 Apr 2025	9:00 AM	NNW	1.9
26 Apr 2025	10:00 AM	NNW	2.8
26 Apr 2025	11:00 AM	SW	5.7
26 Apr 2025	12:00 PM	S	1.4
26 Apr 2025	1:00 PM	NW	1.1
26 Apr 2025	2:00 PM	NNW	3.5
26 Apr 2025	3:00 PM	NW	4.7
26 Apr 2025	4:00 PM	WNW	1.7
26 Apr 2025	5:00 PM	Е	2.4
26 Apr 2025	6:00 PM	NW	2.3
26 Apr 2025	7:00 PM	WSW	1.7
26 Apr 2025	8:00 PM	ENE	1.0
26 Apr 2025	9:00 PM	ESE	0.6
26 Apr 2025	10:00 PM	NNW	1.8
26 Apr 2025	11:00 PM	NNW	2.4
27 Apr 2025	12:00 AM	WNW	1.7
27 Apr 2025	1:00 AM	NW	1.1
27 Apr 2025	2:00 AM	SSW	0.6
			0

	Apr	ril 2025					
		and Directions					
Date	Time	Direction	Wind Speed m-s				
27 Apr 2025	3:00 AM	WNW	0.3				
27 Apr 2025	4:00 AM	NNW	3.3				
27 Apr 2025	5:00 AM	NNW	3.3				
27 Apr 2025	6:00 AM	WSW	1.8				
27 Apr 2025	7:00 AM	NNW	2.9				
27 Apr 2025	8:00 AM	NW	3.5				
27 Apr 2025	9:00 AM	NW	3.5				
27 Apr 2025	10:00 AM	NW	2.0				
27 Apr 2025	11:00 AM	WSW	1.7				
27 Apr 2025	12:00 PM	NNW	4.8				
27 Apr 2025	1:00 PM	NW	4.1				
27 Apr 2025	2:00 PM	NW	2.5				
27 Apr 2025	3:00 PM	SE	1.6				
27 Apr 2025	4:00 PM	WNW	0.9				
27 Apr 2025	5:00 PM	NNW	0.2				
27 Apr 2025	6:00 PM	NNW	3.2				
27 Apr 2025	7:00 PM	NNW	2.9				
27 Apr 2025	8:00 PM	SSE	2.4				
27 Apr 2025	9:00 PM	WSW	0.8				
27 Apr 2025	10:00 PM	W	0.5				
27 Apr 2025	11:00 PM	SSE	0.9				
28 Apr 2025	12:00 AM	WSW	0.2				
28 Apr 2025	1:00 AM	SW	0.9				
28 Apr 2025	2:00 AM	SSE	0.3				
28 Apr 2025	3:00 AM	NW	0.4				
28 Apr 2025	4:00 AM	SW	0.5				
28 Apr 2025	5:00 AM	WNW	0.8				
28 Apr 2025	6:00 AM	NNW	1.9				
28 Apr 2025	7:00 AM	NE	0.9				
28 Apr 2025	8:00 AM	SW	0.8				
28 Apr 2025	9:00 AM	ESE	0.5				
28 Apr 2025	10:00 AM	NW	0.9				
28 Apr 2025	11:00 AM	NNW	2.1				
28 Apr 2025	12:00 PM	NW	2.0				
28 Apr 2025	1:00 PM	WNW	2.5				
28 Apr 2025	2:00 PM	N	2.8				

	Apr	il 2025	
	Wind Speed	and Directions	
Date	Time	Direction	Wind Speed m-s
28 Apr 2025	3:00 PM	N	1.6
28 Apr 2025	4:00 PM	NNW	2.8
28 Apr 2025	5:00 PM	NNW	1.6
28 Apr 2025	6:00 PM	SE	1.2
28 Apr 2025	7:00 PM	ESE	1.0
28 Apr 2025	8:00 PM	W	0.8
28 Apr 2025	9:00 PM	NNW	3.3
28 Apr 2025	10:00 PM	WSW	1.4
28 Apr 2025	11:00 PM	SE	1.1
29 Apr 2025	12:00 AM	NNW	1.1
29 Apr 2025	1:00 AM	SW	1.7
29 Apr 2025	2:00 AM	NE	1.2
29 Apr 2025	3:00 AM	SSW	1.6
29 Apr 2025	4:00 AM	NW	1.6
29 Apr 2025	5:00 AM	NNW	1.0
29 Apr 2025	6:00 AM	NNW	3.1
29 Apr 2025	7:00 AM	NNW	3.7
29 Apr 2025	8:00 AM	WNW	2.1
29 Apr 2025	9:00 AM	NW	4.4
29 Apr 2025	10:00 AM	SSW	1.2
29 Apr 2025	11:00 AM	SE	2.0
29 Apr 2025	12:00 PM	SE	0.2
29 Apr 2025	1:00 PM	SSE	1.0
29 Apr 2025	2:00 PM	ENE	1.8
29 Apr 2025	3:00 PM	SSW	1.1
29 Apr 2025	4:00 PM	SSW	1.0
29 Apr 2025	5:00 PM	SW	1.8
29 Apr 2025	6:00 PM	SSW	0.5
29 Apr 2025	7:00 PM	SW	2.6
29 Apr 2025	8:00 PM	SW	1.8
29 Apr 2025	9:00 PM	S	0.4
29 Apr 2025	10:00 PM	W	0.0
29 Apr 2025	11:00 PM	ESE	1.0
30 Apr 2025	12:00 AM	SW	3.6
30 Apr 2025	1:00 AM	WSW	3.3
30 Apr 2025	2:00 AM	SW	2.5
30 Apr 2025	3:00 AM	WSW	1.2
30 Apr 2025	4:00 AM	SSW	2.5
30 Apr 2025	5:00 AM	WSW	0.6
30 Apr 2025	6:00 AM	SW	1.3
30 Apr 2025	7:00 AM	N	0.5
30 Apr 2025	8:00 AM	SW	0.2
30 Apr 2025	9:00 AM	SW	1.3
30 Apr 2025	10:00 AM	WSW	1.7
30 Apr 2025	11:00 AM	W	0.3
30 Apr 2025	12:00 PM	NW	2.3
30 Apr 2025	1:00 PM	NW	1.2
30 Apr 2025	2:00 PM	NW	1.4
30 Apr 2025	3:00 PM	SE	1.3
30 Apr 2025	4:00 PM	NW	1.7
30 Apr 2025	5:00 PM	NW	0.9
30 Apr 2025	6:00 PM	SSE	2.6
30 Apr 2025	7:00 PM	SW	1.3
30 Apr 2025	8:00 PM	WSW	1.9
30 Apr 2025	9:00 PM	NE	0.5
30 Apr 2025	10:00 PM	WSW	1.7
30 Apr 2025	11:00 PM	SSW	1.4

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

#### Appendix F - 24-hour TSP Impact Monitoring Results

#### Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	(m³/min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Otart Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)	(µg/m3)
2-Apr-25	Fine	292.6	765.1	2.8507	3.0213	0.1706	15022.9	15046.9	24.0	1.21	1.21	1.21	1740.2	98.0		
7-Apr-25	Fine	295.7	763.4	3.3947	3.6086	0.2140	15046.9	15070.9	24.0	1.20	1.20	1.20	1731.1	123.6		
10-Apr-25	Fine	297.8	757.7	2.8251	3.0638	0.2387	15070.9	15094.9	24.0	1.20	1.19	1.19	1720.6	138.7	191.0	260.0
16-Apr-25	Sunny	297.3	759.4	2.8211	2.9934	0.1723	15094.9	15118.9	24.0	1.20	1.20	1.20	1723.4	100.0	191.0	200.0
22-Apr-25	Fine	300.6	758.4	2.8357	3.0070	0.1713	15118.9	15142.9	24.0	1.19	1.19	1.19	1714.6	99.9		
28-Apr-25	Sunny	298.4	760.5	2.8510	3.0525	0.2015	15142.9	15166.9	24.0	1.20	1.20	1.20	1721.8	117.0		
Note:	Bold Italic means A	ction Level exce	edance										Min	98.0		
	Bold Italic with und	<i>terline</i> means l	imit Level exceedance										Max	138.7		
													Average	112.9		

#### Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather		Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)	(µg/m3)
2-Apr-25	Fine	292.6	765.1	2.8135	2.9904	0.1769	21626.0	21650.0	24.0	1.21	1.21	1.21	1742.1	101.5		
7-Apr-25	Fine	295.7	763.4	3.3999	3.6191	0.2192	21650.0	21674.0	24.0	1.20	1.20	1.20	1733.7	126.5		
10-Apr-25	Sunny	297.8	757.7	2.8348	3.0739	0.2391	21674.2	21698.2	24.0	1.20	1.20	1.20	1724.0	138.7	183.0	260.0
16-Apr-25	Fine	297.3	759.4	2.6890	2.8165	0.1274	21698.2	21722.2	24.0	1.20	1.20	1.20	1726.6	73.8	100.0	200.0
22-Apr-25	Fine	300.6	758.4	2.9391	3.1582	0.2190	21722.2	21746.2	24.0	1.19	1.19	1.19	1718.5	127.5		
28-Apr-25	Sunny	298.4	760.5	2.8300	3.0004	0.1704	21746.2	21770.2	24.0	1.20	1.20	1.20	1725.1	98.8		
Note:	Bold Italic means A	Action Level exce	edance										Min	73.8		
	Bold Italic with und	derline means l	Limit Level exceedance										Max	138.7		
													Average	111.1	1	

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

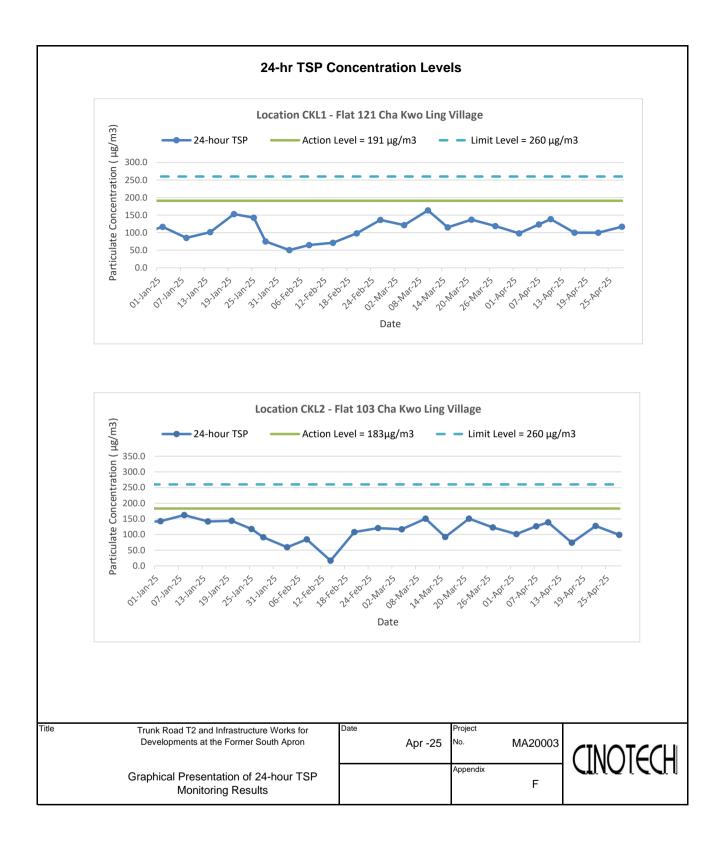
Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Otari Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)	(µg/m3)
2-Apr-25	Fine	292.6	765.1	2.8266	2.8785	0.0519	20428.5	20452.5	24.0	1.23	1.23	1.23	1769.8	29.3		
7-Apr-25	Cloudy	295.7	763.4	3.3921	3.4932	0.1011	20452.5	20476.5	24.0	1.22	1.22	1.22	1760.3	57.4	1	
10-Apr-25	Fine	297.8	757.7	2.8424	2.8706	0.0282	20476.5	20500.6	24.0	1.22	1.21	1.21	1751.4	16.1	177.0	260.0
16-Apr-25	Sunny	297.3	759.4	2.8265	2.9858	0.1593	20500.6	20524.6	24.0	1.22	1.22	1.22	1752.2	90.9	177.0	200.0
22-Apr-25	Fine	300.6	758.4	2.8283	2.8696	0.0414	20524.6	20548.6	24.0	1.21	1.21	1.21	1743.0	23.7	1	
28-Apr-25	Fine	298.4	760.5	2.8385	2.8825	0.0440	20548.6	20572.6	24.0	1.22	1.22	1.22	1750.5	25.1		
Note:	Bold Italic means A	Action Level exce	edance										Min	16.1		
	Bold Italic with und	derline means l	imit Level exceedance										Max	90.9		
													Average	40.4		

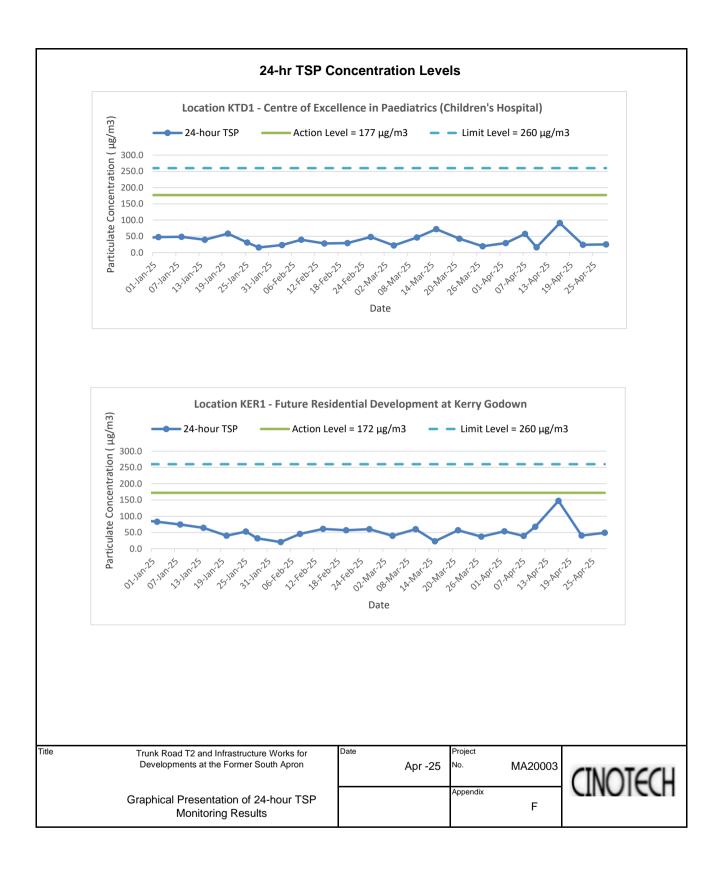
#### Location KER1 - Future Residential Development at Kerry Godown

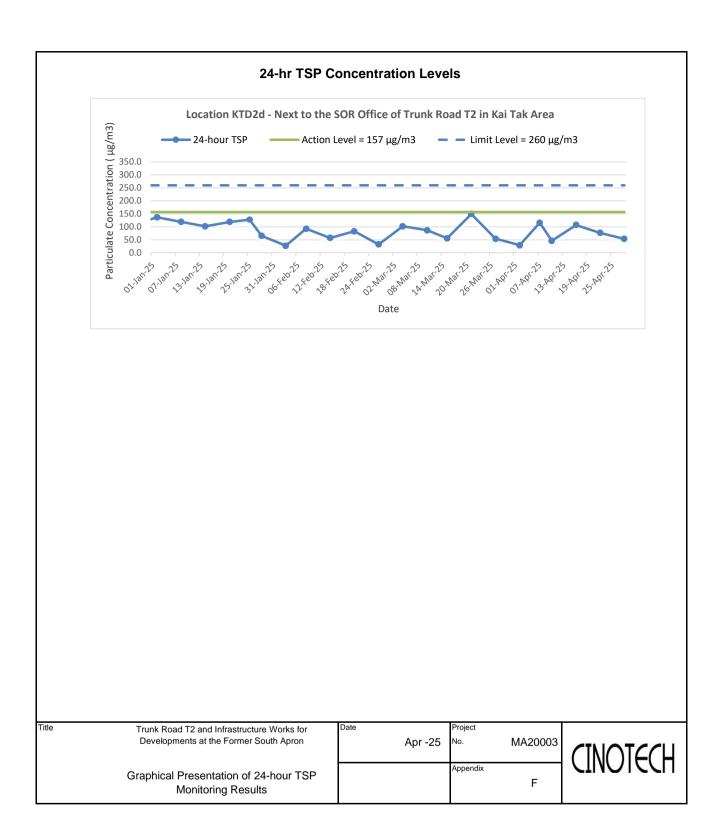
Start Date	Weather		Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol.	Conc.	Action Level	
Otan Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)	(µg/m3)
2-Apr-25	Fine	292.6	765.1	2.8341	2.9287	0.0946	18260.6	18284.6	24.0	1.23	1.23	1.23	1768.7	53.5		
7-Apr-25	Cloudy	295.7	763.4	3.3938	3.4632	0.0695	18284.6	18308.6	24.0	1.22	1.22	1.22	1758.7	39.5		
10-Apr-25	Fine	297.8	757.7	2.8302	2.9482	0.1180	18308.6	18332.6	24.0	1.21	1.21	1.21	1747.2	67.5	172.0	260.0
16-Apr-25	Sunny	297.3	759.4	2.8344	3.0920	0.2576	18332.6	18356.6	24.0	1.22	1.21	1.22	1751.0	147.1	172.0	200.0
22-Apr-25	Fine	300.6	758.4	2.8321	2.9027	0.0706	18356.6	18380.6	24.0	1.21	1.21	1.21	1740.7	40.5		
28-Apr-25	Fine	298.4	760.5	2.8249	2.9106	0.0858	18380.6	18404.6	24.0	1.21	1.21	1.21	1748.5	49.1		
Note:	Bold Italic means A	ction Level exce	edance										Min	39.5		
	Bold Italic with und	derline means L	imit Level exceedance										Max	147.1		
													Average	66.2		

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

Start Date	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m³/min.)	Av. Flow	Total vol.	Conc.	Action Level	Limit Level
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m3)	(µg/m3)
2-Apr-25	Fine	292.6	765.1	2.8420	2.8941	0.0520	19012.2	19036.2	24.0	1.23	1.23	1.23	1770.1	29.4		
7-Apr-25	Sunny	295.7	763.4	2.8175	3.0220	0.2045	19036.3	19060.3	24.0	1.22	1.22	1.22	1761.1	116.1		
10-Apr-25	Fine	297.8	757.7	2.8214	2.9021	0.0806	19060.3	19084.3	24.0	1.22	1.22	1.22	1750.6	46.1	157.0	260.0
16-Apr-25	Sunny	297.3	759.4	2.8440	3.0308	0.1868	19084.3	19108.3	24.0	1.22	1.22	1.22	1753.5	106.5	107.0	200.0
22-Apr-25	Fine	300.6	758.4	2.8263	2.9593	0.1330	19108.3	19132.3	24.0	1.21	1.21	1.21	1744.8	76.2		
28-Apr-25	Fine	298.4	760.5	2.8538	2.9469	0.0931	19132.3	19156.3	24.0	1.22	1.22	1.22	1751.9	53.2		
Note:	Bold Italic means A	Action Level exce	edance										Min	29.4		
	Bold Italic with und	derline means l	imit Level exceedance										Max	116.1		
													Average	71.2	1	







APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00736 Issue Date : 28 Jun 2024

Application No. : HP00592

**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 Jun 2024

Test Period : 28 Jun 2024 to 28 Jun 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

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00736 | Issue Date : 28 Jun 2024

Application No. : HP00592

# **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	94.1	+ 0.1	± 0.3
114.0	114.1	+ 0.1	± 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 -

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

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 -

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

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



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 -

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

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



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 -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00735 | Issue Date : 28 Jun 2024

Application No. : HP00589

**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 : 25 Jun 2024

Test Period : 26 Jun 2024 to 26 Jun 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

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00735 | Issue Date : 28 Jun 2024

Application No. : HP00589

# **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	113.8	- 0.2	± 1.5

Note

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

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00803 | Issue Date : 20 Aug 2024

Application No. : HP00654

**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-12-07

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	620091
Microphone No.	620230

Date Received : 09 Aug 2024

Test Period : 16 Aug 2024 to 16 Aug 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

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00803 | Issue Date : 20 Aug 2024

Application No. : HP00654

# **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	114.1	+ 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 H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

## Appendix H - Noise Monitoring Results

## (0700-1900 hrs on Normal Weekdays)

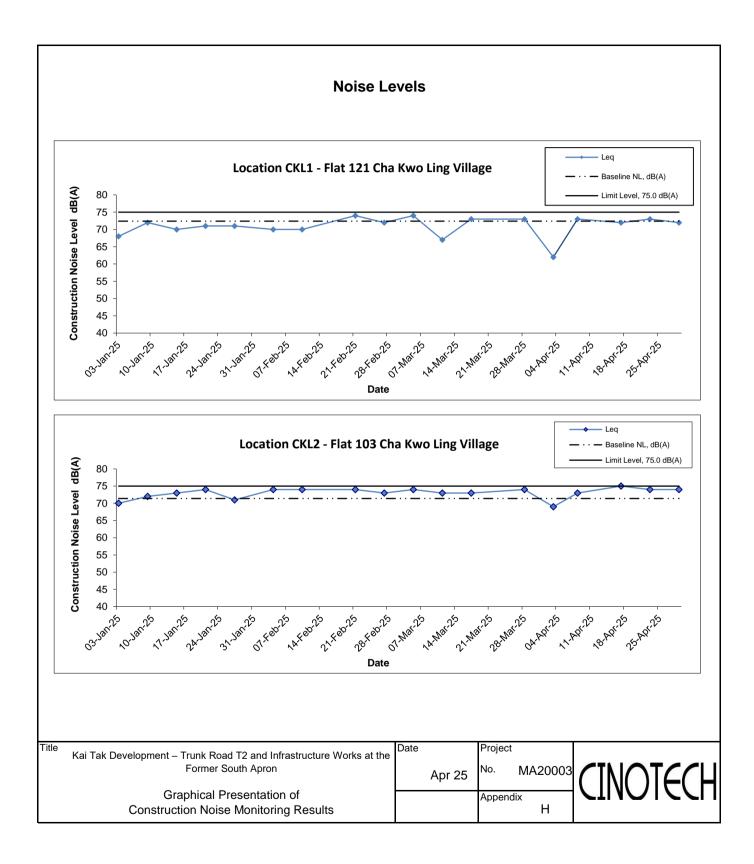
<b>Location CKL1</b>	Location CKL1 - Flat 121 Cha Kwo Ling Village							
				Unit: dB	(A) (30-min)			
Date	Time	Weather	Meas	Measured Noise Level Baseline Le			Construction Noise Level	
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>	
3-Apr-25	10:46	Fine	72.8	76.3	60.8	72.4	62	
8-Apr-25	10:44	Fine	75.5	79.5	63.2	72.4	73	
17-Apr-25	10:58	Sunny	75.4	79.4	66.4	72.4	72	
23-Apr-25	14:30	Fine	75.6	79.0	65.3	72.4	73	
29-Apr-25	9:57	Sunny	75.4	78.7	66.5	72.4	72	

Location CKL2	Location CKL2 - Flat 103 Cha Kwo Ling Village							
				Unit: dB	(A) (30-min)			
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Duic	711110	Wedner	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
3-Apr-25	14:55	Fine	73.2	75.7	61.2	71.4	69	
8-Apr-25	11:15	Fine	75.3	78.8	63.4	71.4	73	
17-Apr-25	9:50	Sunny	76.3	80.9	68.6	71.4	75	
23-Apr-25	15:03	Fine	75.6	79.3	64.0	71.4	74	
29-Apr-25	10:28	Sunny	75.9	79.7	62.2	71.4	74	

<b>Location KTD1</b>	Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
			Unit: dB (A) (30-min)					
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
3-Apr-25	10:35	Fine	67.5	68.4	66.4	78.0	67.5 Measured ≦ Baseline	
8-Apr-25	13:52	Fine	68.3	69.6	66.5	78.0	68.3 Measured ≦ Baseline	
17-Apr-25	13:35	Sunny	71.2	72.7	69.5	78.0	71.2 Measured ≦ Baseline	
23-Apr-25	13:31	Fine	69.9	71.0	68.6	78.0	69.9 Measured ≦ Baseline	
29-Apr-25	13:02	Sunny	67.9	69.3	66.2	78.0	67.9 Measured ≦ Baseline	

Location KER1 - Future Residential Development at Kerry Godown								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level	
Duic	711110	Wodinor	L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>	
3-Apr-25	11:45	Fine	73.4	75.9	68.6	65.0	73	
8-Apr-25	13:02	Fine	70.1	73.5	63.2	65.0	68	
17-Apr-25	12:32	Sunny	70.1	71.6	67.7	65.0	68	
23-Apr-25	12:45	Fine	69.6	72.4	58.7	65.0	68	
29-Apr-25	11:33	Sunny	71.1	74.2	64.4	65.0	70	

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area								
				Unit: dB (A) (30-min)				
Date	Time	Weather	Meas	Measured Noise Level			Construction Noise Level	
Date	Time	Weather	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>	
3-Apr-25	13:10	Fine	67.9	70.4	58.2	64.0	66	
8-Apr-25	14:50	Fine	63.1	66.5	54.3	64.0	63 Measured ≦ Baseline	
17-Apr-25	15:11	Sunny	59.0	60.7	56.4	64.0	59 Measured ≦ Baseline	
23-Apr-25	11:55	Fine	66.2	67.5	56.1	64.0	62	
29-Apr-25	14:19	Sunny	67.4	69.9	58.9	64.0	65	



## **Noise Levels Location KTD1 - Centre of Excellence in Paediatrics** Baseline NL. dB(A) (Children's Hospital) Construction Noise Level dB(A) 80 75 70 65 60 55 50 45 40 7.18n.55 Date Lea Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area Limit Level, 75.0 dB(A) Construction Noise Level dB(A) 90 85 80 75 70 65 60 55 50 45 40 Date **Location KER1 - Future Residential Development at Kerry** Baseline NL dB(A) Godown Limit Level, 75.0 dB(A) Construction Noise Level dB(A) 80 75 70 65 60 55 50 45 40 Date Project Kai Tak Development - Trunk Road T2 and Infrastructure Works at the Former South Apron MA20003 Apr 25 Graphical Presentation of Appendix Н Construction Noise Monitoring Results

### APPENDIX I SITE AUDIT SUMMARY

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

Checklist Reference Number	250403
Date	03 April 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.: 250327).	

	Name	Signature	Date
Recorded by	William Yeung	B	03 April 2025
Checked by	Karina Chan	Zalle	07 April 2025

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

Checklist Reference Number	250410
Date	10 April 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	item No.
	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.: 250403).	

	Name	Signature	Date
Recorded by	William Yeung	杨	10 April 2025
Checked by	Karina Chan	Zall	14 April 2025

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

Checklist Reference Number	250417
Date	17 April 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	
	<ul> <li>No environmental deficiency was identified in previous session (Ref No.: 250410).</li> </ul>	

	Name	Signature	Date
Recorded by	William Yeung	B	17 April 2025
Checked by	Karina Chan	Zalle	22 April 2025

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

Checklist Reference Number	250424
Date	24 April 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.: 250417).	

	Name	Signature	Date
Recorded by	William Yeung	杨	24 April 2025
Checked by	Karina Chan	Zall	28 April 2025

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

Checklist Reference Number	250430
Date	30 April 2025 (Wednesday)
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.: 250424).	

	Name	Signature	Date
Recorded by	William Yeung	杨	30 April 2025
Checked by	Karina Chan	Zall	2 May 2025

# Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and **Associated Works**

Checklist Reference Number	250403
Date	03 April 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	
	I. Others	
	• Follow up on the previous session (Ref No.:250327), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung	B	03 April 2025
Checked by	Karina Chan	Zelle	07 April 2025

# Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and **Associated Works**

Checklist Reference Number	250411
Date	11 April 2025 (Friday)
Time	13:30 – 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	
	I. Others	
	• Follow up on the previous session (Ref No.:250403), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung	8	11 April 2025
Checked by	Karina Chan	Zolle	14 April 2025

## Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and **Associated Works**

Checklist Reference Number	250417
Date	11 April 2025 (Thursday)
Time	09:30 – 12:30

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

B. Water Quality  No environmental deficiency was identified during site inspection.  C. Air 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	
I. Others	
• Follow up on the previous session (Ref No.:250411), no major environmental deficiency was	
	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.  I. Others

	Name	Signature	Date
Recorded by	William Yeung	B	17 April 2025
Checked by	Karina Chan	Zalle	21 April 2025

## Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and **Associated Works**

Checklist Reference Number	250424
Date	24 April 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	
	I. Others	
	• Follow up on the previous session (Ref No.:250417), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung	R	24 April 2025
Checked by	Karina Chan	John	28 April 2025

# Environmental Team for Trunk Road T2 – Traffic Control and Surveillance System (TCSS) and Associated Works

### **Site Inspection Record Summary**

**Inspection Information** 

Checklist Reference Number	250430
Date	30 April 2025 (Wednesday)
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	
	I. Others	
	• Follow up on the previous session (Ref No.:250424), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	William Yeung	B	30 April 2025
Checked by	Karina Chan	Zelle	6 May 2025

### APPENDIX J EVENT AND ACTION PLANS

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

Table J-1	EvenuAction Figure 101 An	Constituction Dust Monitor	. mg	
Event	Action			
Event	ET	IEC	ER	Contractor
<b>Action Level</b>				
1. Exceedance for	1. Identify source, investigate	Check monitoring data	1. Notify Contractor.	1. Rectify any unacceptable
one sample	the causes of complaint and	submitted by ET;		practice;
	propose remedial measures;	2. Check Contractor's working		2. Amend working methods
	2. Inform IEC and ER;	method.		agreed with the ER as
	3. Repeat measurement to			appropriate.
	confirm finding;			
	4. Increase monitoring			
	frequency.			
2. Exceedance by	1. Identify source;	Check monitoring data	1. Notify Contractor;	1. Submit proposals for
two or more	2. Inform IEC and ER;	submitted by ET;	2. Ensure remedial measures	remedial actions to IEC
consecutive	3. Advise the ER on the	2. Check Contractor's working	properly implemented.	within three working days of
samples	effectiveness of the proposed	method;		notification;
	remedial measures;	3. Discuss with ET, ER and		2. Implement the agreed
	4. Repeat measurements to	Contractor on possible		proposals;
	confirm findings;	remedial measures if		3. Amend proposal if
	5. Increase monitoring	required;		appropriate.
	frequency to daily;	4. Advise the ER on the		
	6. Discuss with IEC, ER and	effectiveness of the proposed		
	Contractor on remedial	remedial measures;		
	actions required;			

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

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

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

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

# **Appendix J - Event Action Plans**

E4		Act	tion	
Event	ET	IEC	ER	Contractor
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under
	taken for the exceedances;		consider what portion of the	control;
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of
	frequency;		instruct the Contractor to stop	works as determined by the
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is
	the Contractor's remedial		exceedance is abated.	abated.
	action with the ER and keep			
	the IEC informed of the			
	results;			
	8. If exceedance stops, cease			
	additional monitoring.			

# **Appendix J - Event Action Plans**

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

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

# **Appendix J - Event Action Plans**

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

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implem	nentatio	n Stages	Status								
						D	С	0									
Air Quality Impa	act																
	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m² for the respective watering frequency;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		^								
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)								
	3-sided barriers around the stockpiling areas WA3 and WA4.								٨								
	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice:  Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		^								
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								٨								
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;										۸						
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								۸								
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								۸								
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;					-			1								۸
	Imposition of speed controls for vehicles on unpaved site roads, $8\ km$ per hour is the recommended limit;								N/A(1)								

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	C	0	
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								^
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;								۸
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)
Noise Impact									
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment:  - Concrete lorry mixer  - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne  - Generator, Super Silenced, 70 dB(A) at 7m  - Poker, vibratory, Hand-held (electric)  - Water Pump, Submersible (Electric)  - Mobile Crane - KOBELCO CKS900  - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
S3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least $10 \text{kg/m}^2$ to screen noise from movable and stationary plant.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
S3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m <sup>2</sup> to screen noise from generally static noisy plant such as air compressors.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		۸
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air- borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)

EM&A Ref.	· · · · · · · · · · · · · · · · · · ·	_ *	Recommended Agent or Measures & Main	Relevant Standard or Requirement	Implei	nentatio	Status		
						D	C	0	
\$3.4.1.1	Implementation of good site practice:  Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;  Mobile plant, if any, should be sited as far from NSRs as possible;  Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;  Use of site hoarding as a noise barrier to screen noise at low level NSRs;  Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and  Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.  The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^ ^ ^ N/A
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following:  Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
						D	C	0	
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								۸
	The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of $0.1 \text{m}^3/\text{s}$ , a sedimentation basin of $30 \text{m}^3$ would be required and for a flow rate of $0.5 \text{m}^3/\text{s}$ the basin would be $150 \text{m}^3$ . All effluent discharged from the construction site should comply with the standards stipulated in the TM-DSS. The detailed design of the sand/silt traps shall be undertaken by the Contractor prior to the commencement of construction;								N/A(1)
	In accordance with ProPECC PN 1/94, the construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as far as practicable. All exposed earth areas should be completed and vegetated as soon as possible after the earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;								^
	The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;								۸
	All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;								۸
	Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stages		Status
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	Open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;								۸
	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;								۸
	Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94.  Particular attention should be paid to the control of silty surface runoff during storm events;								N/A(1)
	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at the exit of every construction site where practicable. Wash- water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel- washing bay to prevent vehicle tracking of soil and silty water to public roads and drains;								۸
	Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources, specifically Works Areas WA1, WA2, WA4 and WA5 where plant maintenance is proposed. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain;								N/A(1)
	The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 11 Waste Management of this EIA report; and								۸
	All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.								٨

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implem			Implementation Stages		Status
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	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A		
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
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S4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage:  All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed;	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub- contractors	WPCO		Y		۸
	The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;  The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								۸
	An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentatio	n Stages	Status
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S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include:		Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	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;								۸
	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	nended Agent o			nentatio	n Stages	Status	
						D	С	0	
\$4.2.1.1	The Contractor must, also, register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		۸
	Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;								
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								۸
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implem	Implementation Stages				Implementation Stages		Implementation Stages		Status
						D	С	0							
Marine Ecology				•	•										
S5.3.1.1	Good construction practice measures have been recommended to be implemented as follows:  Avoid damage and disturbance to the remaining and surrounding natural habitat;	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)						
	Placement of equipment in designated areas within the existing disturbed land;							•	N/A(1)						
	Spoil heaps should be covered at all times;								N/A(1)						
	Construction activities should be restricted to the designated works areas; and								N/A(1)						
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)						
Fisheries															
S6.2.1.2	No fisheries specific mitigation measures.														

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		-		Status
						D	С	0		
Landscape and	Visual	•		•	•					
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		۸	
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		N/A	
\$7.2.1.2	Large temporary stockpiles of excavated material shall be covered with unobtrusive sheeting to prevent dust and dirt spreading to adjacent landscape areas and vegetation, and to create a neat and tidy visual appearance.	To prevent unnecessary dust and dirt contaminating the air and adjacent areas.	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸	
\$7.2.1.2	Construction plant and building material shall be orderly and carefully stored in order to create a neat and tidy visual appearance.	To mitigate potential visually obtrusive areas	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸	
\$7.2.1.2	Erection of decorative screen hoarding should be designed to be compatible with the existing urban context.	To mitigate and screen any potential visually obtrusive areas and enhance urban environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸	
\$7.2.1.2	All lighting in construction site shall be carefully controlled to minimize light pollution and night-time glare to nearby residences and GIC user. The contractor shall consider other security measures, which shall minimize the visual impacts.	To mitigate light pollution and adverse visual impacts on surrounding environment	All relevant works sites	CEDD's Contractor	EIAO TM		Y		۸	
S7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)	

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	ended & Main	Implementation Agent	Relevant Standard or Requirement	Implei	mentatio	n Stages	Status
						D	С	0	
S7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
S7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		mplementation Stages	
						D	С	0	
Cultural Heritas	l ge								
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								
Waste Managen	nent Implication					l			
S9.2.1.2	The requirements as stipulated in the ETWB TC(W) No.19/2005 Environmental Management on Construction Sites and the other relevant guidelines should be included in the Particular Specification for the future contractor as appropriate.	To keep trace of the generation, minimization, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A
S9.2.1.2	The future contractor should be requested to submit an outline Waste Management Plan (WMP) prior to the commencement of construction work, in accordance with the ETWB TC(W) No.19/2005 so as to provide an overall framework of waste management and reduction. The WMP should include:  - Waste management policy; - Record of generated waste; - Waste reduction target; - Waste reduction programme; - Role and responsibility of waste management team; - Benefit of waste management; - Analysis of waste materials; - Reuse, recycling and disposal plans; - Transportation process of waste products; and - Monitoring and action plan.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	n Relevant Standard or Requirement	Imple	mentatio	Status		
						D	С	0	
S9.2.1.2	A recording system for the amount of waste generated, recycled and disposed (locations) should be established. The future contractor should also provide proper training to workers regarding the appropriate concepts of site cleanliness and waste management procedures, e.g. waste reduction, reuse and recycling all the time.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The CEDD should be timely notified of the estimated spoil volumes to be generated and the PFC should be notified and agreement sort on the disposal of surplus inert C&D materials e.g. good quality rock during detailed design of the Trunk Road T2 Project. Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and to ensure acceptability at public filling areas or reclamation sites.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	The extent of cutting operation should be optimised where possible. Earth retaining structures and bored pile walls should be proposed to minimise the extent of cutting.	To minimize, reuse and disposal of C&D materials	_	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	Inert C&D materials from road pavement would be reused for backfilling where possible	To minimize, reuse and disposal of C&D materials	_	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)
S9.2.1.2	TBM generated alluvium and other C&D materials should be treated at a slurry treatment plant prior to transferring to Public Fill Reception Facilities.	To minimize, reuse and disposal of C&D materials	TMB works area / during TBM works	Contractor	DevB TC(W) No.6/2010		Y		۸
S9.2.1.2	The site and surroundings should be kept tidy and litter free.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	Implen	nentation	1 Stages	Status
						D	C	0	
S9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^
\$9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
S9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
\$9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	Implementation Stages		aplementation Stages		Status
						D	С	0			
S9.2.1.2	Standard formwork or pre-fabrication should be used as far as practicable to minimise the C&D materials arising. The use of more durable formwork or plastic facing for construction works should also be considered. The use of wooden hoardings should be avoided and metal hoarding should be used to facilitate recycling. Purchasing of construction materials should be carefully planned in order to avoid over-ordering and wastage.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)		
\$9.2.1.2	The future contractor should recycle as many C&D materials as possible on-site. The public fill and C&D waste should be segregated and stored in separate containers or skips to facilitate the reuse or recycling of materials and proper disposal. Where practicable, the concrete and masonry should be crushed and used as fill materials. Steel reinforcement bar should be collected for use by scrap steel mills. Different areas of the sites should be considered for segregation and storage activities.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		^		
\$9.2.1.2	All falsework should be steel instead of wood as far as practicable.	To minimize, reuse and disposal of C&D materials	All areas / throughout construction period	Contractor	DevB TC(W) No.6/2010		Y		N/A(1)		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	g Implementation Relevant Standard or Requirement		Impler	nentatio	n Stages	Status
						D	С	0	
S9.2.1.2	Chemical waste producers should register with the EPD and chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Wastes as follows:  - Suitable for the substance to be held, resistant to corrosion, maintained in good conditions and securely closed; - Having a capacity of <450L unless the specifications have been approved by the EPD; and - Displaying a label in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations Clearly labelled and used solely for the storage of chemical wastes; - Enclosed with at least 3 sides; - Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest; - Adequate ventilation; - Sufficiently covered to prevent rainfall entering (water collected within the bund must be tested and disposed of as chemical waste, if necessary); and - Incompatible materials are adequately separated.	chemical waste within works sites and works areas	All areas / throughout construction period	Contractor	Code of Practice on the Packaging, Handling and Storage of Chemical Wastes		Y		A
S9.2.1.2	Waste oils, chemicals or solvents should not be disposed of to drain.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	EIAO TM		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	Implementation Stages		nplementation Stages		Status
						D	С	0			
S9.2.1.2	Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers from utilising them. Night soil should be regularly collected by licensed collectors.	To ensure proper disposal of sewage sludge	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)		
S9.2.1.2	General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes. Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By- laws. In addition, general refuse should be cleared daily and disposed of to the nearest licensed landfill. Burning of refuse on construction sites is prohibited.	To separate the general refuse from other waste types and proper disposal of the refuse	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		^		
S9.2.1.2	All waste containers should be in a secure area on hardstanding.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		۸		
\$9.2.1.2	Aluminium cans should be collected and recovered from the waste stream by reputable collectors if they are segregated and easily accessible. Separately labelled bins for their deposition should be provided as far as practicable.	To implement on-site sorting facilitating reuse and recycling of materials as well as proper disposal of waste	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)		
S9.2.1.2	Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the future contractor should be advocated. Waste separation facilities for paper, aluminium cans, plastic bottles, etc should be provided on-site.	To separate the general refuse from other waste types and proper disposal of the refuse	Site Offices / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		-		n Stages	Status
						D	С	0			
S9.2.1.2	Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including waste reduction, reuse and recycling.	To implement good site practice for handling, sorting reuse and recycling of wastes	Contract Mobilisation	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance		Y		N/A(1)		
S9.2.1.2	During construction phase, regular site inspections and supervision of the waste management procedures shall be undertaken as part of the EM&A procedures.	To ensure proper control, all waste is removed from site areas as appropriate and illegal disposal of waste is not being undertaken	All areas / throughout construction period	Contractor	EIAO TM		Y		۸		

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

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

**Reporting Month**: April 2025

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

#### Remarks:

No environmental complaint was received in the reporting period.

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

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

Table L2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
#A01	The Launching Shaft	24 June 2020	A complaint regarding dust nuisance possible caused by the construction works at the Launching Shaft area was received.	<ul> <li>Training regarding the loading and unloading height control was provided to the labourers to ensure dusty materials are transported under a minimum practical height.</li> <li>Water sprays system was installed around the location of complaint to prevent dust generated from wind erosion on the stockpile.</li> <li>Contractor was reminded to further enhance the dust mitigation measures to minimize the dust nuisance.</li> </ul>	Air	Closed
#N01	The Launching Shaft	03 & 13 July 2020	The verbal complaint regarding the noise nuisance generated from D-wall cutter operation nearby the PWCL	<ul> <li>Noise barrier was erected between noise source and the PWCL building.</li> <li>Construction programme was reviewed as to minimize operation of PME nearby the PWCL building</li> <li>Contractor was recommended to implement the noise mitigation measures and other good site practices to minimize the noise nuisance.</li> </ul>	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			building was received by CEDD			
#N03	The Launching Shaft	03 December 2020	A verbal complaint regarding the noise nuisance, generated from the construction works nearby PWCL building, was received by CEDD.	- Contractor has taken the remedial action (i.e. Some of the breakers in which were operated nearby the concerned area were wrapped up with the acoustic insulation sheets) and noise mitigation measures (i.e. Noise barrier was installed adjoining the building to minimize the influence of construction noise, maintenance for all Powered Mechanical Equipment was conducted regularly, review on the construction programme to minimize the operations of PMEs near the PWCL) to minimize the noise impact generated from breaking activities.	Noise	Closed
#N10	Launching Shaft and Barging Point	28 February 2023	A Complaint of Noise Nuisance caused by the nighttime construction	<ul> <li>The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> </ul>	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			activities was received.	<ul> <li>In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi- enclosure/noise barrier and provide regularly maintenance for PMEs.</li> </ul>		
		7 March 2023	Follow up complaint from the same complainant was received and he/she informed that the construction noise nuisance at 09:50pm.	<ul> <li>The cause of the noise nuisance may cause by the operation of Derrick Barge and the Conveyors.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semienclosure/noise barrier and provide regularly maintenance for PMEs.</li> </ul>	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
#W01	Launching Shaft and Barging Point	13 March 2023	A complaint regarding to the silt/dirt being swept into the sea from the operation of barge under Trunk Road T2.	<ul> <li>There is no direct evidence that the Silt/ Dirt being swept into the sea from the barge of T2.</li> <li>The following recommendations are made to further enhance the mitigation measures:</li> <li>Provide regular training to site personnel on proper waste management and appropriate handling procedures.</li> <li>Provide sufficient waste disposal points and regular collection for disposal.</li> <li>Closely monitor the barge operation.</li> <li>The Contractor has implemented the above environmental mitigation measures (As mentioned in Section 2.6) on site to ensure that no silt and household waste being swept into any water body.</li> </ul>	Water	Closed
#N12	Launching Shaft Area, Barging Point, Cheung Yip Street	17 November 2023	A verbal complaint regarding the noise nuisance, generated from the	<ul> <li>The cleaning work using the water jetting unit may be the cause of noise nuisance.</li> <li>No limit level exceedance was recorded for additional noise monitoring and the weekly construction noise monitoring.</li> <li>In addition, the Contractor shall review the construction schedule, priorities the work</li> </ul>	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			construction works near Cheung Yip Street after 21:00.	sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semienclosure/noise barrier and provide regularly maintenance for PMEs.		
#W02	Launching Shaft Area	22 November 2023	A complaint regarding to the number of fish die-off at the Kwun Tong Typhoon Shelter.	<ul> <li>There is no direct evidence that the dead fish floating near the Kwun Tong Pier were caused by the construction activities.</li> <li>The following recommendations are made to contractor to further enhance the mitigation measures:</li> <li>1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.</li> <li>2) Conduct regular water quality monitoring</li> <li>3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.</li> </ul>	Water	Closed
#N13	Portion Q1	23 April 2024	A verbal complaint regarding the	<ul> <li>The complaint is considered as project-related.</li> <li>Despite the lifting operation being carried out at the site during the night, the contractor was in</li> </ul>	Noise	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			noise nuisance, generated from the construction works nearby the Wai Lok Street building at 10:20 pm, was received by EPD	possession of a valid construction noise permit (GW-RE0328-24). All construction activities were performed in accordance with legal regulations, and no violations of the law were found.  In addition, the Contractor shall review the construction schedule, priorities the work sequence and maintain good site practices, such as erecting noise barrier as close as possible to the noise source, replace damaged semi enclosure/noise barrier and provide regularly maintenance for PMEs.  As the complaint was considered as project related, the contractor had implemented the relevant mitigation measures to minimize the noise impact including:1) Conduct regular noise monitoring.2) Conduct regular maintenance for all Powered Mechanical Equipment to minimize the noise generated from engines.  Displayed the CNP at the gates of Portion Q.		

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
#W03	Launching Shaft Area	23 July 2024	A complaint regarding wastewater discharge at an outlet near Children's Hospital	<ul> <li>There is no direct evidence that the discharged yellowish wastewater was caused by the construction activities.</li> <li>The following recommendations are made to contractor to further enhance the mitigation measures:</li> <li>1) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.</li> <li>2) Conduct regular water quality monitoring.</li> <li>3) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water.</li> </ul>	Water	Closed
#A02	Launching Shaft Area	5 September 2024	A complaint regarding dust nuisance, suspected to be caused by the construction works at the	<ul> <li>The dust emission was related to the bentonite refilling activities.</li> <li>The following recommendations are made to contractor to further enhance the mitigation measures:</li> <li>1) Conduct regular maintenance for several plants which used for refilling work.</li> </ul>	Air	Closed

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

Log Ref.	Location	Received Date	Details of Complaint/w arning/summ on and prosecution	Investigation/Mitigation Action	Nature	Status
			Launching Shaft area	<ul> <li>2) Reduce the maximum capacity of silo to 85% of total volume to prevent recurrence.</li> </ul>		
#W04	Launching Shaft Area	24 September 2024	A complaint regarding untreated water discharged into an unknown underground pipe inside the site via a blue plastic hose, muddy water also appeared at seafront of T2 site	<ul> <li>There is no direct evidence that the muddy water at seafront of T2 site was caused by the construction activities.</li> <li>The following recommendations are made to contractor to further enhance the mitigation measures:</li> <li>1) To avoid misleading, a water pump was directly connected from Cut &amp; Cover Shaft to the designated sump pit.</li> <li>2) Conduct regular maintenance for wastewater treatment facilities to maintain the quality of effluent.</li> <li>3) Conduct regular water quality monitoring.</li> <li>4) Carry out regular visual inspection to the Kai Tak Approach Channel (near the outfall of discharge point) to prevent illegal discharge of untreated water</li> </ul>	Water	Closed

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#### APPENDIX M SUMMARY OF EXCEEDANCE

### **Appendix M – Summary of Exceedance**

**Reporting Month:** April 2025

#### (A) Exceedance Report for Air Quality

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

#### (B) Exceedance Report for Construction Noise

#### **Action Level for Construction Noise**

No Action Level exceedance was recorded due to no documented complaint received in this reporting month.

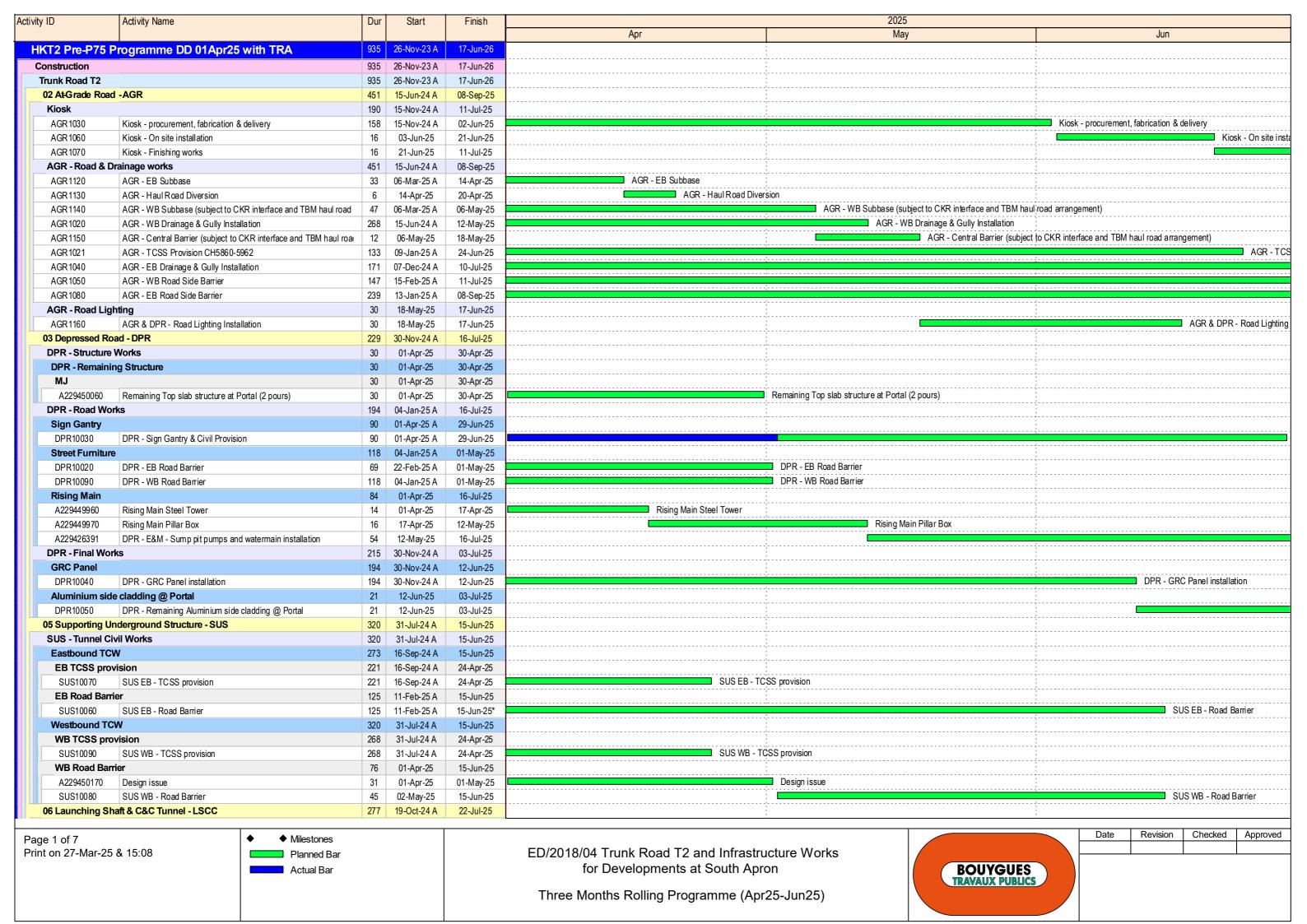
#### **Limit Level for Construction Noise**

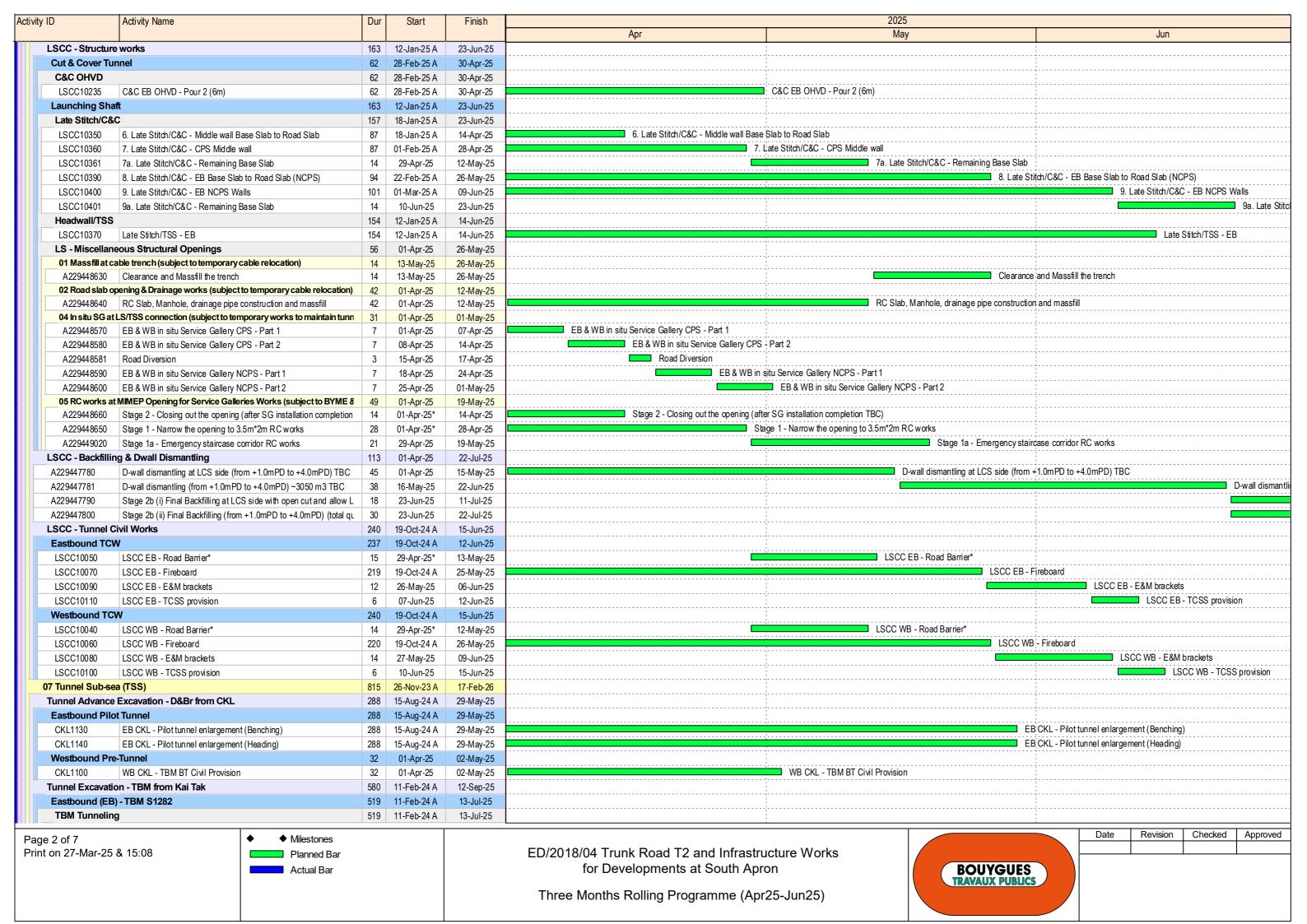
No exceedance for daytime construction noise monitoring was recorded in the reporting month.

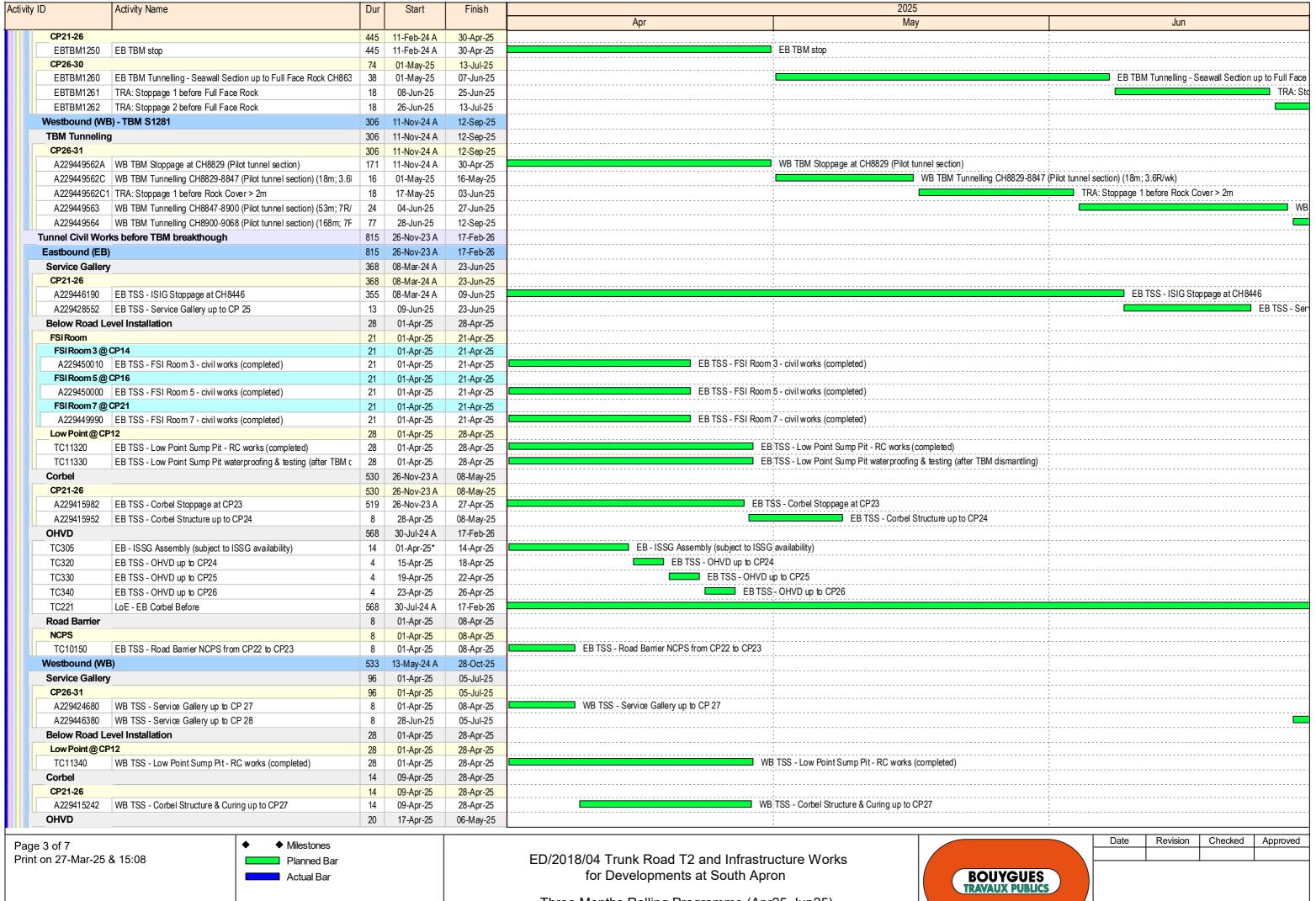
#### (C) Summary of Landscape and Visual Non-Conformity

(NIL in the reporting month)

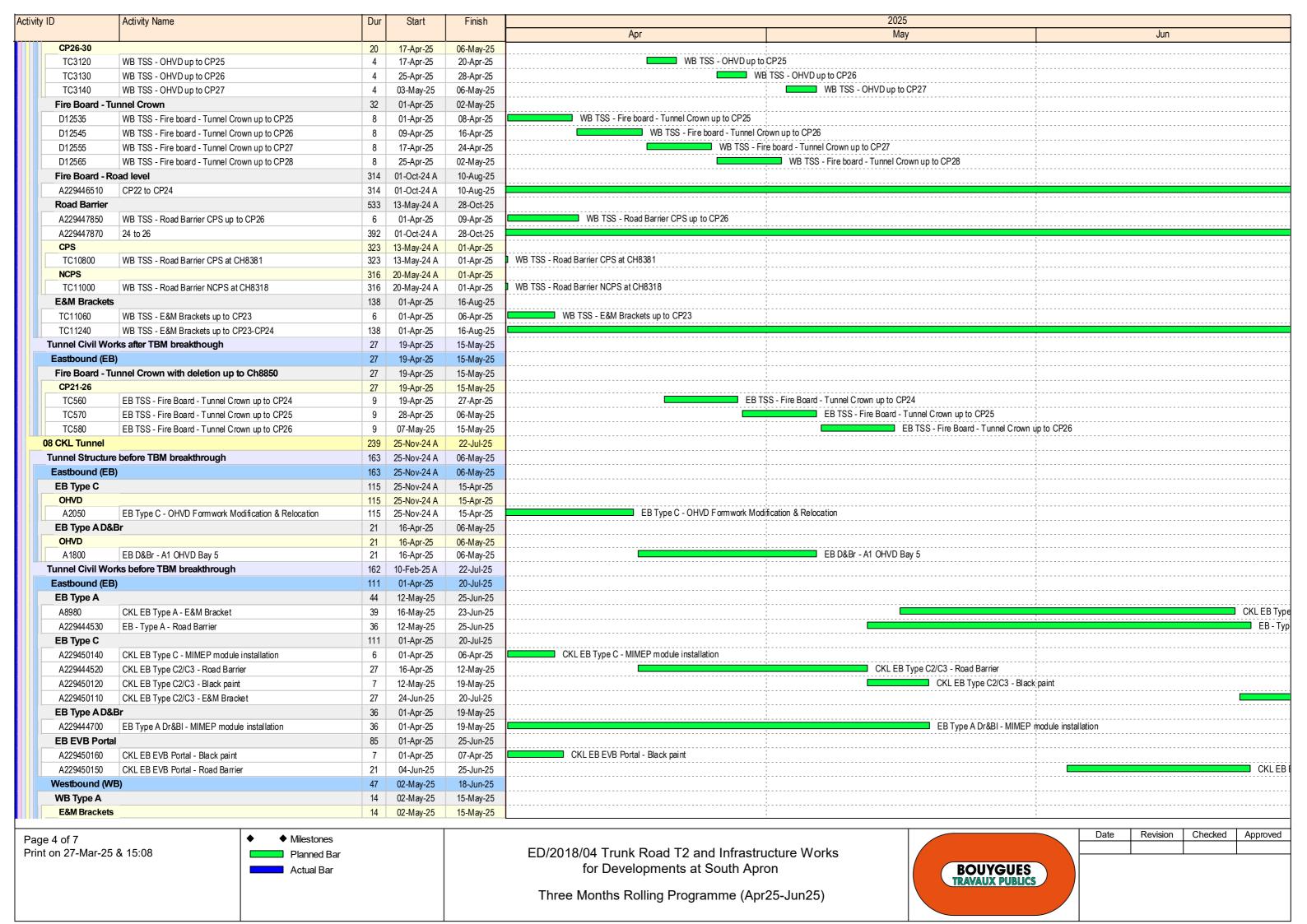
APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME

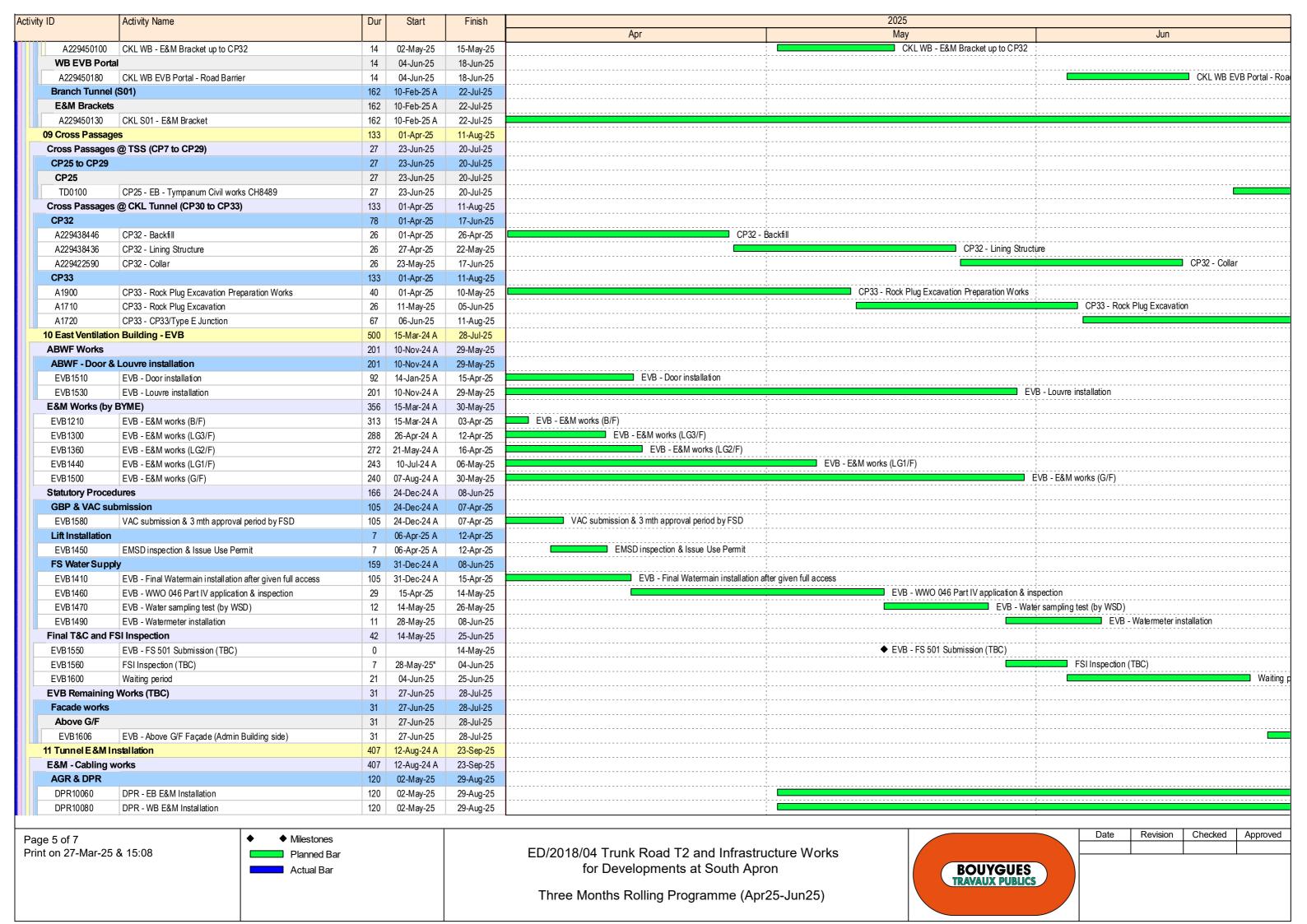


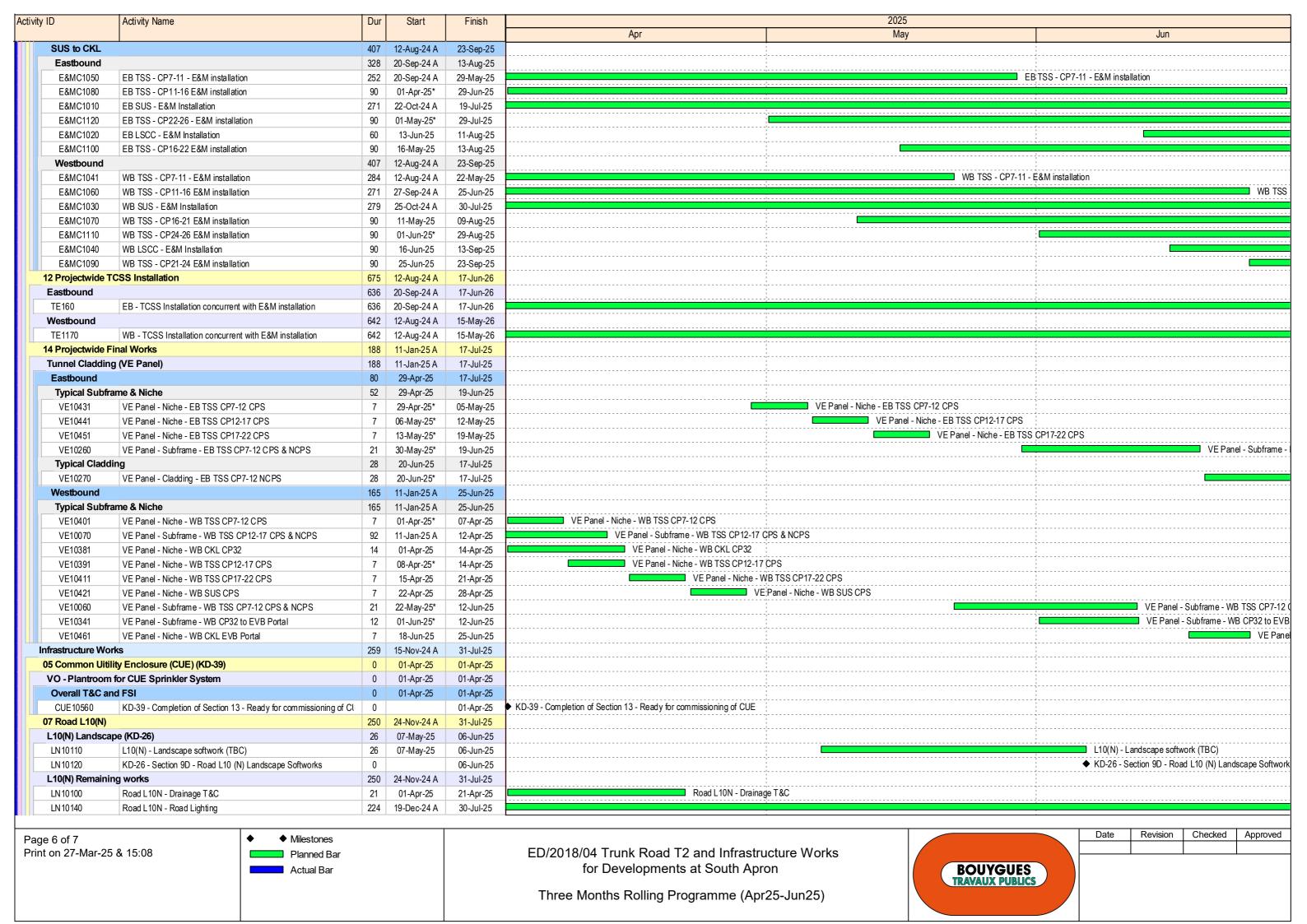


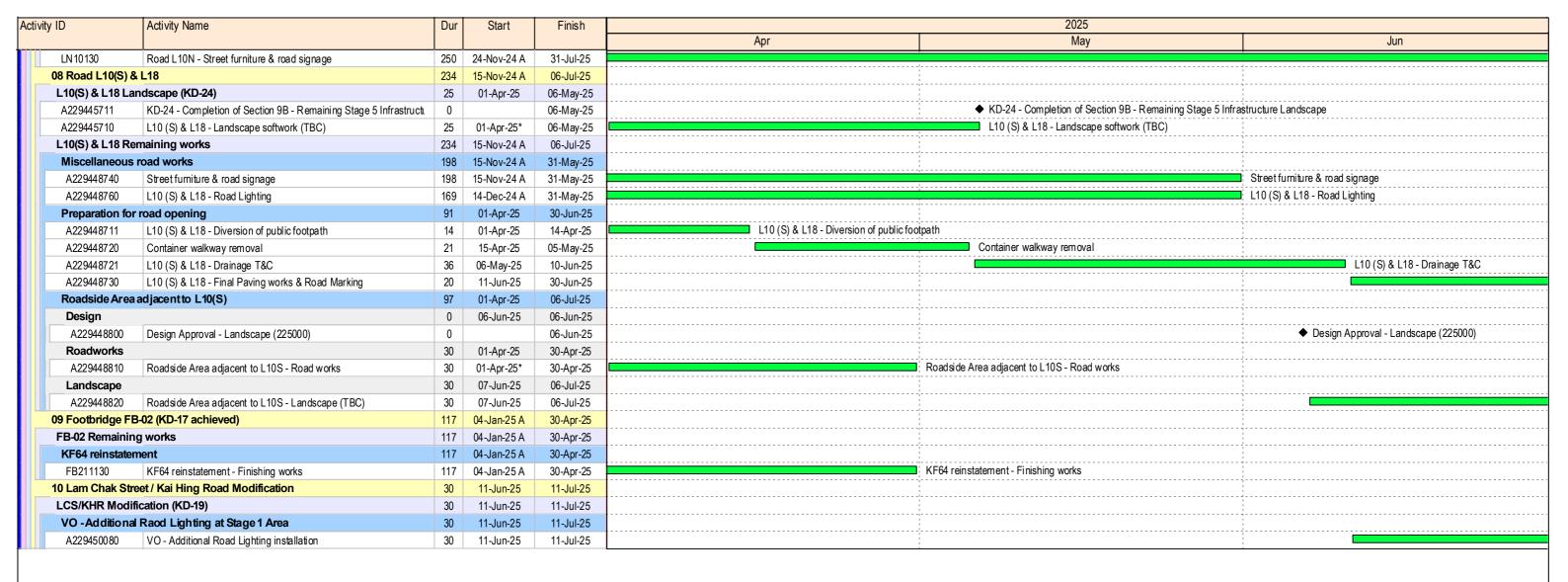


Three Months Rolling Programme (Apr25-Jun25)









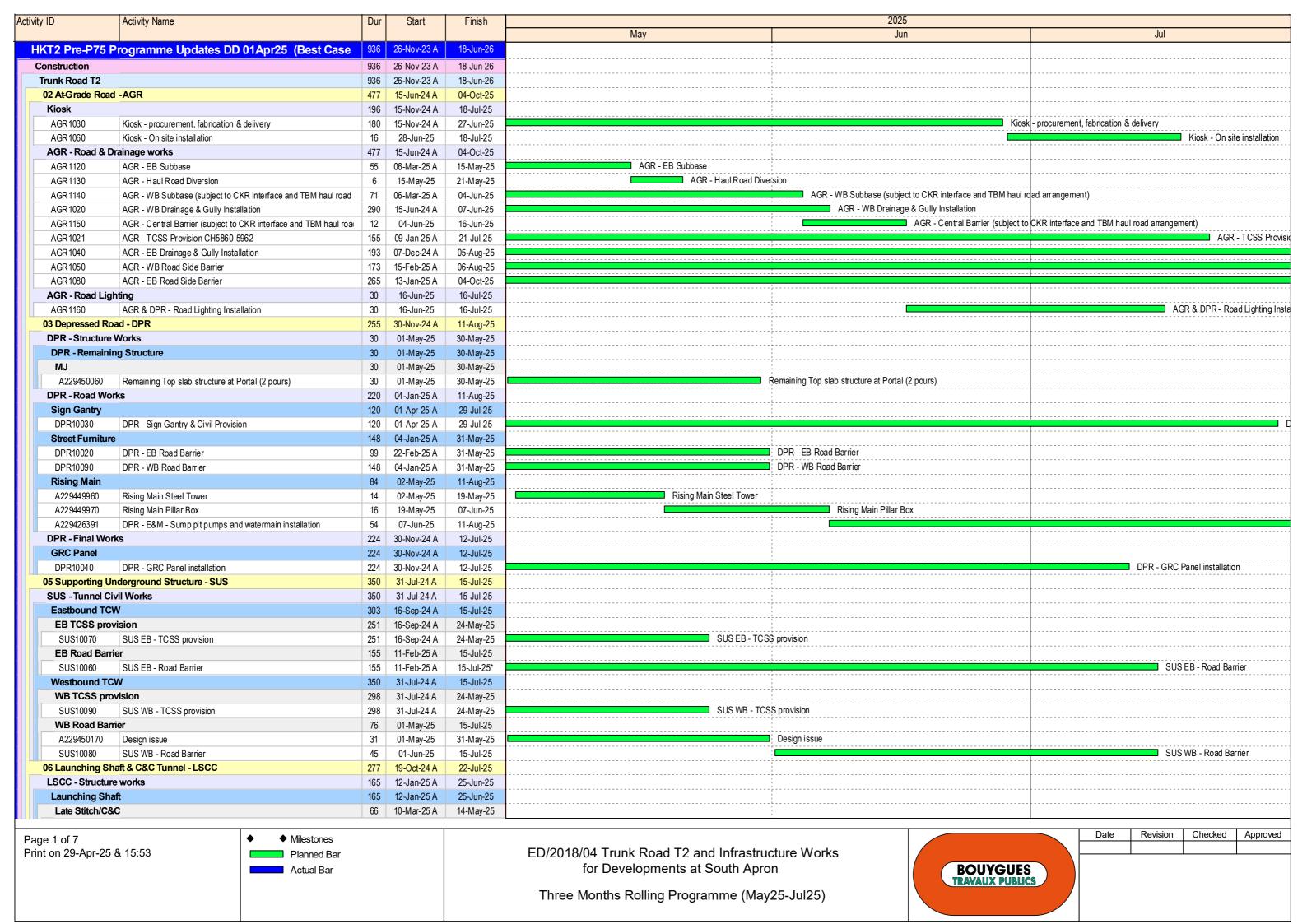
Page 7 of 7 Print on 27-Mar-25 & 15:08

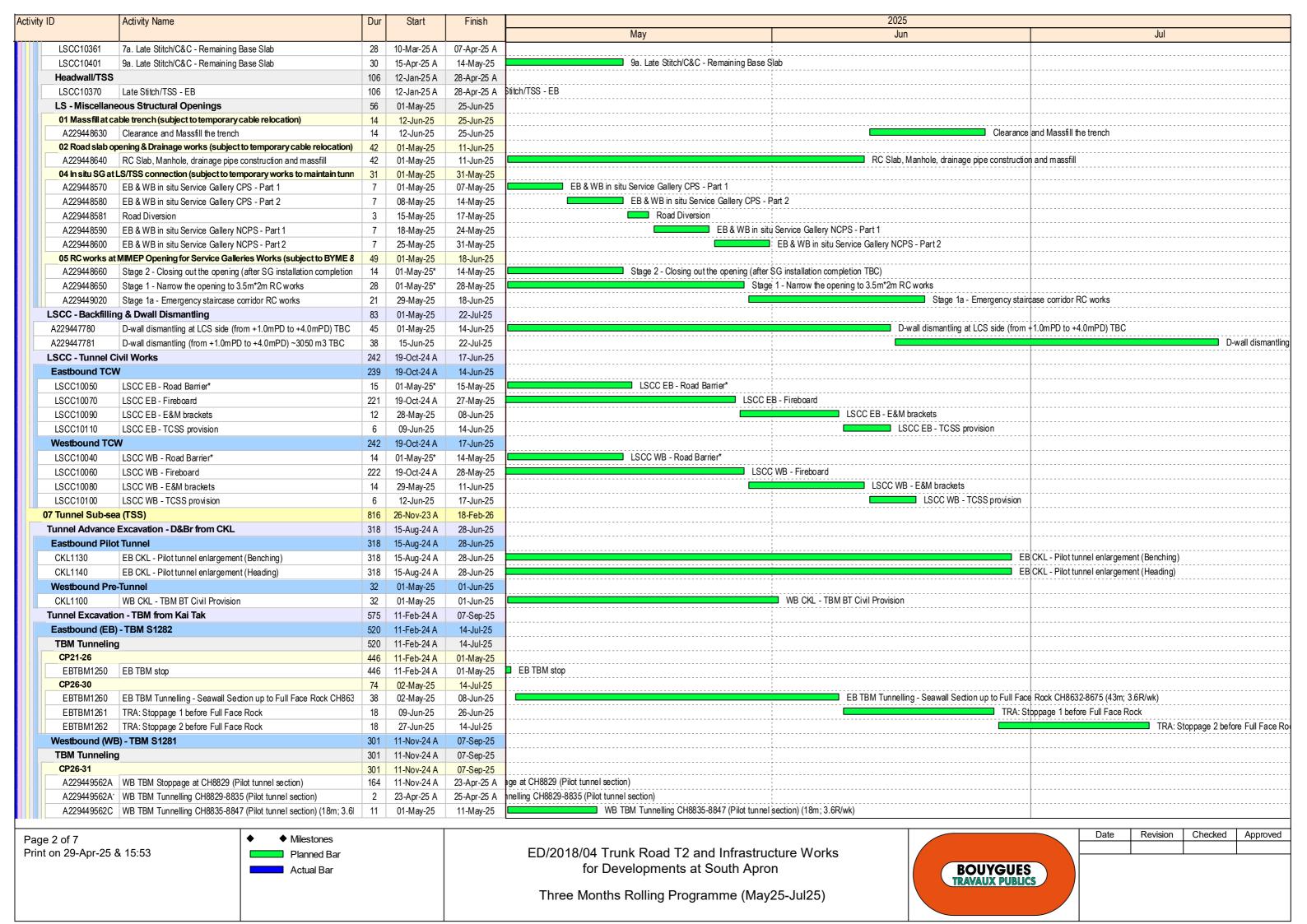


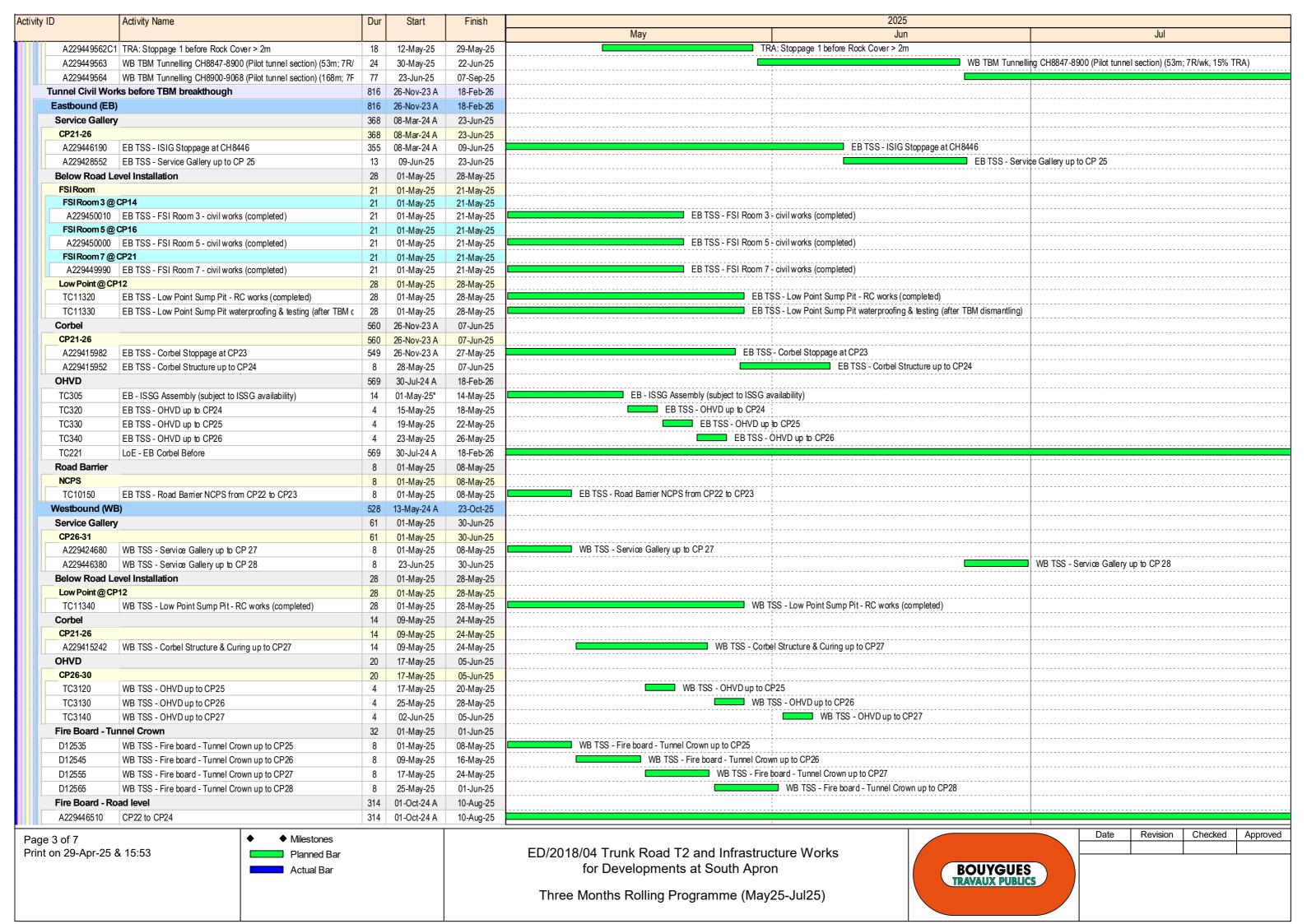
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

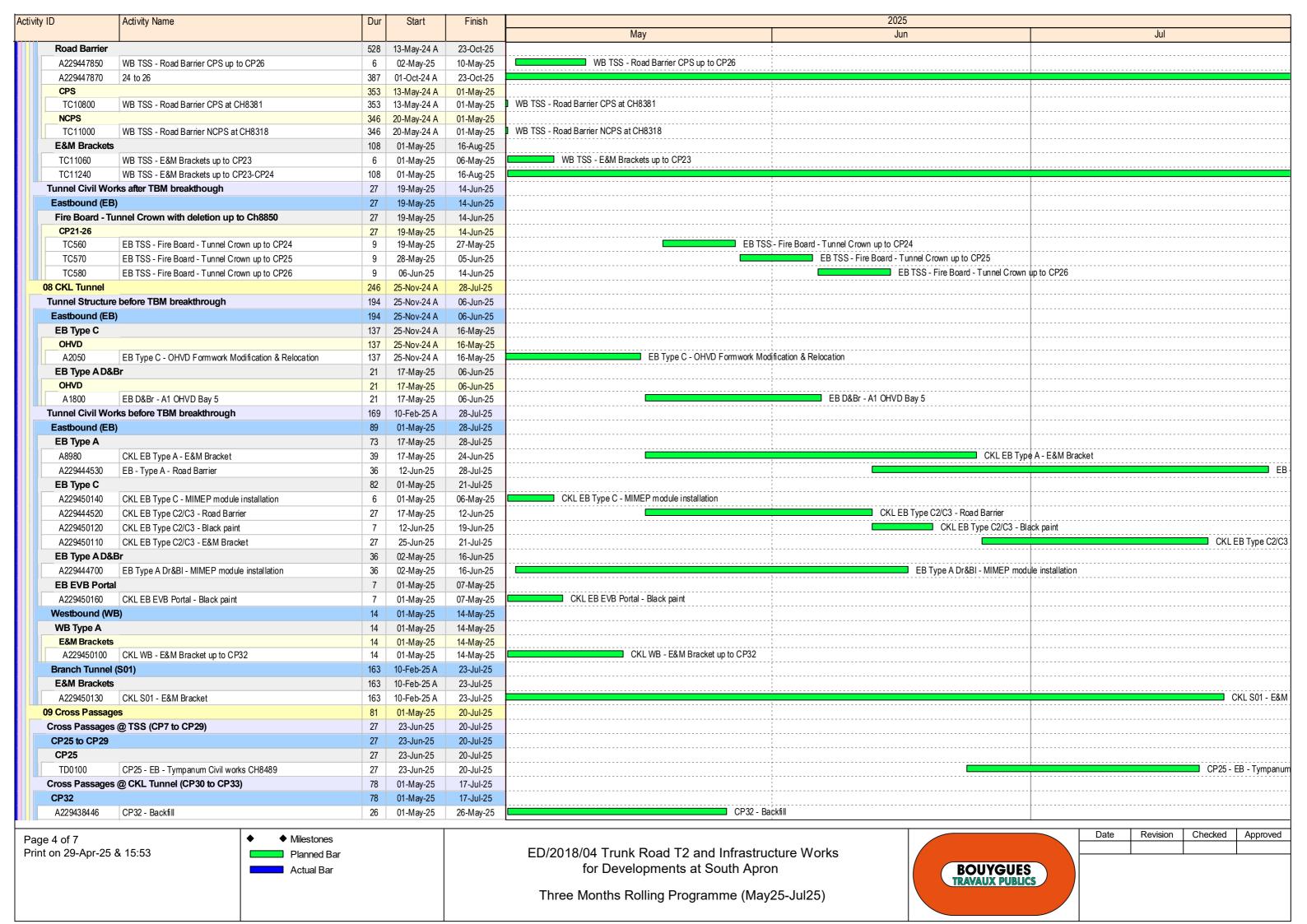
BOUYGUES TRAVAUX PUBLICS

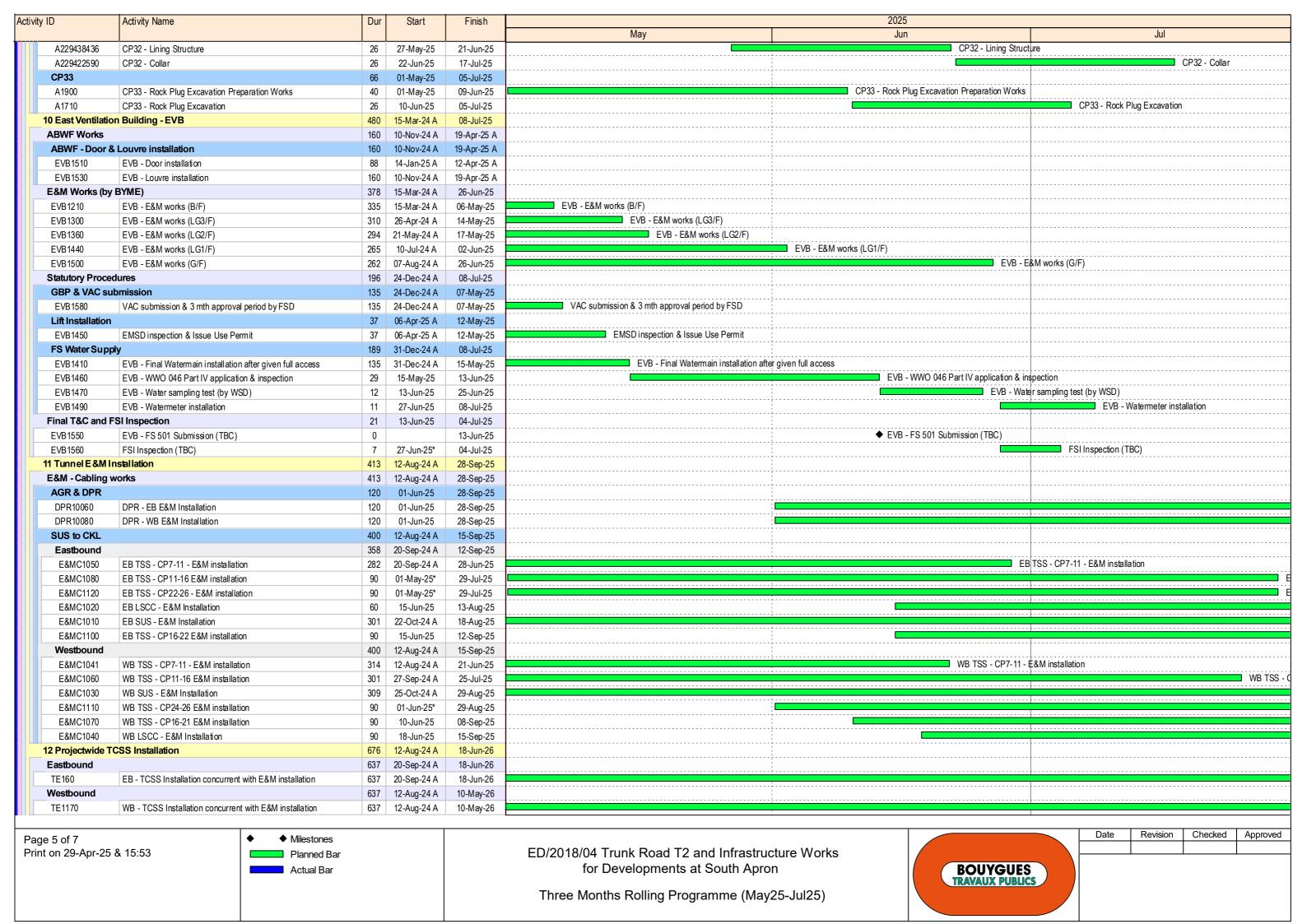
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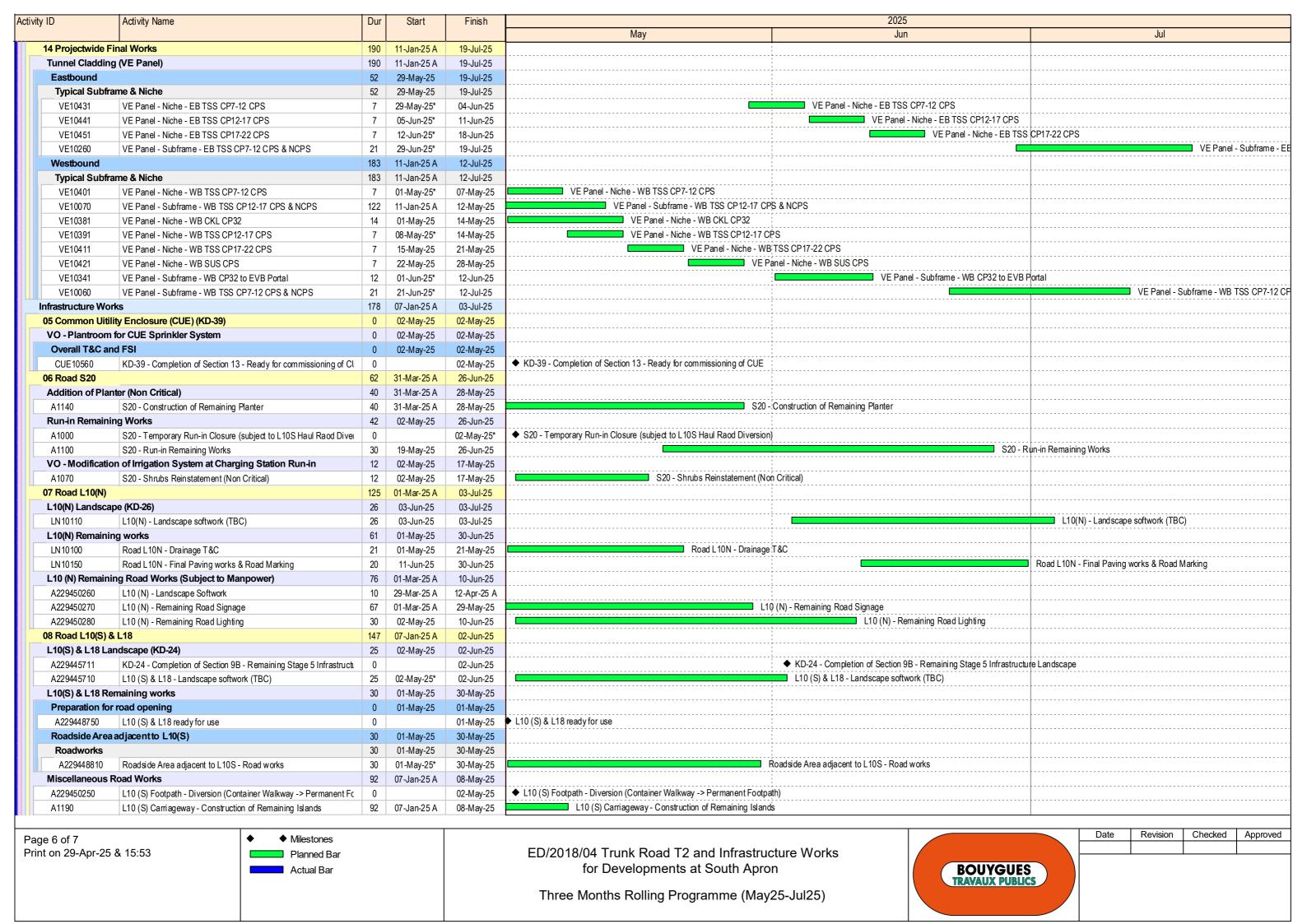












tivity ID	Activity Name	Dur	Start	Finish		2025	
					May	Jun	Jul
Preparation for	Road Opening (L10S)	24	29-Mar-25 A	03-May-25			
A1080	L10 (S) Carriageway - Container Walkway Removal	18	29-Mar-25 A	26-Apr-25 A	rriageway - Container Walkway Removal		
A229450210	L10 (S) Carriageway - Final Paving Works & Road Marking	6	26-Apr-25 A	03-May-25	L10 (S) Carriageway - Final Paving Works & Road Marking		
A229450220	L10 (S) - Site Access Change (Kai Tak Bridge Rd)	0		03-May-25	◆ L10 (S) - Site Access Change (Kai Tak Bridge Rd)		
09 Footbridge FI	3-02 (KD-17 achieved)	51	08-Mar-25 A	17-May-25	1		
FB-02 Remainin	g works	51	08-Mar-25 A	17-May-25			
KF64 reinstate	ment	51	08-Mar-25 A	17-May-25			
FB211150	KF64 Reinstatement - Handrail	51	08-Mar-25 A	17-May-25	KF64 Reinstatement - Handrail		



Three Months Rolling Programme (May25-Jul25)



Date	Revision	Checked	Approved

# TRUNK ROAD T2

## TRAFFIC CONTROL SURVEILLANCE SYSTEM AND ASSOCIATED WORKS

### THREE MONTH ROLLING PROGRAMME

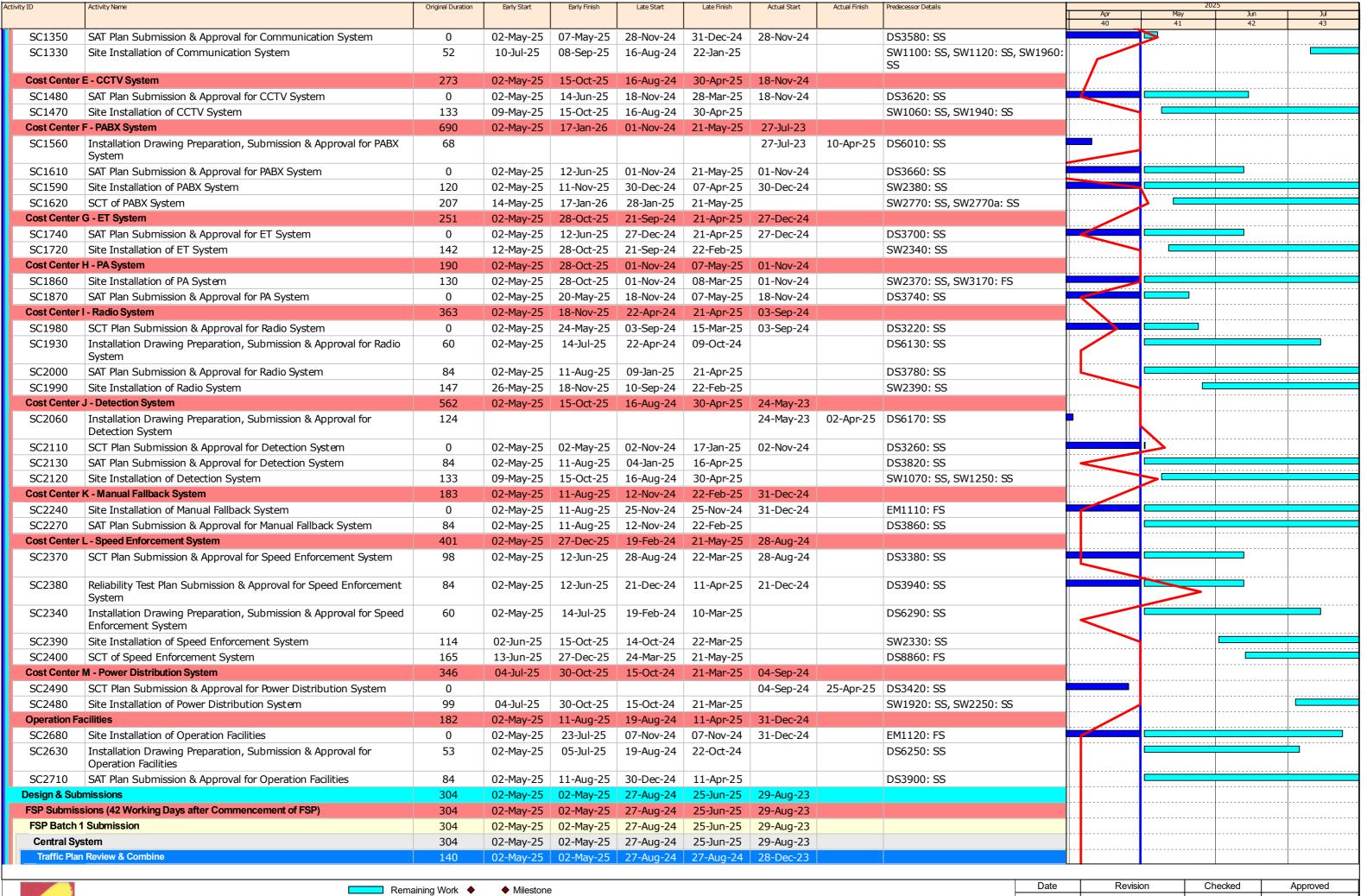
	ONTH ROLLING PROGRAMME											
Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	Apr	Z025 May Jun	Jul
- LD L	T (5 0 4 100 11 0 4 0 4 14 11 11 1	705	04.14 25	47.1 26	40.51.04	24.0.4.26	24.44 22			40	41 42	43
	2 - Traffic Control & Surveillance System & Associated Works	705	01-May-25				24-May-23					
Access Dates		75	01-May-25	15-Jul-25	03-Jun-24	14-Feb-25						<b>-</b>
AC1010a	Portion 2 - LSCC to CP7 (CP Side) - WB	0	01-May-25		11-Sep-24						<b>(</b>	
AC1010b	Portion 2 - LSCC to CP7 (NCP Side) - WB	0	01-May-25		02-Oct-24							
AC1010c	Portion 2 - LSCC to CP7 (Under OHVD) - WB	0	01-May-25		27-Dec-24							
AC1010e	Portion 2 - LSCC to CP7 (Service Gallery) - WB	0	01-May-25		01-Feb-25							
AC1030	Portion 4 - TKO-LTT (LT Interchange)	0	01-May-25		03-Jun-24							
AC1040	Underpass S21	0	01-May-25		16-Jan-25							
AC1050i	Portion 2 - LS - CKL Tunnel CP7 to CP11 (Niche cabinet) - EB	0	01-May-25		10-Sep-24						<u> </u>	
AC1080h	Portion 2 - LS - CKL Tunnel CP21 to CP24 (VSLS Signage Anchor) - WB	0	01-May-25		25-Jan-25							
AC1090f	Portion 2 - LS - CKL Main Tunnel CP29 to CP32 (Service Gallery) - EB	0	01-May-25		21-Jan-25							
AC1090g	Portion 2 - LS - CKL Main Tunnel CP30 to CP32 (Road Level) - WB	0	01-May-25		17-Sep-24					·		
AC1090h	Portion 2 - LS - CKL Main Tunnel CP30 to CP32 (Service Gallery) - WB	0	01-May-25		21-Jan-25					,		
AC1010i	Portion 2 - LSCC to CP7 (Service Gallery) - EB	0	15-May-25		01-Feb-25						•	
AC1020	Portion 3 - CKL Branch Tunnel in TKO-LTT Site	0	30-May-25		23-Aug-24						<b>◆</b>	
AC1050j	Portion 2 - LS - CKL Tunnel CP7 to CP11 (Niche cabinet) - WB	0	30-May-25		29-Sep-24						•	
AC1010f	Portion 2 - LSCC to CP7 (CP Side) - EB	0	01-Jun-25		23-Sep-24						<b>*</b>	
AC1010g	Portion 2 - LSCC to CP7 (Under OHVD) - EB	0	01-Jun-25		27-Dec-24						<b>†</b>	
AC1080f	Portion 2 - LS - CKL Tunnel CP24 to CP26 (Road Level) - WB	0	01-Jun-25		20-Sep-24						<b>*</b>	
AC1010d	Portion 2 - LSCC to CP7 (VSLS Signage Anchors & Niche Cabinet) - EB & WB	0	15-Jun-25		04-Oct-24						•	
AC1010h	Portion 2 - LSCC to CP7 (NCP Side) - EB	0	15-Jun-25		02-Oct-24						<b>♦</b>	
AC1060i	Portion 2 - LS - CKL Tunnel CP11 to CP16 (Niche Cabinet) - EB & WB	0	15-Jun-25		17-Dec-24						•	
AC1070i	Portion 2 - LS - CKL Tunnel CP16 to CP21 (Niche Cabinet) - EB & WB	0	15-Jun-25		22-Jan-25						•	
AC1080i	Portion 2 - LS - CKL Tunnel CP21 to CP24 (Niche Cabinet) - WB	0	15-Jun-25		14-Feb-25						•	
AC1090d	Portion 2 - LS - CKL Tunnel CP26 to CP30 (Service Gallery) - WB	0	15-Jun-25		19-Dec-24						<b>*</b>	
AC1090e	Portion 2 - LS - CKL Main Tunnel CP29 to CP32 (Road Level) - EB	0	15-Jul-25		02-Sep-24							•
Milestones of	Contract T2	0	01-May-25	01-May-25	27-Mar-25	27-Mar-25						
KD1050	Commencement of Project-wide FSD Inspection - Contract T2	0	01-May-25		27-Mar-25							
Summary by	Cost Center Center Cost Center Ce	690	02-May-25	17-Jan-26	19-Feb-24	21-May-25	24-May-23			<b>\</b>		
Cost Center	B - Central System	108	02-May-25	08-Sep-25	16-Aug-24	11-Apr-25						
SC1090	SAT Plan Submission & Approval for Central System	78	02-May-25	04-Aug-25	07-Jan-25	11-Apr-25			DS3500: SS			
SC1080	Site Installation of Central System	84	02-Jun-25	08-Sep-25	16-Aug-24	22-Jan-25			SW1100: SS, SW1120: SS, SW1960: SS, SW1090: SS, SW1670: SS, SW1770: SS			
Cost Center	C - Traffic Control Devices	367	02-May-25	11-Dec-25	27-Jun-24	11-Apr-25	23-Sep-24					
SC1200	SCT Plan Submission & Approval for Traffic Control Devices	0	02-May-25	12-Jun-25	23-Sep-24				DS2980: SS			
SC1220	SAT Plan Submission & Approval for Traffic Control Devices	84	-	11-Aug-25	-		-		DS3540: SS			
SC1210	Site Installation of Traffic Control Devices	181	-		27-Jun-24				SW1110: SS	[		
	D - Communication System	234	-			22-Jan-25	28-Nov-24					



Remaining Work 
Actual Work
Critical Activity

Milestone

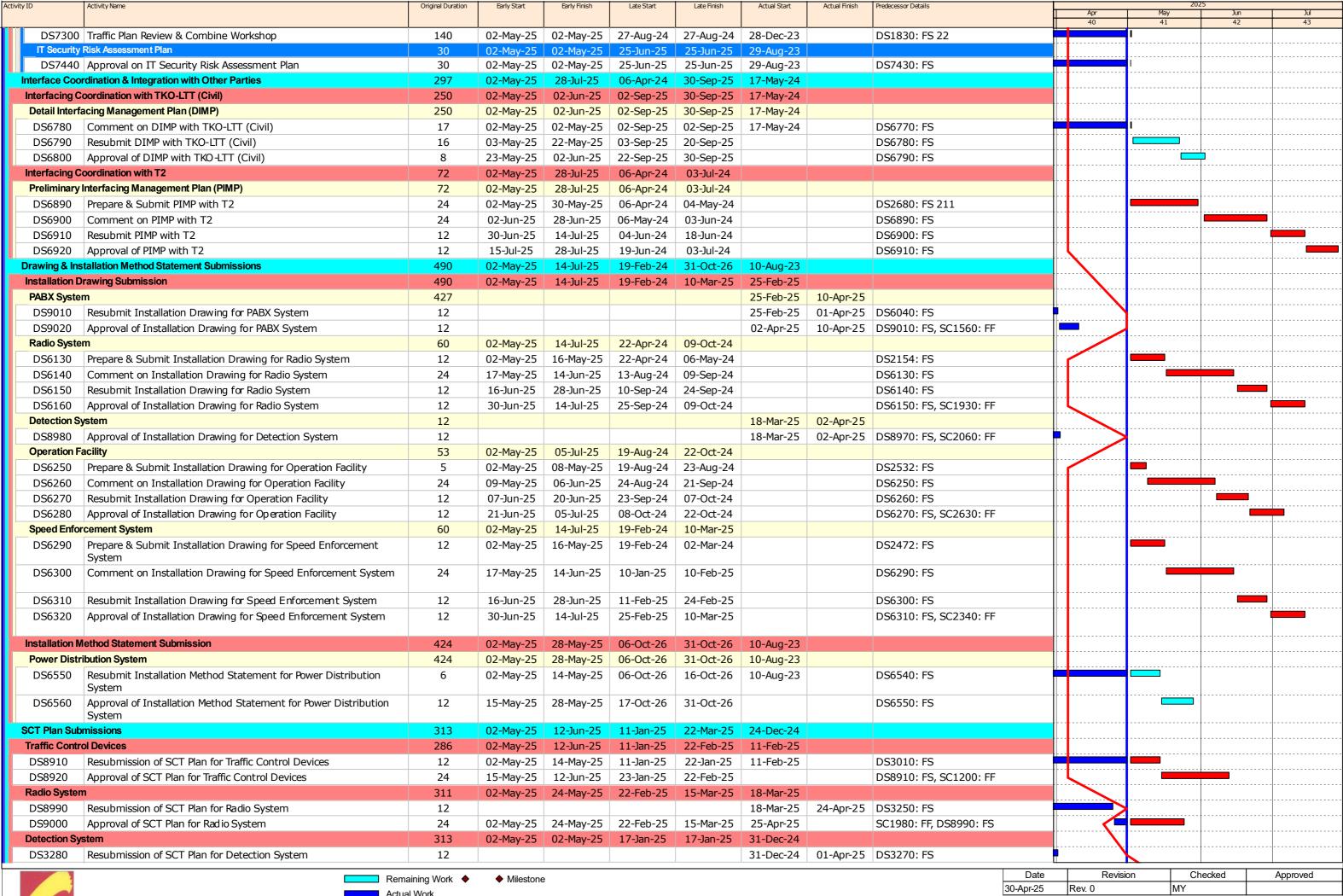
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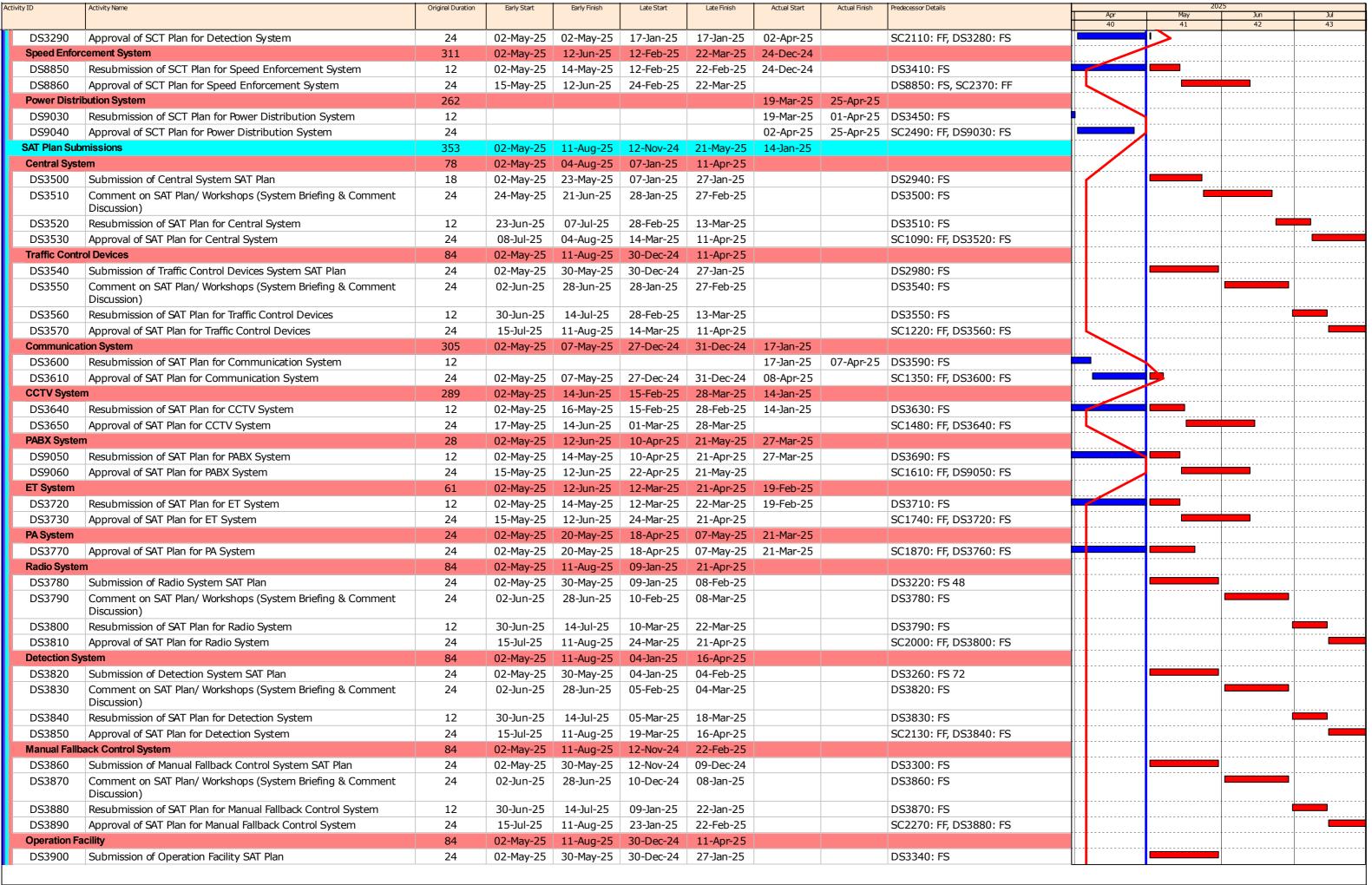
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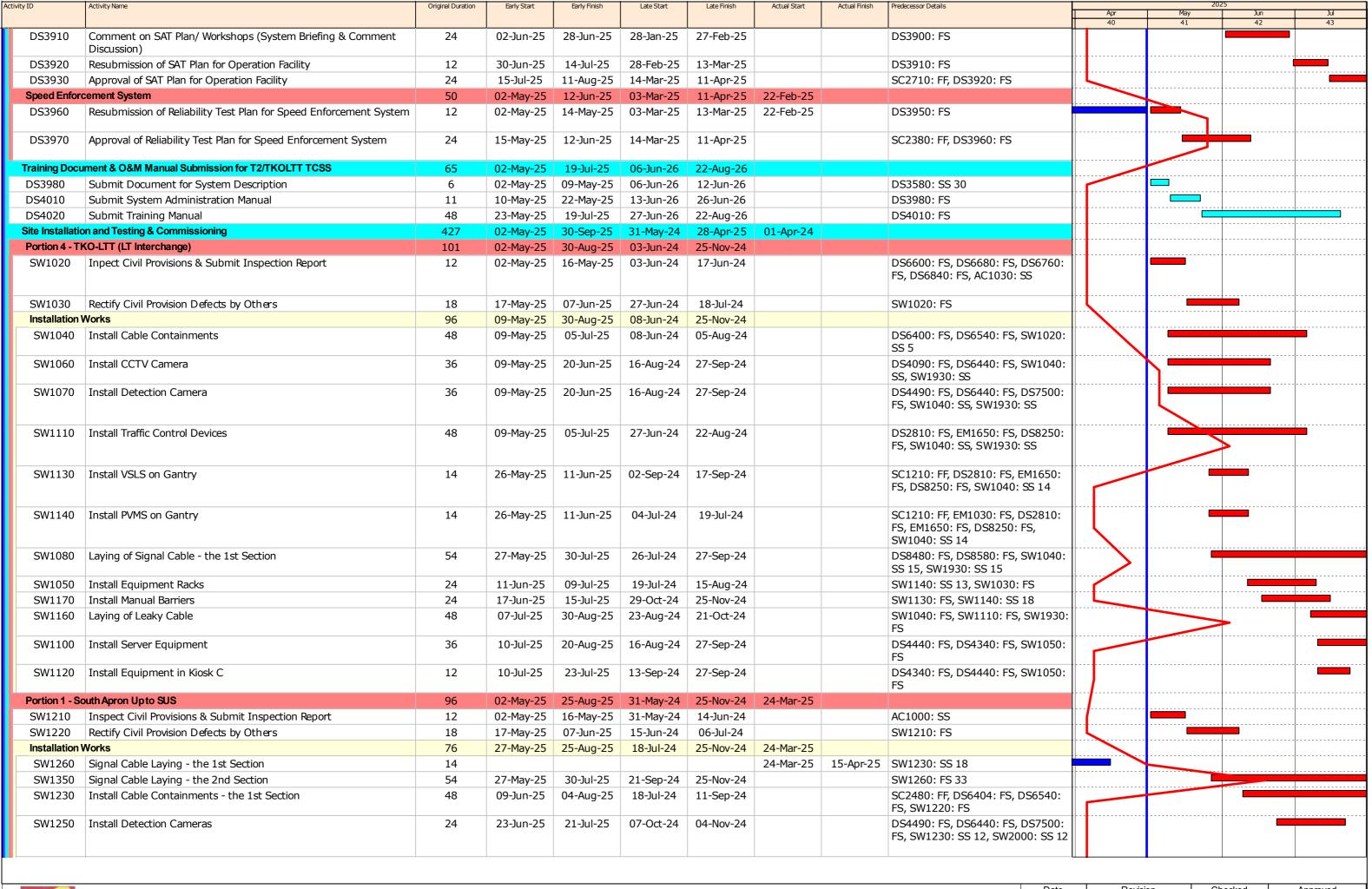
GTECH Services (Hong Kong) Limited

Actual Work Critical Activity



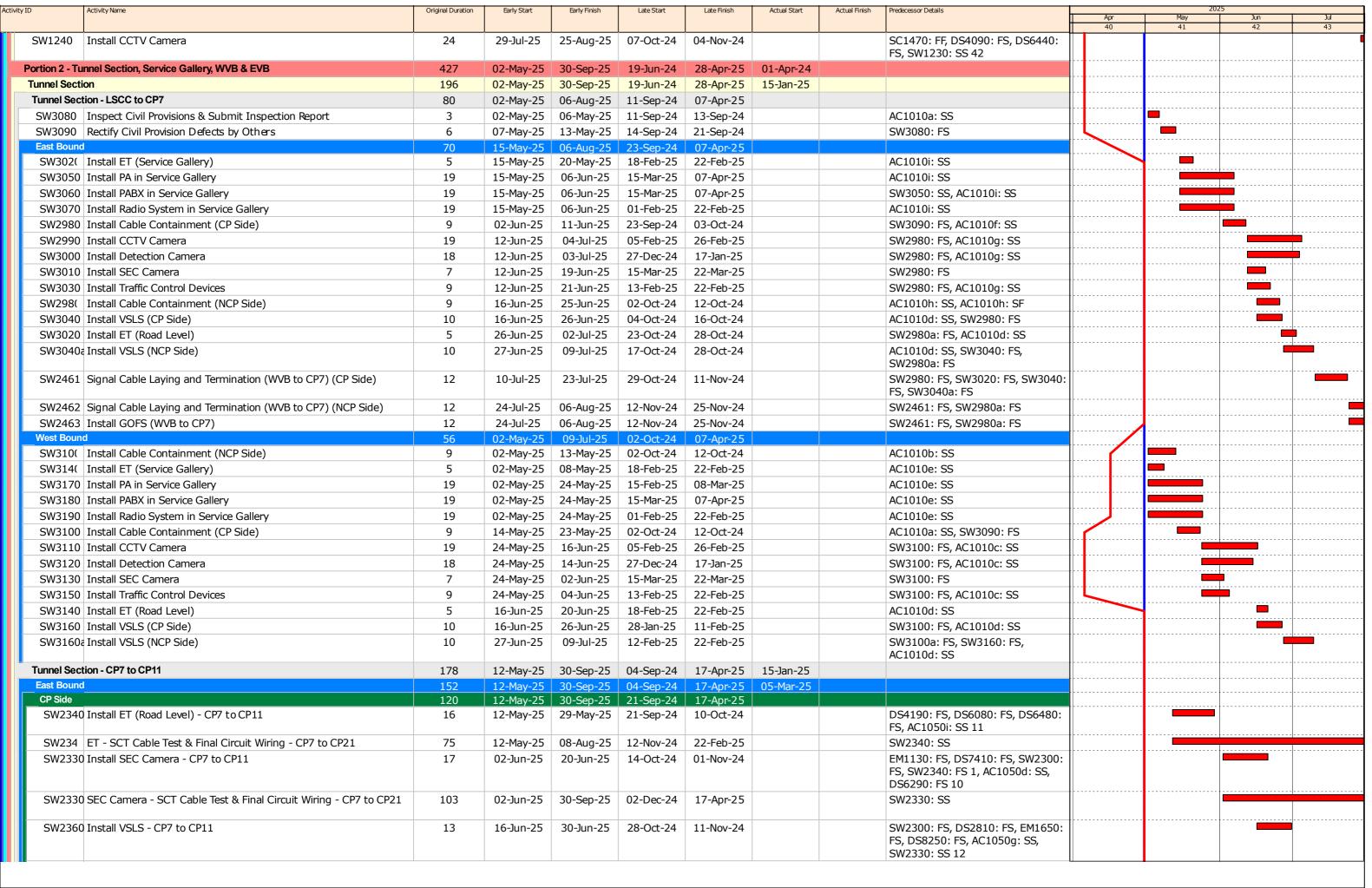


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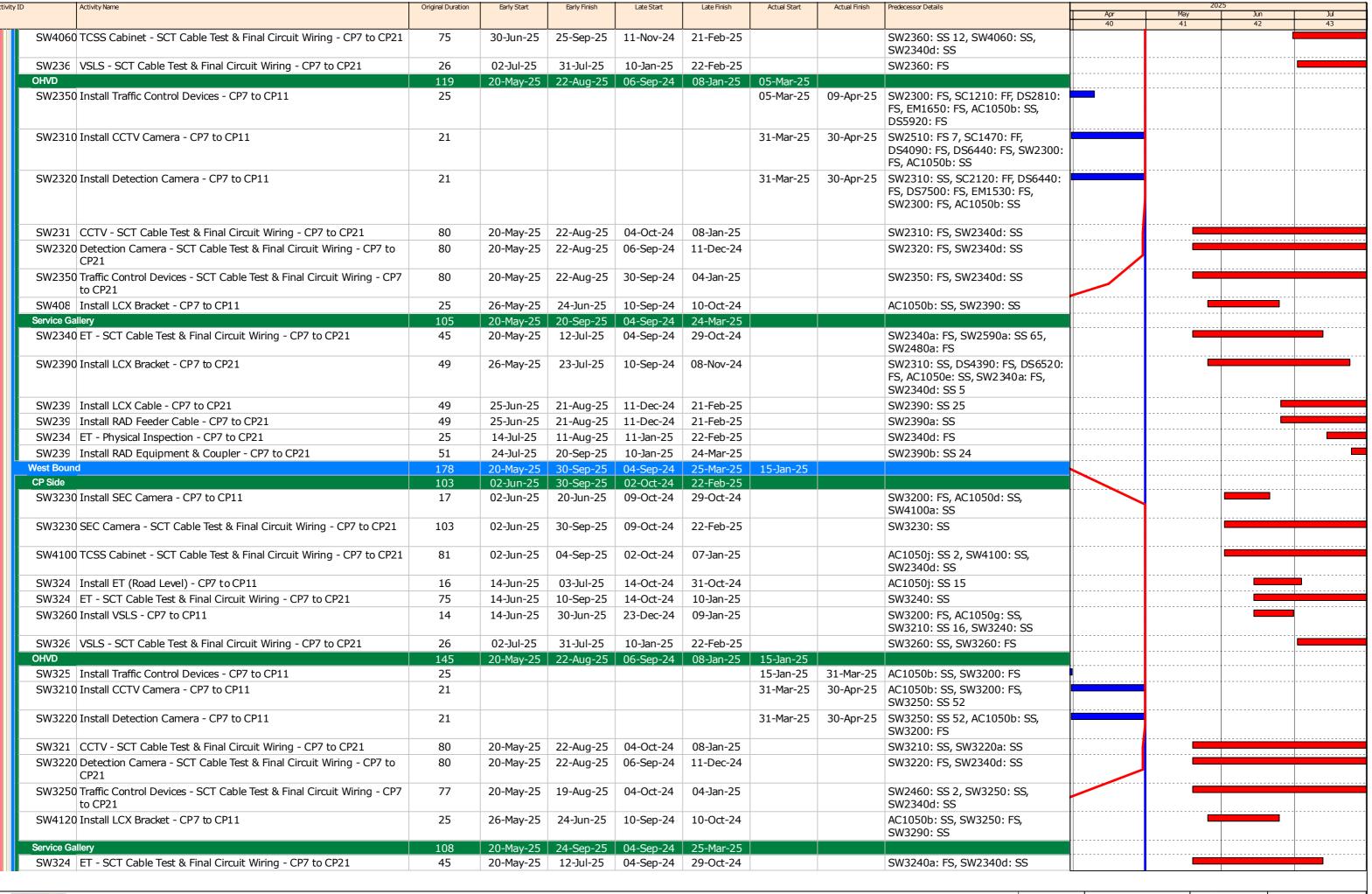


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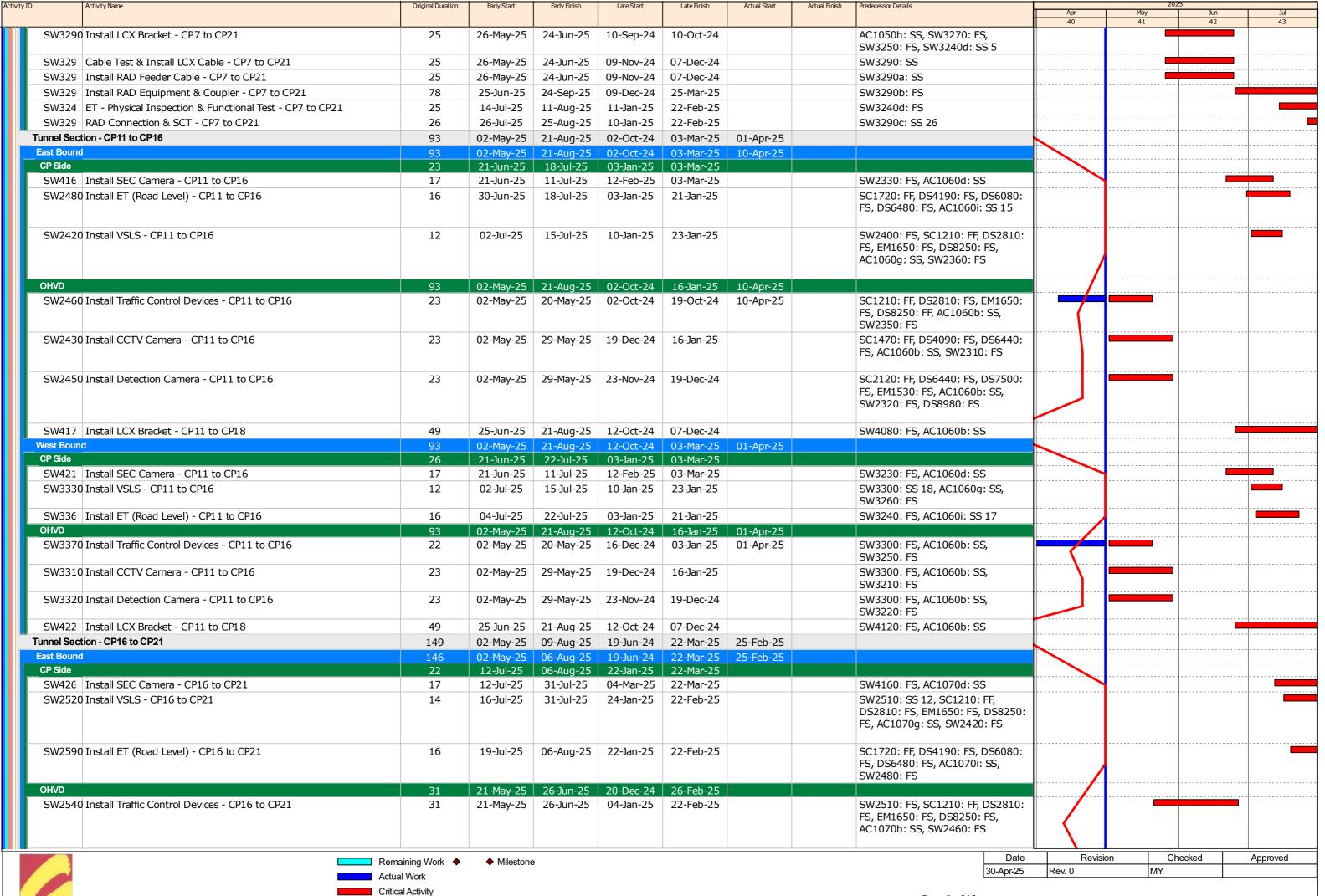


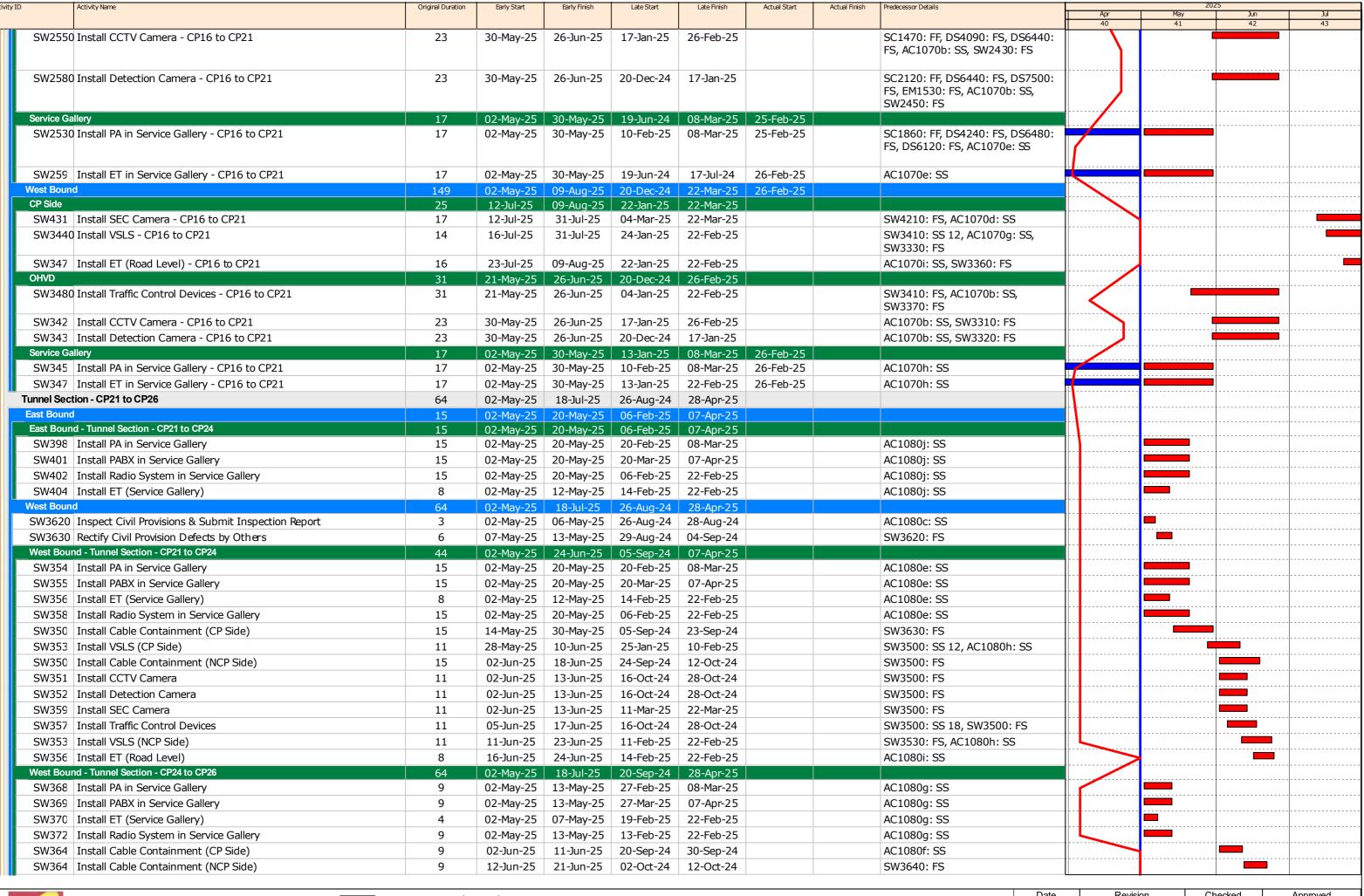
Date	Revision	Checked	Approved
30-Apr-25	Rev. 0	MY	



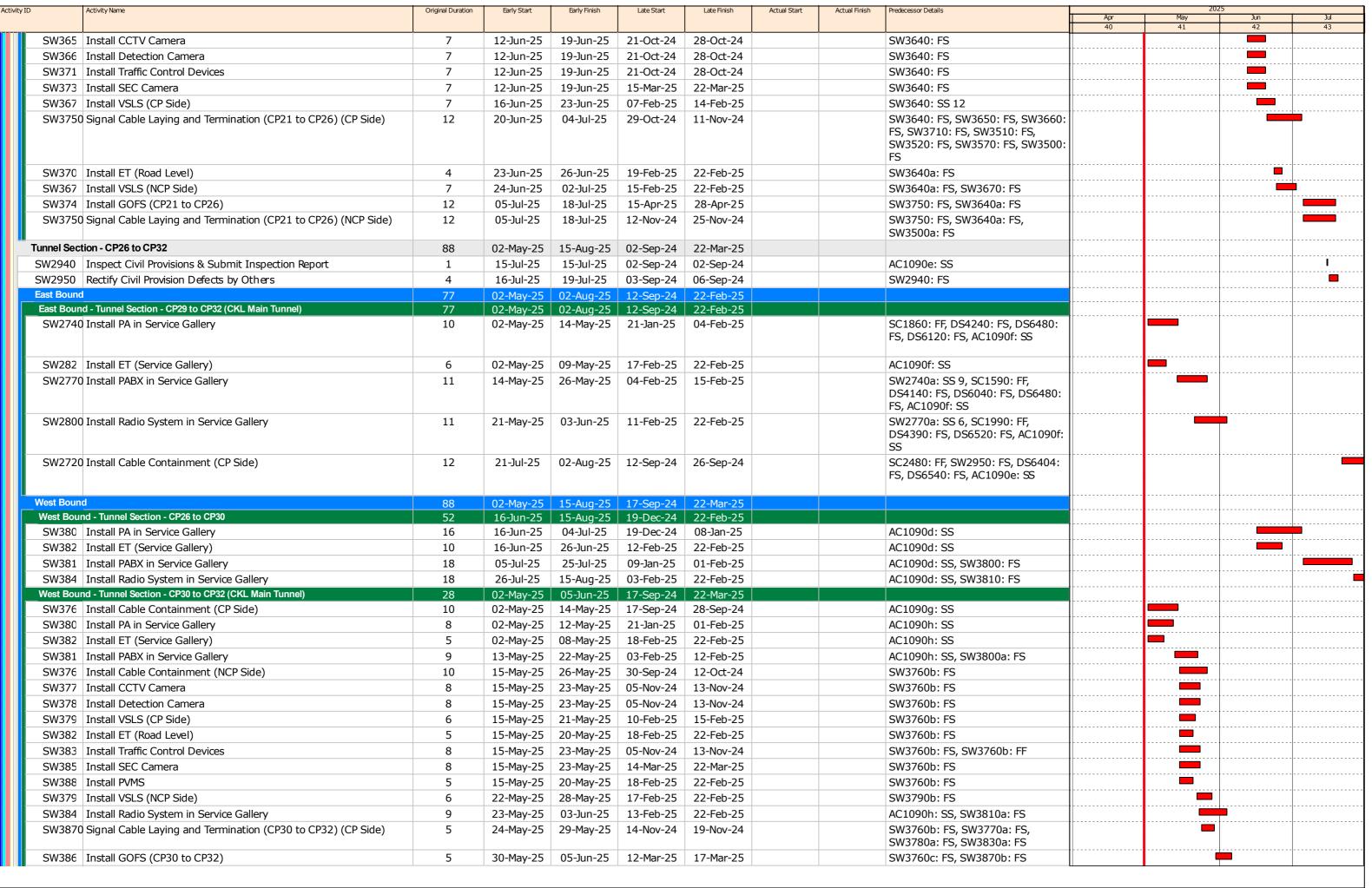


Date	Revision	Checked	Approved
80-Apr-25	Rev. 0	MY	



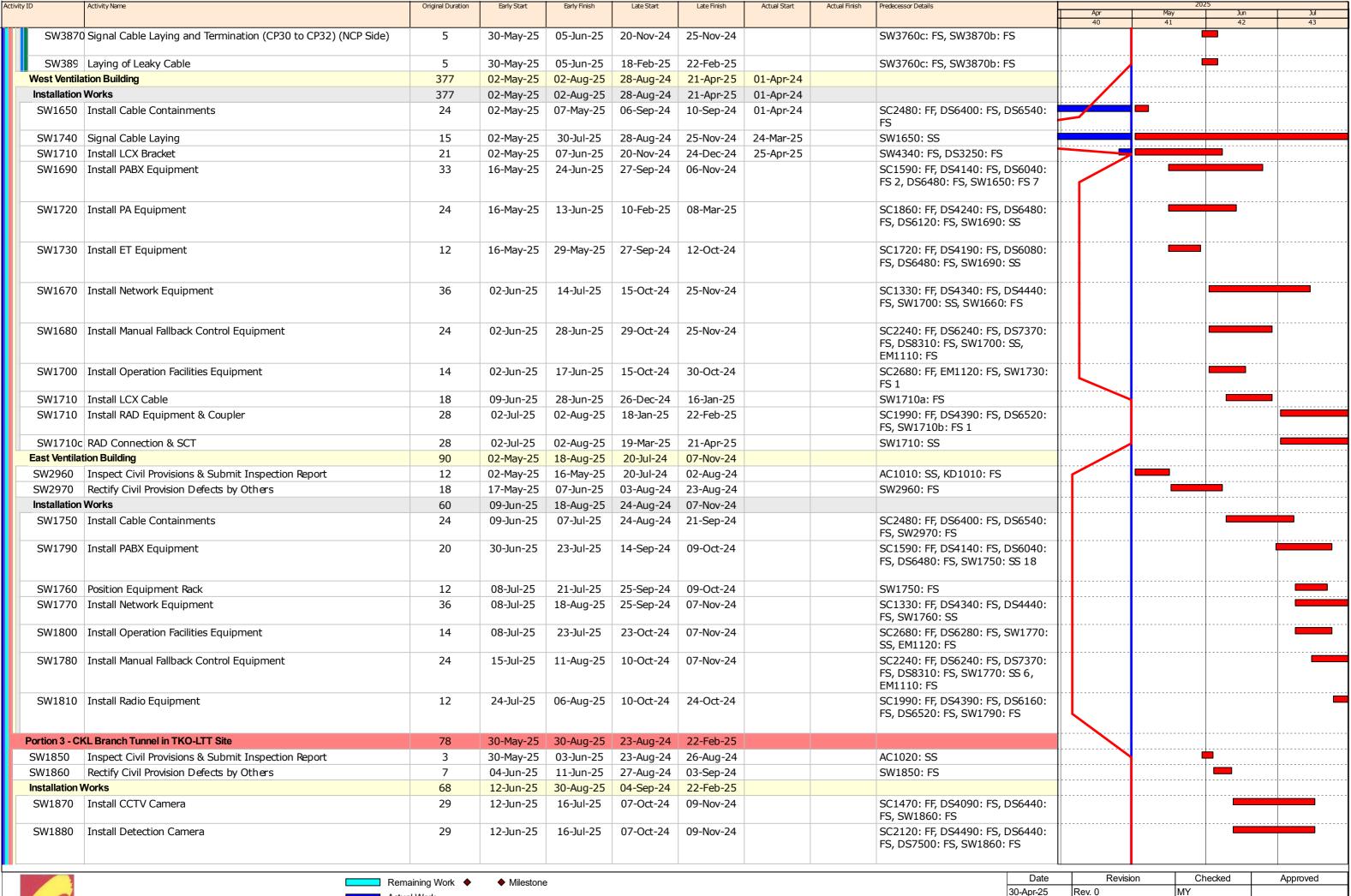


Date	Revision	Checked	Approved
30-Apr-25	Rev. 0	MY	





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30-Apr-25	Rev. 0	MY	



GTECH Services (Hong Kong) Limited

Actual Work Critical Activity Rev. 0

Activity ID	Activity Name	Original Duration	Early Start	Early Finish	Late Start	Late Finish	Actual Start	Actual Finish	Predecessor Details	2025					
	/									Apr	May	Jun	Jul		
										40	41	42	43		
SW1890	Install Cable Containments	36	12-Jun-25	24-Jul-25	04-Sep-24	18-Oct-24			SC2480: FF, DS6404: FS, DS6540: FS, SW1860: FS						
SW1900	Install Traffic Control Devices	24	28-Jun-25	26-Jul-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	09-Jul-25	19-Aug-25	09-Jan-25	22-Feb-25			SW1890: SS 6, SW1870: SS 22, SW1880: SS, SW1900: FF 6						
SW1920	Signal Cable Laying	36	21-Jul-25	30-Aug-25	15-Oct-24	25-Nov-24			SW1890: SS 32, SW1900: FF, SW1870: SS 6, SW1880: SS 6						

Milestone

Date	Revision	Checked	Approved
30-Apr-25	Rev. 0	MY	

APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2025 (KT)

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

	Ac	tual Quantiti	es of Inert Ca	&D Materials Gen	Actual Quantities of C&D Wastes Generated Monthly							
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging		j. Chemical Waste	k. Others, e.g. general refuse	
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m³)	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
January	0.007	0.000	0.007	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.061	
February	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	
March	1.653	0.000	0.000	1.653	0.000	0.000	0.000	0.000	0.000	0.000	0.060	
April	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.041	
May												
June												
Sub-total	1.660	0.000	0.007	1.653	0.000	0.000	0.000	0.000	0.000	0.000	0.204	
July												
August												
September												
October												
November												
December												
Total	1.660	0.000	0.007	1.653	0.000	0.000	0.000	0.000	0.000	0.000	0.204	

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).

Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Contract No. ED/2020/03

## **Monthly Summary Waste Flow Table For 2025**

				1.20.		TITLE J VV		200020 2	<u> </u>						
	Actual Quantities of Inert C&D Materials Generated Monthly							Actual Quantities of C&D Waste Generated Monthly							
Month	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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(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	0.00	
Feb-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	
Mar-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0.84	
Apr-25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
May-25															
Jun-25															
Sub-total	0	0	0	0	0	0	0	0	0	0	0	0	0	0.84	
Jul-25															
Aug-25															
Sep-25															
Oct-25															
Nov-25															
Dec-25															
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0.84	

#### Notes:

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