Civil Engineering and Development Department

Trunk Road T2 Monthly Environmental Monitoring and Audit Report (under EP-458/2013/C)

February 2023 (Version 1.0)

Approved By

(Environmental Team Leader:
Mr. KS Lee)

REMARKS:

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

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

CINOTECH CONSULTANTS LTD

Room 1710, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong Tel: (852) 2151 2083 Fax: (852) 3107 1388 Email: info@cinotech.com.hk



Ref.: CEDKTDT2EM00 0 0440L.23

14 March 2023

Hyder-Meinhardt Joint Venture 17/F, Two Harbour Square 180 Wai Yip Street, Kwun Tong Kowloon, Hong Kong

By Post and Email

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 (February 2023) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for February 2023 (Version 1.0) certified by the ET Leader and provided to us via email on 14 March 2023. We are pleased to inform you that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 4.4 of EP-458/2013/C.

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

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

Y H Hui Independent Environmental Checker

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 34th Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for Contract No. ED/2018/04 "Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-458/2013/C and in accordance with the EM&A Manual (AEIAR-173/2013) during the reporting month of February 2023.

Summary of Main Works Undertaken and Key Measures Implemented

- 2. The main works undertaken during the reporting period are as follows:
 - East Bound RC Structure Construction, Service Gallery Drill & Blast, Pre-tunnel.
 - East Ventilation Building WB Blinding & Waterproofing.
 - West Bound Extension & Blast Tunnel, RC Structure Construction.
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Construction Noise

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

Air Quality

• Regularly watering on site to avoid dust generation.

Landscape and Visual

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

Environmental Monitoring Works

- 4. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 5. Summary of the non-compliance (exceedance) in the reporting month for the Project is tabulated in **Table I**.

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

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

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

Air Quality Monitoring

- 6. No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded.
- 7. One (1) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and no Limit Level exceedance was recorded in the reporting month.

Construction Noise Monitoring

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

Water Quality Monitoring

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

Waste Management

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

Ecological Monitoring

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

Fisheries Impact Monitoring

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

Monitoring on Cultural Heritage

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

Landscape and Visual Monitoring and Audit

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

Landfill Gas Monitoring

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

Hazard to Life Monitoring

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

Environmental Site Inspection

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

Key Information in the Reporting Month

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

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

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

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

Table III Summary of Complaints Details in Reporting Month

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

Reporting Changes

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

Future Key Issues

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

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

Site Activities (March 2023)	Key Environmental Issues
1. East Bound – RC Structure Construction, Service	
Gallery Drill & Blast, Pre-tunnel, Civil work	
preparation for TBM pilot.	
2. East Ventilation Building – WB Blinding &	(A) / (B) / (C) / (D)
Waterproofing, RC Structure	
3. West Bound – Extension & Blast Tunnel, RC	
Structure Construction, Pre-tunnel	

Note:

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

1. INTRODUCTION

Background

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

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

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

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

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

Purpose of the Report

This is the 34th Monthly EM&A Report which summarises the impact monitoring results and 1.6 audit findings for the EM&A programme during the reporting period in February 2023.

Project Organizations

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

Table 1.1 **Key Project Contacts**

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. Wong Chi Wai, Tommy	3842 7111
HMJV	Supervisor Representative	Ms. Hazel Tang	2149 8524
Cinotech		Mr. KS Lee (ETL)	2151 2091
Cinotecn	Environmental Team	Ms. Karina Chan	2157 3880
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Mr. Marcus Cheung	6628 2685

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

Construction Activities undertaken during the Reporting Month

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

Summary of EM&A Requirements

- 1.11 The EM&A programme requires construction noise, air quality monitoring and environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA Report.
- 1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 12** of this report.
- 1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the monitoring parameters of the required environmental monitoring works and audit works for the Project in January 2023.

Status of Environmental Licensing and Permitting

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

Table 1.2 Summary of Environmental License and Permit

D	Valid Period		G4 4	
Permit / License No.	From	To	Status	
Environmental Permit (EP)				
EP-451/2013	19 Sep 2013	N/A	Valid	
EP-458/2013/C	20 Jan 2017	N/A	Valid	
Notification pursuant to Air Pollution (Cons	truction Dust) R	Regulation		
Ref. No.: 451120	20 Nov 2019	N/A	Valid	
Billing Account for Construction Waste Disp	osal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid	
Construction Noise Permit				
CNP No. (For Portion Q): GW-RE0919-22	23 Sep 2022	23 Mar 2023	Valid	
CNP No. (For Portion T1): GW-RE1388-22	24 Dec 2022	23 Feb 2023	Expired on 23 Feb 2023	
CNP No. (For Portion T1): GW-RE0187-23	24 Feb 2023	23 Apr 2023	Valid	
Wastewater Discharge License				
WT00036699-2020	14 Jan 2021	31 Jan 2026	Valid	
Chemical Waste Producer License				
WPN: 5213-286-B2557-03	09 Mar 2020	N/A	Valid	

2. AIR QUALITY

Monitoring Requirement

2.1 According to Section 2.2.4 of the EM&A Manual (AEIAR-173/2013), 1-hour and 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 1-hour and 24-hour TSP monitoring. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

2.2 Five designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

Table 2.1 Air Quality Monitoring Locations

Monitoring Stations	Location	Location of Measurement
AM1	Tin Hau Temple	Ground Level
AM2	Sai Tso Wan Recreation Ground	Ground Level
AM3	Yau Lai Estate Bik Lai House	Rooftop (41/F)
$AM4^{(1)}$	Sitting-out Area at Cha Kwo Ling Village	Ground Level
AM4(B) ^{(2) (*)(**)}	Flat 103 Cha Kwo Ling Village	Ground Level

Remarks:

- (1) For 1-hour TSP monitoring;
- (2) For 24-hour TSP monitoring

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

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

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

Monitoring Equipment

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

Table 2.3 Air Quality Monitoring Equipment

tole 2.5 An Quanty Womtoring Equipment				
Equipment	Model	Quantity		
1-hour TSP Dust Meter	Sibata Model No. LD-5R (Serial No.: 972781, 972777, 972778, 972779, 972780, 8Y2373, 8Y2374) Sibata Model No. LD-3B	8		
	(Serial No.2Y6194)			
HVS Sampler	GMW model: GS2310 (Serial No.: 1287, 10379, 10599)	3		
	TE 5170 (Serial No.: 1956)	1		
Calibrator	TISCH Model: TE-5025A (Serial No.: 3864)	1		
Wind Anemometer	Davis Weather Monitor II, Model no. 7440 (Serial No.: MC01010A44)	1		

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

(Sibata Model No.: LD-5R)

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

- Monthly EM&A Report February 2023
- Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
- Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display. Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

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

Operating/analytical procedures for the operation of HVS

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

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- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-173/2013). The flow rate shall be indicated on the flow rate chart.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (ALS Technichem (HK) Pty Ltd.) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than $\pm 3^{\circ}$ C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

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

Results and Observations

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

The monitoring schedule is shown in **Appendix D**.

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

Table 2.4 Major Dust Source during Air Quality Monitoring

Monitoring Stations	Major Dust Source	
	Road Traffic at Cha Kwo Ling Road, non-project	
AM1 – Tin Hau Temple	related influence and the construction activity from	
Aivii – Tiii Ilau Temple	other construction site (i.e underground utility work in	
	TKOLTT project)	
AM2 – Sai Tso Wan Recreation Ground	Road Traffic along Sin Fat Road	
	Road Traffic near Eastern Cross Harbour Tunnel Toll	
AM2 V I -: E-4-4- D:I- I -: II	Plaza, non-project related influence and the	
AM3 – Yau Lai Estate Bik Lai House	construction activity from other construction site (i.e	
	road paving work in TKOLTT project)	
AM4 - Sitting-out Area at Cha Kwo	Pood Troffic at Cha Kwa Ling Pood	
Ling Village	Road Traffic at Cha Kwo Ling Road	
AM4(B) (**) - Flat 103 Cha Kwo Ling	Road Traffic at Cha Kwo Ling Road ^(*)	
Village	Road Traffic at Cha Rwo Ling Road	

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

Comparison of EM&A Result with EIA Prediction

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

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

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

Monitoring Stations	ASR ID	Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 1-hr TSP Concentration in the Reporting Month (February 2023), μg/m ³
AM1 – Tin Hau Temple	CL1	707	100.7
AM2 – Sai Tso Wan Recreation Ground	CL6	266	96.9
AM3 – Yau Lai Estate Bik Lai House	CL9	507	114.0
AM4 - Sitting-out Area at Cha Kwo Ling Village	CL16	430	115.2

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (February 2023), μg/m³
AM1 – Tin Hau Temple	CL1	199	114.4
AM2 – Sai Tso Wan Recreation Ground	CL6	109	135.2
AM3 – Yau Lai Estate Bik Lai House	CL9	123	22.5
AM4(B) – Flat 103 Cha Kwo Ling Village (*)	N/A ⁽¹⁾	N/A ⁽¹⁾	253.3(**)

Remarks:

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

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

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

- 2.20 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.
- 2.21 In the reporting month, the 24-hour TSP concentrations at AM1 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). However, AM2 was higher than the prediction in the EIA Report, the possible reason may due to the traffic flow along the Sin Fat Road and the Kwun Tong Bypass (Toll Road). One (1) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and no Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

3. NOISE

Monitoring Requirements

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

Monitoring Locations

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

Table 3.1 Noise Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Stations	Time Period	Duration	Frequency	Parameter	Measurement
CM1				1 (20 :)	Façade Measurement
CM2	0500 1000 1			L ₁₀ (30 min.) dB(A)	Façade Measurement
CM3	0700-1900 hrs on normal weekdays	30 minutes	Once per week	L ₉₀ (30 min.) dB(A)	Façade Measurement
CM4	weekdays			L _{eq} (30 min.)	Façade Measurement
CM5				dB(A)	Façade Measurement

Monitoring Equipment

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

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308 (Serial No.: 580287,580156)	2
Calibrator	ST-120 (Serial No.: 181001637)	1

Monitoring Methodology and QA/QC Procedure

- 3.5 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - The wind speed was frequently checked with the portable wind meter.
 - At the end of the monitoring period, the L_{eq}, L₉₀ and L₁₀ were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

Maintenance and Calibration

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

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

Results and Observations

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

Table 3.4 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CM1	related construction activities (i.e road paving work in TKOLTT
	project)
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, non-project
CM2	related construction activities (i.e road paving work in TKOLTT
	project)
	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza non-project
CM3	related construction activities (i.e road paving work in TKOLTT
	project)
CM4	Road Traffic at Cha Kwo Ling Road, non-project related construction
CW14	activities (i.e underground utility work in TKOLTT project)
CM5	Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza,
CMS	Road Traffic at Yau Tong Road

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

Monitoring Stations	Baseline Noise Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)	Noise Limit Level, dB (A) (at 0700 – 1900 hrs on normal weekdays)
CM1	65.5	
CM2	63.6	75
CM3	65.6	13
CM4	62.0	
CM5	68.2	70*

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

Comparison of EM&A Result with EIA Prediction

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

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 173/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (February 2023), Leq (30min) dB(A)
CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong	N1102	73	72.7
CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong	N1204	75	70.6
CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong	N2105	75	69.0
CM4 – Tin Hau Temple, Cha Kwo Ling	N3101a	73	61.6
CM5 – CCC Kei Faat Primary School, Yau Tong	N4101	71	69.2

3.15 The results at CM1, CM2, CM3, CM4 and CM5 were lower than the maximum predicted mitigated construction noise level in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Limit level exceedance was recorded in the reporting period.

4. WATER QUALITY

Monitoring Requirement

Groundwater Quality

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

Marine Water Quality

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

Groundwater Level Monitoring (Piezometer Monitoring)

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

5. WASTE MANAGEMENT

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

6. ECOLOGY

Post-Translocation Coral Monitoring

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

7. FISHERIES

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

8. CULTURAL HERITAGE

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

Mitigation Measures for Cultural Heritage

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

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

9. LANDSCAPE AND VISUAL IMPACT

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

10. LANDFILL GAS MONITORING

Monitoring Requirement

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

11. HAZARD TO LIFE

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

12. ENVIRONMENTAL AUDIT

Site Audits

- 12.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in Appendix I.
- 12.2 Site audits were conducted on 02, 09, 16 and 23 February 2023 in the reporting month. Site inspection of the IEC was conducted on 16 February 2023. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

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

Table 12.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Air Quality	9 Feb 2023	Stockpile of dusty material were observed inside the tunnel, they should be removed when not in used.	The contractor has removed the stockpile of dusty materials.
	23 Feb 2023	The NRMM label display on the machinery is unclear, the contractor should replace with the new one.	To be reported in the next reporting month.
Noise	N/A	There was no observation in the reporting period.	N/A
Water Quality	16 Feb 2023	The contractor should install the water pump to remove the water ponding in the west ventilation building.	The contractor has installed the water pump to remove the stagnant water.
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	26 Jan 2023	Drip tray should be provided for the chemical / oil container to prevent leakage.	The contractor has removed the chemical container.
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

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

13. ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

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

14. FUTURE KEY ISSUES

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

midilitoring Schedule	Mo	onito	ring	Sch	edule
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14.4 The tentative environmental monitoring schedule for the next month is shown in **Appendix D**.

15. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

15.1 This is the 34th Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-173/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

- 15.4 No Action Level exceedance was recorded due to documented complaint in the reporting month.
- 15.5 No Limit Level exceedance for construction noise monitoring was recorded in the reporting month.

Site Audit

15.6 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

Recommendations

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

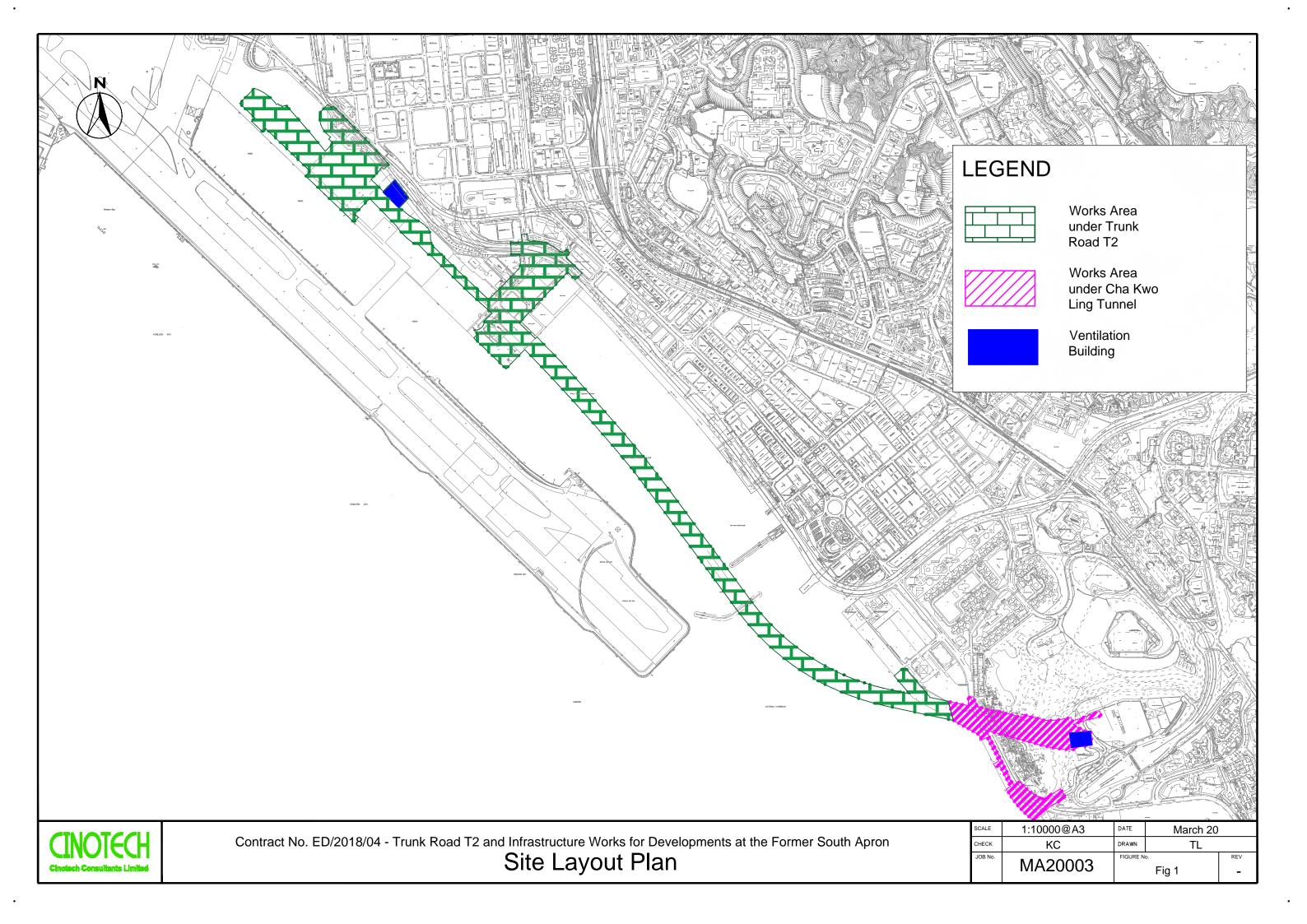
Air quality:

- The stockpile of dusty material should be removed or covered when not in used.
- The valid NRMM labels should be displayed at a conspicuous position on the PME.

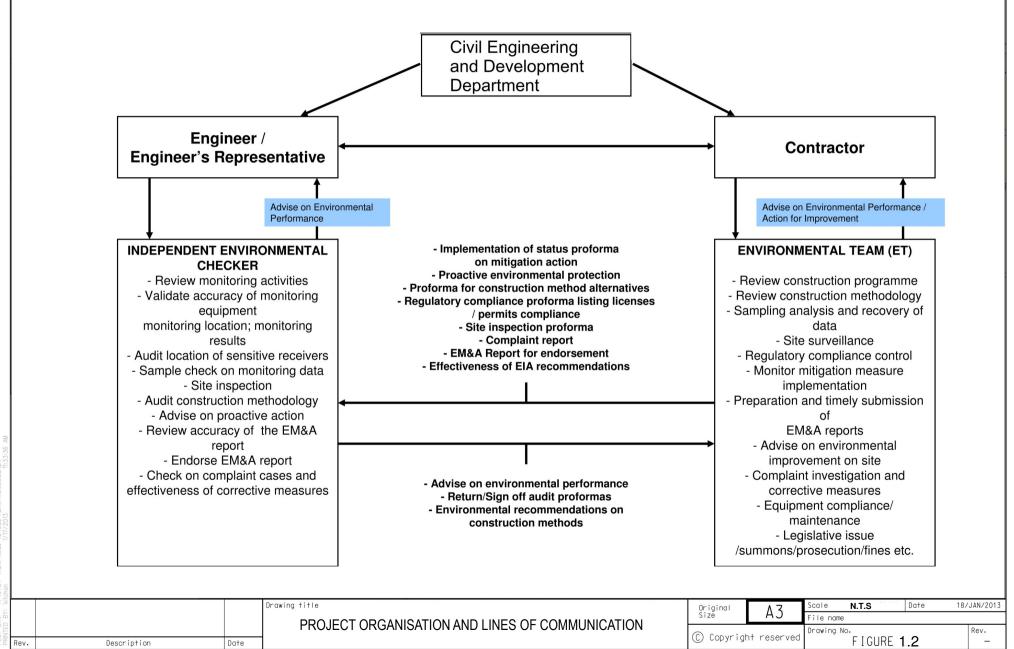
Water quality:

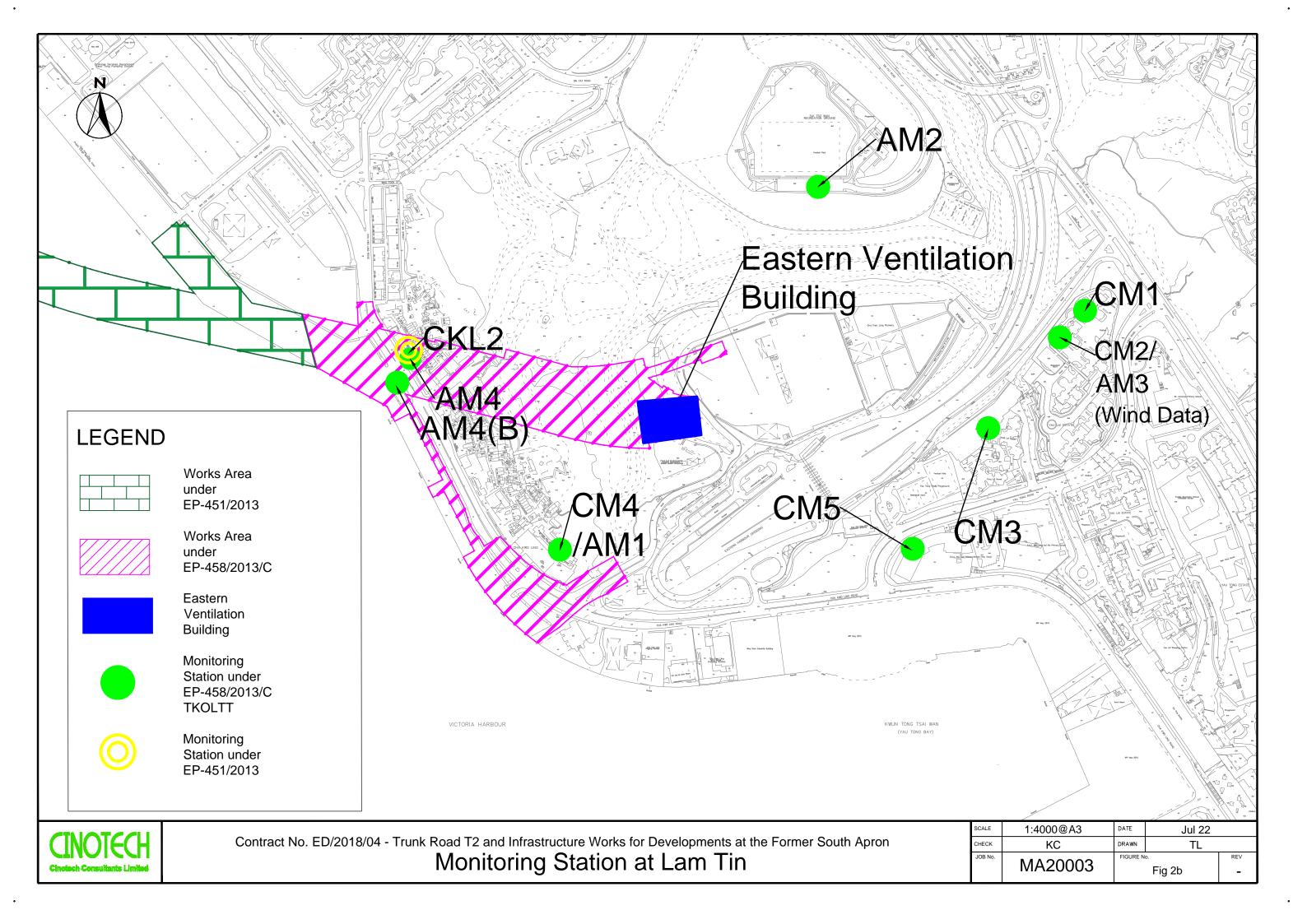
• The drainage system should be well maintenance and avoid water ponding.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

Monitoring Stations	Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1	Tin Hau Temple	275	
AM2	Sai Tso Wan Recreation Ground	273	500
AM3	Yau Lai Estate Bik Lai House	271	500
AM4	Sitting-out Area at Cha Kwo Ling Village	278	

24-hr TSP

Monitoring Stations	Location	Action Level, μg/m ³	Limit Level, μg/m³
AM1	Tin Hau Temple	173	
AM2	Sai Tso Wan Recreation Ground	192	
AM3	Yau Lai Estate Bik Lai House	167	260
AM4(B)	Flat 103 Cha Kwo Ling Village	210	

Noise

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

Landfill Gas Monitoring

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

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0039

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Dec-22 o.: A-01-05		Next Due Date:		Feb-23	Operator:	SK
Equipment No.:			Model No.:	GS	52310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re, Ta (K)	292.6	Pressure, Pa			761.7	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial		3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			G 19 41 65	EGD G			
			Calibration of Trice	SP Sampler		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in.	[ΔW x (Pa/76	50) x (298/Ta)] ^{1/2} -axis
1	13.2		3.67	62.39	9.9		3.18
2	10.4		3.26	55.43	7.3	2	2.73
3	7.6		2.79	47.44	5.4	Ź	2.35
4	5.6		2.39	40.78	3.4		1.86
5	3.3		1.84	31.40	1.9		1.39
By Linear Regr Slope, mw = Correlation of *If Correlation C	0.0578 coefficient* =	0	.9983 calibrate.		-0.442	1	
E 4l TCD E:	-1.1 C-1:1	C 4-1 O-44	Set Point Ca	llculation			
From the TSP Fi							
From the Regress	sion Equation, th	ne "Y" value acc	ording to				
		mw x Q	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	$[98/Ta]^{1/2}$		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	4.09		
Remarks:							
Conducted by:	Wong Sł	ning Kwai	Signature:	K	<u></u>	Date:	10-Dec-22
Checked by:	Henry	Leung	Signature:	\-lem	J Xon	Date:	10-Dec-22

5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0039

Project No.	AM2 - Sai Tso	Wan Recreation	Ground			_	
Date:	9-D	ec-22	Next Due Date:	9-I	9-Feb-23		SK
Equipment No.:	A-(01-08	Model No.:	GS	S2310	Serial No.	1287
·						_	
	Ī		Ambient C	Condition			
Temperatur	re, Ta (K)	292.6	Pressure, Pa	(mmHg)		761.7	
		0					
Serial	No	3864	fice Transfer Sta	0.05922	Intercept	t ha	-0.02420
Last Calibra	*	31-Jan-22	Slope, mc		$c = [\Delta H \times (Pa/760)]$		
Next Calibra		31-Jan-23			$(Pa/760) \times (298/7)$		
Next Callula	ation Date.	31-3411-23		Qstu ([ΔΠ A	(1 a/ 700) X (250/	1 a) j - b c j / h	TC .
		•	Calibration of	TSP Sampler			
Calil4		Or	fice			HVS	
Calibration Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y-axis
1	13.4		3.70	62.86	9.5		3.11
2	10.7		3.30	56.21	7.0		2.67
3	7.9		2.84	48.36	5.4		2.35
4	5.5		2.37	40.42	3.7		1.94
5	3.3		1.84	31.40	2.1		1.46
By Linear Regr Slope, mw = Correlation	0.0511	X 0		Intercept, bw	-0.137	77	
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acc	ording to				
		mw x C	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	x (Pa/760) x (29	$98/Ta) ^{1/2}$		
					7.		
Therefore, Se	et Point; $W = (n + 1)$	nw x Qstd + bw)	2 x (760 / Pa) x (Ta / 298) =	4.16		
Remarks:							
				مآ			
Conducted by:	Wong S	ning Kwai	Signature:		<u> </u>	Date:	10-Dec-22
						_	
Checked by:	Henry	Leung	Signature:	-lem	y day	Date:	10-Dec-22

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0039

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	9-De	ec-22	Next Due Date:	8-Feb-23		Operator:	SK
Equipment No.:	A-0	1-03	Model No.:	GS	\$2310	Serial No.	10379
			Ambient C	ondition			
Temperatu	re, Ta (K)	292.6	Pressure, Pa			761.7	
			ifice Transfer Star				
Serial		3864	Slope, mc	0.05922	Intercept		-0.02420
Last Calibra		31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$Qsta = \{ \Delta H X \}$	(Pa/760) x (298/7	la)j -bc}/m	
		•	Calibration of	TSP Sampler			
G 1" :		Or	fice	151 Samplet		HVS	
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/76	(0) x (298/Ta)] ^{1/2} -axis
1	13.0		3.64	61.92	9.0	3	3.03
2	10.3		3.24	55.16	6.8		2.63
3	8.2		2.89	49.26	5.2	2	2.30
4	5.2		2.30		3.2]	1.81
5	2.8		1.69	28.96	2.0		1.43
By Linear Regr Slope , mw =		K	1	Intercept, bw =	-0.048	4	
Correlation	coefficient* =	0	.9957	-			
*If Correlation C	Coefficient < 0.9	90, check and red	calibrate.				
			G + P · + G				
From the TSP Fi	ield Calibration (Curve take Ostd	Set Point Ca	alculation			
From the Regres							
From the Regres	sion Equation, u	ie i vaiue acc	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore Sc	at Doint: W = (m	ov v Octd + bw)	² x (760 / Pa) x (⁷	To / 208) —	4.12		
Therefore, Se	et i omit, w – (m	iw x Qsiu + 0w)	x (/00 / 1 a) x (1a / 296 j –	4.12		
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:	K	<u></u>	Date:	10-Dec-22

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0040

Project No.	AM1 - Tin Hau	Temple					
Date:	9-Fe	eb-23	Next Due Date:	12	Apr-23	Operator:	SK
Equipment No.:	A-01-05		Model No.:	GS	\$2310	Serial No.	10599
			Ambient C	ondition			
Temperatur	re. Ta (K)	292.5	Pressure, Pa			762.3	
	, ()			(8)			
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05928	Intercept		-0.03491
Last Calibra	ntion Date:	16-Jan-23			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	16-Jan-24		$Qstd = \{ [\Delta H \ x] $	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			Calibration of	TSP Sampler			
Calibration	ATT (= c'C' = c)		fice	O +1 (CF) ()	ANT (TIME) :	HVS	(200 FF) 1 ^{1/2}
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	Δ W (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	13.3		3.69	62.78	10.1		3.21
2	10.5		3.28	55.85	7.4	2.75	
3	7.7		2.81	47.91	5.5	,	2.37
4	5.7		2.41	41.30	3.5	1.89	
5	3.4		1.86	32.03	2.0	1.43	
By Linear Regr Slope , mw =	ession of Y on 2	X	,	Intercent, bw :	-0.453	5	
= '	coefficient* =		.9982				
*If Correlation C				-			
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acc	ording to				
		mw v C	$\mathbf{pstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Do/760) v (20	09/Ta)1 ^{1/2}		
		IIIW X Q	įstu + DW – įΔW A	(1 a/700) X (2)	90/1 <i>a)</i>]		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (′	$\Gamma a / 298) =$	4.08	_	
D 1							
Remarks:							
				χr	<u> </u>		
Conducted by:	Wong Sl	ning Kwai	Signature:		, •	Date:	9-Feb-23
Checked by:	Henry	Leung	Signature:	\-lem	y don	Date:	9-Feb-23

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA16034/08/0040

Project No.	AM2 - Sai Tso	Wan Recreation	Ground				
Date:	9-Feb-23		Next Due Date:	12-	12-Apr-23		SK
Equipment No.:	A-0	-01-08 Model		:GS2310		Serial No.	1287
			Ambient C	ondition			
Temperatui	re. Ta (K)	292.5	Pressure, Pa			762.3	
Tomporatu	(12)		11055010,14	(702.0	
		Ori	fice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05928	Intercept		-0.03491
Last Calibra	tion Date:	16-Jan-23			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	16-Jan-24	($Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / n	nc
		•					
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(60) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y -axis
1	13.6		3.73	63.48	9.7		3.15
2	10.8		3.32	56.63	7.2	2.71	
3	8.0		2.86	48.82	5.5	2.37	
4	5.6		2.39	40.94	3.8	1.97	
5	3.4		1.86	32.03	2.3		1.53
Correlation of	0.0505 coefficient* =		.9986	Intercept, bw	-0.094	9	
*If Correlation C	Coefficient < 0.9	90, check and rec	alibrate.				
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, t	he "Y" value acco	ording to				
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (r	nw x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	4.22		
Remarks:							
				87	λ		
Conducted by:	Wong S	hing Kwai	Signature:		<i>7</i> ~	Date:	9-Feb-23
Checked by:	Henry	/ Leung	Signature:	- lem	y day	Date:	9-Feb-23

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0040

Project No.	AM3 - Yau Lai	Estate, Bik Lai I	House				
Date:	9-Fe	eb-23	Next Due Date:	11	Apr-23	Operator:	SK
Equipment No.:	A-01-03		Model No.:	GS	S2310	Serial No.	10379
			Ambient C	ondition			
Temperatur	re. Ta (K)	292.5	Pressure, Pa			762.3	
Temperatu	10, 14 (11)	2,2.3	riessure, ru	(IIIIII 1g)		702.5	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05928	Intercept		-0.03491
Last Calibra	ation Date:	16-Jan-23			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	16-Jan-24		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/	Γa)] ^{1/2} -bc} / m	c
			Calibration of	TSP Sampler	T		
Calibration		Oı	fice	T		HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	13.2		3.67	62.54	9.2		3.07
2	10.4		3.26	55.58	6.9	2.66	
3	8.3		2.91	49.72	5.3		2.33
4	5.3		2.33	39.85	3.3	1.84	
5	3.0		1.75	30.13	2.2		1.50
By Linear Regr		X				_	
Slope, mw =	0.0486	_		Intercept, bw :	-0.034	3	
	coefficient* =	-	.9949	<u>-</u>			
*If Correlation C	coefficient < 0.9	90, check and red	calibrate.				
			Set Point C	alculation			
From the TSP Fi	eld Calibration	Curve, take Qstd	= 43 CFM				
From the Regres	sion Equation, t	he "Y" value acc	ording to				
			$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	· (Do/740) (20	no //r _a \1 ^{1/2}		
		mw x Q	$\mathbf{y}\mathbf{s}\mathbf{t}\mathbf{d} + \mathbf{D}\mathbf{w} = \mathbf{L}\mathbf{\Delta}\mathbf{w}\mathbf{x}$	(Pa//00) X (2)	96/14)]		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (⁷	Ta / 298) =	4.13		
Remarks:							
Kemarks.							
				X	γ		
Conducted by:	Wong Sl	ning Kwai	Signature:			Date:	9-Feb-23
				_ 0	N. a		
Checked by:	Henry	Leung	Signature:	tem	7 mg/	Date:	9-Feb-23

5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/018

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	5-Jan-23		Next Due Date:	Next Due Date: 7-Mar-23		Operator:	SK
Equipment No.:	: A-01-55		Model No.:	o.: TE 5170		Serial No.	1956
			Ambient C	ondition			
Temperatur	re Ta (K)	291.5	Pressure, Pa			767.6	
Temperatur	ic, 1a (ix)	271.3	r ressure, r a	(IIIIII1g)		707.0	
		Ori	fice Transfer Star	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05922	Intercept	, bc	-0.02420
Last Calibra	ntion Date:	31-Jan-22			$c = [\Delta H \times (Pa/760)]$		
Next Calibra	ation Date:	31-Jan-23		$\mathbf{Qstd} = \{ [\Delta \mathbf{H} \ \mathbf{x}] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / m	c
			Calibration of	TSP Sampler			
Calibration		Or	fice			HVS	1/2
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	$(0) \times (298/\text{Ta})]^{1/2}$	Qstd (CFM) X - axis	Δ W (HVS), in. of water		50) x (298/Ta)] ^{1/2} -axis
1	12.7		3.62	61.56	9.8	,	3.18
2	10.6		3.31		7.5	2.78	
3	8.5		2.96	50.43	5.6		2.40
4	5.2		2.32	39.54	3.1	1.79	
5	2.8		1.70	29.12	1.9		1.40
By Linear Regr Slope, mw = Correlation o	0.0548 coefficient* =	0	.9926	Intercept, bw =	-0.287	1	
			Set Point Ca	alculation			
From the TSP Fi	eld Calibration (Curve, take Ostd					
From the Regres		_					
	1 , .		-		- 10		
		mw x Q	$\mathbf{std} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.15		
Remarks:							
Conducted by:	Wong Sh	ning Kwai	Signature:	X	<u></u>	Date:	5-Jan-23
Checked by:	Henry	Leung	Signature:	\-la-	g Mong	Date:	5-Jan-23

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00171 Issue Date : 01 Apr 2022

Application No. : HP00046

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-12-05

Manufacturer: : BSWA Technology

Other information : N

Model No.	BSWA 308
Serial No.	580287
Microphone No.	570610

Date Received : 25 Mar 2022

Test Period : 30 Mar 2022 to 30 Mar 2022

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00171 Issue Date : 01 Apr 2022

Application No. : HP00046

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. : 00181 Issue Date : 24 May 2022

Application No. : HP00060

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-12-06

Manufacturer: : BSWA Technology

Other information :

Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804

Date Received : 16 May 2022

Test Period : 24 May 2022 to 24 May 2022

Test Requested : Performance checking for Sound Level Meter

Test Method : The Sound Level Calibrator has been calibrated in accordance with the

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00181 Issue Date : 24 May 2022

Application No. : HP00060

Certificate of Calibration

Measuring equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	114.1	+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 -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00288 Issue Date : 10 Nov 2022

Application No. : HP00176

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Sound Level Calibrator.

Equipment No.: : N-13-03

Manufacturer: : SOUNDTEK

Other information : Model No. ST-120

| Serial No. | 181001637

Date Received : 10 Nov 2022

Test Period : 10 Nov 2022 to 10 Nov 2022

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. : 00288 | Issue Date : 10 Nov 2022

Application No. : HP00176

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	114.2	+ 0.2	± 0.5

Note

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

- End of report -



Certificate of Calibration

_					
It :	is certified that the iten	n under calibration	i has been calibrated by	v corresponding calib	rated High Volume Sample

Description:	Laser Dust Mo	nitor		Date of	f Calibration	29-Jan-23
Manufacturer:	Sibata Scientif	ic Technology LTD.		Validity of Calibra	tion Record	31-Mar-23
Model No.:	LD-3B					
Serial No.:	2Y6194					
Equipment No.:	SA-01-02		Sensitivity	0.001 mg/m3		
High Volume Sa	ampler No.:	A-01-03	Before Sensi	tivity Adjustment	578	
Tisch Calibratio	on Orifice No.:	3864	After Sensiti	vity Adjustment _	578	
			Calibration of 1 hr T	SP		
Calibration		Laser Dust Moni	tor		HVS	
Point	Total Count	Count / X- a		Mass	concentration (µ Y-axis	ug/m³)
1	4080	70	0.0		135.0	
2	3600	62	2.0		117.0	
3	2880	50	0.0		95.0	
Ave	lage).7		115.7	
By Linear Regi Slope , mw =	ression of Y on		Inte	rcept, bw =	-4.8684	<u>. </u>
Correl	ation coefficien	t* =	0.9984			
Set Correlation : SCF = [K=Hig		pler / Dust Meter, (μ	g/m3)]	1.9		
The Dust Monit (CF) between th	or was compared the Dust Monitor	the instruction manual with a calibrated High and High Volume Samed by HOKLAS laborated by HOKLAS laborate	h Volume Sampler and pler.		I to generate the	Correlation Factor
Calibrated by	:;ical Officer (Wo	ng Shing Kwai)	_	Approved by: _	Project Manager	(Henry Leung)



Certificate of Calibration

Description:	Digital Dust In	ndicator		Date o	f Calibration	29-Jan-23
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	ntion Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	8Y2374					
Equipment No.:	SA-01-04		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	652	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	652	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	Ma	ass Concentration (μg/ι	m3)	Mass	concentration (µ	g/m ³)
1		70.0			Y-axis 131.0	
2		63.0			118.0	
3		52.0			96.0	
Average		61.7			115.0	
Slope, mw =	1.949		IIIIero		-5.2126	
Correlation co	-	0.9998		eept, bw =		
Correlation co	oefficient* =	0.9998 Set	t Correlation F			
Correlation co	centration by F	0.9998 Set High Volume Sampler (t Correlation F		115.0	
Correlation co	centration by E	0.9998 Set	t Correlation F			
Correlation co	centration by Ecentration by E	0.9998 Set High Volume Sampler (t Correlation F		115.0 61.7	
Particaulate Con Particaulate Con Measureing time Set Correlation F	centration by Ecentration	0.9998 Set High Volume Sampler (t Correlation F (µg/m³)		115.0 61.7	
Particaulate Con Particaulate Con Measureing time Set Correlation F SCF = [K=High In-house method The Dust Monito Factor (CF) betw	centration by F centration by E centration by	0.9998 Set High Volume Sampler (Dust Meter (μg/m³)	g/m3)] al: gh Volume Sam me Sampler.	actor 1.9 pler and The result	115.0 61.7 60.0	rate the Correlation



Certificate of Calibration

Description:	Digital Dust I	ndicator		Date of	f Calibration	29-Jan-23
Manufacturer:	Sibata Scienti	fic Technology LTD.	_	Validity of Calibra	tion Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	8Y2373					
Equipment No.:	SA-01-05		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	657	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	657	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	M	ass Concentration (μg/1 X-axis	m3)	Mass	concentration (µ	g/m ³)
1		69.0			Y-axis 131.0	
2		61.0			112.0	
3		50.0			95.0	
Average		60.0			112.7	
By Linear Regr Slope , mw =			Inter	cept, bw =	0.2491	
Slope , mw = Correlation co	1.873	0.9924		cept, bw =	0.2491	
Slope , mw = Correlation co	1.873 pefficient* =	0.9924 Set	t Correlation F			
Slope , mw = Correlation co	1.873 pefficient* = centration by F	Set High Volume Sampler (t Correlation F		112.7	
Slope , mw = Correlation co Particaulate Con Particaulate Con	1.873 pefficient* =	0.9924 Set	t Correlation F			
Slope , mw = Correlation co	1.873 pefficient* = centration by F centration by E c, (min)	Set High Volume Sampler (t Correlation F		112.7 60.0	
Slope , mw = Correlation co Particaulate Con Particaulate Con Measureing time Set Correlation F	1.873 pefficient* =	Set High Volume Sampler (t Correlation F (μg/m³)		112.7 60.0	
Slope , mw = Correlation co Particaulate Con Particaulate Con Measureing time Set Correlation F SCF = [K=Hig] In-house method The Dust Monito Factor (CF) betw	centration by F centration by	Set High Volume Sampler (Oust Meter (µg/m³)	t Correlation F (μg/m³) g/m3) al: gh Volume Samme Sampler.	1.9	112.7 60.0 60.0	rate the Correlation



Certificate of Calibration

Description:	Digital Dust Indicator	Date	of Calibration	29-Jan-23	
Manufacturer:	Sibata Scientific Technology LTD.	Validity of Calibr	ration Record	31-Mar-23	
Model No.:	LD-5R				
Serial No.:	972777				
Equipment No.:	SA-01-06	Sensitivity 0.001 mg/m3	_		
High Volume Sa	ampler No.: A-01-03	Before Sensitivity Adjustment	645		
Tisch Calibratio	on Orifice No.: 3864	After Sensitivity Adjustment	645		
	Ca	alibration of 1 hr TSP			
Calibration	Laser Dust Monito	r	HVS		
Point	Mass Concentration (μg X-axis	/m3) Mas	ss concentration (µ Y-axis	ıg/m³)	
1	67.0		134.0		
2	60.0		116.0		
3	49.0		96.0		
Average	58.7		115.3		
Correlation co		et Correlation Factor			
Particaulate Cor	ncentration by High Volume Sampler	_	115.3		
	ncentration by Dust Meter (µg/m³)	(19.11)	58.7		
Measureing time			60.0		
Set Correlation	Factor, SCF	·			
SCF = [K=Hig	th Volume Sampler / Dust Meter, (µ	ug/m3)] 2.0			
The Dust Monit Factor (CF) bety	d in according to the instruction manu or was compared with a calibrated Hi ween the Dust Monitor and High Volu pers are weighted by HOKLAS lab	igh Volume Sampler and The result ume Sampler.	was used to gene	rate the Correlation	
Calibrated by Technic	eal Officer (Wong Shing Kwai)	Approved by: Projec	t Manager (Henry	Leung)	

Digital Dust Indicator



29-Jan-23

Date of Calibration

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	tific Technology LTD.		Validity of Calib	ration Record	31-Mar-23
Model No.:	LD-5R		_			
Serial No.:	972778	-				
		-	Consitivity	0.001 mg/m2		
Equipment No.:			Sensitivity	0.001 mg/m3	- 525 CDM	
High Volume Sa	-	A-01-03		vity Adjustment	735 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	735 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	N.	fass Concentration (μg/	m3)	Mas	ss concentration ($\mu g/m^3$)
		X-axis			Y-axis	
1		64.0			134.0	
2		57.0			116.0	
3		46.0			95.0	
Average		55.7			115.0	
Slope , mw = Correlation co	2.14 pefficient* =	0.9965		ept, bw =	-4.334(
Particaulate Con	centration by	High Volume Sampler		uctor	115.0	
	-	Dust Meter (μg/m ³)	(FB)	55.7		
Measureing time	•	(10)		60.0		
Set Correlation I						
SCF = [K=Higl	h Volume Sar	mpler / Dust Meter, (μ	g/m3)]	2.1		
The Dust Monitor Factor (CF) betw	or was compar yeen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ime Sampler.	•	was used to gene	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	-len	y Leung)

Digital Dust Indicator



29-Jan-23

Date of Calibration

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	tific Technology LTD.		Validity of Calibr	ration Record	31-Mar-23
Model No.:	LD-5R		_			
Serial No.:	972779	<u>-</u>				
Equipment No.:		-	Sensitivity	0.001 mg/m3		
		- A 01 02	•	0.001 mg/m3	744 CDM	
High Volume Sa	-	A-01-03		vity Adjustment	744 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitivi	ty Adjustment	744 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	M	Iass Concentration (μg/	(m3)	Mas	ss concentration (μg/m ³)
		X-axis			Y-axis	
1		68.0			135.0	
3		57.0			116.0	
Average		48.0 57.7			95.0 115.3	
Slope , mw = Correlation co	1.99 pefficient* =	0.9963		eept, bw =	0.5748	
Particaulate Con	centration by	High Volume Sampler		actor	115.3	
		Dust Meter (μg/m ³)	(µg/III)	57.7		
Measureing time	•	(f-8)		60.0		
Set Correlation I						
SCF = [K=Hig	h Volume Sar	mpler / Dust Meter, (μ	g/m3)]	2.0		
The Dust Monitor Factor (CF) betw	or was compar yeen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ime Sampler.	•	was used to gene	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	t Manager (Henr	y Leung)

Digital Dust Indicator



29-Jan-23

Date of Calibration

Certificate of Calibration

Description:

Manufacturer:	Sibata Scient	ific Technology LTD.	_	Validity of Calibr	ration Record	31-Mar-23
Model No.:	LD-5R					
Serial No.:	972780					
Equipment No.:	SA-01-09		Sensitivity	0.001 mg/m3	_	
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	739 CPM	
Tisch Calibration	n Orifice No.:	3864	After Sensitiv	ity Adjustment	739 CPM	
		Ca	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor	•		HVS	
Point	N	fass Concentration (μg/	(m3)	Mas	ss concentration ($\mu g/m^3$)
		X-axis			Y-axis	
1		70.0			136.0	
2		60.0			117.0	
3 Average		51.0 60.3			97.0 116.7	
Slope , mw = Correlation co	2.04 pefficient* =	0.9990		cept, bw =	-7.0055	<u>; </u>
Particaulate Con	centration by	High Volume Sampler			116.7	
Particaulate Con	centration by	Dust Meter (μg/m³)			60.3	
Measureing time	e, (min)				60.0	
Set Correlation I	Factor, SCF					
SCF = [K=Hig	h Volume Sar	mpler / Dust Meter, (μ	g/m3)]	1.9		
The Dust Monitor Factor (CF) betw	or was compar veen the Dust	to the instruction manured with a calibrated Hig Monitor and High Volunted by HOKLAS laborated	gh Volume Sam ıme Sampler.	-	t was used to gen	erate the Correlation
Calibrated by:		ong Shing Kwai)	_	Approved by: Projec	Lemot Manager (Henr	Leung)



Certificate of Calibration

Description:	Digital Dust Indicator			Date of Calibration 29-Jan-23		
Manufacturer:	Sibata Scientific Technology LTD.		Validity of Calibration Record 31-Mar-23		31-Mar-23	
Model No.:	LD-5R					
Serial No.:	972781					
Equipment No.:	SA-01-10		Sensitivity	0.001 mg/m3		
High Volume Sa	mpler No.:	A-01-03	Before Sensiti	vity Adjustment	734 CPM	
Tisch Calibration	orifice No.:	3864	After Sensitivi	ty Adjustment	734 CPM	
		Cal	libration of 1 h	r TSP		
Calibration		Laser Dust Monitor			HVS	
Point	M	ass Concentration (μg/	m3)	Mas	s concentration (µ	ιg/m ³)
		X-axis			Y-axis	
2		70.0 63.0			132.0	
3		51.0			94.0	
Average		61.3		113.3		
Slope , mw = Correlation co	1.965 pefficient* =	0.9928		cept, bw =	-7.1191	
Particoulate Con	centration by I	High Volume Sampler (t Correlation F	actor	113.3	
	-	Oust Meter (µg/m ³)	μg/III)		61.3	
Measureing time	•	(Fg. III)		60.0		
Set Correlation I						
SCF = [K=Hig	h Volume San	npler / Dust Meter, (μ	g/m3)]	1.8		
	· ·	to the instruction manua				
	-	ed with a calibrated Hig Monitor and High Volu		pler and The result	was used to gene	rate the Correlation
` ′		ted by HOKLAS labo	*	Litimed)		
Calibrated by: Technica		ng Shing Kwai)	-	Approved by: Projec	len de Manager (Henry	Leung)





RECALIBRATION DUE DATE:

January 16, 2024

Certificate of Calibration

Calibration Certification Information

Cal. Date: January 16, 2023

Rootsmeter S/N: 438320

Ta: 293

°K

Operator: Jim Tisch
Calibration Model #:

TE-5025A Calibrator S/N: 3864

Pa: 749.0 mm Hg

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4440	3.2	2.00
2	3	4	1	1.0220	6.4	4.00
3	5	6	1	0.9100	8.0	5.00
4	7	8	1	0.8710	8.8	5.50
5	9	10	1	0.7210	12.8	8.00

	Data Tabulation						
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	√∆H(Ta/Pa)		
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)		
0.9981	0.6912	1.4159	0.9957	0.6896	0.8845		
0.9938	0.9724	2.0024	0.9915	0.9701	1.2509		
0.9917	1.0898	2.2388	0.9893	1.0872	1.3985		
0.9906	1.1373	2.3480	0.9883	1.1346	1.4668		
0.9853	1.3665	2.8318	0.9829	1.3633	1.7690		
	m=	2.09452		m=	1.31155		
QSTD[b=	-0.03493	QA	b=	-0.02182		
	r=	0.99995	•	r=	0.99995		

Calculations					
$Vstd = \Delta Vol((Pa-\Delta P)/Pstd)(Tstd/Ta)$ $Va = \Delta Vol((Pa-\Delta P)/Pa)$					
Qstd=	Vstd/ΔTime	Qa= Va/ΔTime			
For subsequent flow rate calculations:					
Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$ Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$					

	Standard Conditions					
Tstd:	298.15 °K					
Pstd:	760 mm Hg					
	Key					
	ΔH: calibrator manometer reading (in H2O)					
	ΔP: rootsmeter manometer reading (mm Hg)					
	solute temperature (°K)					
Pa: actual ba	rometric pressure (mm Hg)					
b: intercept						
m: slope						

RECALIBRATION

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



Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

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

Serial No.: MC01010A44

Equipment No.: SA-03-04

Date of Calibration 19-Aug-2022

Next Due Date 19-Feb-2023

1. Performance check of Wind Speed

Wind Sp	peed, m/s	Difference D (m/s)	
Wind Speed Reading (V1) Anemometer Value (V2)		D = V1 - V2	
0.0 0.0		0.0	
1.5	1.5	0.0	
2.5	2.6	-0.1	
4.0	4.0	0.0	

2. Performance check of Wind Direction

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

Test Specification:

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

Calibrated by:

Wong Shing Kwai

Approved by:

Henry/Leung



Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

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

Serial No.: MC01010A44

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

Date of Calibration <u>18-Feb-2023</u>

Next Due Date <u>18-Aug-2023</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	
1.2	1.3	-0.1	
2.5 2.5		0.0	
3.8 3.9		-0.1	

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: Approved by: Approved by: Henry Leung

APPENDIX C WEATHER INFORMATION

Appendix C - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C) ¹	Mean Relative Humidity	Precipitation (mm) ³
		(%) ²	
1-Feb-23	19.9	77	0.0
2-Feb-23	19.4	77	0.0
3-Feb-23	17.9	76	0.0
4-Feb-23	17.4	81	0.4
5-Feb-23	17.9	83	Trace
6-Feb-23	19.2	85	0.1
7-Feb-23	21.0	83	Trace
8-Feb-23	18.5	84	Trace
9-Feb-23	19.5	83	0.1
10-Feb-23	21.2	87	0.1
11-Feb-23	18.7	93	0.9
12-Feb-23	19.9	95	Trace
13-Feb-23	22.3	88	Trace
14-Feb-23	18.5	64	0.0
15-Feb-23	16.3	60	0.0
16-Feb-23	16.8	62	0.0
17-Feb-23	18.7	70	0.0
18-Feb-23	21.0	67	0.0
19-Feb-23	22.8	67	Trace
20-Feb-23	20.1	64	0.0
21-Feb-23	17.8	62	0.0
22-Feb-23	16.9	61	0.0
23-Feb-23	18.2	70	0.0
24-Feb-23	19.8	67	0.0
25-Feb-23	17.1	54	0.0
26-Feb-23	16.8	58	0.0
27-Feb-23	16.4	60	0.0
28-Feb-23	17.8	71	0.0

(Reporting Month:February 2023)

Remarks:

Source - Hong Kong Observatory

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

	Febru	ary 2023			
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
1 Feb 2023	12:00 AM	ESE	0.4		
1 Feb 2023	1:00 AM	ESE	0.4		
1 Feb 2023	2:00 AM	ESE	1.3		
1 Feb 2023	3:00 AM	Е	1.3		
1 Feb 2023	4:00 AM	Е	1.3		
1 Feb 2023	5:00 AM	ESE	1.8		
1 Feb 2023	6:00 AM	SE	2.7		
1 Feb 2023	7:00 AM	SE	2.2		
1 Feb 2023	8:00 AM	ESE	2.7		
1 Feb 2023	9:00 AM	ESE	1.8		
1 Feb 2023	10:00 AM	ESE	1.3		
1 Feb 2023	11:00 AM	SE	1.3		
1 Feb 2023	12:00 PM	ESE	4.0		
1 Feb 2023	1:00 PM	Е	4.0		
1 Feb 2023	2:00 PM	WNW	1.3		
1 Feb 2023	3:00 PM	SE	0.9		
1 Feb 2023	4:00 PM	ESE	0.9		
1 Feb 2023	5:00 PM	ESE	1.3		
1 Feb 2023	6:00 PM	Е	1.3		
1 Feb 2023	7:00 PM	ESE	0.9		
1 Feb 2023	8:00 PM	ESE	0.9		
1 Feb 2023	9:00 PM	ESE	0.9		
1 Feb 2023	10:00 PM	ESE	0.9		
1 Feb 2023	11:00 PM	ESE	1.3		
2 Feb 2023	12:00 AM	W	0.9		
2 Feb 2023	1:00 AM	NE	0.9		
2 Feb 2023	2:00 AM	NNW	1.3		
2 Feb 2023	3:00 AM	NE	1.3		
2 Feb 2023	4:00 AM	NE	1.3		
2 Feb 2023	5:00 AM	NNW	0.9		
2 Feb 2023	6:00 AM	NNW	0.9		
2 Feb 2023	7:00 AM	NNW	0.9		
2 Feb 2023	8:00 AM	NNW	0.9		
2 Feb 2023	9:00 AM	NNW	1.3		
2 Feb 2023	10:00 AM	NNW	1.3		
2 Feb 2023	11:00 AM	NNW	2.7		
2 Feb 2023	12:00 PM	NNW	4.5		
2 Feb 2023	1:00 PM	NNW	5.4		
2 Feb 2023	2:00 PM	NE	4.0		
2 Feb 2023	3:00 PM	ENE	2.2		
2 Feb 2023	4:00 PM	NNE	0.9		
2 Feb 2023	5:00 PM	ENE	1.3		
2 Feb 2023	6:00 PM	NE	1.3		
2 Feb 2023	7:00 PM	NW	1.8		
2 Feb 2023	8:00 PM	NW	1.3		
2 Feb 2023	9:00 PM	NW	1.8		
2 Feb 2023	10:00 PM	W	1.8		
2 Feb 2023	11:00 PM	NW	1.8		
3 Feb 2023	12:00 AM	NW	2.2		
3 Feb 2023	1:00 AM	WNW	1.8		
3 Feb 2023	2:00 AM	NW	1.8		
3 Feb 2023	3:00 AM	NW	1.3		
3 Feb 2023	4:00 AM	NW	1.8		
3 Feb 2023	5:00 AM	NW	1.8		
3 Feb 2023	6:00 AM	Е	1.8		
3 Feb 2023	7:00 AM	ESE	1.8		
3 Feb 2023	8:00 AM	Е	1.8		

	February 2023				
Wind Speed and Directions					
Date	Time	Direction	Wind Speed m-s		
3 Feb 2023	9:00 AM	ENE	1.3		
3 Feb 2023	10:00 AM	ENE	0.9		
3 Feb 2023	11:00 AM	Е	2.2		
3 Feb 2023	12:00 PM	ENE	0.9		
3 Feb 2023	1:00 PM	Е	0.9		
3 Feb 2023	2:00 PM	ENE	1.3		
3 Feb 2023	3:00 PM	NW	1.3		
3 Feb 2023	4:00 PM	ENE	1.8		
3 Feb 2023	5:00 PM	WNW	1.8		
3 Feb 2023	6:00 PM	ENE	1.8		
3 Feb 2023	7:00 PM	ESE	1.3		
3 Feb 2023	8:00 PM	NW	1.3		
3 Feb 2023	9:00 PM	NW	1.3		
3 Feb 2023	10:00 PM	NW	1.3		
3 Feb 2023	11:00 PM	NNE	0.9		
4 Feb 2023	12:00 AM	NNW	0.9		
4 Feb 2023	1:00 AM	W	1.3		
4 Feb 2023	2:00 AM	WNW	1.3		
4 Feb 2023	3:00 AM	WSW	1.8		
4 Feb 2023	4:00 AM	WSW	1.3		
4 Feb 2023	5:00 AM	WSW	1.3		
4 Feb 2023	6:00 AM	W	1.8		
4 Feb 2023	7:00 AM	NW	1.3		
4 Feb 2023	8:00 AM	W	0.9		
4 Feb 2023	9:00 AM	W	1.3		
4 Feb 2023	10:00 AM	W	1.8		
4 Feb 2023	11:00 AM	WNW	1.8		
4 Feb 2023	12:00 PM	W	2.2		
4 Feb 2023	1:00 PM	W	1.3		
4 Feb 2023	2:00 PM	W	0.9		
4 Feb 2023	3:00 PM	W	0.9		
4 Feb 2023	4:00 PM	W	0.9		
4 Feb 2023	5:00 PM	WNW	0.9		
4 Feb 2023	6:00 PM	W	0.9		
4 Feb 2023	7:00 PM	W	0.9		
4 Feb 2023	8:00 PM	W	0.4		
4 Feb 2023	9:00 PM	W	0.9		
4 Feb 2023	10:00 PM	W	0.4		
4 Feb 2023	11:00 PM	W	0.4		
5 Feb 2023	12:00 AM	W	0.4		
5 Feb 2023	1:00 AM	W	0.4		
5 Feb 2023	2:00 AM	W	0.4		
5 Feb 2023	3:00 AM	W	0.4		
5 Feb 2023	4:00 AM	W	0.0		
5 Feb 2023	5:00 AM	W	0.4		
5 Feb 2023	6:00 AM	W	0.9		
5 Feb 2023	7:00 AM	W	0.9		
5 Feb 2023	8:00 AM	NW	0.4		
5 Feb 2023	9:00 AM	W	1.3		
5 Feb 2023	10:00 AM	W	1.3		
5 Feb 2023	11:00 AM	WNW	4.0		
5 Feb 2023	12:00 PM	WNW	3.6		
5 Feb 2023	1:00 PM	W	4.9		
5 Feb 2023	2:00 PM	NW	3.6		
5 Feb 2023	3:00 PM	NW	2.2		
5 Feb 2023	4:00 PM	NW	2.2		
5 Feb 2023	5:00 PM	NW	1.8		

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
5 Feb 2023	6:00 PM	NW	0.0	
5 Feb 2023	7:00 PM	NW	0.4	
5 Feb 2023	8:00 PM	NW	0.4	
5 Feb 2023	9:00 PM	NW	0.4	
5 Feb 2023	10:00 PM	NW	0.3	
5 Feb 2023	11:00 PM	NW	0.2	
6 Feb 2023	12:00 AM	NW	0.3	
6 Feb 2023	1:00 AM	NW	0.2	
6 Feb 2023	2:00 AM	NW	0.2	
6 Feb 2023	3:00 AM	NW	0.1	
6 Feb 2023	4:00 AM	NW	0.0	
6 Feb 2023	5:00 AM	NW	0.4	
6 Feb 2023	6:00 AM	NW	1.3	
6 Feb 2023	7:00 AM	NW	1.3	
6 Feb 2023	8:00 AM	NW	2.2	
6 Feb 2023	9:00 AM	NW	1.3	
6 Feb 2023	10:00 AM	NW	1.3	
6 Feb 2023	11:00 AM	NW	1.3	
6 Feb 2023	12:00 PM	NW	1.3	
6 Feb 2023	1:00 PM	NW	1.8	
6 Feb 2023	2:00 PM	NW	1.3	
6 Feb 2023	3:00 PM	NW	0.9	
6 Feb 2023	4:00 PM	ENE	0.9	
6 Feb 2023	5:00 PM	Е	0.9	
6 Feb 2023	6:00 PM	Е	0.9	
6 Feb 2023	7:00 PM	Е	0.9	
6 Feb 2023	8:00 PM	Е	1.3	
6 Feb 2023	9:00 PM	Е	0.9	
6 Feb 2023	10:00 PM	Е	0.9	
6 Feb 2023	11:00 PM	ENE	1.3	
7 Feb 2023	12:00 AM	Е	0.9	
7 Feb 2023	1:00 AM	ENE	0.9	
7 Feb 2023	2:00 AM	Е	0.4	
7 Feb 2023	3:00 AM	Е	0.4	
7 Feb 2023	4:00 AM	ENE	0.4	
7 Feb 2023	5:00 AM	Е	0.9	
7 Feb 2023	6:00 AM	Е	1.3	
7 Feb 2023	7:00 AM	Е	1.3	
7 Feb 2023	8:00 AM	ESE	1.3	
7 Feb 2023	9:00 AM	ESE	1.3	
7 Feb 2023	10:00 AM	NW	1.3	
7 Feb 2023	11:00 AM	Е	1.3	
7 Feb 2023	12:00 PM	E	1.8	
7 Feb 2023	1:00 PM	E	1.8	
7 Feb 2023	2:00 PM	Е	1.3	
7 Feb 2023	3:00 PM	ENE	0.9	
7 Feb 2023	4:00 PM	E	0.9	
7 Feb 2023	5:00 PM	E	0.4	
7 Feb 2023	6:00 PM	ENE	0.4	
7 Feb 2023	7:00 PM	ENE	0.4	
7 Feb 2023	8:00 PM	ENE	0.4	
7 Feb 2023	9:00 PM	E	0.4	
7 Feb 2023	10:00 PM	ESE	0.4	
7 Feb 2023	11:00 PM	NW	0.4	
8 Feb 2023	12:00 AM	ENE	0.4	
8 Feb 2023	1:00 AM	ENE	0.4	
8 Feb 2023	2:00 AM	Е	0.4	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
8 Feb 2023	3:00 AM	Е	0.4	
8 Feb 2023	4:00 AM	Е	0.9	
8 Feb 2023	5:00 AM	Е	0.4	
8 Feb 2023	6:00 AM	Е	1.8	
8 Feb 2023	7:00 AM	ENE	1.3	
8 Feb 2023	8:00 AM	ESE	1.8	
8 Feb 2023	9:00 AM	Е	1.3	
8 Feb 2023	10:00 AM	Е	1.8	
8 Feb 2023	11:00 AM	Е	3.6	
8 Feb 2023	12:00 PM	ESE	3.6	
8 Feb 2023	1:00 PM	ENE	1.8	
8 Feb 2023	2:00 PM	Е	2.7	
8 Feb 2023	3:00 PM	NW	2.7	
8 Feb 2023	4:00 PM	NW	2.2	
8 Feb 2023	5:00 PM	NW	2.7	
8 Feb 2023	6:00 PM	NW	2.2	
8 Feb 2023	7:00 PM	NW	1.3	
8 Feb 2023	8:00 PM	NW	1.3	
8 Feb 2023	9:00 PM	W	1.3	
8 Feb 2023	10:00 PM	W	0.4	
8 Feb 2023	11:00 PM	WSW	0.4	
9 Feb 2023	12:00 AM	W	0.4	
9 Feb 2023	1:00 AM	ENE	0.4	
9 Feb 2023	2:00 AM	ESE	0.4	
9 Feb 2023	3:00 AM	ENE	0.9	
9 Feb 2023	4:00 AM	ENE	0.4	
9 Feb 2023	5:00 AM	ESE	0.4	
9 Feb 2023	6:00 AM	Е	0.0	
9 Feb 2023	7:00 AM	W	1.3	
9 Feb 2023	8:00 AM	Е	0.9	
9 Feb 2023	9:00 AM	ENE	1.3	
9 Feb 2023	10:00 AM	ENE	1.8	
9 Feb 2023	11:00 AM	Е	1.3	
9 Feb 2023	12:00 PM	N	0.9	
9 Feb 2023	1:00 PM	ENE	0.4	
9 Feb 2023	2:00 PM	Е	0.9	
9 Feb 2023	3:00 PM	NW	0.9	
9 Feb 2023	4:00 PM	NW	0.9	
9 Feb 2023	5:00 PM	NW	0.4	
9 Feb 2023	6:00 PM	NW	0.9	
9 Feb 2023	7:00 PM	Е	0.9	
9 Feb 2023	8:00 PM	Е	0.9	
9 Feb 2023	9:00 PM	ESE	0.4	
9 Feb 2023	10:00 PM	ESE	0.9	
9 Feb 2023	11:00 PM	ESE	0.9	
10 Feb 2023	12:00 AM	ESE	0.4	
10 Feb 2023	1:00 AM	NNE	0.4	
10 Feb 2023	2:00 AM	Е	0.0	
10 Feb 2023	3:00 AM	NW	0.4	
10 Feb 2023	4:00 AM	NW	0.4	
10 Feb 2023	5:00 AM	NE	0.0	
10 Feb 2023	6:00 AM	NW	0.0	
10 Feb 2023	7:00 AM	NW	0.0	
10 Feb 2023	8:00 AM	NE	0.4	
10 Feb 2023	9:00 AM	NW	0.4	
10 Feb 2023	10:00 AM	NW	0.0	
10 Feb 2023	11:00 AM	NW	0.4	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
10 Feb 2023	12:00 PM	NW	0.4	
10 Feb 2023	1:00 PM	NW	0.4	
10 Feb 2023	2:00 PM	NW	0.4	
10 Feb 2023	3:00 PM	NW	0.4	
10 Feb 2023	4:00 PM	NW	0.4	
10 Feb 2023	5:00 PM	NW	0.4	
10 Feb 2023	6:00 PM	NW	0.4	
10 Feb 2023	7:00 PM	ENE	0.4	
10 Feb 2023	8:00 PM	NW	0.4	
10 Feb 2023	9:00 PM	NW	0.0	
10 Feb 2023	10:00 PM	NW	0.4	
10 Feb 2023	11:00 PM	NW	0.4	
11 Feb 2023	12:00 AM	NW	0.9	
11 Feb 2023	1:00 AM	NW	0.4	
11 Feb 2023	2:00 AM	NW	0.4	
11 Feb 2023	3:00 AM	NW	0.9	
11 Feb 2023	4:00 AM	NW	0.9	
11 Feb 2023	5:00 AM	N	0.9	
11 Feb 2023	6:00 AM	NNW	0.9	
11 Feb 2023	7:00 AM	NNW	0.9	
11 Feb 2023	8:00 AM	NW	1.8	
11 Feb 2023	9:00 AM	NNW	0.9	
11 Feb 2023	10:00 AM	NW	2.7	
11 Feb 2023	11:00 AM	NW	2.2	
11 Feb 2023	12:00 PM	NW	1.3	
11 Feb 2023	1:00 PM	NW	0.4	
11 Feb 2023	2:00 PM	NW	0.4	
11 Feb 2023	3:00 PM	NW	0.4	
11 Feb 2023	4:00 PM	NNE	0.4	
11 Feb 2023	5:00 PM	NW	1.8	
11 Feb 2023	6:00 PM	NW	3.1	
11 Feb 2023	7:00 PM	NW	3.1	
11 Feb 2023	8:00 PM	NW	2.2	
11 Feb 2023	9:00 PM	NW	1.8	
11 Feb 2023	10:00 PM	NW	1.3	
11 Feb 2023	11:00 PM	NW	1.8	
12 Feb 2023	12:00 AM	NW	1.8	
12 Feb 2023	1:00 AM	NW	2.7	
12 Feb 2023	2:00 AM	NW	2.2	
12 Feb 2023	3:00 AM		1.8	
12 Feb 2023	4:00 AM		1.3	
12 Feb 2023	5:00 AM	NNW	0.9	
12 Feb 2023	6:00 AM	NW	0.4	
12 Feb 2023	7:00 AM	NW	0.4	
12 Feb 2023	8:00 AM	NW	0.4	
12 Feb 2023	9:00 AM	NW	0.4	
12 Feb 2023	10:00 AM	E	0.4	
12 Feb 2023	11:00 AM	Е	0.9	
12 Feb 2023	12:00 PM	ENE	0.9	
12 Feb 2023	1:00 PM	ESE	0.9	
12 Feb 2023	2:00 PM	NW	0.9	
12 Feb 2023	3:00 PM	NW	1.3	
12 Feb 2023	4:00 PM	NW	0.9	
12 Feb 2023	5:00 PM	NW	1.8	
12 Feb 2023	6:00 PM	NW	1.8	
12 Feb 2023	7:00 PM	NW	1.3	
12 Feb 2023	8:00 PM	NW	1.3	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
12 Feb 2023	9:00 PM	NW	1.3	
12 Feb 2023	10:00 PM	NW	0.4	
12 Feb 2023	11:00 PM	NW	0.4	
13 Feb 2023	12:00 AM	NE	0.9	
13 Feb 2023	1:00 AM	NW	0.4	
13 Feb 2023	2:00 AM	NNW	0.0	
13 Feb 2023	3:00 AM	NW	0.0	
13 Feb 2023	4:00 AM	NNE	0.0	
13 Feb 2023	5:00 AM	NW	0.0	
13 Feb 2023	6:00 AM	NW	0.4	
13 Feb 2023	7:00 AM	NNE	0.9	
13 Feb 2023	8:00 AM	WNW	0.4	
13 Feb 2023	9:00 AM	NW	0.4	
13 Feb 2023	10:00 AM	ENE	0.9	
13 Feb 2023	11:00 AM	NNE	0.9	
13 Feb 2023	12:00 PM	NW	0.4	
13 Feb 2023	1:00 PM	NW	0.4	
13 Feb 2023	2:00 PM	NW	0.9	
13 Feb 2023	3:00 PM	NW	1.3	
13 Feb 2023	4:00 PM	NW	4.0	
13 Feb 2023	5:00 PM	NW	3.6	
13 Feb 2023	6:00 PM	NW	3.6	
13 Feb 2023	7:00 PM	NW	4.5	
13 Feb 2023	8:00 PM	NW	1.8	
13 Feb 2023	9:00 PM	W	0.4	
13 Feb 2023	10:00 PM	NW	0.4	
13 Feb 2023	11:00 PM	NW	0.0	
14 Feb 2023	12:00 AM	WSW	0.0	
14 Feb 2023	1:00 AM	NW	0.4	
14 Feb 2023	2:00 AM	NW	0.0	
14 Feb 2023	3:00 AM	NW	0.0	
14 Feb 2023	4:00 AM	NW	0.0	
14 Feb 2023	5:00 AM	NW	0.0	
14 Feb 2023	6:00 AM	NW	0.0	
14 Feb 2023	7:00 AM	NW	0.0	
14 Feb 2023	8:00 AM	NW	0.0	
14 Feb 2023	9:00 AM	W	0.0	
14 Feb 2023	10:00 AM	NW	0.0	
14 Feb 2023	11:00 AM	NW	0.0	
14 Feb 2023	12:00 PM	NE	0.0	
14 Feb 2023	1:00 PM	NE	0.4	
14 Feb 2023	2:00 PM	NW	3.1	
14 Feb 2023	3:00 PM	NW	3.1	
14 Feb 2023	4:00 PM	NW	1.8	
14 Feb 2023	5:00 PM	NW	0.9	
14 Feb 2023	6:00 PM	NW	0.4	
14 Feb 2023	7:00 PM	NNW	0.4	
14 Feb 2023	8:00 PM	NW	0.4	
14 Feb 2023	9:00 PM	NW	0.4	
14 Feb 2023	10:00 PM	NW	0.0	
14 Feb 2023	11:00 PM	NW	0.0	
15 Feb 2023	12:00 AM	NW	0.0	
15 Feb 2023	1:00 AM	ESE	0.0	
15 Feb 2023	2:00 AM	WNW	0.0	
15 Feb 2023	3:00 AM	WNW	0.0	
15 Feb 2023	4:00 AM	Е	0.0	
15 Feb 2023	5:00 AM	ENE	0.0	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
15 Feb 2023	6:00 AM	NW	0.0	
15 Feb 2023	7:00 AM	ENE	0.0	
15 Feb 2023	8:00 AM	ENE	0.0	
15 Feb 2023	9:00 AM	NW	0.0	
15 Feb 2023	10:00 AM	NE	0.0	
15 Feb 2023	11:00 AM	NW	0.4	
15 Feb 2023	12:00 PM	ENE	0.4	
15 Feb 2023	1:00 PM	Е	0.9	
15 Feb 2023	2:00 PM	Е	1.8	
15 Feb 2023	3:00 PM	Е	1.8	
15 Feb 2023	4:00 PM	Е	1.3	
15 Feb 2023	5:00 PM	Е	0.9	
15 Feb 2023	6:00 PM	Е	0.9	
15 Feb 2023	7:00 PM	ESE	1.3	
15 Feb 2023	8:00 PM	Е	1.8	
15 Feb 2023	9:00 PM	Е	0.9	
15 Feb 2023	10:00 PM	ENE	0.9	
15 Feb 2023	11:00 PM	ESE	1.3	
16 Feb 2023	12:00 AM	ESE	0.9	
16 Feb 2023	1:00 AM	E	0.9	
16 Feb 2023	2:00 AM	NNW	0.9	
16 Feb 2023	3:00 AM	ENE	0.4	
16 Feb 2023	4:00 AM	E	0.9	
16 Feb 2023	5:00 AM	Е	0.9	
16 Feb 2023	6:00 AM	ENE	0.9	
16 Feb 2023	7:00 AM	SE	0.9	
16 Feb 2023	8:00 AM	NW	1.3	
16 Feb 2023	9:00 AM	NW	1.3	
16 Feb 2023	10:00 AM	Е	1.3	
16 Feb 2023	11:00 AM	Е	1.3	
16 Feb 2023	12:00 PM	E	1.3	
16 Feb 2023	1:00 PM	E	1.8	
16 Feb 2023	2:00 PM	Е	1.3	
16 Feb 2023	3:00 PM	SE	1.3	
16 Feb 2023	4:00 PM	E	1.3	
16 Feb 2023	5:00 PM	ESE	0.9	
16 Feb 2023	6:00 PM	ESE	1.8	
16 Feb 2023	7:00 PM	ESE	2.2	
16 Feb 2023	8:00 PM	ESE	2.7	
16 Feb 2023	9:00 PM	ESE	2.7	
16 Feb 2023	10:00 PM	ESE	1.8	
16 Feb 2023	11:00 PM	ESE	1.3	
17 Feb 2023	12:00 AM	ESE	1.3	
17 Feb 2023	1:00 AM	Е	0.9	
17 Feb 2023	2:00 AM	SE	0.9	
17 Feb 2023	3:00 AM	SE	0.9	
17 Feb 2023	4:00 AM	SE	0.4	
17 Feb 2023	5:00 AM	SE	0.4	
17 Feb 2023	6:00 AM	WNW	0.4	
17 Feb 2023	7:00 AM	WNW	0.4	
17 Feb 2023	8:00 AM	WNW	0.9	
17 Feb 2023	9:00 AM	NNW	0.9	
17 Feb 2023	10:00 AM	WNW	0.9	
17 Feb 2023	11:00 AM	WNW	0.4	
17 Feb 2023	12:00 PM	NNW	0.9	
17 Feb 2023	1:00 PM	NNW	0.9	
17 Feb 2023	2:00 PM	WNW	0.9	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
17 Feb 2023	3:00 PM	NW	0.9	
17 Feb 2023	4:00 PM	NW	0.4	
17 Feb 2023	5:00 PM	NNW	0.9	
17 Feb 2023	6:00 PM	ESE	0.9	
17 Feb 2023	7:00 PM	NNW	0.9	
17 Feb 2023	8:00 PM	NNW	0.9	
17 Feb 2023	9:00 PM	NNW	0.9	
17 Feb 2023	10:00 PM	WNW	0.9	
17 Feb 2023	11:00 PM	SE	0.9	
18 Feb 2023	12:00 AM	NNW	0.9	
18 Feb 2023	1:00 AM	NW	0.9	
18 Feb 2023	2:00 AM	NW	0.9	
18 Feb 2023	3:00 AM	NNW	3.1	
18 Feb 2023	4:00 AM	NNW	4.0	
18 Feb 2023	5:00 AM	NNW	4.5	
18 Feb 2023	6:00 AM	NNW	4.9	
18 Feb 2023	7:00 AM	NNW	2.7	
18 Feb 2023	8:00 AM	ESE	1.3	
18 Feb 2023	9:00 AM	ESE	1.3	
18 Feb 2023	10:00 AM	ESE	0.9	
18 Feb 2023	11:00 AM	Е	1.8	
18 Feb 2023	12:00 PM	Е	0.9	
18 Feb 2023	1:00 PM	ESE	0.9	
18 Feb 2023	2:00 PM	SE	0.9	
18 Feb 2023	3:00 PM	SE	0.9	
18 Feb 2023	4:00 PM	ESE	0.4	
18 Feb 2023	5:00 PM	ESE	0.4	
18 Feb 2023	6:00 PM	ESE	0.4	
18 Feb 2023	7:00 PM	SE	0.0	
18 Feb 2023	8:00 PM	ESE	0.0	
18 Feb 2023	9:00 PM	Е	0.0	
18 Feb 2023	10:00 PM	WNW	0.4	
18 Feb 2023	11:00 PM	SE	0.9	
19 Feb 2023	12:00 AM	ESE	1.3	
19 Feb 2023	1:00 AM	ESE	1.3	
19 Feb 2023	2:00 AM	Е	2.2	
19 Feb 2023	3:00 AM	ESE	4.0	
19 Feb 2023	4:00 AM	ESE	4.0	
19 Feb 2023	5:00 AM	ESE	3.6	
19 Feb 2023	6:00 AM	ESE	3.6	
19 Feb 2023	7:00 AM	ESE	3.6	
19 Feb 2023	8:00 AM	NNW	2.7	
19 Feb 2023	9:00 AM	NW	2.7	
19 Feb 2023	10:00 AM	NNW	0.9	
19 Feb 2023	11:00 AM	NNW	0.9	
19 Feb 2023	12:00 PM	W	0.0	
19 Feb 2023	1:00 PM	NNW	0.4	
19 Feb 2023	2:00 PM	W	0.4	
19 Feb 2023	3:00 PM	W	3.6	
19 Feb 2023	4:00 PM	W	2.7	
19 Feb 2023	5:00 PM	NNW	2.7	
19 Feb 2023	6:00 PM	ENE	0.9	
19 Feb 2023	7:00 PM	Е	0.9	
19 Feb 2023	8:00 PM	ENE	0.0	
19 Feb 2023	9:00 PM	NE	0.4	
19 Feb 2023	10:00 PM	NE	0.4	
19 Feb 2023	11:00 PM	ENE	0.4	

February 2023				
Wind Speed and Directions				
Date	Time	Direction	Wind Speed m-s	
20 Feb 2023	12:00 AM	Е	0.4	
20 Feb 2023	1:00 AM	0	1.3	
20 Feb 2023	2:00 AM	0	1.3	
20 Feb 2023	3:00 AM	Е	1.8	
20 Feb 2023	4:00 AM	Е	1.3	
20 Feb 2023	5:00 AM	ENE	1.8	
20 Feb 2023	6:00 AM	ENE	1.8	
20 Feb 2023	7:00 AM	N	1.8	
20 Feb 2023	8:00 AM	ENE	2.2	
20 Feb 2023	9:00 AM	NE	2.2	
20 Feb 2023	10:00 AM	NNW	1.8	
20 Feb 2023	11:00 AM	W	2.7	
20 Feb 2023	12:00 PM	NNW	2.7	
20 Feb 2023	1:00 PM	NNW	1.8	
20 Feb 2023	2:00 PM	NNW	1.8	
20 Feb 2023	3:00 PM	NNW	1.8	
20 Feb 2023	4:00 PM	NNW	2.2	
20 Feb 2023	5:00 PM	NNW	2.2	
20 Feb 2023	6:00 PM	NE	1.8	
20 Feb 2023	7:00 PM	ENE	1.8	
20 Feb 2023	8:00 PM	N	1.8	
20 Feb 2023	9:00 PM	N	2.2	
20 Feb 2023	10:00 PM	E	1.8	
20 Feb 2023	11:00 PM	NE	1.8	
21 Feb 2023	12:00 AM	NE	0.0	
21 Feb 2023	1:00 AM	NE	0.0	
21 Feb 2023	2:00 AM	NNE	0.0	
21 Feb 2023	3:00 AM	NNE	0.0	
21 Feb 2023	4:00 AM	NE	0.0	
21 Feb 2023	5:00 AM	NE	0.0	
21 Feb 2023	6:00 AM	NE	0.0	
21 Feb 2023	7:00 AM	NNW	0.0	
21 Feb 2023	8:00 AM	NE	0.0	
21 Feb 2023	9:00 AM	NE	0.0	
21 Feb 2023	10:00 AM	NNW	0.4	
21 Feb 2023	11:00 AM	NNW	1.3	
21 Feb 2023	12:00 PM	NNW	2.2	
21 Feb 2023	1:00 PM	NNW	3.6	
21 Feb 2023	2:00 PM	NNW	3.6	
21 Feb 2023	3:00 PM	NNW	3.1	
21 Feb 2023	4:00 PM	NNW	3.1	
21 Feb 2023	5:00 PM	NNW	1.8	
21 Feb 2023	6:00 PM	NNW	1.3	
21 Feb 2023	7:00 PM	NE	0.4	
21 Feb 2023	8:00 PM	ENE	0.9	
21 Feb 2023	9:00 PM	NNE	0.9	
21 Feb 2023	10:00 PM	ENE	0.9	
21 Feb 2023	11:00 PM	NE	0.9	
22 Feb 2023	12:00 AM	WNW	0.4	
22 Feb 2023	1:00 AM	WNW	0.4	
22 Feb 2023	2:00 AM	WNW	0.4	
22 Feb 2023	3:00 AM	NW	0.4	
22 Feb 2023	4:00 AM	W	0.0	
22 Feb 2023	5:00 AM	W	0.0	
22 Feb 2023	6:00 AM	WNW	0.0	
22 Feb 2023	7:00 AM	WNW	0.4	
22 Feb 2023	8:00 AM	W	0.4	

Wind Speed and Directions Date Time Direction Wind Speed m-s 22 Feb 2023 10:00 AM W 0.9 22 Feb 2023 11:00 AM SSW 0.9 22 Feb 2023 12:00 PM SSW 0.9 22 Feb 2023 12:00 PM ESE 1.3 22 Feb 2023 2:00 PM ESE 1.3 22 Feb 2023 3:00 PM ESE 0.9 22 Feb 2023 3:00 PM E 0.0 22 Feb 2023 5:00 PM E 0.0 22 Feb 2023 5:00 PM E 0.4 22 Feb 2023 5:00 PM E 0.4 22 Feb 2023 5:00 PM ESE 0.4 22 Feb 2023 7:00 PM SE 0.4 22 Feb 2023 7:00 PM ESE 0.4 22 Feb 2023 10:00 PM ESE 0.0 22 Feb 2023 11:00 PM ESE 0.0 23 Feb 2023 11:00 PM ESE 0.0		February 2023						
Date Time Direction Wind Speed ms 22 Feb 2023 9:00 AM W 0.9 22 Feb 2023 10:00 AM W 0.9 22 Feb 2023 11:00 AM SSW 0.9 22 Feb 2023 12:00 PM ESE 1.3 22 Feb 2023 1:00 PM ESE 1.3 22 Feb 2023 3:00 PM ESE 0.9 22 Feb 2023 4:00 PM E 0.0 22 Feb 2023 5:00 PM E 0.4 22 Feb 2023 5:00 PM E 0.4 22 Feb 2023 6:00 PM ESE 1.3 22 Feb 2023 7:00 PM ESE 0.4 22 Feb 2023 8:00 PM SE 0.4 22 Feb 2023 19:00 PM ESE 0.4 22 Feb 2023 11:00 PM ESE 0.4 22 Feb 2023 11:00 PM ESE 0.4 23 Feb 2023 12:00 AM SE 0.9 23 Feb 2023 1:00 AM ESE								
22 Feb 2023	Date			Wind Speed m-s				
22 Feb 2023	22 Feb 2023	9:00 AM	W	0.9				
22 Feb 2023	22 Feb 2023	10:00 AM	W	0.9				
22 Feb 2023	22 Feb 2023	11:00 AM	SSW	0.9				
22 Feb 2023	22 Feb 2023	12:00 PM	SSW	0.9				
22 Feb 2023	22 Feb 2023	1:00 PM	ESE	1.3				
22 Feb 2023	22 Feb 2023	2:00 PM	ESE	1.3				
22 Feb 2023	22 Feb 2023	3:00 PM	ESE	0.9				
22 Feb 2023 6:00 PM ESE 1.3 22 Feb 2023 7:00 PM SE 0.4 22 Feb 2023 8:00 PM SE 0.4 22 Feb 2023 10:00 PM ESE 0.0 22 Feb 2023 11:00 PM ESE 0.0 22 Feb 2023 11:00 PM ESE 0.4 23 Feb 2023 12:00 AM SE 0.9 23 Feb 2023 1:00 AM ESE 0.0 23 Feb 2023 1:00 AM ESE 0.0 23 Feb 2023 1:00 AM ESE 0.0 23 Feb 2023 3:00 AM ESE 0.0 23 Feb 2023 4:00 AM SE 1.8 23 Feb 2023 5:00 AM ESE 1.3 23 Feb 2023 5:00 AM ESE 1.3 23 Feb 2023 7:00 AM ESE 2.2 23 Feb 2023 7:00 AM ESE 1.3 23 Feb 2023 10:00 AM ESE 1.8 23 Feb 2023 11:00 AM ESE	22 Feb 2023	4:00 PM	Е	0.0				
22 Feb 2023 7:00 PM SE 0.4 22 Feb 2023 8:00 PM SE 0.4 22 Feb 2023 9:00 PM ESE 0.4 22 Feb 2023 10:00 PM ESE 0.0 22 Feb 2023 11:00 PM ESE 0.4 23 Feb 2023 12:00 AM SE 0.9 23 Feb 2023 1:00 AM ESE 0.0 23 Feb 2023 4:00 AM ESE 1.8 23 Feb 2023 4:00 AM ESE 1.3 23 Feb 2023 5:00 AM ESE 1.3 23 Feb 2023 7:00 AM ESE 2.2 23 Feb 2023 7:00 AM ESE 2.7 23 Feb 2023 10:00 AM ESE 1.3 23 Feb 2023 10:00 AM ESE 0.0 23 Feb 2023 10:00 AM ESE	22 Feb 2023	5:00 PM	Е	0.4				
22 Feb 2023 8:00 PM SE 0.4 22 Feb 2023 9:00 PM ESE 0.4 22 Feb 2023 10:00 PM ESE 0.0 22 Feb 2023 11:00 PM ESE 0.4 23 Feb 2023 12:00 AM ESE 0.9 23 Feb 2023 1:00 AM ESE 0.0 23 Feb 2023 2:00 AM E 0.4 23 Feb 2023 3:00 AM WNW 0.9 23 Feb 2023 3:00 AM ESE 1.8 23 Feb 2023 5:00 AM ESE 1.3 23 Feb 2023 5:00 AM ESE 1.3 23 Feb 2023 5:00 AM ESE 2.2 23 Feb 2023 5:00 AM ESE 2.2 23 Feb 2023 9:00 AM ESE 2.7 23 Feb 2023 10:00 AM ESE 1.3 23 Feb 2023 10:00 AM ESE 0.0 23 Feb 2023 10:00 AM ESE 0.9 23 Feb 2023 10:00 AM ESE	22 Feb 2023	6:00 PM	ESE	1.3				
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24 Feb 2023 8:00 AM WNW 1.3 24 Feb 2023 9:00 AM NW 1.3 24 Feb 2023 10:00 AM W 0.9 24 Feb 2023 11:00 AM WSW 0.9 24 Feb 2023 12:00 PM WNW 0.9 24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 9:00 AM NW 1.3 24 Feb 2023 10:00 AM W 0.9 24 Feb 2023 11:00 AM WSW 0.9 24 Feb 2023 12:00 PM WNW 0.9 24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 10:00 AM W 0.9 24 Feb 2023 11:00 AM WSW 0.9 24 Feb 2023 12:00 PM WNW 0.9 24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 11:00 AM WSW 0.9 24 Feb 2023 12:00 PM WNW 0.9 24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 12:00 PM WNW 0.9 24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 1:00 PM WNW 2.7 24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 2:00 PM ESE 2.2 24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 3:00 PM E 0.9 24 Feb 2023 4:00 PM WNW 0.4								
24 Feb 2023 4:00 PM WNW 0.4								
		5:00 PM						

	February 2023					
Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s			
24 Feb 2023	6:00 PM	W	0.4			
24 Feb 2023	7:00 PM	W	0.9			
24 Feb 2023	8:00 PM	NW	0.9			
24 Feb 2023	9:00 PM	WNW	0.9			
24 Feb 2023	10:00 PM	WNW	1.3			
24 Feb 2023	11:00 PM	ESE	1.8			
25 Feb 2023	12:00 AM	Е	2.7			
25 Feb 2023	1:00 AM	WNW	3.6			
25 Feb 2023	2:00 AM	NW	2.2			
25 Feb 2023	3:00 AM	NW	2.2			
25 Feb 2023	4:00 AM	NNW	1.8			
25 Feb 2023	5:00 AM	NNW	1.3			
25 Feb 2023	6:00 AM	WNW	0.9			
25 Feb 2023	7:00 AM	NW	0.4			
25 Feb 2023	8:00 AM	WNW	0.4			
25 Feb 2023	9:00 AM	WNW	0.4			
25 Feb 2023	10:00 AM	WNW	0.9			
25 Feb 2023	11:00 AM	WNW	0.9			
25 Feb 2023	12:00 PM	WNW	1.3			
25 Feb 2023	1:00 PM	WNW	0.4			
25 Feb 2023	2:00 PM	WNW	0.9			
25 Feb 2023	3:00 PM	WNW	1.8			
25 Feb 2023	4:00 PM	WNW	0.4			
25 Feb 2023	5:00 PM	E	0.9			
25 Feb 2023	6:00 PM	WNW	0.9			
25 Feb 2023	7:00 PM	WNW	0.9			
25 Feb 2023	8:00 PM 9:00 PM	WNW	0.4			
25 Feb 2023 25 Feb 2023	10:00 PM	WNW NW	0.9			
25 Feb 2023 25 Feb 2023	11:00 PM	NW	0.9			
26 Feb 2023	12:00 AM	NNW	1.3			
26 Feb 2023	1:00 AM	WNW	1.8			
26 Feb 2023	2:00 AM	NNW	2.7			
26 Feb 2023	3:00 AM	NNW	2.1			
26 Feb 2023	4:00 AM	WNW	2.2			
26 Feb 2023	5:00 AM	WNW	2.2			
26 Feb 2023	6:00 AM	WNW	1.8			
26 Feb 2023	7:00 AM	NW	1.3			
26 Feb 2023	8:00 AM	WNW	0.9			
26 Feb 2023	9:00 AM	NNW	0.4			
26 Feb 2023	10:00 AM	NW	1.3			
26 Feb 2023	11:00 AM	NW	0.9			
26 Feb 2023	12:00 PM	NNW	0.9			
26 Feb 2023	1:00 PM	WNW	0.9			
26 Feb 2023	2:00 PM	WNW	0.9			
26 Feb 2023	3:00 PM	W	0.9			
26 Feb 2023	4:00 PM	WNW	0.9			
26 Feb 2023	5:00 PM	WNW	0.9			
26 Feb 2023	6:00 PM	W	1.3			
26 Feb 2023	7:00 PM	NNW	0.9			
26 Feb 2023	8:00 PM	WNW	1.8			
26 Feb 2023	9:00 PM	NW	0.9			
26 Feb 2023	10:00 PM	NW	0.9			
26 Feb 2023	11:00 PM	W	0.9			
27 Feb 2023	12:00 AM	W	0.9			
27 Feb 2023	1:00 AM	NW	0.9			
27 Feb 2023	2:00 AM	NW	0.4			

	February 2023						
	Wind Speed and Directions						
Date	Time	Direction	Wind Speed m-s				
27 Feb 2023	3:00 AM	NW	0.9				
27 Feb 2023	4:00 AM	W	0.9				
27 Feb 2023	5:00 AM	WNW	0.9				
27 Feb 2023	6:00 AM	W	1.3				
27 Feb 2023	7:00 AM	WNW	1.8				
27 Feb 2023	8:00 AM	NNE	2.7				
27 Feb 2023	9:00 AM	W	3.6				
27 Feb 2023	10:00 AM	WNW	2.2				
27 Feb 2023	11:00 AM	WNW	2.2				
27 Feb 2023	12:00 PM	WNW	1.8				
27 Feb 2023	1:00 PM	WNW	1.3				
27 Feb 2023	2:00 PM	WNW	0.9				
27 Feb 2023	3:00 PM	WNW	0.4				
27 Feb 2023	4:00 PM	WNW	0.0				
27 Feb 2023	5:00 PM	WNW	0.0				
27 Feb 2023	6:00 PM	WNW	1.3				
27 Feb 2023	7:00 PM	WNW	1.8				
27 Feb 2023	8:00 PM	WSW	0.9				
27 Feb 2023	9:00 PM	WSW	1.3				
27 Feb 2023	10:00 PM	WSW	0.9				
27 Feb 2023	11:00 PM	WSW	1.3				
28 Feb 2023	12:00 AM	W	2.7				
28 Feb 2023	1:00 AM	NE	2.2				
28 Feb 2023	2:00 AM	ENE	2.2				
28 Feb 2023	3:00 AM	NE	0.9				
28 Feb 2023	4:00 AM	NE	0.4				
28 Feb 2023	5:00 AM	WSW	0.4				
28 Feb 2023	6:00 AM	W	0.4				
28 Feb 2023	7:00 AM	WSW	0.9				
28 Feb 2023	8:00 AM	WSW	0.9				
28 Feb 2023	9:00 AM	WSW	0.9				
28 Feb 2023	10:00 AM	WSW	1.3				
28 Feb 2023	11:00 AM	WNW	1.8				
28 Feb 2023	12:00 PM	WNW	2.7				
28 Feb 2023	1:00 PM	WSW	3.6				
28 Feb 2023	2:00 PM	ENE	2.2				

February 2023						
Wind Speed and Directions						
Date Time Direction Wind S						
28 Feb 2023	3:00 PM	SW	2.2			
28 Feb 2023	4:00 PM	ENE	1.8			
28 Feb 2023	5:00 PM	NE	1.3			
28 Feb 2023	6:00 PM	WSW	0.9			
28 Feb 2023	7:00 PM	W	0.4			
28 Feb 2023	8:00 PM	WSW	0.4			
28 Feb 2023	9:00 PM	WSW	0.4			
28 Feb 2023	10:00 PM	WSW	0.9			
28 Feb 2023	11:00 PM	SSW	0.9			

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

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

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

 $\mbox{AM4}^{(1)}$ - Sitting-out Area at Cha Kwo Ling Village

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

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

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

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

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

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

Tentative Im	pact Air and Noise	Monitoring	Schedule (April 2023)
I thanve in	ipaci Aii aiiu must	MIOHHOT HIS	Schedule (A	April 2023)

Sunday Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Apr
2-Apr 3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	1-hr TSP X3		24-hrs TSP		
	Noise		24 ms 151		
24-hrs TSP	- 10100		1-hr TSP X3		
	11.	10.1	10.1	14.	15 .
9-Apr 10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
		1-hr TSP X3			1-hr TSP X3
		Noise			
	24-hrs TSP			24-hrs TSP	
16-Apr 17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
10-Арг	10-Арг	19-Арг	20-Арг	21-Api	22-Apr
				1-hr TSP X3	
				Noise	
			24-hrs TSP		
23-Apr 24-Apr	` 25-Apr	26-Apr	27-Apr	28-Apr	29-Apr
	•	•		•	•
			1-hr TSP X3		
		24-hrs TSP	Noise		
		24-IIIS 13P			
30-Apr					

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

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

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

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

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

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

Air Quality Monitoring Station

1-hr TSP / 24-hrs TSP

AM1 - Tin Hau Temple

AM2 - Sai Tso Wan Recreation Ground

AM3 - Yau Lai Estate Bik Lai House

 $\mbox{AM4}^{(1)}$ - Sitting-out Area at Cha Kwo Ling Village

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

Noise Monitoring Station

CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong

CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong

CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong

CM4 - Tin Hau Temple, Cha Kwo Ling

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix E - 1-hour TSP Monitoring Results

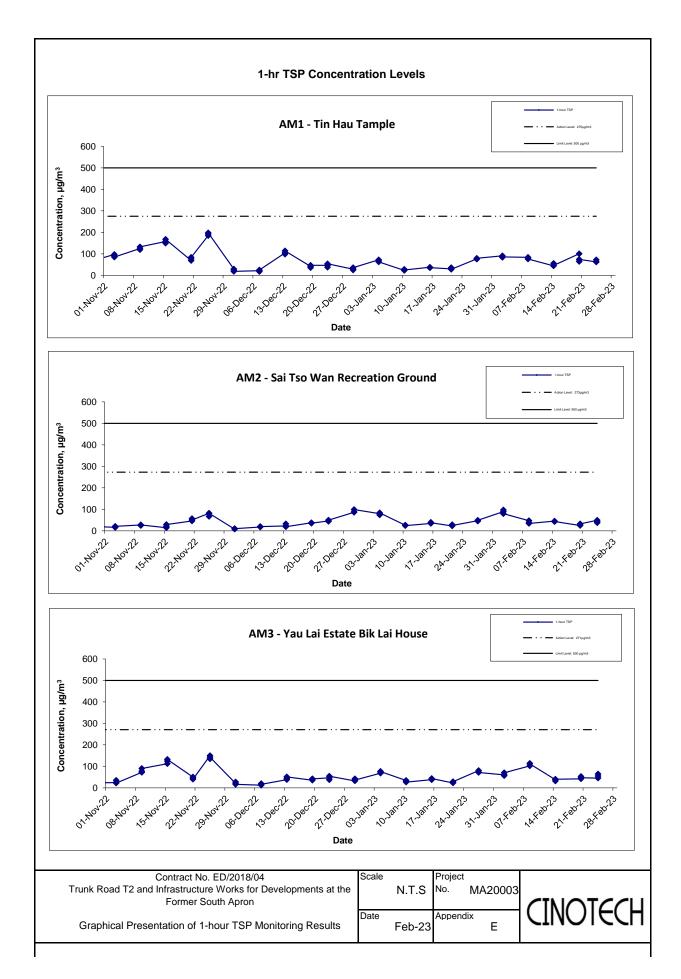
Location AM1 -	Location AM1 - Tin Hau Temple						
Date	Time	Weather	Particulate Concentration (μg/m3)				
2-Feb-23	13:00	Sunny	91.2				
2-Feb-23	14:00	Sunny	83.6				
2-Feb-23	15:00	Sunny	85.5				
8-Feb-23	13:00	Cloudy	83.6				
8-Feb-23	14:00	Cloudy	81.7				
8-Feb-23	15:00	Cloudy	76.0				
14-Feb-23	12:25	Fine	44.0				
14-Feb-23	13:25	Fine	56.0				
14-Feb-23	14:25	Fine	46.0				
20-Feb-23	14:47	Fine	100.7				
20-Feb-23	15:47	Fine	64.6				
20-Feb-23	16:47	Fine	74.1				
24-Feb-23	13:00	Sunny	62.7				
24-Feb-23	14:00	Sunny	62.7				
24-Feb-23	15:00	Sunny	72.2				
		Average	72.3				
		Maximum	100.7				
		Minimum	44.0				

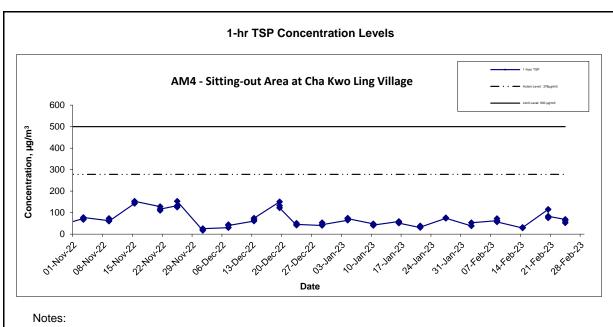
Location AM2 -	Location AM2 - Sai Tso Wan Recreation Ground						
Date	Time	Weather	Particulate Concentration (μg/m3)				
2-Feb-23	9:30	Fine	89.3				
2-Feb-23	10:30	Fine	96.9				
2-Feb-23	11:30	Fine	79.8				
8-Feb-23	9:15	Sunny	47.5				
8-Feb-23	10:15	Sunny	38.0				
8-Feb-23	11:15	Sunny	34.2				
14-Feb-23	13:04	Fine	45.6				
14-Feb-23	14:04	Fine	43.7				
14-Feb-23	15:04	Fine	43.7				
20-Feb-23	9:00	Fine	25.2				
20-Feb-23	10:00	Fine	30.6				
20-Feb-23	11:00	Fine	32.4				
24-Feb-23	16:00	Sunny	49.4				
24-Feb-23	17:00	Sunny	38.0				
24-Feb-23	18:00	Sunny	41.8				
		Average	49.1				
		Maximum	96.9				
		Minimum	25.2				

Appendix E - 1-hour TSP Monitoring Results

Location AM3 -	Location AM3 - Yau Lai Estate Bik Lai House						
Date	Time	Weather	Particulate Concentration (μg/m3)				
2-Feb-23	9:30	Sunny	60.8				
2-Feb-23	10:30	Sunny	57.0				
2-Feb-23	11:30	Sunny	70.3				
8-Feb-23	9:00	Cloudy	102.6				
8-Feb-23	10:00	Cloudy	114.0				
8-Feb-23	11:00	Cloudy	112.1				
14-Feb-23	15:57	Fine	38.0				
14-Feb-23	16:57	Fine	32.0				
14-Feb-23	17:57	Fine	40.0				
20-Feb-23	10:25	Fine	41.8				
20-Feb-23	11:25	Fine	53.2				
20-Feb-23	12:25	Fine	47.5				
24-Feb-23	9:30	Sunny	45.6				
24-Feb-23	10:30	Sunny	55.1				
24-Feb-23	11:30	Sunny	64.6				
		Average	62.3				
		Maximum	114.0				
		Minimum	32.0				

Location AM4 -	Sitting-out A	Area at Cha Kwo	Ling Village
Date	Time	Weather	Particulate Concentration (μg/m3)
2-Feb-23	16:00	Sunny	39.9
2-Feb-23	17:00	Sunny	38.0
2-Feb-23	18:00	Sunny	53.2
8-Feb-23	16:00	Cloudy	62.7
8-Feb-23	17:00	Cloudy	72.2
8-Feb-23	18:00	Cloudy	57.0
14-Feb-23	9:00	Fine	28.5
14-Feb-23	10:00	Fine	30.4
14-Feb-23	11:00	Fine	30.4
20-Feb-23	14:56	Fine	115.2
20-Feb-23	15:56	Fine	75.6
20-Feb-23	16:56	Fine	82.8
24-Feb-23	16:00	Sunny	68.0
24-Feb-23	17:00	Sunny	62.0
24-Feb-23	18:00	Sunny	52.0
		Average	57.9
		Maximum	115.2
		Minimum	28.5





- 1. The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2. The weather conditions during the reporting month are presented in Appendix C.
- 3. Other factors which might affect the monitoring results are presented in Section 2.18.

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

Graphical Presentation of 1-hour TSP Monitoring Results

Scale

N.T.S

Project
No. MA20003

Date
Feb-23

Feb-23

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

Start Date	art Date Weather Filter Weight (g)		eight (g)	Particulate	Particulate Elapse Time		Sampling	Sampling Flow Rate (m³/min.)		Av. flow	Total vol.	Conc.
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m³)	(µg/m³)
1-Feb-23	Fine	3.3423	3.4909	0.1486	11346.6	11370.6	24.0	1.22	1.22	1.22	1754.0	84.7
7-Feb-23	Fine	3.3299	3.4799	0.1500	11370.6	11394.6	24.0	1.22	1.22	1.22	1753.3	85.6
13-Feb-23	Cloudy	3.3378	3.5382	0.2004	11394.6	11418.6	24.0	1.21	1.22	1.22	1752.0	114.4
17-Feb-23	Fine	3.3588	3.4395	0.0807	11394.6	11418.6	24.0	1.22	1.22	1.22	1755.7	46.0
23-Feb-23	Sunny	3.3664	3.5644	0.1980	11418.6	11442.6	24.0	1.22	1.22	1.22	1757.1	112.7
											Min	46.0
											Max	114.4
											Average	88.7

Location AM2 - Sai Tso Wan Recreation Ground

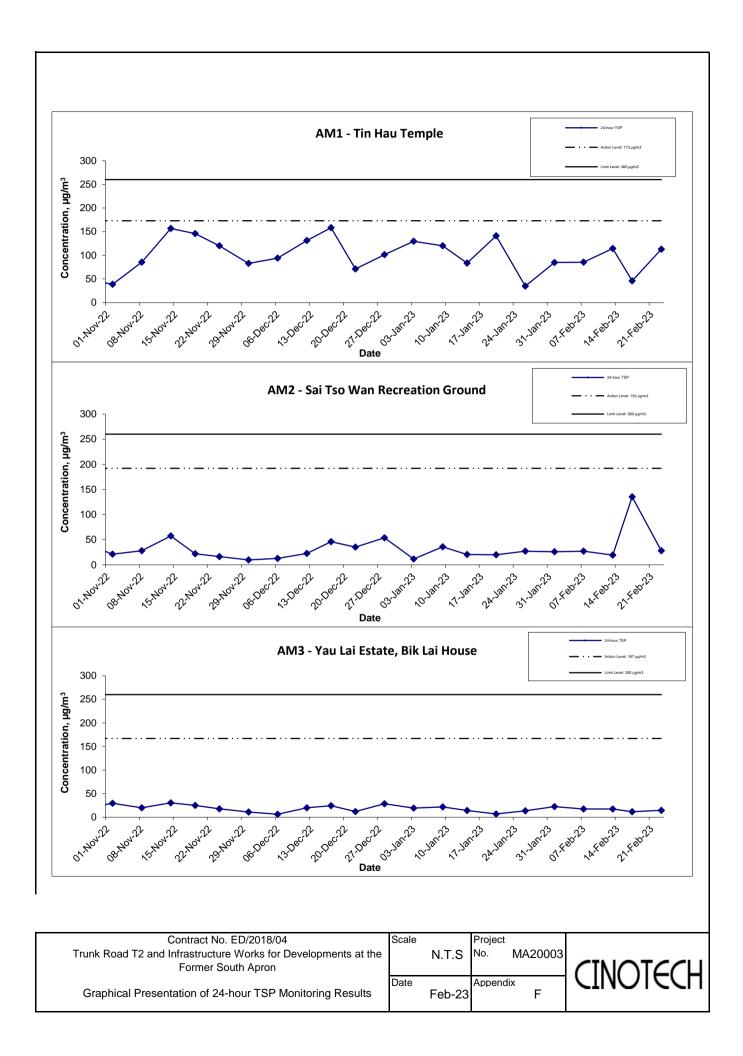
Start Date	Weather Filter Weight (g)		Particulate Elapse Time		Sampling Flow Rate (m³/min.)			Av. flow	Total vol.	Conc.		
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
1-Feb-23	Sunny	3.3360	3.3814	0.0454	32392.7	32416.7	24.0	1.22	1.22	1.22	1755.2	25.9
7-Feb-23	Fine	3.3721	3.4193	0.0472	32416.7	32440.7	24.0	1.22	1.22	1.22	1754.4	26.9
13-Feb-23	Fine	3.3256	3.3595	0.0339	32440.7	32464.7	24.0	1.21	1.22	1.22	1750.8	19.4
17-Feb-23	Fine	3.3310	3.5683	0.2373	32464.7	32488.7	24.0	1.22	1.22	1.22	1755.2	135.2
23-Feb-23	Sunny	3.3105	3.3594	0.0489	32488.7	32512.7	24.0	1.22	1.22	1.22	1756.8	27.8
											Min	19.4
											Max	135.2
											Average	47.0

Location AM3 - Yau Lai Estate, Bik Lai House

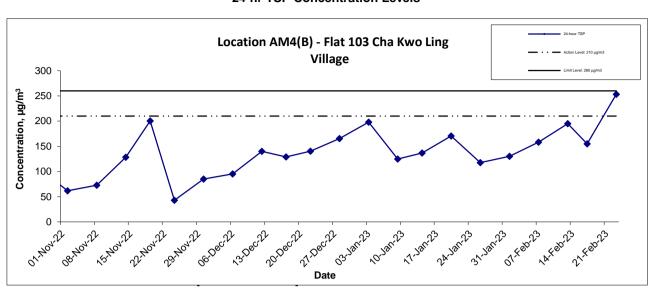
Start Date	Weather	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Flow Rate (m³/min.)		Av. flow	Total vol.	Conc.
Otant Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
1-Feb-23	Fine	3.3028	3.3423	0.0395	6642.1	6666.1	24.0	1.22	1.22	1.22	1755.0	22.5
7-Feb-23	Cloudy	3.3387	3.3693	0.0306	6666.1	6690.1	24.0	1.22	1.22	1.22	1754.2	17.4
13-Feb-23	Fine	3.3339	3.3643	0.0304	6690.1	6714.1	24.0	1.21	1.22	1.22	1749.8	17.4
17-Feb-23	Fine	3.3054	3.3255	0.0201	6714.1	6738.1	24.0	1.22	1.22	1.22	1754.3	11.5
23-Feb-23	Sunny	3.3416	3.3667	0.0251	6738.1	6762.1	24.0	1.22	1.22	1.22	1756.0	14.3
											Min	11.5
											Max	22.5
											Average	16.6

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

Start Date	Weather Filter Weight (g)		Particulate	culate Elapse Time		Sampling	Flow Rat	e (m³/min.)	Av. flow	Total vol.	Conc.	
Start Date	Condition	Initial	Final	Weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m³/min)	(m ³)	(µg/m³)
1-Feb-23	Sunny	3.3238	3.5509	0.2271	17695.2	17719.2	24.0	1.21	1.21	1.21	1745.9	130.1
7-Feb-23	Sunny	3.3762	3.6524	0.2762	17719.2	17743.2	24.0	1.21	1.21	1.21	1745.2	158.3
13-Feb-23	Fine	3.3697	3.7096	0.3399	17743.2	17767.2	24.0	1.21	1.22	1.21	1743.5	195.0
17-Feb-23	Fine	3.3027	3.5737	0.2710	17767.2	17791.2	24.0	1.22	1.21	1.21	1747.5	155.1
23-Feb-23	Sunny	3.3527	3.7957	0.4430	17839.2	17863.2	24.0	1.22	1.21	1.21	1749.0	253.3
											Min	130.1
											Max	253.3
											Average	178.3



24-hr TSP Concentration Levels



Notes:

- 1) The major activitie(s) being carried out on site during the reporting period is/are presented in Section 1.10
- 2) The weather conditions during the reporting month are presented in Appendix C.
- 3) Other factors which might affect the monitoring results are presented in Section 2.18.

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

Graphical Presentation of 24-hour TSP Monitoring Results



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

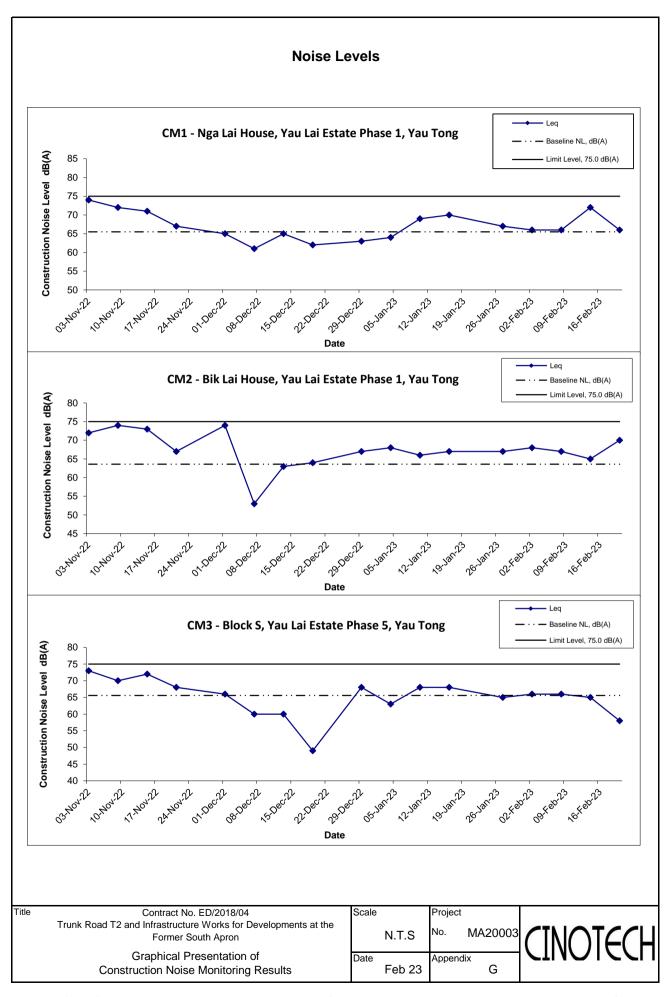
Location CM1 -	ocation CM1 - Nga Lai House, Yau Lai Estate Phase 1, Yau Tong									
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Construction Noise Level					
Dute	Time	Wedner	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
2 Feb 2023	13:27	Sunny	68.9	70.0	67.6	65.5	66			
8 Feb 2023	11:34	Cloudy	68.8	69.9	67.5	65.5	66			
14 Feb 2023	17:24	Fine	72.7	74.7	70.5	65.5	72			
20 Feb 2023	12:09	Fine	68.6	69.7	67.1	65.5	66			

Location CM2 -	Location CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong										
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Construction Noise Level						
Buto	11110	Wodinor	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}				
2 Feb 2023	10:45	Sunny	69.5	70.8	68.1	63.6	68				
8 Feb 2023	10:53	Cloudy	68.8	69.9	67.7	63.6	67				
14 Feb 2023	15:58	Fine	67.6	69.6	63.8	63.6	65				
20 Feb 2023	12:55	Fine	70.6	73.6	66.6	63.6	70				

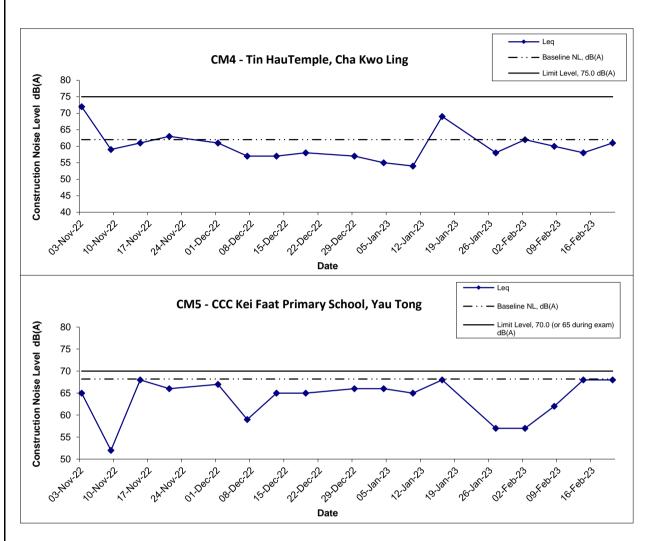
Location CM3 -	Location CM3 - Block S, Yau Lai Estate Phase 5, Yau Tong									
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise	Baseline Level	Construction Noise Level				
Date	11110	Wodinor	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
2 Feb 2023	10:00	Sunny	69.0	70.2	67.7	65.6	66			
8 Feb 2023	10:17	Cloudy	68.7	70.5	66.9	65.6	66			
14 Feb 2023	15:03	Fine	68.4	69.4	67.1	65.6	65			
20 Feb 2023	11:17	Fine	66.3	68.0	60.5	65.6	58			

Location CM4 -	Location CM4 - Tin Hau Temple, Cha Kwo Ling									
			Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Level	Baseline Level	Construction Noise Level			
Baio	11110	Wodinor								
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
2 Feb 2023	13:44	Sunny	61.6	62.1	54.6	62.0	62 Measured ≤ Baseline			
8 Feb 2023	13:34	Fine	59.5	62.2	54.7	62.0	60 Measured ≤ Baseline			
14 Feb 2023	11:30	Fine	57.8	60.4	51.1	62.0	58 Measured ≤ Baseline			
20 Feb 2023	14:42	Fine	60.9 63.9 55.2 62.0 61 Measured ≤ Baseline				61 Measured ≤ Baseline			

Location CM5 -	ocation CM5 - CCC Kei Faat Primary School, Yau Tong										
				Unit: dB (A) (30-min)							
Date	Time	Weather	Meas	sured Noise I	Baseline Level	Construction Noise Level					
Date	Time		L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}				
2 Feb 2023	9:15	Fine	68.5	70.8	64.3	68.2	57				
8 Feb 2023	9:25	Cloudy	69.2	71.6	65.2	68.2	62				
14 Feb 2023	10:30	Fine	68.1	71.0	56.0	68.2	68 Measured ≤ Baseline				
20 Feb 2023	13:42	Fine	68.1 70.1 64.5 68.2 68 Measured ≦ Ba		68 Measured ≤ Baseline						



Noise Levels



Notes:

Title

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

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

Graphical Presentation of Construction Noise Monitoring Results

Scale

N.T.S

No. MA20003

Date
Feb 23

Appendix
Feb 23

APPENDIX H
WASTE GENERATION IN THE
REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2023 (CKL)

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

	Actua	al Quantities	of Inert C&D	Materials G	nthly	Actual Quantities of C&D Wastes Generated Monthly					
Month	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
January	1.520	1.520	0.000	1.520	0.000	0.000	0.000	0.000	0.000	0.000	0.016
February	1.147	1.147	0.000	1.147	0.000	0.000	0.000	0.000	0.000	0.000	0.014
March											
April											
May											
June											
Sub-total	2.667	2.667	0.000	2.667	0.000	0.000	0.000	0.000	0.000	0.000	0.030
July											
August											
September											
October											
November											
December						_					
Total	2.667	2.667	0.000	2.667	0.000	0.000	0.000	0.000	0.000	0.000	0.030

Monthly Summary Waste Flow Table

Notes:

- (1) The performance targets are given in ER Appendix 8I Clause 14 and the EM&A Manual(s).
- (2)The waste flow table shall also include C&D materials to be imported for use at the Site.
- (3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
- (4)The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m3. (ER Part 8 Clause 8.8.5 (d) (ii) refers).

APPENDIX I SITE AUDIT SUMMARY

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

Checklist Reference Number	230202
Date	2 February 2023 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:230126), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Alex NG	M	2 February 2023
Checked by	Karina Chan	Zalle	3 February 2023

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

Checklist Reference Number	230209
Date	9 February 2023 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
230209- R1	• Stockpile of dusty material were observed inside the tunnel, they should be removed when not in used.	C9
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:230202), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Alex NG	Mr	9 February 2023
Checked by	Karina Chan	Zall	10 February 2023

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

Checklist Reference Number	230216
Date	16 February 2023 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
230216-R1	• The contractor should install the water pump to remove the water ponding in the west ventilation building.	B9
	C. Air Quality	
	No environmental deficiency was identified during site inspection.	
	D. Construction Noise Impact	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:230209), no major environmental deficiency was identified.	

	Name	Signature	Date
Recorded by	Alex NG	Mr	16 February 2023
Checked by	Karina Chan	Zalle	17 February 2023

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

Checklist Reference Number	230223
Date	23 February 2023 (Thursday)
Time	09:20 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	No environmental deficiency was identified during site inspection.	
	C. Air Quality	
230223-R1	• The NRMM label display on the machinery is unclear, the contractor should replace with the new	C21
230223-K1	one.	
	D. Construction Noise Impact	
	 No environmental deficiency was identified during site inspection. 	
	No environmental deficiency was identified during site inspection.	
	E. Waste/Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	No environmental deficiency was identified during site inspection.	
	G. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	H. Marine Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow up on the previous session (Ref No.:230216), no major environmental deficiency was	
	identified.	

	Name	Signature	Date
Recorded by	Alex NG	Mr	23 February 2023
Checked by	Karina Chan	Zalle	24 February 2023

APPENDIX J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

App J - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

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

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Air Quality						
S3.8.1	Watering eight times a day on active works areas, exposed areas and paved haul roads	To minimize the dust impact	Contractor	All Active Work Sites	Construction phase	APCO
S3.8.1	Enclosing the unloading process at barging point by a 3-sided screen with top tipping hall / mixing area in Work Area A, provision of water spraying and flexible dust curtains	To minimize the dust impact	Contractor	Barging Points	Construction phase	APCO
S3.8.7	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Use of frequent watering for particularly dusty construction areas and areas close to ASRs Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles on site haul roads. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Instigation of an environmental monitoring and auditing program to monitor the construction process in order to enforce controls and modify method of work if dusty conditions arise.	To minimize the dust impact	Contractor	All Construction Work Sites	Construction phase	APCO and Air Pollution Control (Construction Dust) Regulation
/	Emission from Vehicles and Plants All vehicles shall be shut down in intermittent use. Only well-maintained plant should be operated on-site and plant should be serviced regularly to avoid emission of black smoke. All diesel fuelled construction plant within the works areas shall be powered by ultra low sulphur diesel fuel (ULSD)	Reduce air pollution emission from construction vehicles and plants	Contractor	All construction sites	Construction stage	APCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
	Valid No-road Mobile Machinery (NRMM) labels should be provided to regulated machines	Reduce air pollution emission from construction vehicles and plants				APCO
Noise Mitigation Plan	Use of Temporary Noise Barriers (i.e Acoustic box, SilentUp and etc.) or Full Enclosure for PME according to the approved Noise Mitigation Plan	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work Sites	Construction phase	EIAO-TM, NCO
\$4.9	Good Site Practice Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. Mobile plant, if any, should be sited as far away from NSRs as possible. Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum. Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.	To minimize construction noise impact arising from the Project at the affected NSRs	Project Proponent	Work sites	Construction Period	EIAO-TM, NCO
S4.9	Scheduling of Construction Works during School Examination Period	To minimize construction noise impact arising from the Project at the affected NSRs	Contractor	Work site near school	Construction phase	EIAO-TM, NCO
Water Quality Imp	act (Construction Phase)	=		-	-	
S5.6.24	The dry density of filling material for the TKO-LT Tunnel reclamation should be 1.900kg/m³, with fine content of 25% or less	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.1	Non-dredged method by constructing steel cellular caisson structure with stone column shall be adopted for construction of seawall foundation. During the stone column installation (also including the installation of steel cellular caisson), silt curtain shall be employed around the active stone column installation points.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.2	Formation of seawall enclosing the reclamation for Road P2 (notwithstanding an opening of about 50m for marine access) shall be completed prior to the filling activities. The seawall opening of about 50m wide for marine access shall be selected at a location as indicatively shown in Appendix 5.10. No more than 3 filling barge trips per day shall be made with a maximum daily rate of 3,000m ³ (i.e. 1,000 m ³ per trip) for the filling operation at the reclamation area for Road P2. All filling works shall be carried out behind the seawall with the use of single silt curtain at the marine access.	Control potential impacts from filling activities	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
Silt Curtain Deployment Plan	Silt curtains should be deployed properly to surround the works area. Maintenance of silt curtain should be provided. Sufficient stock of silt curtain should be provided on site.	Control potential impacts from marine woroks	Contractor	NE/2015/01	Construction stage	EIAO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
\$5.8.3	Other good site practices should be undertaken during filling operations include: all marine works should adopt the environmental friendly construction methods as far as practically possible including the use of cofferdams to cover the construction area to separate the construction works from the sea: floating single silt curtain shall be employed for all marine works; all tressels should be sized so that adequate cleanace 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 fixed with tight fitting seals to their bottom openines to prevent leakage of material: excess material shall be cleaned from the decks and exposed fittings of barges before the vessel is moved; adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action: loading of barges and hoppers should be controlled to prevent splashing of filling material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loadine or transportation: any pipe leakages shall be repaired quickly. Plant should not be operated with leaking pipes; construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site or dumping grounds; and before commencement of the reclamation works, the holder of Environmental Permit has to submit plans showing the phased construction of the	Control potential impacts from filling activities and marine-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, Waste Disposal Ordinance (WDO)
S5.8.4	reclamation, design and operation of the silt curtain. Site specific mitigation plan for reclamation areas using public fill materials should be submitted for EPD agreement before commencement of construction phase with due consideration of good site practices.	Control potential impacts from filling activities and marine based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
ERR \$5.6.1	To minimize water quality impact arising from the dredging and filling works for Reclamation for Road P2, the following mitigation measures shall be implemented: - Before carrying out any dredging and underwater filling works, a temporary barrier shall first be constructed to a height above the high water mark to completely enclose the works site (without any opening at the barrier wall) - The temporary barrier fully enclosing the dredging and underwater filling works site shall not be removed before completion of all dredging and underwater filling works. - Water quality sampling and testing shall be carried out to demonstrate that the water quality inside the enclosed barrier is comparable to the ambient or baseline levels prior to the removal of the fully enclosed barrier. - Silt curtains shall be deployed for the installation and removal of the temporary barrier and at the double water gates marine access opening during its operation.	Control potential impacts from dredging and filling works for Reclamation for Road P2	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.5	It is important that appropriate measures are implemented to control runoff and drainage and prevent high loading of SS from entering the marine environment. Proper site management is essential to minimise surface water runoff, soil erosion and sewage effluents.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.6	Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to ensure adequate hydraulic capacity of all drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.7	Construction site runoff and drainage should be prevented or minimised in accordance with the guidelines stipulated in the EPD's Practice Note for Professional Persons, Construction Site Drainage (ProPECC PN 194). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCZ mader the TM-DSS.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS
\$5.8.8 \$5.8.8 \$5.8.8	Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and crosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include: use of sediment traps; and adequate maintenance of drainage systems to prevent flooding and	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.9	overflow. Construction site should be provided with adequately designed perimeter channel and pretreatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or trags and baffles to enhance deposition rates. The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of POPFECC PN 194	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.10	Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.11	Sedimentation tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m ³ capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to anolications where the influent is punned.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.12	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.13	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.14	Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50m ² should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.15	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.16	Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarised in Appendix A2 of ProFECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S5.8.17	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.18	All whicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and washwater should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheelwash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.19	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to ensure that these facilities are functioning properly at all times.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.20	It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There shall be no direct discharge of effluent from the site into the sea.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.21	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequatedy designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.22	All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.23	Minimum distances of 100m shall be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes during construction and operational phases	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, TMDSS
\$5.8.24	Under normal circumstances, groundwater pumped out of wells, etc. for the lowering of ground water level in basement or foundation construction, and groundwater seepage pumped out of tunnels or caverns under construction should be discharged into storm drains after the removal of slit in silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.25 - \$5.8.27 & Table 5.18	During the tunnel excavation, the inflow rate of groundwater into the tunnel will be measured during the excavation. The groundwater levels above the tunnel will also be monitored by piezometers. If the inflow rate exceeds the pre-determined groundwater control criteria or the groundwater drawdown exceeds the required limit, pre-excavation grouting will be required to reduce the groundwater inflow. No significant change of groundwater levels would therefore be expected. Any chemicals/ foaming agents which would be entrained to the groundwater should be biodegradable and non-toxic throughout the tunnel construction. Potential groundwater quality impact would be minimal as the used material is non-toxic and biodegradable. No adverse groundwater quality would therefore be expected. Prescriptive measures in the form of an Action Plan with pre-emptive and re-active to preserve the groundwater levels at all times during the tunnel construction	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO, Buildings Ordinance
S5.8.28	Water used in ground boring and drilling for site investigation or rock / soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phas	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.29 - S5.8.31	Wastewater generated from the washing down of mixing trucks and drum mixers and similar equipment should whenever practicable be recycled. The discharge of wastewater should be kept to a minimum. To prevent pollution from wastewater overflow, the pump sump of any water recycling system should be provided with an online standby pump of adequate capacity and with automatic alternating devices. Under normal circumstances, surplus wastewater may be discharged into foul sewers after treatment in silt removal and pH adjustment facilities (to within the pH range of 6 to 10). Disposal of wastewater into storm drains will require more delborate treatment.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.32	All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site exit if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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\$5.8.33	Bentonite slurries used in diaphragm wall and borepile construction should be reconditioned and reused wherever practicable. If the disposal of a certain residual quantity cannot be avoided, the used surry may be disposed of at the marine spoil grounds subject to obtaining a marine dumping licence from EPD on a case-by-case basis.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.34	If the used bentonite slurry is intended to be disposed of through the public drainage system, it should be treated to the respective effluent standards applicable to foul sewer, storm drains or the receiving waters as set out in the WPCO Technical Memorandum on Effluent Standards.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.35	Water used in water testing to check leakage of structures and pipes should be reused for other purposes as far as practicable. Surplus unpolluted water could be discharged into storm drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.36	Sterilization is commonly accomplished by chlorination. Specific advice from EPD should be sought during the design stage of the works with regard to the disposal of the sterilizing water. The sterilizing water should be reused wherever practicable.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Design Stage and Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.37	Before commencing any demolition works, all sewer and drainage connections should be sealed to prevent building debris, soil, sand etc. from entering public sewers/drains.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.38	Wastewater generated from building construction activities including concreting, plastering, internal decoration, cleaning of works and similar activities should not be discharged into the stormwater drainage system. If the wastewater is to be discharged into foul sewers, it should undergo the removal of settleable solids in a silt removal facility, and pH adjustment as necessary	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.39	Acidic wastewater generated from acid cleaning, etching, pickling and similar activities should be neutralized to within the pH range of 6 to 10 before discharging into foul sewers. If there is no public foul sewer in the vicinity, the neutralized wastewater should be tinkered off site for disposal into foul sewers or treated to a standard acceptable to storm drains and the receiving waters	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO

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S5.8.40	Wastewater collected from canteen kitchens, including that from basins, sinks and floor drains, should be discharged into foul sewer via grease traps capable of providing at least 20 minutes retention during peak flow.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.41	Drainage serving an open oil filling point should be connected to storm drains via a petrol interceptor with peak storm bypass.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
S5.8.42	Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should as far as possible be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. Oil leakage or spillage should be contained and cleaned up immediately. Waste oil should be collected and stored for recycling or disposal in accordance with the Waste Disposal Ordinance.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.43	Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets shall be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor shall also be responsible for waste disposal and maintenance practices.	Control potential impacts from construction site runoff and land-based construction	CEDD's Contractors	Work site	Construction Phase	ProPECC PN 1/94, EIAOTM, WPCO
\$5.8.44	Contractor must register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General Regulation should be observed and complied with for control of chemical wastes.)	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
\$5.8.45	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO
\$5.8.46	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes" published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport: • chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and • storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.	Control potential impacts from accidental spillage of chemicals	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO, WDO
S5.8.47	Collection and removal of floating refuse should be performed at regular intervals on a daily basis. The contractor should be responsible for keeping the water within the site boundary and the neighbouring water free from rubbish.	Control potential impacts from floating refuse and debris	CEDD's Contractors	Work site	Construction Phase	EIAO-TM, WPCO,
Ecological Impact						
S6.8.4	Measures to Minimize Disturbance Use of Quiet Mechanical Plant during the construction phase should be adopted wherever possible. Hoarding or fencing should be erected around the works area boundaries during the construction phase. The hoarding would screen adjacent habitats from construction phase civities, reduce noise disturbance to these habitats and also to restrict access to habitats adjacent to works areas by site workers: Regular spraying of haul roads to minimize impacts of dust deposition on adjacent vegetation and habitats during the construction activities	Minimize noise, human and traffic disturbance to terrestrial habitat and wildlife; and reduce dust generation	Design Team / Contractor	Land-based works are	Construction Phase	N/A

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\$6.8.5	Standard Good Site Practice Placement of equipment or stockpile in designated works areas and access routes selected on existing disturbed land to minimise disturbance to natural habitrars Construction activities should be restricted to works areas that should be clearly demarcated. The works areas should be reinstated after completion of the works. Waste skips should be provided to collect general refuse and construction wastes. The wastes should be properly disposed off-site in a timely manner. General drainage arrangements should include sediment and oil traps to collect and control construction site run-off. Open burning on works sites is illegal, and should be strictly prohibited. Measures should also be put into place so that litter, fuel and solvents do not enter the nearby watercourses.	Reduce disturbance to surrounding habitats	Contractor	Land-based works are	Construction Phase	N/A
S6.8.6	Measure to Minimize Groundwater Inflow • The drained tunnel construction method with groundwater inflow control measures would generally be adopted. • During the tunnel excavation, pre-excavation grouting could be adopted to reduce the groundwater inflow and ensure that the tunnel would meet the long term water tightness requirements.	Minimize groundwater inflow	Contractor	Tunnel	Construction Phase	N/A
\$6.8.8	Measure to Minimize Impact on Corals Coral translocation • It is recommended to translocate the affected coral colonies, except the locally common Oulastrea crispata, within the reclamation area and bridge footprint to the other suitable locations as far as practicable. • The coral translocation should be conducted during the winter months (November-March) in order to avoid disturbance during their spawning period (i.e. July to October). • A detailed coral translocation plan with a description on the methodology for pretranslocation coral survey, translocation methodology, identification/proposal of coral recipient site, monitoring methodology for post pretranslocation and produced by the prepared during the detailed design stage. • The coral translocation plan should be subject to approval by relevant authorities (e.g. EPD and AFCD) before commencement of the coral translocation. All the translocation exercises should be conducted by experienced marine ecologist(s) who is/are approved by AFCD prior to commencement of coral translocation. Monitoring • A coral monitoring programme is recommended to assess any adverse and unacceptable impacts to the translocated coral communities • Information gathered during each posttranslocation monitoring survey should include observations on the presence, survival, health condition and growth of the translocated coral colonies. These parameters should then be compared with the baseline results collected from the pre-translocation survey.	Minimize loss of coral	Design team, contractor, project operator	Within reclamation areas and pier footprint	Prior construction	N/A

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\$6.8.9 \$6.8.10	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area. Diverting of the site runoff to silt trap facilities before discharging into storm drain; Proper waste and dumping management; and Standard good-site practice for land-based construction.	Control water quality impact, especially on suspended solid level; minimize the contamination of wastewater discharge, accidental chemical spillage and construction site runoff to the receiving water bodies	Design Team, contractor	Marine and landbased works area	Construction phase	wqo
\$6.8.11	Compensation for Vegetation Loss • Felling of mature trees should be compensated by planting of standard or heavy standard trees within or in vicinity of the affected area as far as practicable. Such compensatory planting for trees should be provided with at least a 1:1 ratio. In addition, vegetation at the temporarily affected area should be reinstated with species similar to the existing condition.	Compensate for the vegetation loss	Design Team, contractor	Land-based works area	Construction phase	N/A
Fisheries Impact						
87.7.3	Measure to Control Water Quality Impact Deployment of silt curtains around the active stone column installation points, opening of newly installed seawall and marine works area.	Control water quality impact, especially on suspended solid level	Design Team / Contractor	Marine work area	Construction phase	wqo
Waste Managemen	t (Construction Phase)		•	•	•	
\$8.6.3	One Site Practices and Waste Reduction Measures Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; Training of site personnel in site cleanliness, proper waste management and chemical handling procedures; Provision of sufficient waste disposal points and regular collection of waster of the propriate measures to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; and Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors.	To reduce waste management impacts	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$8.6.4	Good Site Practices and Waste Reduction Measures (con't) • Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Encourage collection of aluminium cans by providing separate labelled bins to enable this waste to be segregated from other general refuse generated by the workforce; • Proper storage and site practices to minimize the potential for damage or contamination of construction materials; and • Plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste.	To achieve waste reduction	Contractor	All work sites	Construction Phase	Waste Disposal Ordinance (Cap. 354) Land (Miscellaneous Provisions) Ordinance (Cap. 28)
\$8.6.5	Good Site Practices and Waste Reduction Measures (con't) The Contractor shall prepare and implement a WMP as part of the EMP in accordance with ETWB TCW No. 19/2005 which describes the arrangements for avoidance, reuse, recovery, recycling, storage, collection, treatment and disposal of different categories of waste to be generated from the construction activities. Such a management plan should incorporate site specific factors, such as the designation of areas for segregation and temporary storage of reusable and recyclable materials. The EMP should be submitted to the Engineer for approval. The Contractor should implement the waste management practices in the EMP throughout the construction stage of the Project. The EMP should be reviewed regularly and updated by the Contractor.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005

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\$8.6.6	Good Site Practices and Waste Reduction Measures (con't) C&D materials would be reused in the project and other local concurrent projects as far as possible.	To achieve waste reduction	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.7	Storage, Collection and Transportation of Waste Should any temporary storage or stockpiling of waste is required, recommendations to minimize the impacts include: Waste, such as soil, should be handled and stored well to ensure secure containment, thus minimizing the potential of pollution; Maintain and clean storage areas routinely; Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; and Different locations should be designated to stockpile each material to enhance reuse.	To minimize potential adverse environmental impacts arising from waste storage	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.8/ Waste Management Plan	Storage, Collection and Transportation of Waste (con't) Remove waste in timely manner; Waste collectors should only collect wastes prescribed by their permits; Impacts during transportation, such as dust and odour, should be mitigated by the use of covered trucks or in enclosed containers; Obtain relevant waste disposal permits from the appropriate authorities, in accordance with the Waste Disposal of Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28); Waste should be disposed of at licensed waste disposal facilities/ alternative disposal ground approved by RE and DEP; and Maintain records of quantities of waste generated, recycled and disposed.	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	ETWB TCW No. 19/2005
S8.6.9/ Waste Management Plan	Storage, Collection and Transportation of Waste (con't) Implementation of trip ticket system with reference to DEVB TC(W) No. 6/2010. Trip Ticket System for Disposal of Construction & Demolition Materials, to monitor disposal of waste and to control fly-tipping at PFRFs or landfills. A recording system for the amount of waste generated, recycled and disposed	To minimize potential adverse environmental impacts arising from waste collection and disposal	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010
S8.6.11 - S8.6.13/ Waste Management Plan	(including disposal sites) should be proposed. Sorting of C&D Materials Sorting to be performed to recover the inert materials, reusable and recyclable materials before disposal off-site. Specific areas shall be provided by the Contractors for sorting and to provide temporary storage areas for the sorted materials. The C&D materials should at least be segregated into inert and non-inert materials, in which the inert portion could be reused and recycled in the reclamation as far as practicable before delivery to PFRFs. While opportunities for reusing the non-inert portion should be investigated before disposal of at designated landfills.	To minimize potential adverse environmental	Contractor	All work sites	Construction Phase	DEVB TCW No. 6/2010 ETWB TCW No. 33/2002 ETWB TCW No. 19/2005
S8.6.17 – S8.6.20	Sediments (con't) Requirements of the Air Pollution Control (Construction Dust) Regulation, where relevant, shall be adhered to during boring, excavation, transportation and disposal of sediments or cement stabilization of sediment. A treatment area should be confined for carrying out the cement stabilization mixing and temporary stockpile. The area should be designed to prevent leachate from entering the ground. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). In order to minimise the potential odour / dust emissions during boring, excavation and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges/trucks. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. In order to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities should also be provided on six	To determine the best handling and treatment of sediment	Contractor	All works areas with sediments concern	Construction Phase	ETWB TCW No. 19/2005

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S8.6.24 - S8.6.28/ Waste Management Plan	Sediments (con¹) • The excavated sediments is expected to be loaded onto the barge and transported to the designated disposal sites allocated by the MFC. The excavated sediment would be disposed of according to its determined disposal options and ETWB TC(W) No. 34/2002. • Stockpiling of contaminated sediments should be avoided as far as possible. If temporary stockpiling of contaminated sediments is necessary, the excavated sediment should be covered by tarpaulin and the area should be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and surrounding water bodies. The stockpiling areas should be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas should be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, should be collected and discharged according to the Water Pollution Control Ordinance (WPCO). • In order to minimise the potential odour / dust emissions during boring and transportation of the sediment, the excavated sediments should be kept wet during excavation/boring and should be properly covered when placed on barges. Loading of the excavated sediment to the barge should be controlled to avoid splashing and overflowing of the sediment shurry to the surrounding water. • The barge transporting the sediment shurry to the surrounding water. • The barge transporting the sediment shurry to the surrounding water. • The barge transporting the sediment shurry to the barge loading should not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. In addition, monitoring of the barge loading shall be conducted to minimise the exposure to contaminated materials, workers should, when necessary, wear appropriate personal protective equipments (PPE) when	To ensure handling of sediments are in accordance to statutory requirements	Contractor	All works areas with sediments concern	Construction Phase	ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance
S8.6.26/ Waste Management Plan	Chemical Wastes. • If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.	To ensure proper management of chemical waste	Contractor	All works sites	Construction Phase	Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
S8.6.27/ Waste Management Plan	General Refuse • General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce	To ensure proper management of general refuse	Contractor	All works sites	Construction Phase	Public Health and Municipal Services Ordinance (Cap. 132)
Impact on Cultural	the occurrence of wind blown' light material. Heritage (Construction Phase)				<u> </u>	
	Dust and visual impacts			I	1	
\$9.6.4	Temporarily fenced off buffer zone with allowance for public access (minimum I m) should be provided: The open yard in front of the temple should be kept as usual for annual Tin Hau festival; Monitoring of vibration impacts should be conducted when the construction works are less than 100m from the temple.	To prevent dust and visual impacts	Contractors	Work areas	Construction Phase	EIAO; GCHIA; AMO
S9.6.4	Indirect vibration impact Vibration level is suggest to be controlled within a peak particle velocity (ppv) limit of 5mm/s measured inside the historical buildings; Monitoring of vibration should be carried out during construction phase. Tilting and settlement monitoring should will be applied on the Cha Kwo Ling Tin Hau Temple as well. A proposal with details for the mitigation measures and monitoring of impacts on built heritage shall be submitted to AMO for comments before commencement of work.	To prevent indirect vibration impact	Contractors	Work areas	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Built Heritage Mitigation Plan	Established Alert, Alarm and Action Level for the monitoring parameters. To increase the instrumentation monitoring and reporting frequency. To propose detailed action plan or contingency plan for the Engineer's approval when AAA Level is reached or exceeded.	To prevent vibration impacts	NE/2015/01	Tin Hau Temple	Construction Phase	Vibration Limits on Heritage Buildings by CEDD; GCHIA; AMO.
Landscape and Vis	nal Impact (Construction Phase)					
Table 10.8.1/ Landscape Mitigation Plan	CM1 - Construction area and contractor's temporary works areas to be minimised to avoid impacts on adjacent landscape.	Avoid impact on adjacent landscape areas	CEDD (via Contractor)	General	Construction planning and during construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM2 - Reduction of construction period to practical minimum.	Minimise duration of impact	CEDD (via Contractor)	N/A	Construction planning	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM3 - Topsoil, where the soil material meets acceptable criteria and where practical, to be stripped and stored for re-use in the construction of the soft landscape works. The Contract Specification shall include storage and reuse of topsoil as appropriate.	To allow re-use of topsoil	CEDD (via Contractor)	General	Site clearance	As per the Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM4 - Existing trees at boundary of site and retained trees within site boundary to be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification, under which the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. (Tree protection measures will be detailed at Tree Removal Application stage).	To minimize tree loss	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance and throughout construction period	ETWB TC 3/2006 and as per tree protection measures in Particular Specification

EIA Ref. / EP Submission	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	What requirements or standards for the measures to achieve?
Table 10.8.1/ Landscape Mitigation Plan	CMS - Trees unavoidably affected by the works shall be transplanted where practicable. Where possible, trees should be transplanted direct to permanent locations rather than temporary holding nurseries. A detailed tree transplanting specification shall be provided in the Contract Specification and sufficient time for preparation shall be allowed in the construction programme.	To maximize preservation of existing trees	CEDD (via Contractor)	As per approved Tree Removal Application(s)	Site clearance	ETWB TC 3/2006 and as per tree protection measures in Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM6 - Advance screen planting of fast growing tree and shrub species to noise barriers and hoardings. Trees shall be capable of reaching a height >10m within 10 years.	To maximize screening of the works	CEDD (via Contractor)	At Lam Tin Interchange and edge of Road P2 landscape deck, TKO	Beginning of construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM7 - Hydroseeding or sheeting of soil stockpiles with visually unobtrusive material	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	As per Particular Specification
Table 10.8.1/ Landscape Mitigation Plan	CM8 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	To reduce visual intrusion	CEDD (via Contractor)	General	Throughout construction period	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM9 - Screening of works areas with hoardings with appropriate colours compatible with the surrounding area	Reduction of visual intrusion	CEDD (via Contractor)	Project site Boundary	Excretion of site hoarding	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM10 - Avoidance of excessive height and bulk of site buildings and structure	Reduction of visual intrusion and integration with environment	CEDD (via Contractor)	Built structures	Design and construction stage	N/A
Table 10.8.1/ Landscape Mitigation Plan	CM11 - Limitation of run-off into freshwater streams, ponds and sea areas	Avoidance of contamination of water courses and water bodie	CEDD (via Contractor)	TKO reclamation, TKO tunnel portal, Cha Kwo Ling roadworks	Throughout construction period	N/A
Table 10.8.1	CM12 - Minimise area of reclamation and design the edges sensitively to tie in with adjacent coastline characte	Minimise loss of Junk Bay and integration with existing coastlin	CEDD (via Contractor)	Temporary reclamation for barging points at TKO and Lam Tin and permanent reclamation for TKO Interchange slip roads and Road P2	Construction planning and reclamation stages	N/A
Landfill Gas Hazar	d (Design and Construction Phase)					
S11.5.9	A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below:	Protect the workers from landfill gas hazards	Contractor	Project sites within the Sai Tso Wan Landfill	Construction phase	EPD's Landfill Gas Hazard Assessment
	Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21%			Consultation Zone		Guidance Note

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

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

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

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

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

Follow up action will be reported in next reporting month

* Non-compliance of mitigation measure

· Non-compliance but improved by the contractor

EIA Ref	Recommended Mitigation Measures	Details of Reminder/Observation	Recorded Date	Status
Air Quality				
S3.8.7	The contractor should removed the stockpile of dusty materials.	The stockpile of dusty material were observed inside the tunnel, they should be removed when not in used.	9 Feb 2023	✓
	The valid NRMM label should be displaced on the PME.	The NRMM label display on the machinery is unclear.	23 Feb 2023	#
Construction	Noise Impact			
Water Quali	ty Impact			
S5.8.29 - S5.8.31	Water pump should be installed to remove the stagnant water	The stagnant water is observed and they should pump immediately.	16 Feb 2023	~
Ecological In	npact			
Fisheries Im	pact			,
Waste Mana	gement			
	Drip tray should be provided for the chemical / oil container to prevent leakage.	No drip tray is provided for the chemical / oil container.	26 Jan 2023	✓
Landscape a	nd Visual Impact			
			-	
Landfill Gas	Hazards			

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

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

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

5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented;
6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;
7. Assess effectiveness of Contractor's remedial actions and

keep IEC, EPD and ER informed

If exceedance stops, cease additional monitoring.

of the results;

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

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

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

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

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

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

Reporting Month: February 2023

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

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

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

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

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

Table M2 Cumulative Log for Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint #N02	Portion T1	10-Oct- 2020	Resident of Yau Lai Estate complained that i) an excavator operated before 7 am on 9 and 10 October 2020; and, ii) the height of noise barriers are not sufficient for noise reduction.	Noise	 Contractor was recommended to scheduled noisy works to less sensitive hours (e.g. normal weekdays between 08:00-19:00) to minimize noise nuisance. Since the complaint location stated in part II is situated out of the project boundary and within the other construction site, no investigation shall be conducted for non-project related complaint. 	Closed
		9-Feb- 2021	Resident of Cha Kwo Ling village revealed that some breaking noise was heard at his/her residence (near Cha kwo Ling Main Street) from the ground at about 20:00 on 08 Feb, 2021		The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside	
Complaint #N04	Portion T1	6 March 2021	The complainant informed that they continues to hear breaking noise during 3-4 a.m. and caused serious noise nuisance to the residents.	Noise	the tunnel section at Kwun Tong Side on the evening time and night-time of the date of complaint are considered as one of the potential noise source of the ground borne noise nuisance.	Closed

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
Complaint	Portion	17-Feb- 22	Complainant informed that noise from drilling activities near Tin Hau Temple was perceived all day.	Naiss	 The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken 	Class
#N07	Т1	24- March-22	Follow up complaint from the same complainant was received and he/she informed that the day time ground-borne noise nuisance had deteriorated this week.	Noise	 were complied with the relevant CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide 	Closed

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
		12-April- 22	3 rd complaint from the same complainant was received again, he/ she complained that his/ her family were affected by the noise from construction site of T2 at the night-time period and felt no improvement on this issues.		 regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE1201-21, GW-RE0199-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received. 	
Complaint #N08	Portion T1	19-Oct- 22	Complainant informed that the groundborne noise was heard at his/her residence (near Cha Kwo Ling Main Road) everyday, including the public holiday. Also, the complainant further informed that recently they continued to hear groudborne noise which had caused serious noise nuisance to the residents	Noise	 A valid CNP was hold and construction activities being taken were complied with the relevant CNP Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide 	Closed

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 regularly maintenance for PMEs. Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	
Complaint #N09	Portion T1	28-Oct- 22	Complainant informed that the underground breaking noise was heard at her residence (near Cha Kwo Ling Main Road) after the blasting work every day.	Noise	 A valid CNP was hold and construction activities being taken were complied with the relevant CNP Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide regularly maintenance for PMEs. 	Closed

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

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

Log Ref.	Location	Received Date	Details of Complaint/warning/summon and prosecution	Nature	Investigation/Mitigation Action	Status
					 Contractor is recommended to continue to strictly follow the requirements in the relevant CNP and the approved CNMP. According to the condition 3.d point 5 of the CNP (GW-RE0997-22), the immediate remedial action shall be implemented in case adverse ground-borne noise impact on any noise sensitive receiver is received 	

APPENDIX N SUMMARY OF EXCEEDANCE

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

Appendix N – Summary of Exceedance

Reporting Period: February 2023

(A) Exceedance Report for Air Quality

One(1) Action and No Limit Level exceedance of 24hr TSP monitoring was recorded in this reporting month.

Monitoring Station	Start Date	Conc. (µg/m³)	Level exceeded
AM4(B)	23 February 2023	253.3	Action Level

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

(B) Exceedance Report for Construction Noise

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

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

(C) Exceedance Report for Landfill Gas

(NIL in the reporting month).

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

- Notification of Exceedances

NOE No. 230223_24hrTSP (AM4(B)) Exceedance Level: Action

Date of Air Quality Monitoring: 23 February 2023

Part A – Exceedance Summary Tables

Table I: Parameter(s) – 24-hour TSP

Station	Location	Starting Time	Weather Condition	Conc. (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	09:00	Sunny	253.3	183.0	260.0	Action

Note:

Bold Italic means Action Level exceedance

Bold Italic with underline means Limit Level exceedance

Part B – Major Source of Parameter Monitored

Field Observation(s) and Finding(s)

(a) Statement of exceedance(s)

24-hour TSP monitoring measured at AM4(B) on 23 February 2023 exceeded the action level.

(b) Cause of exceedance(s)

According to the observation of our field staff and the information provided by ER and Contractor, the Investigation result for exceedance identified at AM4(B) is/are as follow:

- 1. Fluctuation of road traffic along the Cha Kwo Ling Road, a numerous of dump trucks and concrete mixer lorries passed by and raise the dust to the surrounding (Photo 1 & 2).
- 2. Steel work was performed at Portion Q (near AM4(B)), no dusty activities (i.e Excavation, loading or unloading of C&D material) were performed at this section.

MA20003\NOE 1 CINOTECH

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

- <u>Notification of Exceedances</u>



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

- Notification of Exceedances

Part C - Conclusion

Based on the finding(s) and observation(s) above, we deduce the Action Level exceedance of 24-hour TSP recorded at station AM4(B) on 23 February 2023 is due to fluctuation of road traffic, therefore, the exceedance is considered as **non-project related**.

Part D - Recommendation

Although the exceedance is considered as non-project related, contractor is reminded that the following construction dust mitigation measures shall always to be implemented on site to reduce/ minimize the generation of dust due to the construction activities.

- 1. Watering of the construction areas 12 times per day to reduce dust emissions.
- 2. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions.
- 3. Open stockpiles shall be avoided or covered.
- 4. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations.
- 5. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site.
- 6. Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit.
- 7. Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather.

Part E – Follow-up Action Taken

According to the Event and Action Plan of the EM&A Manual of Trunk Road T2 project under EP-458/2013/C, the follow-up action of this exceedance is/are taken by ET as follow:

- 1. Informed the investigation result to other parties (i.e., IEC and ER).
- 2. ET will always pay attention to the implementation of mitigation measures by Contractor and advise the ER on the effectiveness of such measures.
- 3. A remeasurement was carried out on 28 February 2023, a limit level exceedance was recorded. The monitoring results is tabulated as below:

Station	Location	Time	Weather Condition	Conc. $(\mu g/m^3)$	Action Level (µg/m³)	Limit Level (µg/m³)	Level exceeded
AM4(B)	Flat 103 Cha Kwo Ling Village	0900 (28 Feb 2023) – 0900 (1 Mar 2023)	Sunny	<u>278.5</u>	173.0	260.0	Limit

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

Activity Name	Dur Start	Finish		2022			2023				
		30 06	November 13 20 2		January 20 1	February	Ma rch 26 05 12 19 26 02	April	May 30 07 14 1	21 28 04	June 11 18 25
ED/2018/04 - Trunk Road T2 Feb-23	1114 30-Dec-20 A		13 20 2	21 04 11 10 25 01 00	13 22 29	05 12 19	20 03 12 19 20 02	09 10 23	30 07 14	21 20 04	11 10 2
COMMENCEMENT & SITE POSSESSION DATE	153 03-Oct-22 A	31-Mar-23									
SITE POSSESSION DATE	153 03-Oct-22 A	31-Mar-23							,		
SOUTH APRON WEST AREA	153 03-Oct-22 A	31-Mar-23									
Portion H2 Possession 01 January 2022 or as directed by SO	0	03-Oct-22 A January	2022 or as directed	dbySO	_jj_				Ji		
Portion K Possession 31 March 2023 or as directed by SO	0	31-Mar-23*					♦ Por	tion K Possession 31 N	larch 2023 or as dire	cted by SO	
CHA KWO LING AREA	0 28-Feb-23	28-Feb-23									
Portion S Possession 30 November 2021 or as directed by SO	0	28-Feb-23*					Portion S Possession 30 November	r 2021 or as directed b	y SO		
Portion T2 & T3 Possession 31 March 2020 or as directed by SO	0	28-Feb-23					Portion T2 & T3 Possession 31 Ma	rch 2020 or as directed	by SO		
Portion U Possession 30 November 2021 or as directed by SO	0	28-Feb-23*					Portion U Possession 30 November	r 2021 or as directed b	ySO :		
Portion V Possession 30 November 2021 or as directed by SO	0	28-Feb-23*					Portion V Possession 30 November	r 2021 or as directed b	y SO		
Portion AB Possession 01 June 2022 or as directed by SO	0	28-Feb-23*					Portion AB Possession 01 June 20	22 or as directed by S0	}		
CONTRACT KEY DATE & SITE HANDOVER DATE	126 13-Aug-22 A	09-Jun-23									
SITE HANDOVER DATE	73 27-Jan-23 A	31-Mar-23									
SOUTH APRON WEST AREA	73 27-Jan-23 A	31-Mar-23									
Portion A1 Handover 01 June 2022 or as directed by SO	0	27-Jan-23 A			Portion	Δ1 Handover 01 Jun	ne 2022 or as directed by SO				
Portion C2 Handover DOC + 796 Cd or as directed by SO	0	28-Feb-23*			- F Grio(i)		◆ Portion C2 Handover DOC + 796 (d or as directed by 90	 		
Portion D1 Handover DOC + 796 Cd or as directed by SO	0	28-Feb-23*					Portion D1 Handover DOC + 796 (''	; 	
Portion D3 Handover DOC + 796 Cd or as directed by SO	0	28-Feb-23*					Portion D3 Handover DOC + 796 (la la		
Portion F3 Handover DOC + 790 Cd or as directed by SO	0	28-Feb-23*					Portion F3 Handover DOC + 1099				
Portion F4 Handover 01 June 2022 or as directed by SO	0	28-Feb-23*					Portion F4 Handover 01 June 2022				
Portion H2 Handover DOC + 1099 Cd or as directed by SO	0	28-Feb-23*				+	Portion H2 Handover DOC + 1099		<u></u>		
Portion I Handover 30 November 2022 or as directed by SO	0	28-Feb-23					Portion I Handover 30 November 2		'	;	
Portion J1 Handover 03 June 2022 or as directed by SO	0	28-Feb-23*					Portion J1 Handover 03 June 2022		. [
Portion J2 Handover 03 June 2022 or as directed by SO	0	28-Feb-23*					Portion J2 Handover 03 June 2022				
Portion H1 Handover (subject to coordination)	0	28-Feb-23					Portion H1 Handover (subject; to co		 		
Portion C1 Handover 31 March 2023 or as directed by SO	0	31-Mar-23*					-	tion C1 Handover 31 M	arch 2023 or as dire	cted by SO	
Portion C3 Handover 31 March 2023 or as directed by SO	0	31-Mar-23*						tion C3 Handover 31 M	`		
Portion C4 Handover 31 March 2023 or as directed by SO	0	31-Mar-23*						tion C4 Handover 31 M			
SOUTH APRON EAST AREA	0 28-Feb-23	28-Feb-23									
Portion W Handover DOC + 704 Cd or as directed by SO	0 2010020						Portion W Handover DOC + 704 C	d or as directed by SO			
KEY DATE - TRUNK ROAD T2	81 28-Feb-23	09-Jun-23					- i ortion what and over 500 i vo4 o	d of as directed by SO			
CONTRACT COMPLETION DATES											
	38 28-Feb-23	18-Apr-23					-		1,10,100,500,10		
KD-2 Stage 1B - Depressed Road & South Apron Adit for J1/J2 H/O [DOC+1072cd]	0	28-Feb-23*					♦ KD-2 Stage 1B - Depressed Road	+		/200]	
KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707 cd]	0	28-Feb-23*					KD-4 Stage 2B - AGR, DPR, SAS,				
KD-6 Stage 3B1 - Civil provision between AGR to SUS Tunnel for TCSS	0	28-Feb-23*					♦ KD-6 Stage 3B1 - Civil provision b			ļ	
KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0	09-Mar-23*					◆ KD-5 \$tage 3A - Design /		j-l j j		
KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0	09-Mar-23*					◆ KD-7 Stage 4A - Design	. 1 5 1 5 5 3	<u> </u>	A-14 b-4	8 DDD 4111/0
KD-9 Stage 5 - South Apron Adit between WVB & DPR for I H/O [DOC+1252cd]	0	18-Apr-23*						▼ KD-9 Sta	ge 5 - South Apron A	rait between wvr	& DPR for I H/U
PLANNED COMPLETION DATES	102 28-Feb-23	09-Jun-23									
KD-1 Stage 1A - Design Approval for Stage 1B [DOC+464αd]	0	28-Feb-23*		4-4444444444444444444444444444444			♦ KD-1 Stage 1A - Design Approval	}		 	
KD-3 Stage 2A - Design Approval for Stage 2B [DOC+405cd]	0	28-Feb-23*					♦ KD-3 Stage 2A - Design Approval		L		
KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707 cd]	0	28-Feb-23					♦ KD-4 Stage 2B - AGR, DPR, SAS,	C&C & LS for TBM Ac	cess [DOC+707cd]	ii	4
KD-9 Stage 5 - South Apron Adit between WVB & DPR for I H/O [DOC+1252cd]	0	09-Jun-23							ļļļ	; <u> </u>	◆ KD-9 Stage 5
KEY DATE - STAGE 5 INFRASTRUCTURE WORKS & JUNCTION IMPRO	56 13-Aug-22 A	28-Feb-23		4-4			-				
CONTRACT COMPLETION DATES	56 13-Aug-22 A	28-Feb-23							ļ	<u>,</u>	
LANDSCAPE SOFTWORKS	0 28-Feb-23	28-Feb-23									
KD-23 Section 9A - Road S20 & KFR Landscape Softworks [DOC+796cd]	0	28-Feb-23*					♦ KD-23 Section 9A - Road S20 & K	R Landscape \$oftwor	ks [DOC+796cd]		
KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+704cd]	0	28-Feb-23*					♦ KD-28 Section 9F [STE] - HBR/CY	S/WCR Landscape So	tworks [DOC+704cd	1]	
ROAD & DRAIN RELATED WORKS	56 13-Aug-22 A	28-Feb-23									
KD-14 Section 6A - Road S20, Drainage, Outfall 1 & CUE for AMAWBC [DOC+796α]	0	13-Aug-22 A C+796cd	1						1		
KD-22 Section 8D [STE] - HBR/CYS/WCR Junction Modification [DOC+704cd]	0	28-Aug-22 A on [DOC									
	<u> </u>	, <u>, , , , , , , , , , , , , , , , , , </u>			<u> </u>			Date	Revision	Checked	Approved
Page 1 of 30 A Milestone Planned Bar		040/04 -		1.70	, ,,,			18-Dec-19	00V1	WYu	pp.0100
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♦ Actual Milestone		for Da	wolong	nents at South Ar	ron		BOUYGUES	09-Apr-20	01V1	SPa/LLo	WYu
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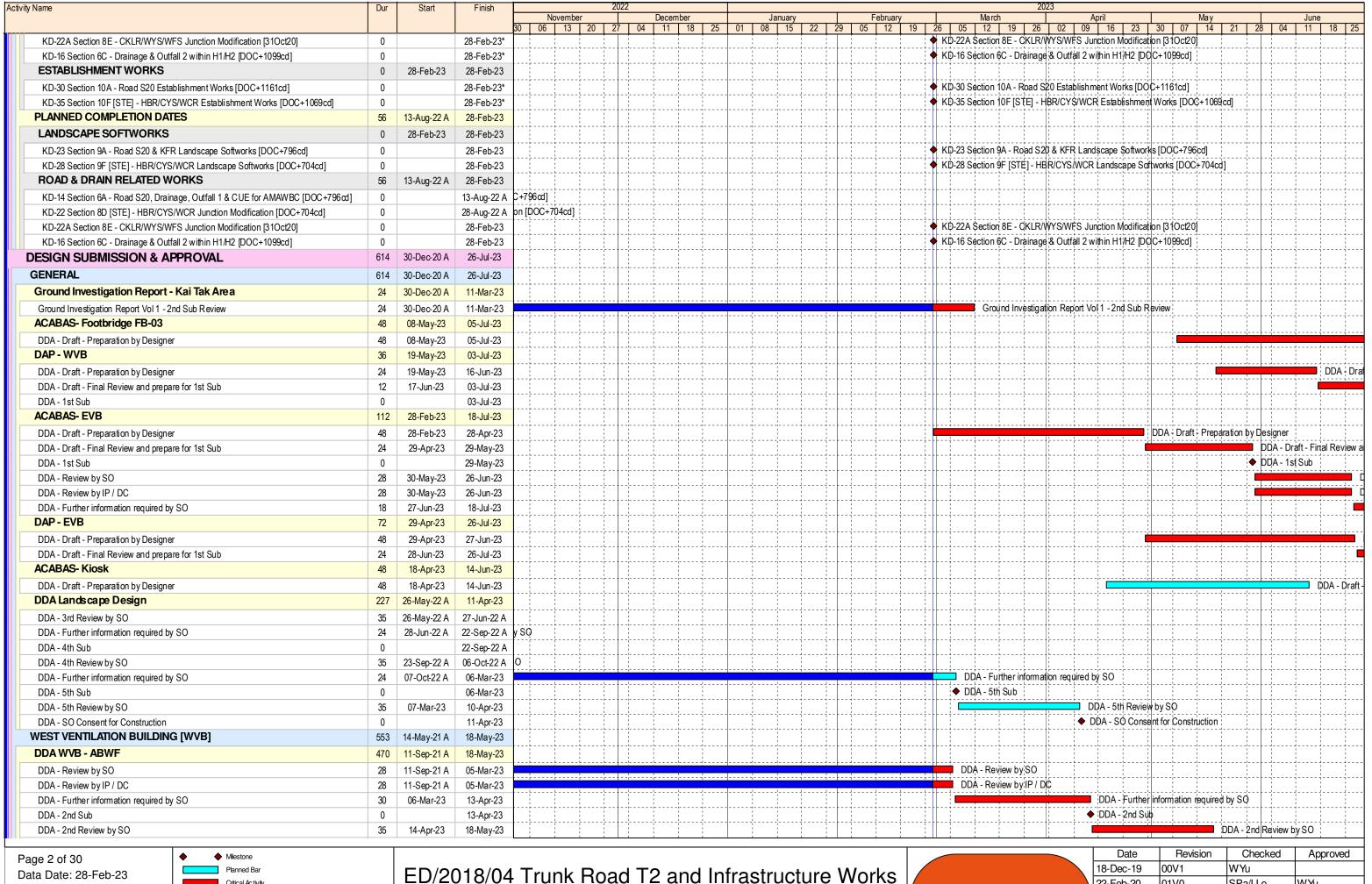


for Developments at South Apron

Three Months Rolling Programme (Feb-23)



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



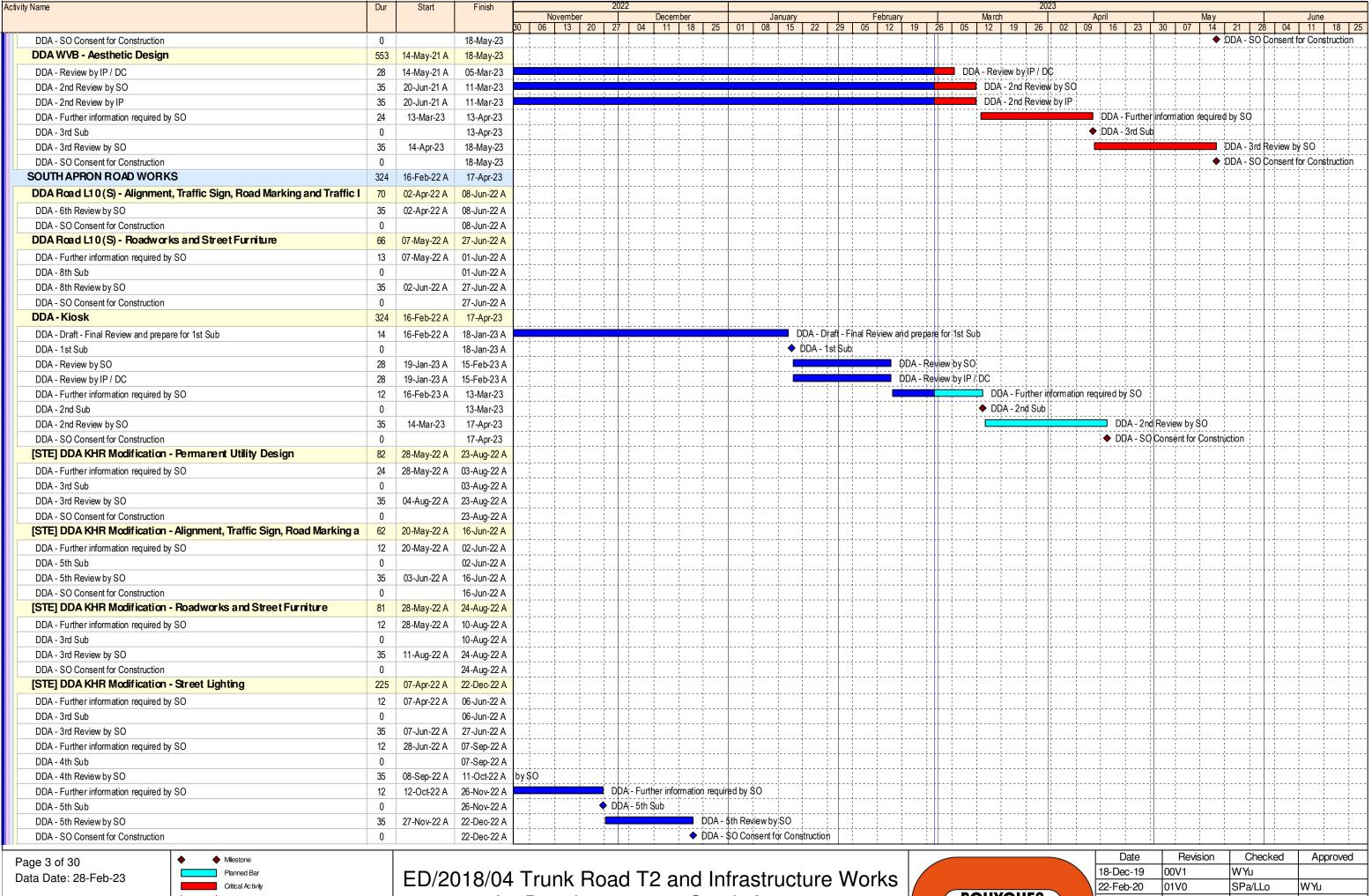


for Developments at South Apron

Three Months Rolling Programme (Feb-23)

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	TRAVAUX PUBLICS

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



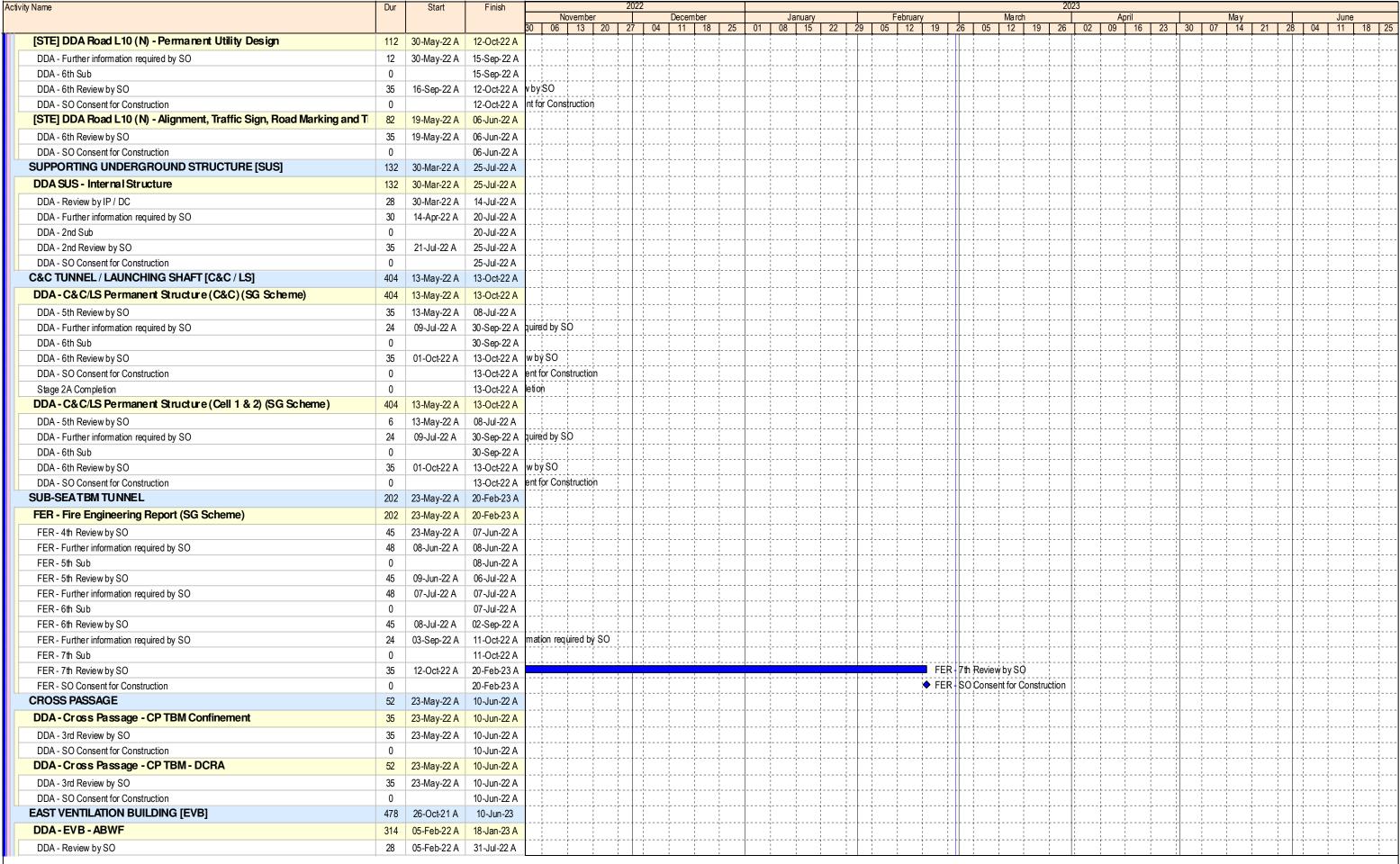


for Developments at South Apron

Three Months Rolling Programme (Feb-23)

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	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
	09-Apr-20	01V1	SPa/LLo	WYu
	17-Jul-20	01V2	SPa/LLo	WYu
/	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu
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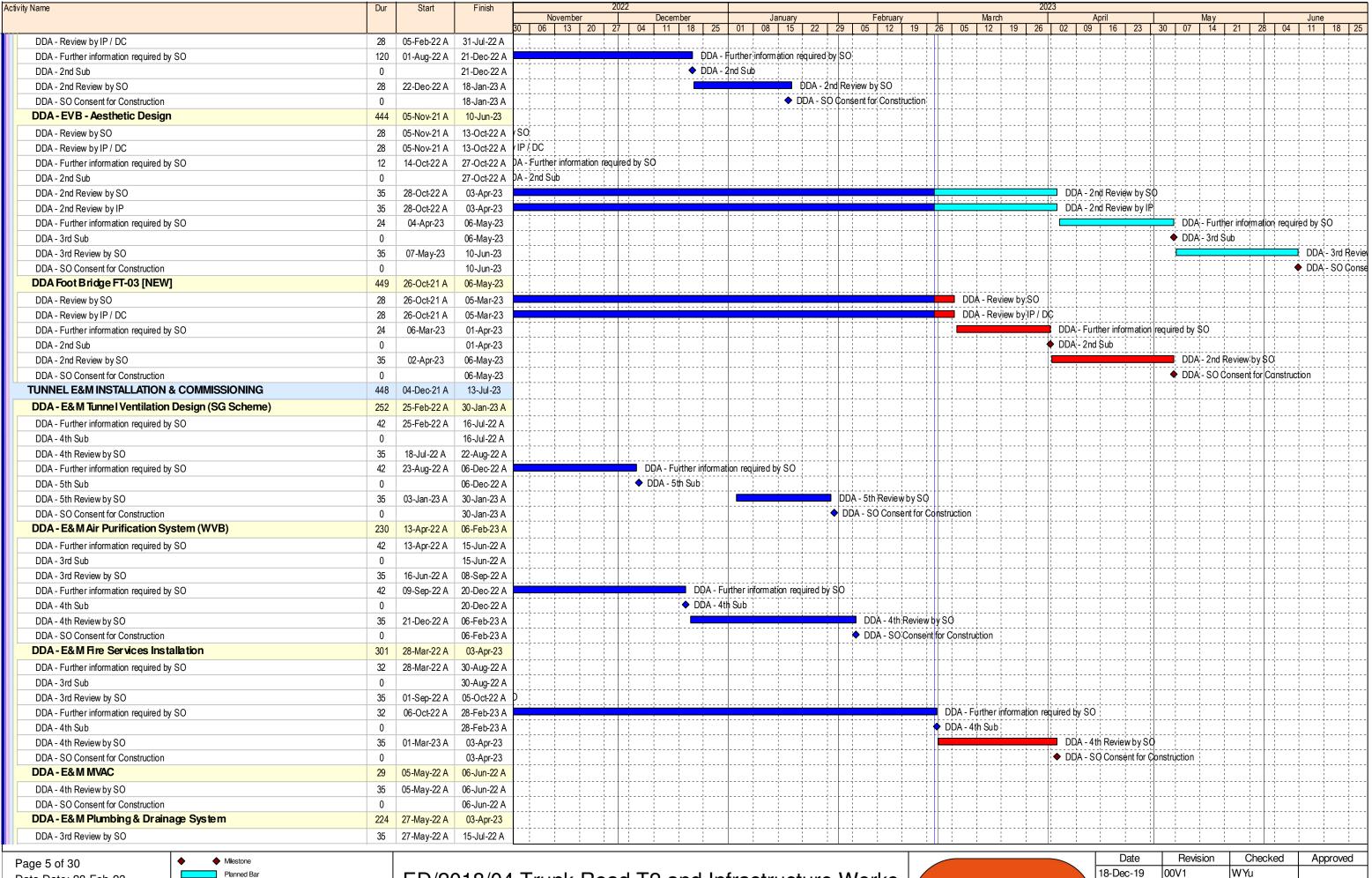
Page 4 of 30 Data Date: 28-Feb-23

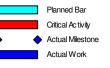


ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



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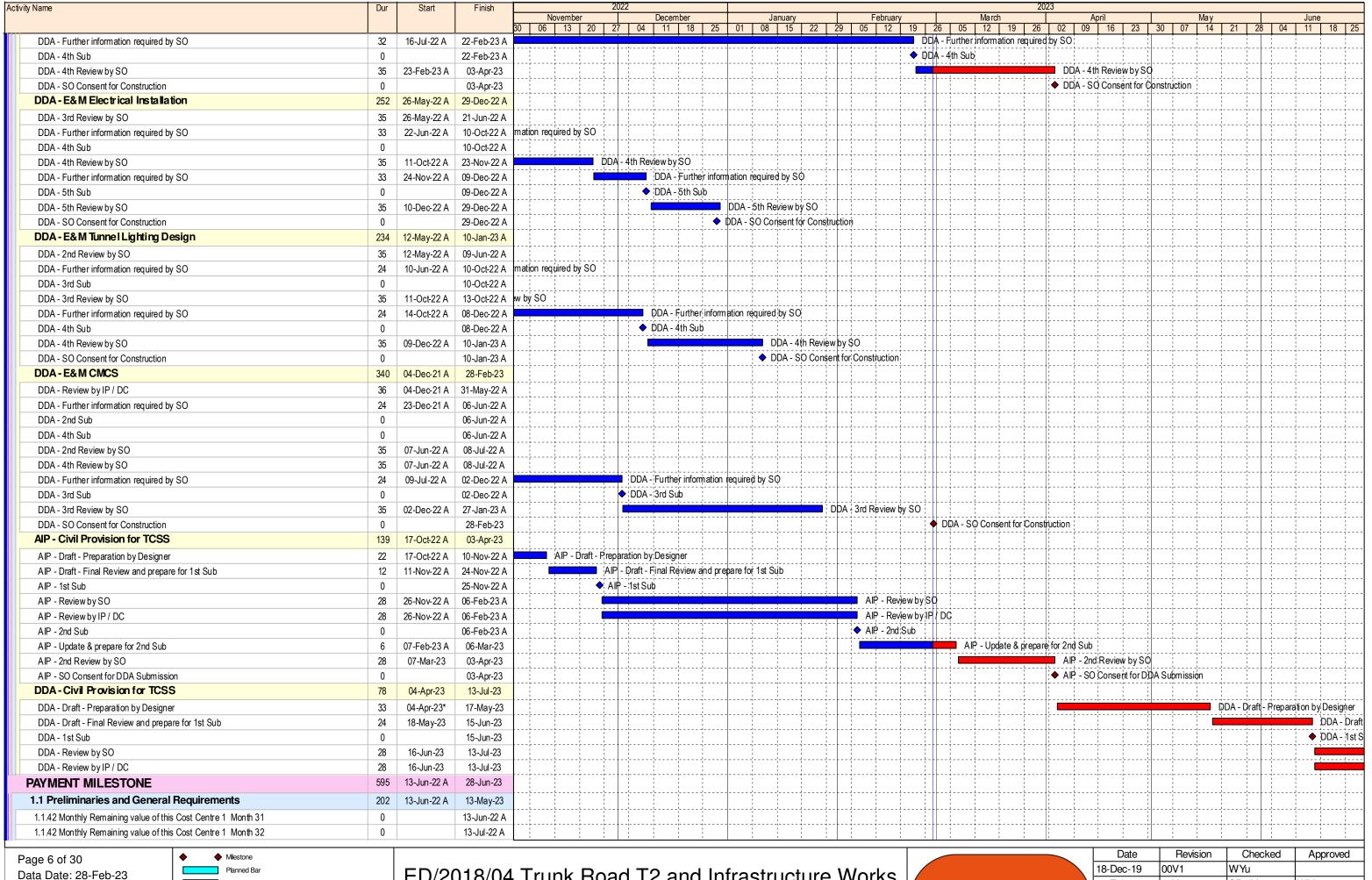




ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



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	18-Dec-19	00V1	WYu	
	22-Feb-20	01V0	SPa/LLo	WYu
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	17-Jul-20	01V2	SPa/LLo	WYu
/	09-Oct-20	01V3	SPa/LLo	WYu
	02-Jul-21	02V0	SPa/LLo	WYu
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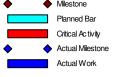
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

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

Activity Name	Dur	Start	Finish				2022												202	3						
					Novembe		27 04	Decem	ber 18 25	01	Janu I na I	,	29	Febru 05 12	- ,	26		March	1 26 1	02 09	April I 16	23	30 07	May I 14 I	21 28 04	June 11 18 2
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 33	0		13-Aug-22 A	00	10	20	21 04	 '' 	10 20	01	00	10 22	20	00 12	13	20	00	12 13	20	02 03	1 10	20	01	1 17 1	21 20 04	11 10 2
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 34	0		13-Sep-22 A	Centre 1	Month 34	4	1 : : : : : : :																			
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 35	0		13-Oct-22 A	Remaining	yalue o	f this Cos	t Centre 1	Month 3	35															77-		
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 36	0		13-Nov-22 A		♦ 1.1.4	42 Monthl	y Remaini	ng value	of this Cost	Centre 1	Month	36			‡			·	}							
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 37	0		13-Dec-22 A				1 :	♦ 1.	1.42 Monthly	y Remain	ning valu	e of this Cost	t Centre	1 Month	37											
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 38	0		13-Jan-23 A		!				j !		♦ 1	.1.42 Monthl	ly Rema	ining valu	e of this (Cost Ce	entre 1 M	onth 38		-	; ·					
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 39	0		13-Feb-23 A											♦	1.1.42 Mc	nthly R	em ain ing	value of th	is Cost	Centre 1 N	Nonth 39					
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 40	0		13-Mar-23*								 						•	1.1.42 Mc	onthly R	temaining va	alue of tl	nis Cost C	entre 1 M	lonth 40		
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 41	0		13-Apr-23*																	•	1.1.42	2 Monthly I	Remaining	value of	this Cost Centre 1	Month 41
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 42	0		13-May-23*																					1.1.42	2 Monthly Remainir	ng value of this Co
2.1 Geotechnical Instrumentation and Monitoring Works	0	28-Feb-23	28-Feb-23																							
2.1 .5 Submit Monitoring report	0		28-Feb-23*				1-1				;; 					2 .1	1.5 Subm	it Monitorir	ng repor	t						
2.1 .6 Approval Monitoring report	0		28-Feb-23*				1-1				!! !					2 .1	1 .6 Appro	oval Monito	ring rep	ort						
2.1 .7 Complete whole activities of this cost centre	0		28-Feb-23*		[[1									2 .1	1.7 Comp	olete whole	activitie	es of this co	st centre)		77-		
3.1 for Trunk Road T2	142	13-Aug-22 A	28-Feb-23					-;;			;; 						· 			: :			:			11
3.1.51 Submit DDA for completion of SUS	0		13-Aug-22 A	[}					 					¦ - 	·	·								
3.1.52 Approval DDA for completion of SUS	0		13-Aug-22 A				1-:												[
3.1.8 Approval DDA for the At-grade Road Works	0			DDA for th	ne At-gra	de Road	Works								 	-		·		 -	 -	†				i
3.1.36 Approval DDA for Drill-and-break Tunnel	0		13-Oct-22 A	DDA for		L l	- + !																			
3.1.53 Submit AIP for remaining works	0		28-Feb-23				- -		· · · · · · · · · · · · · · · · · · ·		 					3 .1	1 .53 Sub	mit AIP for	remaini	ng works	 !		<u>-</u>			
3.1.54 Approval AIP for remaining works	0		28-Feb-23				1 7				 				-	4 3.1	1 .54 App	roval AIP fo	r remai	ining works			;			
3.1.55 Submit DDA for remaining works	0		28-Feb-23								 					3 .1	1 .55 Sub	mit DDA fo	remair	ning works			1			
3.1.56 Approval DDA for remaining works	0		28-Feb-23												!	3 .1	1 .56 App	roval DDA	for rema	aining works	3			77-		1
3.1 .57 Complete whole activities of this cost centre	0		28-Feb-23													3 .1	1 .57 Com	plețe whol	e activit	ies of this c	ost cent	re				
3.3 for the Remaining Stage 5 Infrastructure Works - Road L10 (Southe	172	13-Jul-22 A	28-Feb-23																							
3.3 .8 Approval DDA for roadworks	0		13-Jul-22 A		-[1											[[T		77-		
3.3 .4 Approval Design memorandum	0		28-Feb-23						;		;;-· 					3 .3	3.4 Appro	oval Design	memo	randum			;			
3.3 .6 Approval AIP for roadworks	0		28-Feb-23								 					3.3	3.6 Appro	oval AIP for	roadwo	orks						
3.3 .7 Submit DD A for roadworks	0		28-Feb-23													3 .3	3.7 Subm	it DDA for	roadwo	rks						
3.3 .24 Approval DDA for landscape works	0		28-Feb-23						1						-	• 3.3	3 .24 App	rova DDA	for land	scape work	s		1			
3.3 .25 Complete activity of this cost centre	0		28-Feb-23						-							4 3.3	3 .25 Com	nplete activ	ity of th	is cost centr	е					
3.5 for Lam Chak Street and Kai Hing Road	172	13-Jul-22 A	28-Feb-23																							
3.5 .7 Submit DDA for roadworks	0		13-Jul-22 A																							11
3.5 .11 Submit DDA for stormwater drainage works	0		13-Jul-22 A								 												1			
3.5 .8 Approval DDA for roadworks	0		13-Sep-22 A				1::																			
3.5 .12 Approval DDA for stormwater drainage works	0		13-Sep-22 A	e works							 									!						
3.5 .15 Submit DDA for waterworks	0		13-Sep-22 A						 		 												1			
3.5 .19 Submit DDA for sewage works	0		13-Sep-22 A																							
3.5 .20 Approval DDA for sewage works	0		13-Sep-22 A]																	
3.5 .23 Submit DDA for landscape works	0		13-Sep-22 A	L]]
3.5 .24 Approval DDA for landscape works	0		13-Sep-22 A	1		11.	1.1						Li						Ili					11		1 1 1
3.5 .25 Complete whole activities of this cost centre	0		13-Jan-23 A	Li			1.1				♦ 3.	5 .25 Compl	ete whol	le activitie	s of this	111111						<u>.iil</u>				.]]]
3.5 .16 Approval DDA for waterworks	0		28-Feb-23	1					 							3.5	.16 App	roval DDA	for wate	rworks	 		1 1 1			
3.6 for Road L10 (Northern Section)	62	18-Nov-22 A	13-Jan-23 A																		1					
3.6 .8 Approval DDA for Road L10 (northern section)	0		18-Nov-22 A		•	3.6 .8 Ap	proval DD	A for Ro	ad L10 (nort	thern sec	tion)															
3.6 .9 Complete whole activities of this cost centre	0		13-Jan-23 A								♦ 3	.6 .9 Comple	ete whole	e activitie	s of this c	ost cen	tre									
3.9 for the Pipelines for District Cooling System for Commissioning of	120	13-Sep-22 A	28-Feb-23						!												-					
3.9.11 Submit O&M manual for DCS pipelines	0		13-Sep-22 A	j							·															
3.9.12 Approval O&M manual for DCS pipelines	0		28-Feb-23				1 :				,, !					3 .9	9.12 Appr	oval O&M ı	manual	for DCS pip	elines		1 1			
3.9.13 Complete whole activities of this cost centre	0		28-Feb-23						!		 !					3 .9	9.13 Com	pletė whole	activiti	es of this co	st centr	e	!			
3.10 Remaining Pipelines for District Cooling System Other Than for C	0	28-Feb-23	28-Feb-23								,				!								 			
3.10.11 Submit O&M manual for remaining DCS pipelines	0		28-Feb-23				- -									3 .1	10.11 Sub	mit O&M n	nanual f	orremainin	g DCS p	pipelines				
3.10.12 Approval O&M manual for remaining DCS pipelines	0		28-Feb-23				1		j !					 		3 .1	10.12 App	roval O&M	1 manua	l for remain	ing DCS	pipelines	 			
	-				'				1					1	<u></u>		1		. 11	1						
Page 7 of 20 ♠ Milestone																					ı [Date	I Rev	ision	Checked	Approved

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



	Date	Revision	Checked	Approved				
	18-Dec-19	00V1	WYu					
1	22-Feb-20	01V0	SPa/LLo	WYu				
	09-Apr-20	01V1	SPa/LLo	WYu				
/	17-Jul-20	01V2	SPa/LLo	WYu				
	09-Oct-20	01V3	SPa/LLo	WYu				
	02-Jul-21	02V0	SPa/LLo	WYu				
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/ Name	Dur	Start	Finish		Noven	mber	20	D	ecember		Jani	uary		Februar	У	Ma	a rch	2023	April		T	May			June
				30 0	06 1) 27			25 01		15 22	29		19	26 05 1	2 19 2		09	16 23	30	07 14	21	28 04	
3.10.13 Complete whole activities of this cost centre	0		28-Feb-23							<u>.</u>			<u> </u>		ii.	3.10.13 Com	plete whole a	ctivities o	f this cost	centre	<u>.</u>				
3.14 for Common Utilities Enclosure (CUE) under Section 13 and Ancill	0	13-Jan-23 A	13-Jan-23 A							<u> </u>			<u> </u>		<u> </u>										
3.14.8 Approval DDA for CUE	0		13-Jan-23 A		!					:	◆ 3	3.14.8 Approv	val DD/	for CUE	!										
4.1 South Apr on Adits from Interface with the Depressed Road to the Ir	72	11-Mar-23	09-Jun-23											į						į		į			
4.1.1 Complete mobilization of excavation equipment 0.5	0		11-Mar-23													4 .	1.1 Complete	mobilizat	tion of exc	avation equ	ipm ent 0	.5]
4.1.3 Complete excavation of South Apron Adist 0.2	0		25-Mar-23														4 .	.1.3 Comp	olete exca	vation of So	uth Apro	n Adist 0.2	2		
4.1.4 Complete excavation of South Apron Adist 0.4	0		28-Mar-23														1 1	11		cavation of					
4.1.8 Complete South Apron Adist permanent structure 0.2	0		29-Mar-23												 				_ L	outh Apron	da l- :			2	
4.1.5 Complete excavation of South Apron Adist 0.6	0		30-Mar-23													: :		+		excavation	j j- :				
4.1.6 Complete excavation of South Apron Adist 0.8	0		01-Apr-23							<u>.</u>			<u> </u>		<u> </u>			+		e excavatio					
4.1.7 Complete excavation of South Apron Adist 1	0		03-Apr-23															◆ 4.	1.7 Comp	lete excava	tion of \$0	outh Apron	Adist 1		
4.1.9 Complete South Apron Adist permanent structure 0.4	0		17-Apr-23												! !				.	'	.'2 '	'`		manent struc	
4.1.13 Complete backfill at South Apron Adist 0.2	0		22-Apr-23	li		<u>i</u>				<u> </u>			<u> </u>		ii.					4.1.1				Apron Adist	
4.1.10 Complete South Apron Adist permanent structure 0.6	0		02-May-23												¦ 						j j- :	;			t permanent
4.1.14 Complete backfill at South Apron Adist 0.4	0		05-May-23							<u>.</u>			<u>.</u>		<u> </u>						• 4		20		h Apron Adist
4.1.11 Complete South Apron Adist permanent structure 0.8	0		16-May-23	ļ																					ıth Apron Adis
4.1.15 Complete backfill at South Apron Adist 0.6	0		17-May-23	ļ	¦					<u>.</u>			; ;;		; ; ;			;						1	ckfill at South
4.1.16 Complete backfill at South Apron Adist 0.8	0		30-May-23							ļ					ļļ.			-					-		Complete bac
4.1.12 Complete South Apron Adist permanent structure 1	0		30-May-23							ļ			ļļļ.		; ;;-			-			<u> </u>				Complete So
4.1.17 Complete backfill at South Apron Adist 1	0		09-Jun-23										ļ		¦						 -				◆ 4.1.17 Co
4.1.18 Complete whole activities of this cost centre 1	0		09-Jun-23							<u> </u>					<u> </u> <u> </u> -										◆ 4.1.18 Co
4.2 Depressed Road and Remaining Ventilation Adits at the South Apro	0	28-Feb-23	28-Feb-23										<u> </u>		<u> </u>										
4.2 .23 Complete foundation of Depressed Road by length 1	0		28-Feb-23*							ļ						4.2 .23 Comp		17							
4.2 .31 Complete permanent structure of Depressed Road by length 1	0		28-Feb-23*										ļ ļ ļ.		11-	4.2 .31 Comp		+	_ L		d by leno	gth 1;			
4.2 .32 Complete whole activities of this cost centre 1	0		28-Feb-23										ii.		; ;;-	4.2 .32 Comp	olete whole a	ctivities of	this cost	centre 1	<u>.</u>				
5.1 Cut-and-Cover Tunnel at South Apron	24	13-Sep-22 A	13-Dec-22 A												¦ ;;-										
5.1 .27 Complete base slab of Cut-and-cover Tunnel by length 1	0		13-Sep-22 A	Tunnel b	by lengt					<u> </u>			<u> </u>		<u> </u>										
5.1 .30 Complete internal wall of Cut-and-cover Tunnel by length 0.3	0		18-Nov-22 A			+	1			out-and-cove	11-		4		ļ										
5.1 .28 Complete internal wall of Cut-and-cover Tunnel by length 0.1	0		18-Nov-22 A]		Cut-and-cove	((-)		((-		¦ ¦¦-						ļ				
5.1 .29 Complete internal wall of Cut-and-cover Tunnel by length 0.2	0		18-Nov-22 A					1		Cut-and-cove			4		<u> </u>										
5.1 .31 Complete internal wall of Cut-and-cover Tunnel by length 0.4	0		18-Nov-22 A				; +		;	Cut-and-cove			i i -		; ;;-										
5.1.32 Complete internal wall of Cut-and-cover Tunnel by length 0.5	0		18-Nov-22 A			◆ ¦ 5.1	.32 C)			-	by length 0.5	4 - 4-		ļ			-			}				
5.1.33 Complete internal wall of Cut-and-cover Tunnel by length 0.6	0		13-Dec-22 A							4	ii -	f Cut-and-cov	4 4 -	4	+										
5.1 .34 Complete internal wall of Cut-and-cover Tunnel by length 0.7	0		13-Dec-22 A					'	'		'	f Cut-and-cov	! ! .												
5.1 .35 Complete internal wall of Cut-and-cover Tunnel by length 0.8	0		13-Dec-22 A							i		f Cut-and-cov			44-			-							
5.1.36 Complete internal wall of Cut-and-cover Tunnel by length 0.9	0		13-Dec-22 A						;			f Cut-and-cov	i i -		i i -										
5.1 .37 Complete internal wall of Cut-and-cover Tunnel by length 1	0	40 D	13-Dec-22 A						5.1.37 C	omplete intel	mai wali o	f Cut-and-cov	veriun	nei by length	161 †						} <u>-</u> -				
5.2 Completion of SUS	164	13-Dec-22 A	28-Jun-23							; 			ļļļ.		¦ 						ļ				
5.2 .5 Complete overhead ventilation duct slab by length 0.1	0		13-Dec-22 A						5.2 .5 Co	mplete overh		lation duct sla	4 4 -		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1111111111									
5.2 .6 Complete overhead ventilation duct slab by length 0.2	0		13-Jan-23 A	ļ						<u> </u>		5.2 .6 Comple	ietė ovėi			slab by length (· 		J				
5.2 .7 Complete overhead ventilation duct slab by length 0.3	0		13-Feb-23 A							<u> </u>			į . į.			ete overhead v			_ L _ 🗸 L _						
5.2 .8 Complete overhead ventilation duct slab by length 0.4	0		28-Feb-23							-					÷	5.2 .8 Compl					ii-				
5.2 .9 Complete overhead ventilation duct slab by length 0.5	0		28-Feb-23										{ -		ļ <u></u>	5.2 .9 Compl		+			U.O				
5.2 .25 Complete remaining works in SUS by length 0.1	0		28-Feb-23							 					+	5.2 .25 Comp									
5.2 .26 Complete remaining works in SUS by length 0.2	0		28-Feb-23							<u> </u>						5.2 .26 Comp					} <u>-</u> -				
5.2 .27 Complete remaining works in SUS by length 0.3	0		28-Feb-23							 			 		1	5.2 .27 Comp			_ L		H				
5.2 .28 Complete remaining works in SUS by length 0.4	0		28-Feb-23	ļ 						 			; <u> </u> ;		i i -	5.2 .28 Comp	 				H				
5.2 .29 Complete remaining works in SUS by length 0.5	0		28-Feb-23												ļ	5.2 .29 Comp	>1616 1611191111U	ig Works II	11 303 BY		}				
5.2 .15 Complete Thermal barrier by length 0.1 6.2 TBM Tunnel	273	13-Jun-22 A	28-Jun-23							<u> </u>															
	2/3	13-Jun-22 A	10-Jun-23	ļ <u>.</u>						 					 				- 				 -		
6.2.2 Complete excavation & installation of TBM Tunnel lining by length 0.1	0		13-Jun-22 A	ļ						<u> </u>			ļļ <u>i</u> .		 -						J				
6.2 .21 Complete TBM Tunnel waterproofing 0.1	0		13-Jun-22 A							<u></u>			<u></u>		<u> </u>						<u> </u>				
6.2 .3 Complete excavation & installation of TBM Tunnel lining by length 0.15	0		13-Jul-22 A	I :	1	1	1	1 1	!	1	1 1	1 1		!	1 1	H ! !	1 1	12	1 1	!	1	!	1 1	1 :	1 1

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

ty Name	Dur	Start	Finish	November 2022	December January Jahren March April May June
				November	December January February March April May June 04 11 18 25 01 08 15 22 29 05 12 19 26 02 09 16 23 30 07 14 21 28 04 11
6.2 .4 Complete excavation & installation of TBM Tunnel lining by length 0.2	0		13-Sep-22 A	BM Tunnel lining by length 0.2	
6.2 .5 Complete excavation & installation of TBM Tunnel lining by length 0.25	0		13-Sep-22 A	BM Tunnel lining by length 0.25	
6.2 .22 Complete TBM Tunnel waterproofing 0.2	0		13-Sep-22 A	0.2	
6.2 .6 Complete excavation & installation of TBM Tunnel lining by length 0.3	0		13-Oct-22 A	excavation & installation of TBN	Tunnel lining by length 0.3
6.2 .7 Complete excavation & installation of TBM Tunnel lining by length 0.35	0		13-Oct-22 A	excavation & installation of TBN	Tunnel lining by length 0.35
6.2 .23 Complete TBM Tunnel waterproofing 0.3	0		13-Oct-22 A	e TBM Tunnel waterproofing 0.3	
6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4	0		18-Nov-22 A	◆ 6.2 .8 Comple	te excavation & installation of TBM Tunnel lining by length 0.4
6.2 .24 Complete TBM Tunnel waterproofing 0.4	0		18-Nov-22 A	◆ 6.2 .24 Comp	lete TBM Tunnel waterproofing 0:4
6.2 .9 Complete excavation & installation of TBM Tunnel lining by length 0.45	0		13-Dec-22 A		♦ 6.2 .9 Complete excavation & installation of TBM Tunnel lining by length 0.45
6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5	0		13-Dec-22 A		♦ 6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5
6.2 .25 Complete TBM Tunnel waterproofing 0.5	0		13-Dec-22 A	+;;;;;	♦ 6.2 .25 Complete TBM Tunnel waterproofing 0.5
6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55	0		13-Jan-23 A		♦ 6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55
6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6	0		13-Jan-23 A		♦ 6.2.12 Complete excavation & install ation of TBM Tunnel lining by length 0.6
6.2 .26 Complete TBM Tunnel waterproofing 0.6	0		13-Jan-23 A		◆ 6.2 .26 Complete TBM Tunnel waterproofing 0,6
6.2 .31 Complete TBM Tunnel overhead ventilation duct slab 0.1	0		28-Feb-23		♦ 6.2 .31 Complete TBM Tunnel overhead vehitlation duct slab 0.1
6.2 .32 Complete TBM Tunnel overhead ventilation duct slab 0.2	0		28-Feb-23	 	♦ 6.2 .32 Complete TBM;Tunnel overhead ventilation duct slab 0.2
6.2 .41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1	0		28-Feb-23	 -	♦ 6.2 .41 C'omplete TBM Tunnel Thermal Barrier to tunnel lining 0.1
6.2 .13 Complete excavation & installation of TBM Tunnel lining by length 0.65	0		16-Mar-23		◆ 6.2 .13:Complete excavation & install ation of TBM Tunnel lining by length 0.65
6.2 .42 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.2	0		21-Mar-23	 	◆ 6.2 .42 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.2
6.2 .14 Complete excavation & installation of TBM Tunnel lining by length 0.7	0		27-Mar-23		◆ 6.2 .14 Complete excavation & installation of TBM Tunnel lining by length 0.7
6.2 .27 Complete TBM Tunnel waterproofing 0.7	<u> </u>		27-Mar-23	 	◆ 6.2: 27 Complete TBM Tunnel waterproofing 0.7
6.2 .33 Complete TBM Tunnel overhead ventilation duct slab 0.3	0		28-Mar-23		◆ 6[2.33 Complete TBM Tunnel overhead ventilation duct slab 0.3
6.2 .15 Complete excavation & installation of TBM Tunnel lining by length 0.75	0		18-Apr-23		◆ 6.2 .15 Complete excavation & installation of TBM Tunnel
6.2 .43 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.3	0		04-May-23		◆ 6.2 .43 Complete EXCAVATION & Installation of Televiroline
· · · · · · · · · · · · · · · · · · ·	0				◆ 6.2 .34 Complete TBM Turinel Over
6.2 .34 Complete TBM Tunnel overhead ventilation duct slab 0.4	0		12-May-23		◆ 6.2 .34 Complete 15M Further over
6.2 .16 Complete excavation & installation of TBM Tunnel lining by length 0.8			16-May-23		◆ 6.2 .28 Complete excavation &
6.2 .28 Complete TBM Tunnel waterproofing 0.8	0		16-May-23		;;;;;;
6.2 .17 Complete excavation & installation of TBM Tunnel lining by length 0.85	0	40.100.4	10-Jun-23		♦ 6.2.17
6.3 Cross Passages for TBM Tunnel	101	13-Jan-23 A	22-May-23	· · · · · · · · · · · · · · · · · · ·	
6.3 .4 Complete Ground treatment for all Cross Passages 0.1	0		13-Jan-23 A		◆ 6.3 .4 Complete Ground treatment for all Oross Passages 0.1
6.3 .5 Complete Ground treatment for all Cross Passages 0.2	0		13-Jan-23 A	ļ	♦ 6.3 .5 Complete Ground treatment for all Cross Passages 0.2
6.3 .6 Complete Ground treatment for all Cross Passages 0.3	0		13-Feb-23 A		◆ 6.3 .6 Complete Ground treatment for all Cross Passages 0.3
6.3 .14 Complete excavation and support of Cross Passages 0.1	0		13-Feb-23 A		◆ 6.3 .14 Complete excavation and support of Cross Passages 0.1
6.3 .7 Complete Ground treatment for all Cross Passages 0.4	0		28-Feb-23		6.3.7 Complete Ground treatment for all Cross Passages 0.4
6.3 .15 Complete excavation and support of Cross Passages 0.2	0		28-Feb-23		♦ 6.3 .15 Complete excavation and support of Cross Passages 0.2
6.3 .16 Complete excavation and support of Cross Passages 0.3	0		28-Feb-23		♦ 6.3 .16 Complete excavation and support of Cross Passages 0.3
6.3 .17 Complete excavation and support of Cross Passages 0.4	0		09-Mar-23		◆ 6.3 .17 Complete excavation and support of Cross Passages 0.4
6.3 .8 Complete Ground treatment for all Cross Passages 0.5	0		14-Mar-23		◆ 6.3 .8 Complete Ground treatment for all Cross Passages 0.5
6.3 .18 Complete excavation and support of Cross Passages 0.5	0		17-Apr-23		◆ 6.3.18 Complete excavation and support of Cross Passage
6.3 .9 Complete Ground treatment for all Cross Passages 0.6	0		27-Apr-23		♦ 6.3.9 Complete Ground treatment for all Cross Pa
6.3 .24 Complete structural works of Cross Passages 0.1	0		28-Apr-23		◆ 6.3 .24 Complete structural works of Cross Pass
6.3 .25 Complete structural works of Cross Passages 0.2	0		13-May-23	· · · · · · · · · · · · · · · · · · ·	♦ 6.3.25 Complete structural works
6.3 .19 Complete excavation and support of Cross Passages 0.6	0		22-May-23		◆ 6.3.19 Completé excava
7.1 Western Ventilation Building	249	13-Jun-22 A	13-Jan-23 A		
7.1.5 Complete pile foundation for WVB 0.5	0	10 00.1 == 71	13-Jun-22 A		
7.1.6 Complete pile foundation for WVB 1	0		18-Jun-22 A	 	
7.1.7 Complete pile louindation for WVB 1 7.1.7 Complete concrete works of gross plan area for WVB 0.25	0		13-Sep-22 A	area for WVB 0.25	
7.1.7 Complete concrete works of gross plan area for WVB 0.25 7.1.8 Complete concrete works of gross plan area for WVB 0.5	0		13-Sep-22 A 13-Jan-23 A	4.54 IOI VV VD 0.20	◆ 7.1.8 Complete concrete works of gross plan area for WVB 0.5
8.1 Eastern Ventilation Building	189	13-Sep-22 A			▼ 1.1.0 DOMINIE CONTINUE CONT
<u> </u>		13-Sep-22 A	24-May-23	 	
8.1 .3 Complete excavation for EVB 1	0		13-Sep-22 A	 	
8.1 .4 Complete concrete works of gross plan area for EVB 0.25	0		24-May-23	 	◆ 8.1.4 Complete concre
9.1 Launching Shaft	0	28-Feb-23	28-Feb-23		
9.1 .18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2	0		28-Feb-23	I : : : : : : : : : : : : : : : : : : :	♦ 9.1.18 Complete permanent wall & bottom slab for Launching Shaft by length 0.2

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

ivity Name	Dur	Start	Finish			2022						2023					
				30 06	November 13 20 1	27 04	December 11 18 25 0	January	Fe Fe Fe	bruary	Ma 26 05 12		April 2 09 16	23 30 (May 07 14	1 21 1 28	June
9.1 .19 Complete permanent wall & bottom slab for Launching Shaft by length 0.4	0		28-Feb-23	00	13 20	21 04	11 10 23 0	00 13 22	29 00	12 19		lete permanent wall				0.4	04 11 1
9.1.20 Complete permanent wall & bottom slab for Launching Shaft by length 0.6	0		28-Feb-23									lete permanent wall					
9.1.21 Complete permanent wall & bottom slab for Launching Shaft by length 0.8	0		28-Feb-23						 	. . -		lete permanent wall					
9.1.22 Complete permanent wall & bottom slab for Launching Shaft by length 1	0		28-Feb-23							1 1 .	LL I I i -	lete permanent wall	L L L L _				
9.1.23 Complete permanent top slab for Launching Shaft by length 0.2	0		28-Feb-23				-					lete permanent top s					
9.1 .24 Complete permanent top slab for Launching Shaft by length 0.4	0		28-Feb-23							‡ ‡ -	FI	lete permanent top s			! !	{	
11.1 Drill and Break Tunnel	189	13-Jun-22 A	31-Mar-23						<u> </u>		9.1.24 COMP	ete permanentitop s	Sidu for Lauriciling	Sitali, by length	10.4,	!!	
	109	13-Jun-22 A							ļ								
11.1.2 Complete tunnel excavation 0.5 by length	0		13-Jun-22 A														
11.1.3 Complete tunnel excavation 0.6 by length	0		13-Jul-22 A						ļ 								
11.1.5 Complete tunnel excavation 0.7 by length	0		13-Sep-22 A	gtn ¦							-						
11.1.7 Complete tunnel excavation 0.8 by length	0		18-Nov-22 A		→ 11.1.70	Complete tur	ninel excavation 0.8 by le	gth	<u> </u>							-	
11.1.9 Complete tunnel excavation 0.9 by length	0		13-Feb-23 A						<u> </u>	→ 11:1.9 Cam	plete tunnel exca	avation 0.9 by lengtl					
11.1.11 Complete tunnel excavation 1 by length	0		31-Mar-23									→ 11	.1.11 Complete tur	nnel excavation	1 1 by lengt	.th	
11.2 Cross Passages for Drill and Break Tunnel	0	03-May-23	03-May-23														
11.2.1 Complete cross passages structure 0.1 by length	0		03-May-23						<u> </u>			. i i i		♦ 11.7	2.1 Comple	te cross passa	iges structure 0.1
12.1 Drill and Blast Tunnel	0	13-Jan-23 A	13-Jan-23 A														
12.1.12 Complete tunnel structural lining 0.1 by length	0		13-Jan-23 A					◆ 12.1.12 Com	plete tunnel stru	uctural lining 0	1 by length				!		
12.2 Cross Passages for Drill and Blast Tunnel	0	22-May-23	22-May-23												1		
12.2.1 Complete cross passages structure by length 0.1	0		22-May-23							<u>-</u>						♦ 12.2.1 Cc	mplete cross pa
13.1 Lam Tin Interchange Works	37	28-Feb-23	17-Apr-23	·					ii-								
13.1.1 Complete foundation	0		28-Feb-23*								13.1 .1 Comp	lete foundation				;	
13.1.2 Complete fabrication of structural frame	0		28-Feb-23*								<u> </u>	lete fabrication of str	ructural frame				
13.1.3 Complete installation of structural frame	0		28-Feb-23*									lete installation of st					
13.1.4 Complete remaining works	0		17-Apr-23*								13.1 .5 Comp			1.4 Complete re	omaining w	orke	
13.1.5 Complete remaining works 13.1.5 Complete whole activities of this cost centre	0		· ·					i i i i			-			1.5 Complete w			oontro
14.2 At-grade Roadworks for Trunk Road T2 (including Depressed Roa	0	17 May 92	17-Apr-23*				÷							.5 Collibrate w	TIOLE ACTIVITIE	25 01 1115 0050	Centre
	0	17-May-23	17-May-23													}	ļ,- - }, \ -,
14.2.7 Complete drainage installation 0.5	0		17-May-23						<u></u>		-					14.2.7 Comple	te drainage insta
14.5 Provisions for GOFS	0	18-Apr-23	18-Apr-23														
14.5.1 Complete provision for GOFS 0.2	0		18-Apr-23*				<u> </u>		<u>;</u>				◆ 14.	5 .1 Complete p	provision for	r GOFS 0.2	
15.0 E&M Design Works	42	13-Feb-23 A	03-Apr-23												!		
15.0 .10 Approval DDA for electrical system (power supply)	0		13-Feb-23 A							♦ 15.0 .10 Ap	proval DDA for e	electrical system (po	wer supply)				
15.0 .22 Approval DDA for Tunnel plumbing & drainage	0		13-Feb-23 A							♦ 15.0 .22 Ap	proval DDA for T	unnel plumbing & di	Irainage				
15.0 .26 Approval DDA for Tunnel lighting system	0		13-Feb-23 A							♦ 15.0.26 Ap	proval DDA for T	Tunnel lighting system	m				
15.0 .6 Approval DDA for tunnel ventilation system	0		28-Feb-23								15.0 .6 Appro	val DDA for tunnel v	entilation system				
15.0.14 Approval DDA for Tunnel extra low voltage system	0		28-Feb-23								15.0 .14 Appr	oval DDA for Tunnel	l extra low voltage	system			
15.0.30 Approval DDA for remaining tunnel and at-grade E&M systems	0		28-Feb-23								15.0 .30 Appr	oval DDA for remain	ning tunnel and at-	grade E&M sys	stems		
15.0.34 Approval DDA for E&M in WVB	0		28-Feb-23								15.0 .34 Appr	oval DDA for E&M ir	n WVB				
15.0 .38 Approval DDA for E&M in EVB	0		28-Feb-23	1					!		15.0 .38 Appr	oval DDA for E&M ir	n EVB			!	
15.0.42 Approval DDA for APS in WVB	0		28-Feb-23				<u> </u>		<u> </u>		HH	oval DDA for APS in				{{	
15.0.18 Approval DDA for Tunnel fire services system	0		03-Apr-23						1-1-11			t t l t	15.0 .18 Approval	DDA for Tunne	el fire servic	es system	
15.0.43 Complete whole activities of this cost centre	0		03-Apr-23										15.0.43 Complete			-,,	
15.2 E&M Works for Western Ventilation Building	225	13-Jul-22 A	13-Dec-22 A				<u> </u>		{ -	·							
<u> </u>		10 Jul ZZ A														}	
15.2.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0		13-Jul-22 A														
15.2.9 Complete UG pipeworks from sumpit to manhole 0.5	0		13-Jul-22 A	to 110 -:	noworks from	nnit ta mari											
15.2.10 Complete UG pipeworks from sumpit to manhole 1	0		13-Oct-22 A	ric o'o bil	peworks from sur	iipii iu iliann		nibal mat nit sand	oponing and							<u> </u>	
15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1	140	12 0 00 4	13-Dec-22 A	l			◆ 15 2 .2 Complete ter	mnai, mat, pri, conduit,	opening and fe	CCSS EIC. I	 						
15.3 E&M Works for Eastern Ventilation Building	149	13-Sep-22 A	13-Dec-22 A	l			÷		<u> </u>								
15.3.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5	0		· ·	pening ai	nd recess etc. 0.	5	+		<u> </u>							ļ	
15.3.7 Complete pit, cable duct, drawpits and accessories etc 0.5	0		13-Dec-22 A				◆ 15.3 .7 Complete pit	cable duct, drawpits a	nd accessories	etc U.5						ļļļ	
15.4 APS Works for Western Ventilation Building	0	28-Feb-23	28-Feb-23														
15.4 .1 Complete site delivery of DeNO2 filters	0		28-Feb-23*				ļ			‡ ‡ _	FF	lete site delivery of D				<u> </u>	
15.4.2 Complete installation of DeNO2 filters	0		28-Feb-23*								15.4 .2 Comp	lete installation of Do	eNO2 filters				
15.4.3 Complete site delivery of electrostatic precipitation system	0		28-Feb-23*								15.4.3 Comp	lete site delivery of e	electrostatic precipi	itation system	1		
oge 10 of 30 ♦ Milestone						* *		* * *	 				Da	ate R	Revision	Checke	ed Appr
ige 10 01 00			140/04	┰	ء 🗖 ءاوں		O a 10 al 1.a.f.		. \				18-Dec			WYu	1-1
ata Date: 28-Feb-23 Critical Activity		ED/2(J 18/U4	ırı	INK KO	ad I	2 and Infra	astructure	e vvork	⟨S ∕			22-Feb			SPa/LLo	WYu
◆ Actual Milestone			fo	r Da	avelon	nant	s at South	Anron			BOU	YGUES JX PUBLICS	09-Apr-			SPa/LLo	WYu
Actual Work			10	י טל	- A GIODI		s at Jouth	Ahinii			TRAVAL	JX PUBLICS	17-, Jul-2			SPa/LLo	WYI

Three Months Rolling Programme (Feb-23)

TRAVAUX PUBLICS

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

ivity Name	Dur	Start	Finish	2022		2023																			
			30 06	vember 13 20) 27		cember 11 18	25	01	January 08 15	1 22 1 2		ebruary 12 19	26		March 12 19	26	02 09	April 9 I 16	1 23 1 3	30 07	May 14 21	28 04	June 11	18 25
15.4.4 Complete installation of electrostatic precipitation system	0		28-Feb-23*	10 20		01	11 10	20	01	00 10	22 2	00	12 10					of electrosta				17 21	20 04	1 ''	10 20
15.4.5 Complete site delivery of wash down system	0		28-Feb-23*	!						!	1		!	1				y of wash do						1	
15.4.6 Complete installation of wash down system	0		28-Feb-23*								ii		ii	.			I	of wash dov		-;;				·ii	
15.4.7 Complete site delivery of support system	0		28-Feb-23*	<u>-</u>		} !					<u> </u>			<u> </u>		L	L L	of support	'	-}					
15.4.8 Complete installation of support system	0		28-Feb-23*			ii								+ +	+	+	+	of support s		-					
17.1 Works under Sections 6A, 6C and 12 and Associated Landscape \	156	13-Jun-22 A	28-Feb-23			¦							ii			1010 1110		o, cappoit o	,,00						
17.1.10 Complete pavement of at-grade roads 0.5	0	10 00 2271	13-Jun-22 A										<u> </u>	 	 										
17.1.7 Complete sub-base and roadbase works of at-grade roads 0.8	0		13-Jul-22 A			<u></u>							ļ		<u>i</u>									. 	
17.1.8 Complete sub-base and roadbase works of at-grade roads 1	0		13-Jul-22 A															·							
17.1.28 Complete manhole for drainage 1	0		13-Jul-22 A	 									 	-	 	·									
17.1.11 Complete pavement of at-grade roads 0.8	0		13-Aug-22 A																	-					
17.1.52 Complete chambers of waterworks 0.8	0		13-Aug-22 A								<u> </u>		-	†- -				<u> </u>		-}					
17.1.45 Complete watermain installation 1	0		13-Sep-22 A								 		ļ												
17.1.49 Complete anchor blocks, thrust block etc for waterworks 1	0		13-Sep-22 A etc for wat	¦							ii		 	 				·							
17.1.53 Complete chambers of waterworks 1	0		13-Sep-22 A										 	-						-}}					
17.1.4 Complete excavation and disposal of material works 1	0		13-Oct-22 A e excavatio	and dien	nsal of ma	terial wor	¦ ks 1:													- -					
17.1.13 Complete excavation and disposal of material works 1 17.1.13 Complete footpath 0.25	n		13-Oct-22 A te footpath				 						ii					·						· 	
17.1.13 Complete footpath 0.25 17.1.14 Complete footpath 0.5	0		13-Oct-22 A te footpath										<u> </u>					<u> </u>				<u>-</u>			! _
	0													-										· 	
17.1.15 Complete footpath 0.8	0			J.U			17 1 17	Comple	to stroot f	furnitures e	of at-grade r	oade 0 2	<u> </u>												
17.1.17 Complete street furnitures of at-grade roads 0.25	0		13-Dec-22 A			-	11;1.17	Comple			4 4 1		watermains sy	ictom 1				ļ		-					
17.1.54 Complete T&C of watermains system 1	0		13-Jan-23 A							17.1 3	54 Complet	e i ac or	watermains sy	÷	12.00					-}					
17.1.12 Complete pavement of at-grade roads 1	0		28-Feb-23			ļ <u> </u>					ļ		ļ <u></u>	1				of at-grade	roads i						
17.1.16 Complete footpath 1	0		28-Feb-23											÷		mplete fo		 							
17.1.18 Complete street furnitures of at-grade roads 0.5	0		28-Feb-23			 							 	1 1				itures of at-	'					. 	
17.1.19 Complete street furnitures of at-grade roads 0.8	0		28-Feb-23			 							<u> </u>	+	+	. - +		itures of at-	·	-					
17.1.20 Complete street furnitures of at-grade roads 1	0		28-Feb-23			} <u>-</u>					ļ		¦	1 - <u> </u> 1				itures of at-	·'	ads 1					
17.1.25 Complete manhole for drainage 0.25	0		28-Feb-23			 					<u> </u>		ļ 	1				or drainage							
17.1 .32 Complete T&C of drainage system 1	0		28-Feb-23			ļ							ļ					ainage syste	'	.ļ ļ					
17.1 .41 Complete T&C of sewerage system 1	0		28-Feb-23			<u></u>					<u> </u>		¦	! - !				werage syst	!						
17.1 .55 Complete landscaping works 0.25	0		28-Feb-23			 					ii		ļļ	+	+			ng works 0.							
17.1 .56 Complete landscaping works 0.5	0		28-Feb-23			 					<u> </u>		¦ 				' ' 1	ng works 0.	'						
17.1 .57 Complete landscaping works 0.8	0		28-Feb-23								1		ļļ	4 4	+	L		ng works 0.	!					ļļ.	
17.1.58 Complete landscaping works 1	0		28-Feb-23			<u> </u>			<u>-</u>					17.1	.58 Co	m plete la	andscapi	ng works 1 vities of this							
17.1 .60 Complete whole activities of this cost centre 1	0		28-Feb-23					. j	<u> </u>		jj.		ji.	17.1	.60 Co	m plete w	hole acti	vities of this	cost cer	ntre 1				.jj	j.
17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As:	0	28-Feb-23	28-Feb-23						<u> </u>		<u> </u>		 											.]	
17.2.1 Complete irrigation system 0.3	0		28-Feb-23	!						!				17.2	.1 Con	nplete irri	gation sy	stem 0.3							
17.2.2 Complete irrigation system 0.6	0		28-Feb-23											17.2	2 Con	plete irri	gation sy	stem 0.6							
17.2.3 Complete irrigation system 1	0		28-Feb-23]]	17.2	.3 Com	plete irri	gation sy	stem 1							
17.2.4 Complete whole activities of this cost centre 1	0		28-Feb-23					-		!				17.2	4 Con	nplete wh	olę activ	ities of this o	cost cent	re 1			:		
17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se	143	13-Jan-23 A	23-Jun-23																				:		
17.4.1 Complete excavation and disposal of material works 0.25	0		13-Jan-23 A			j j : ! !	j		-	♦ 17.4 .′	1 Complete	excavation	on and dispose	al of mate	rial wor	ks 0.25		·		-jj	· j j			·	
17.4.31 Complete sewerage installation 0.25	0		13-Jan-23 A			<u></u>					4		ge installation												
17.4.40 Complete watermain installation 0.25	0		13-Jan-23 A			 	 			♦ 17.4.4	40 Complet	e waterma	ain installation	0.25		!				-[1	
17.4 .35 Complete manhole for sewerage 0.25	0		13-Jan-23 A			;; 				♦ 17.4	.35 Comple	te manhol	ie for sewerag	e 0.25		·		; ;		·i				· † †	
17.4.2 Complete excavation and disposal of material works 0.5	0		10-Jun-23								<u> </u>			:										17.4 2	Comp
17.4 .3 Complete excavation and disposal of material works 0.8	0		23-Jun-23			; <u>-</u>					ii		ii	 				·		-ii				ii	• 1
17.5 Remaining Stage 5 Infrastructure Works - Landscaped Elevated V	232	13-Jun-22 A	13-May-23								<u> </u>		<u></u>					<u> </u>							
17.5.17 Complete concrete works of piers 0.5	0		13-Jun-22 A	<u>-</u>		! <u>i</u>					ţ		-	<u> </u>	 	·									
17.5.17 Complete conclete works of piers 0.5 17.5.14 Complete installation and commissioning of temporary ramp	0		13-Jul-22 A																						
17.5.14 Complete installation and commissioning of temporary ramp 17.5.15 Complete demolition of existing ramp	n		13-Aug-22 A										 					·		-}				·	
17.5.4 Complete demolition of existing ramp	0		13-Sep-22 A																						
17.5.7 Complete piled foundations of FB02 0.8	0		13-Sep-22 A 1.8			-							ii	 	 	·									
·	0																			-}					
17.5 .18 Complete concrete works of piers 0.8	U		13-Sep-22 A 8			<u> </u>	i	į	<u> </u>	i	<u>: i l</u>	į	<u>i i </u>	<u>: II : </u>		i	į	<u> </u>	i	: il		<u> </u>	<u> </u>	<u>. i</u>	

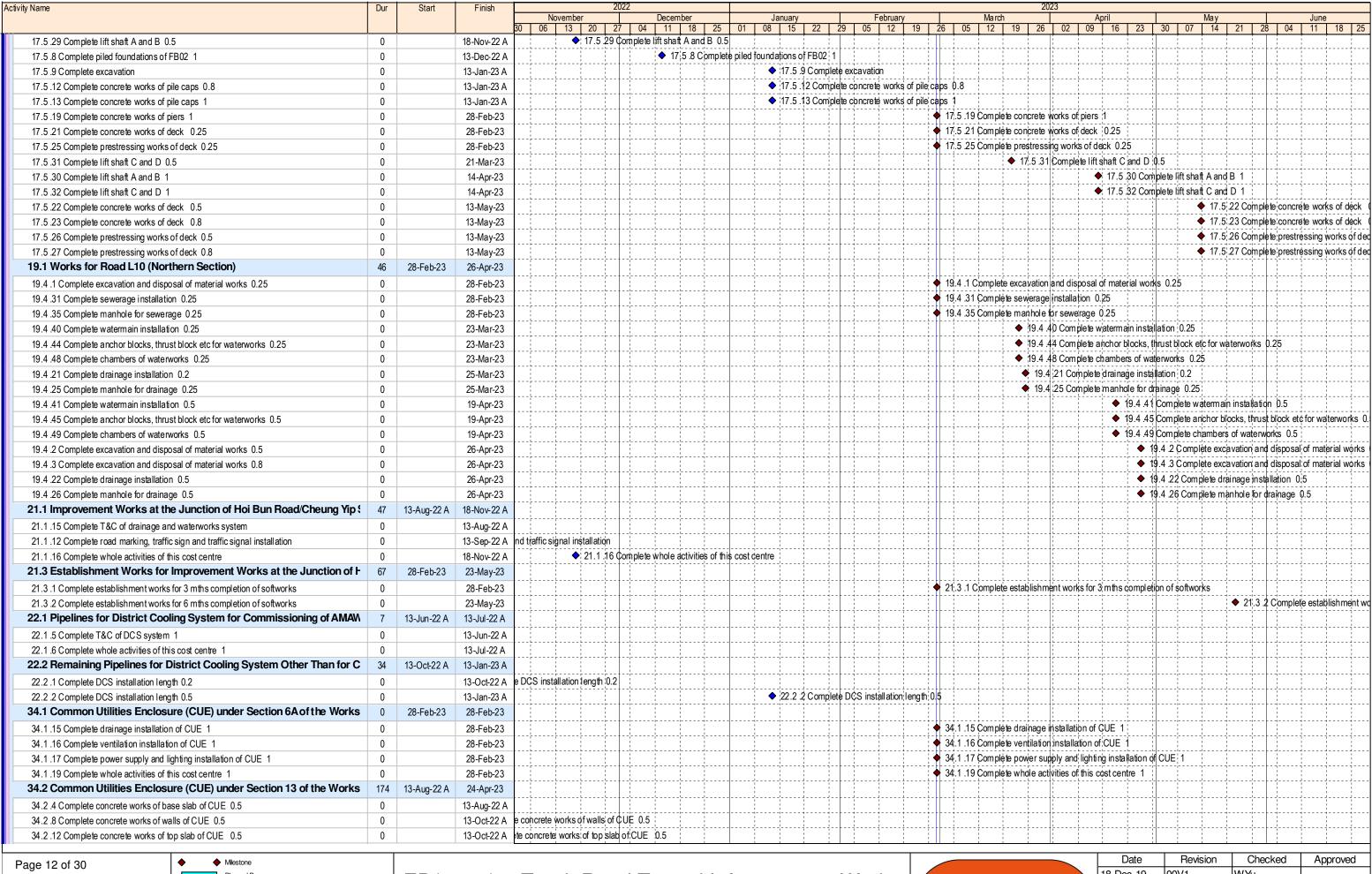
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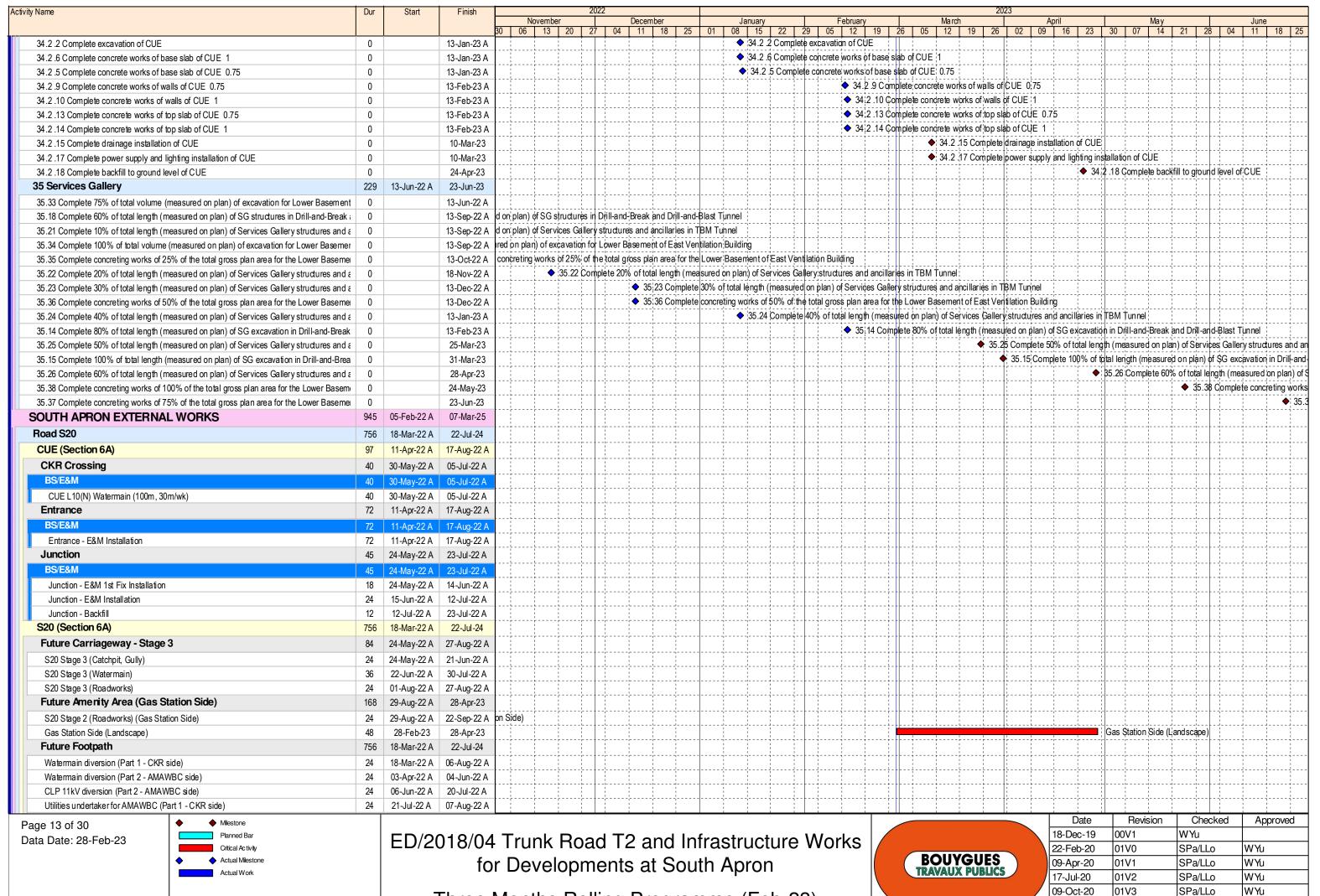




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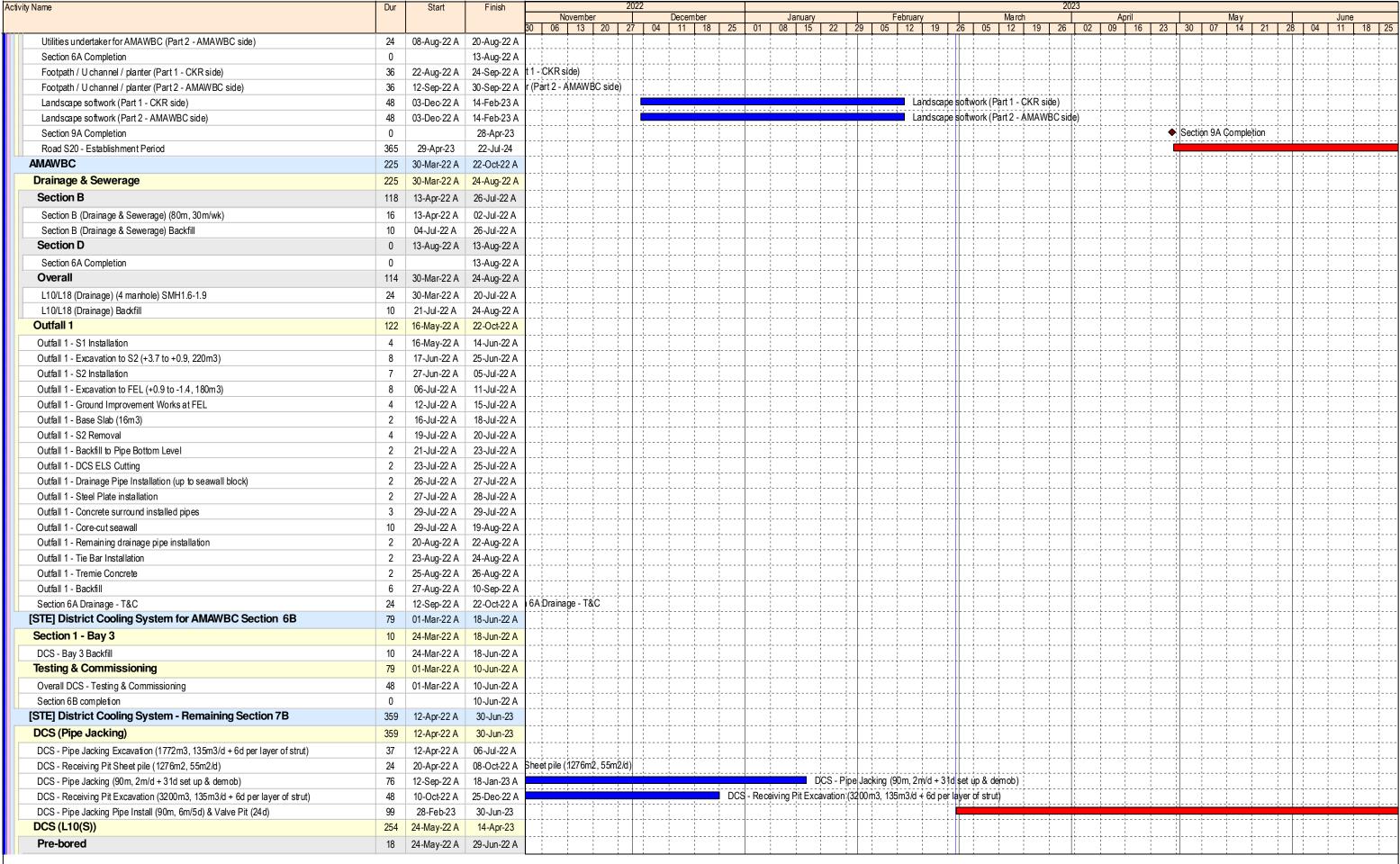


Three Months Rolling Programme (Feb-23)

02-Jul-21

SPa/LLo

WYu



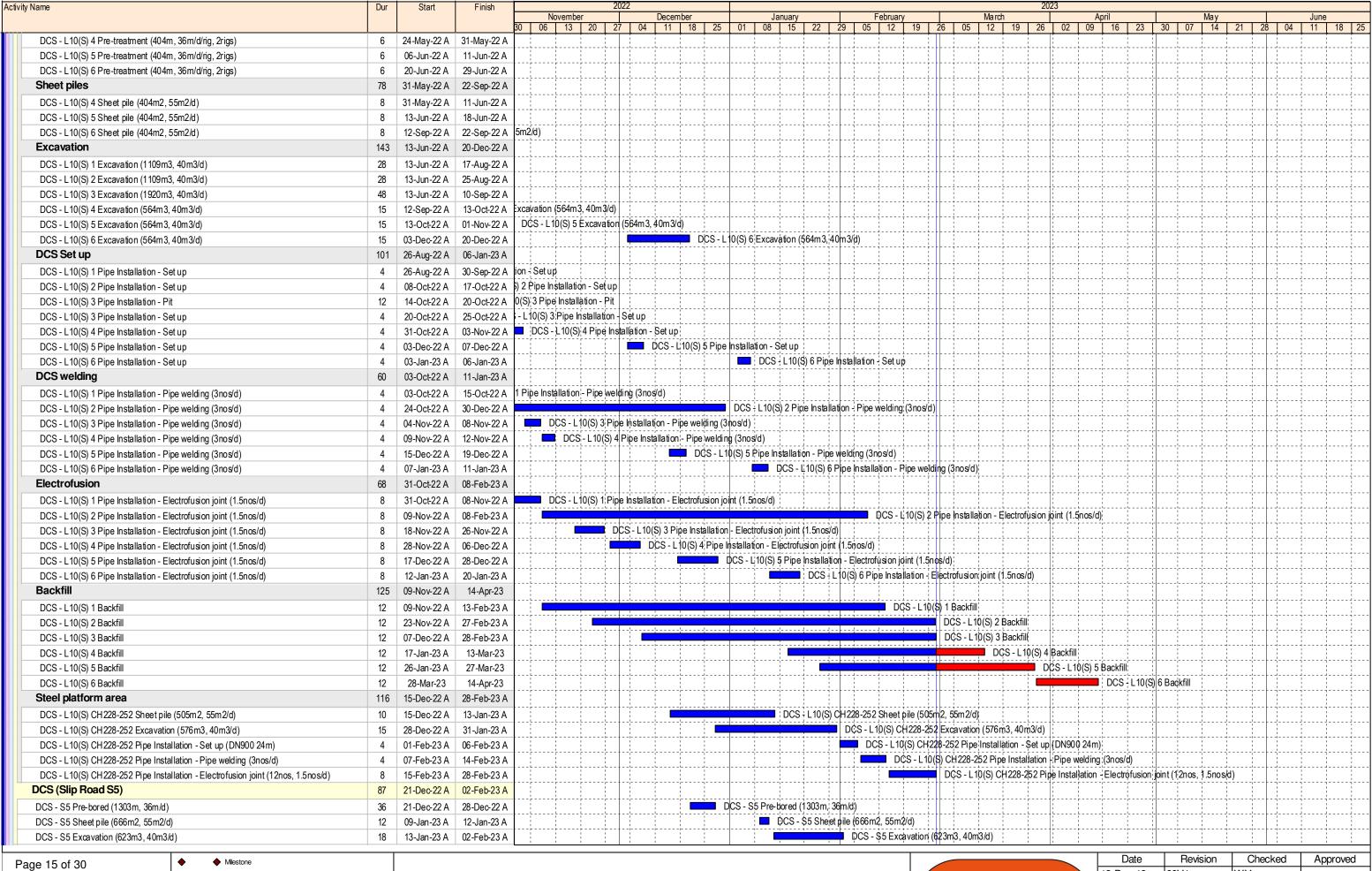
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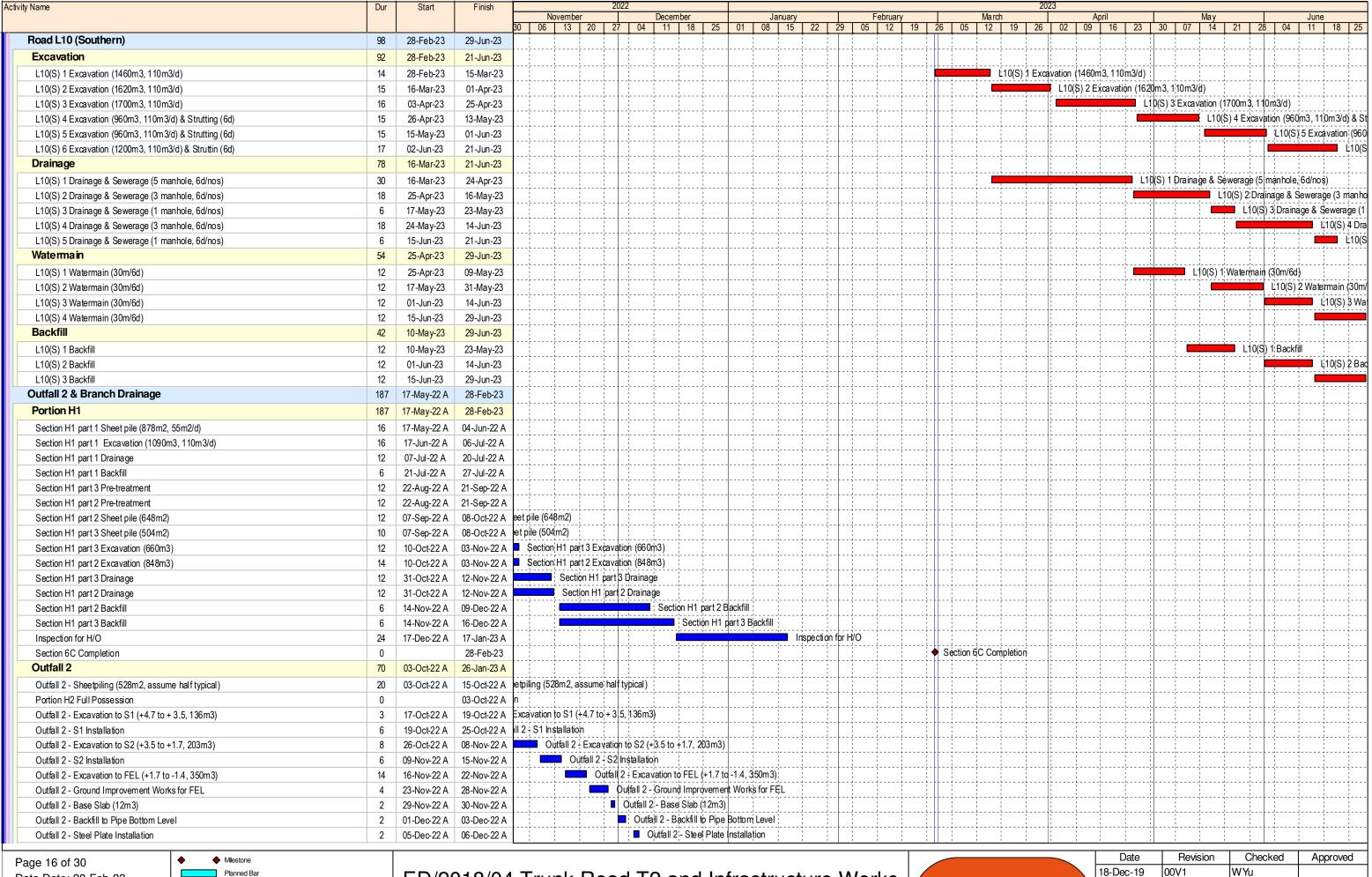




ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

BOUYGUES TRAVAUX PUBLICS

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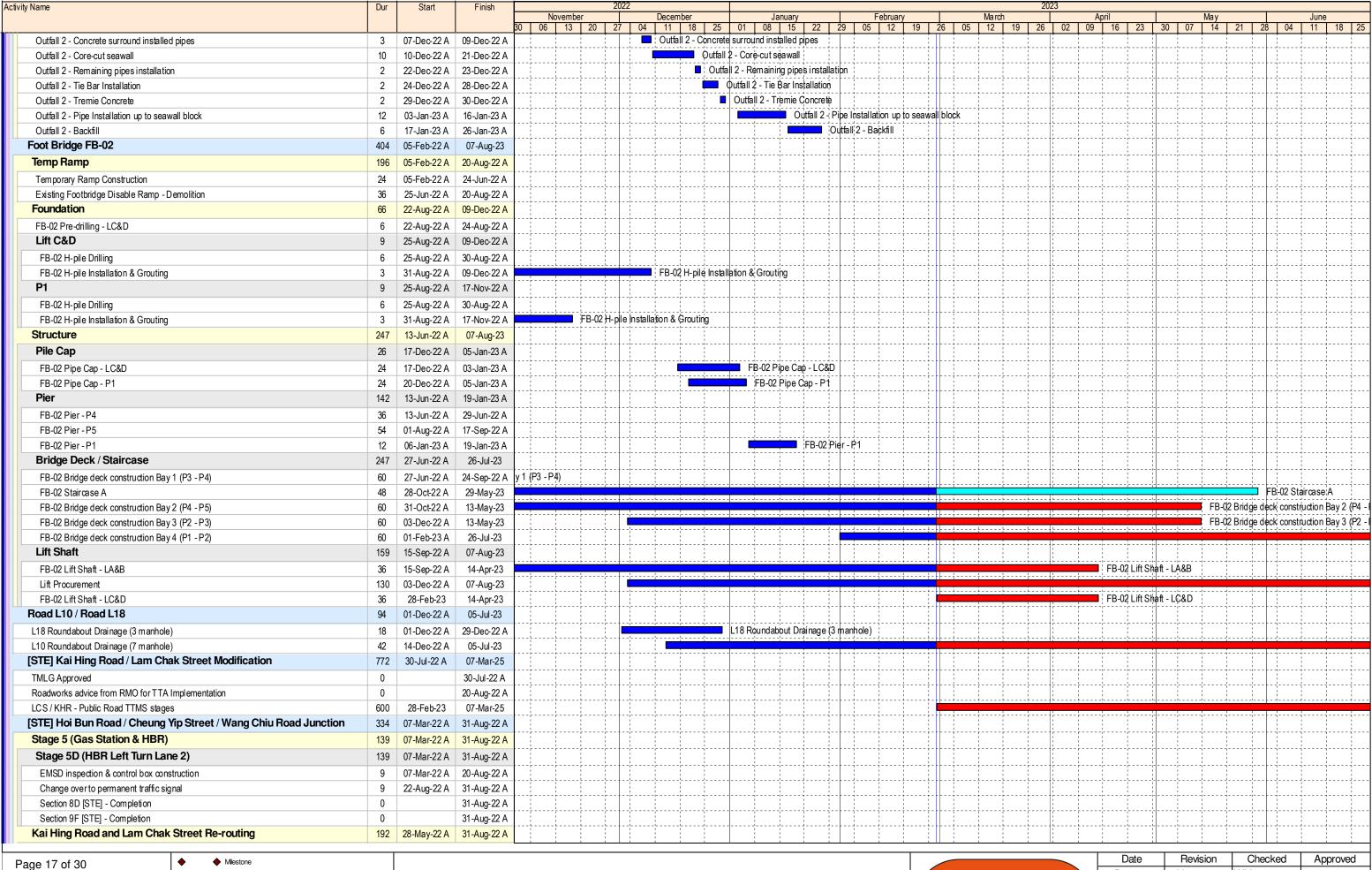




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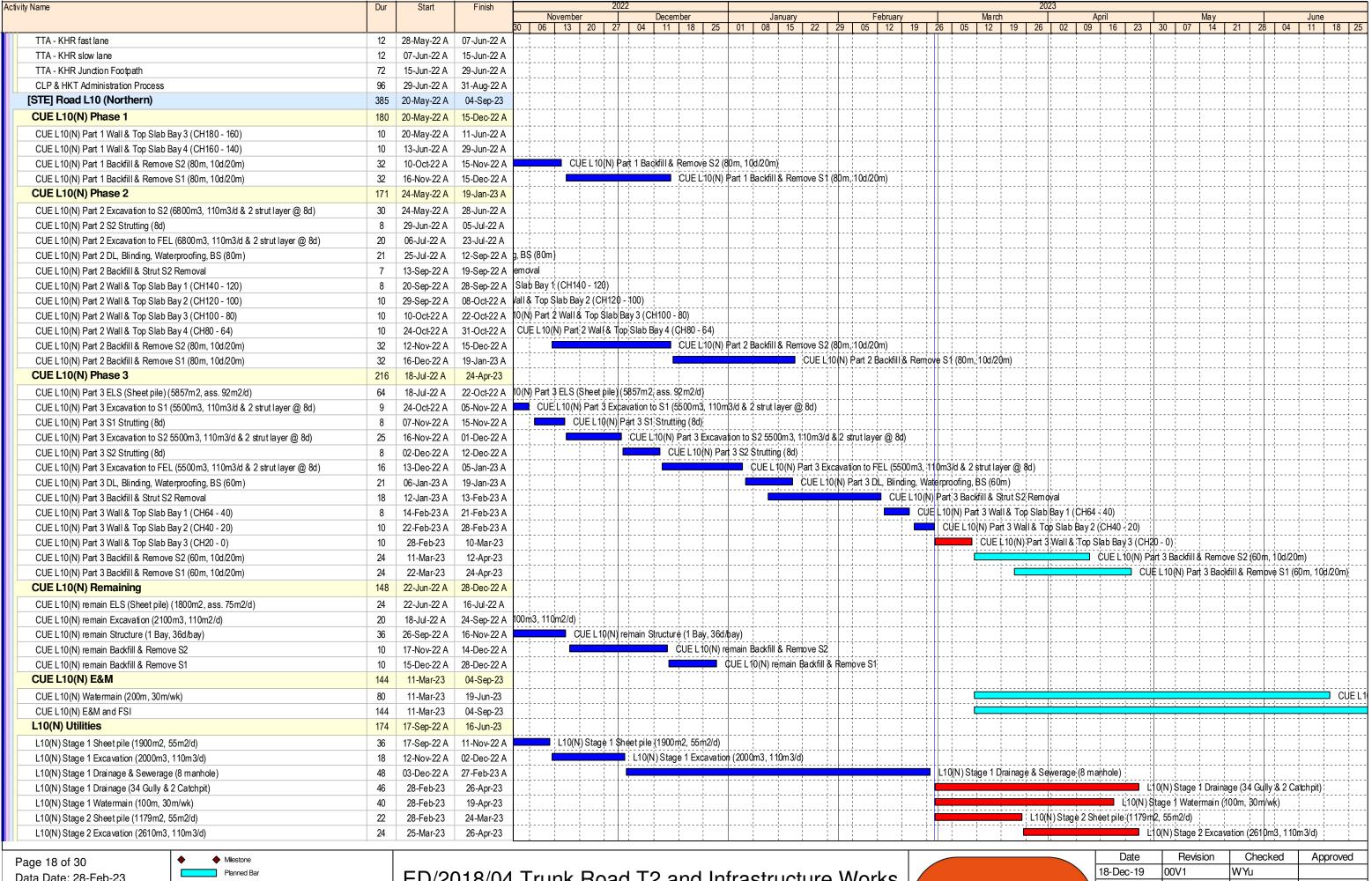
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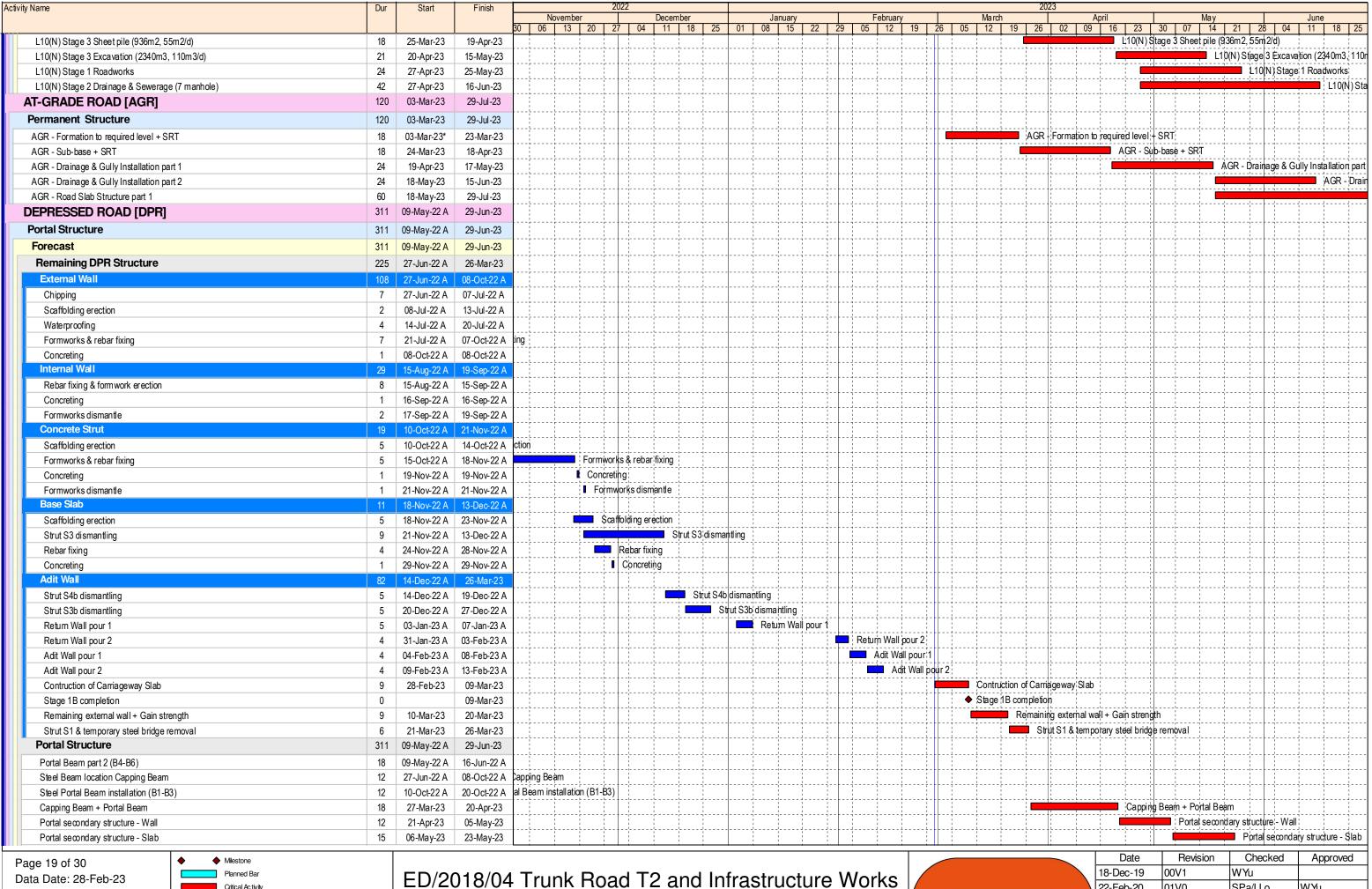


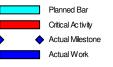


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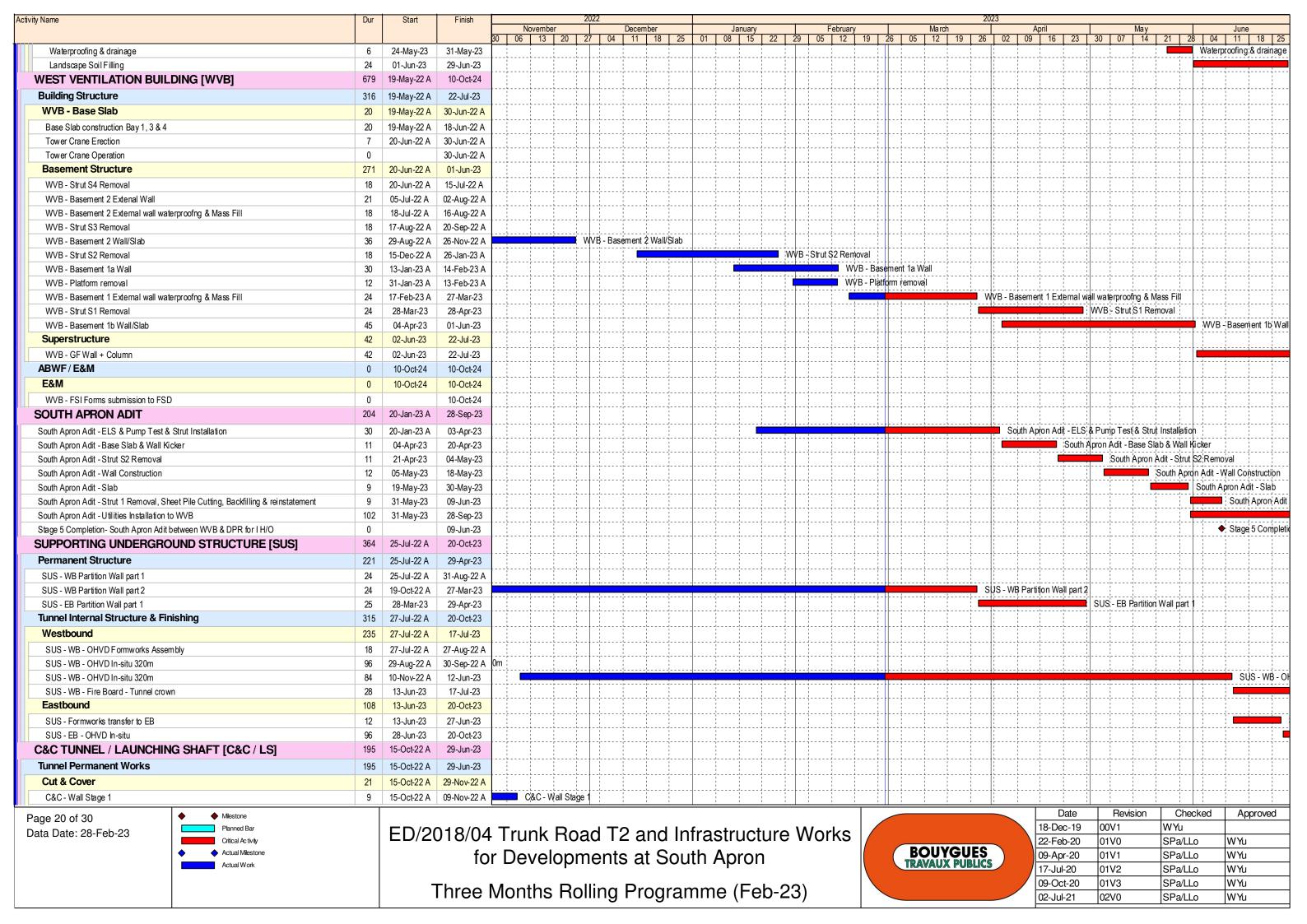


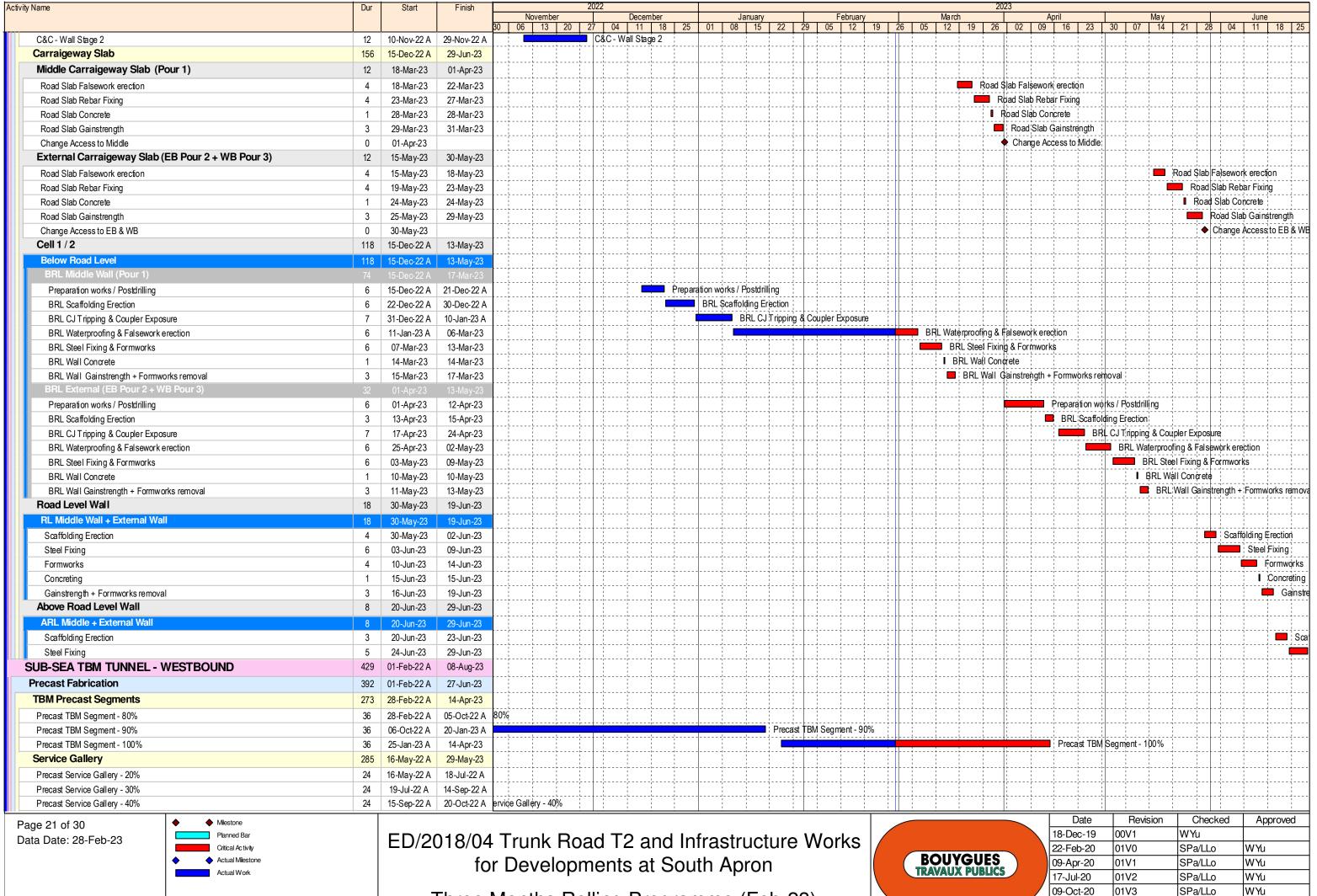


for Developments at South Apron

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	BOUYGUES TRAVAUX PUBLICS

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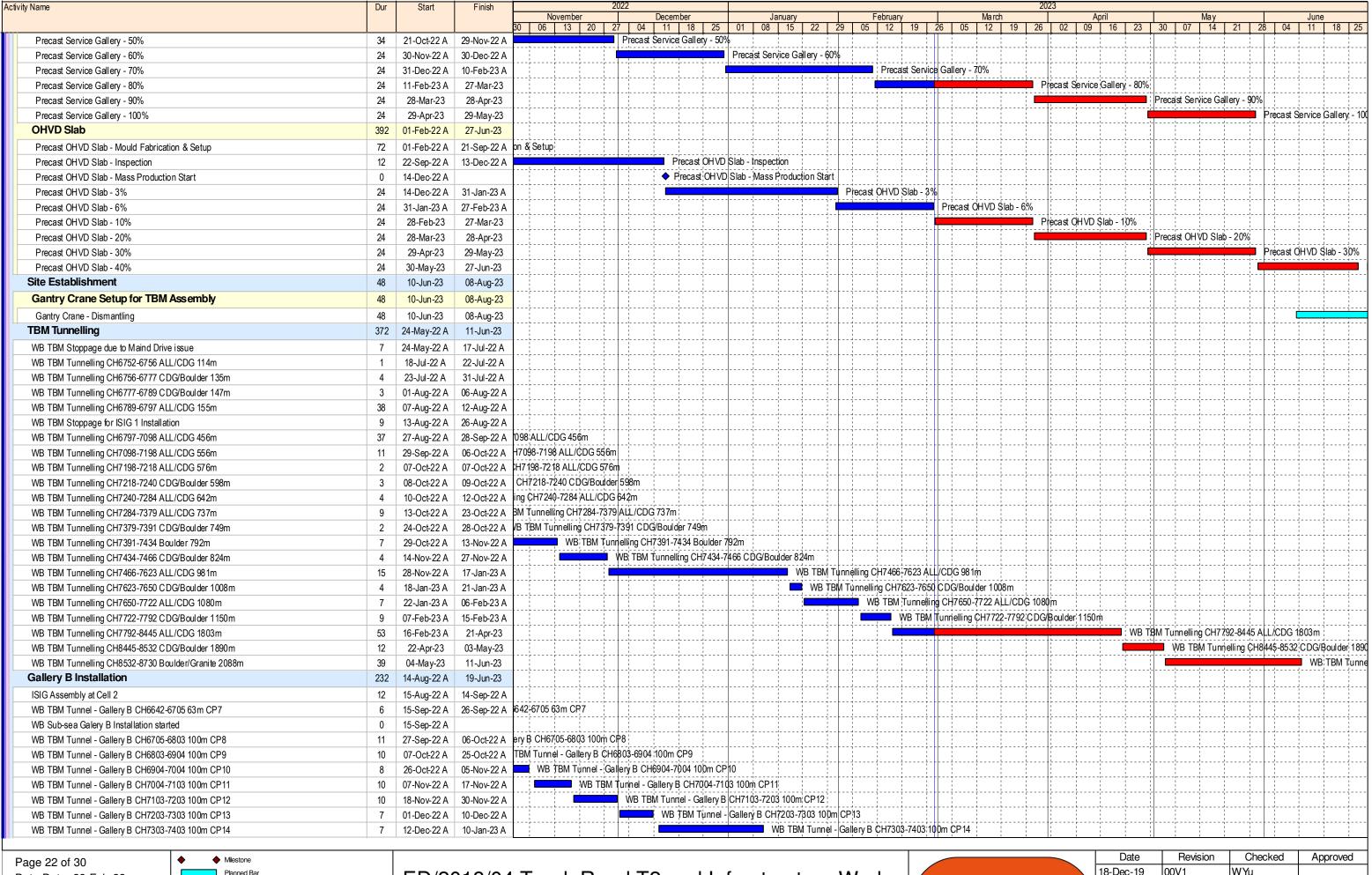


Three Months Rolling Programme (Feb-23)

02-Jul-21

SPa/LLo

WYu

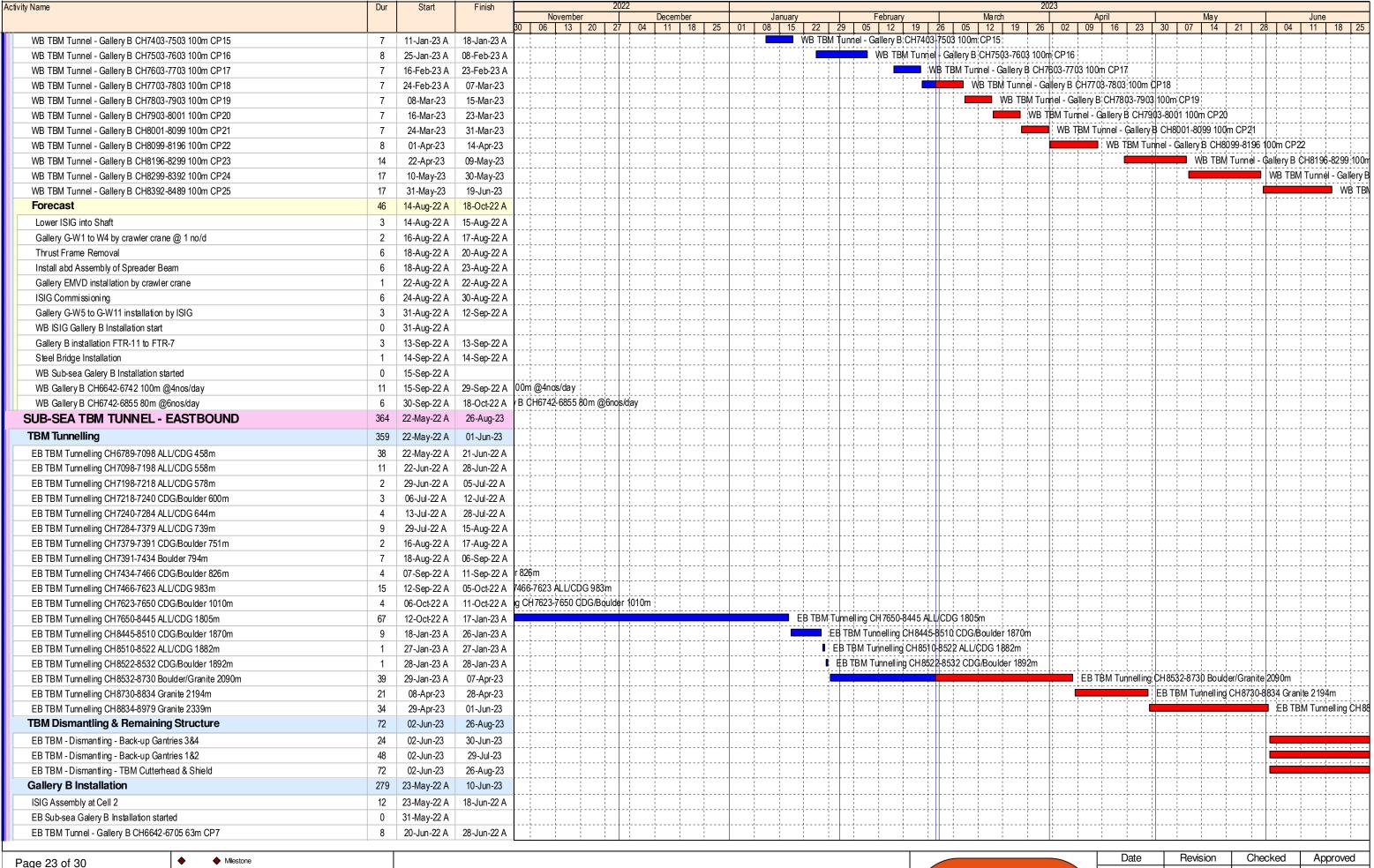


Planned Bar
Critical Activity
Actual Milestone
Actual Work

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



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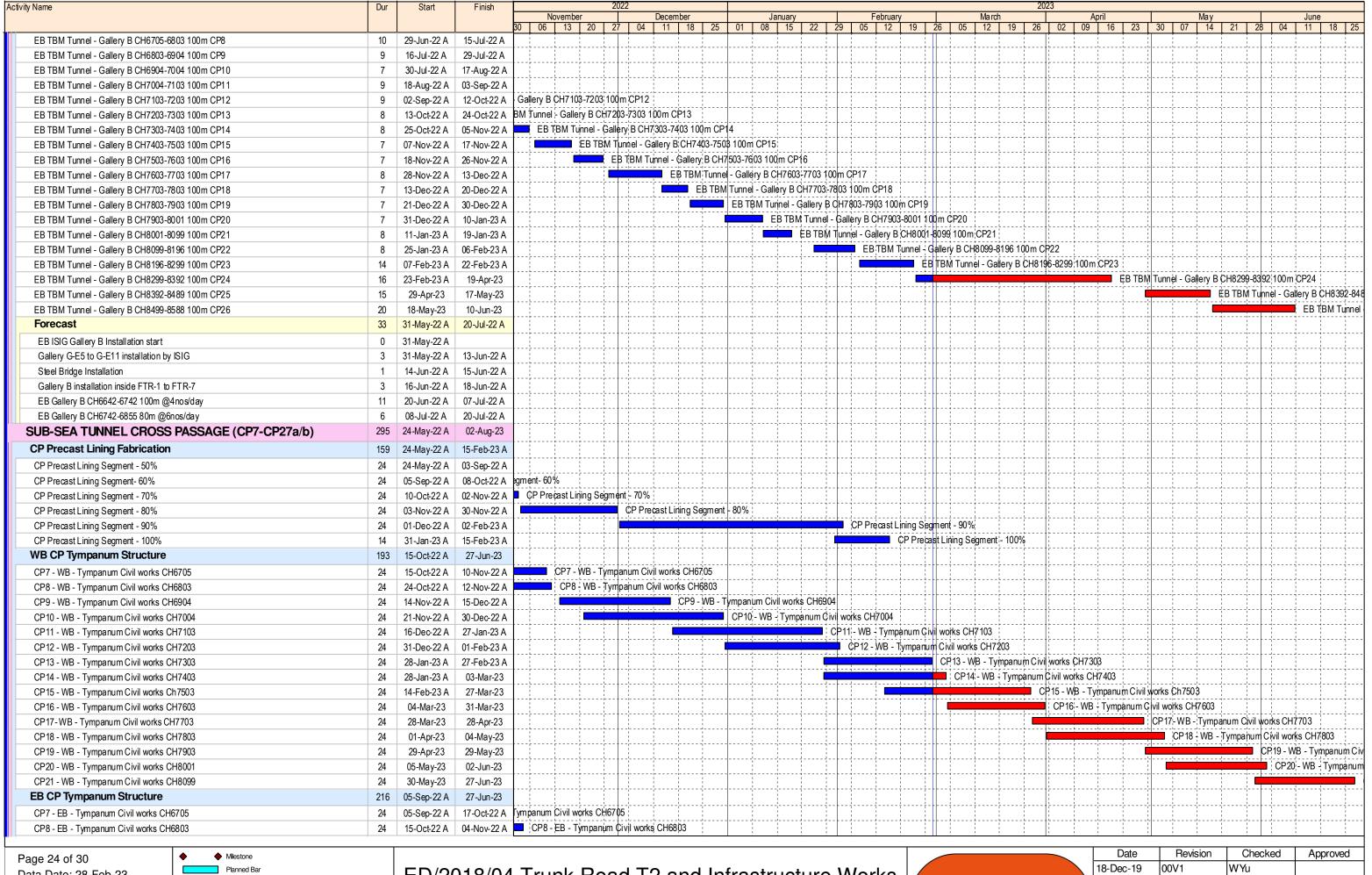
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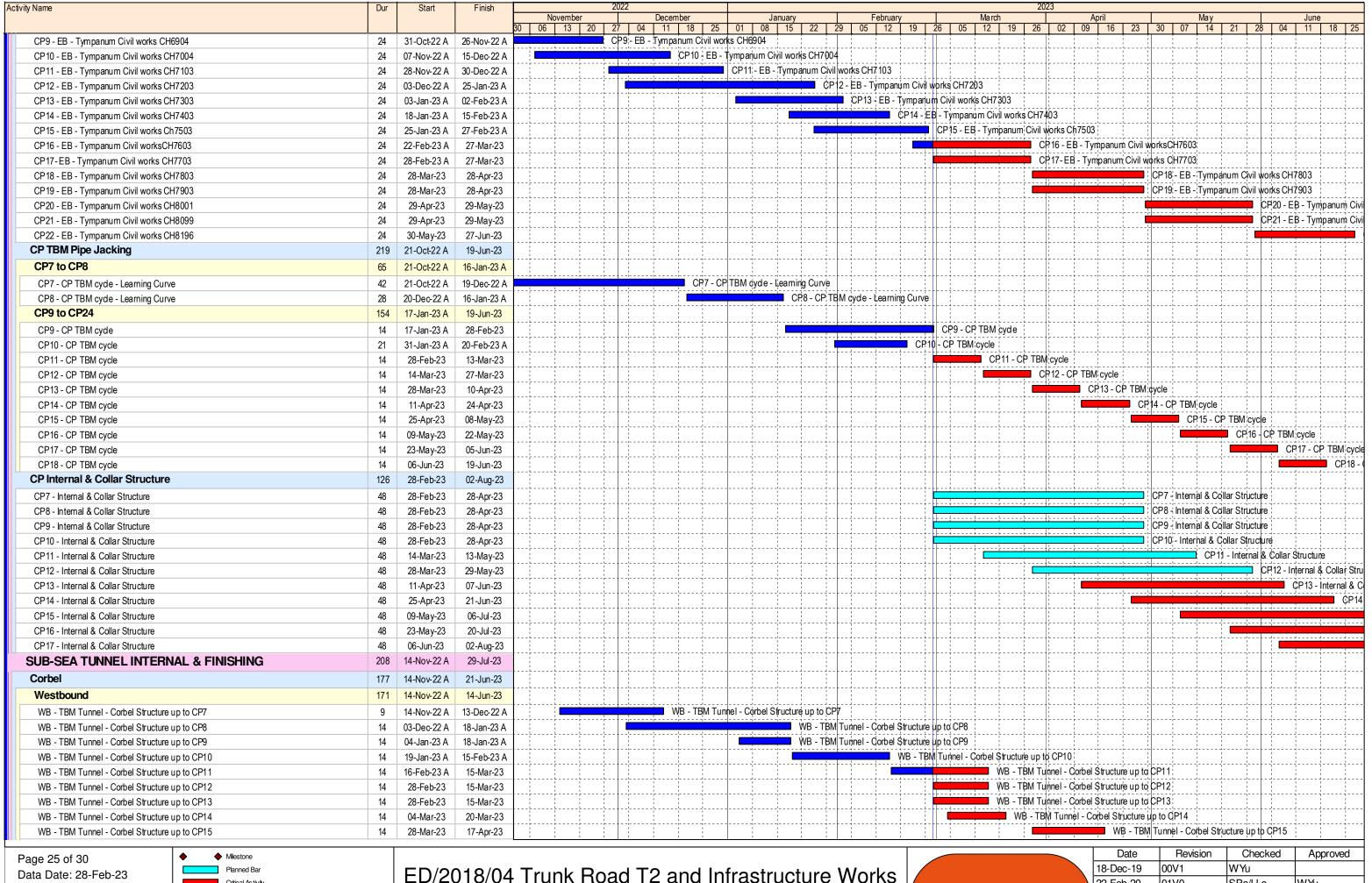




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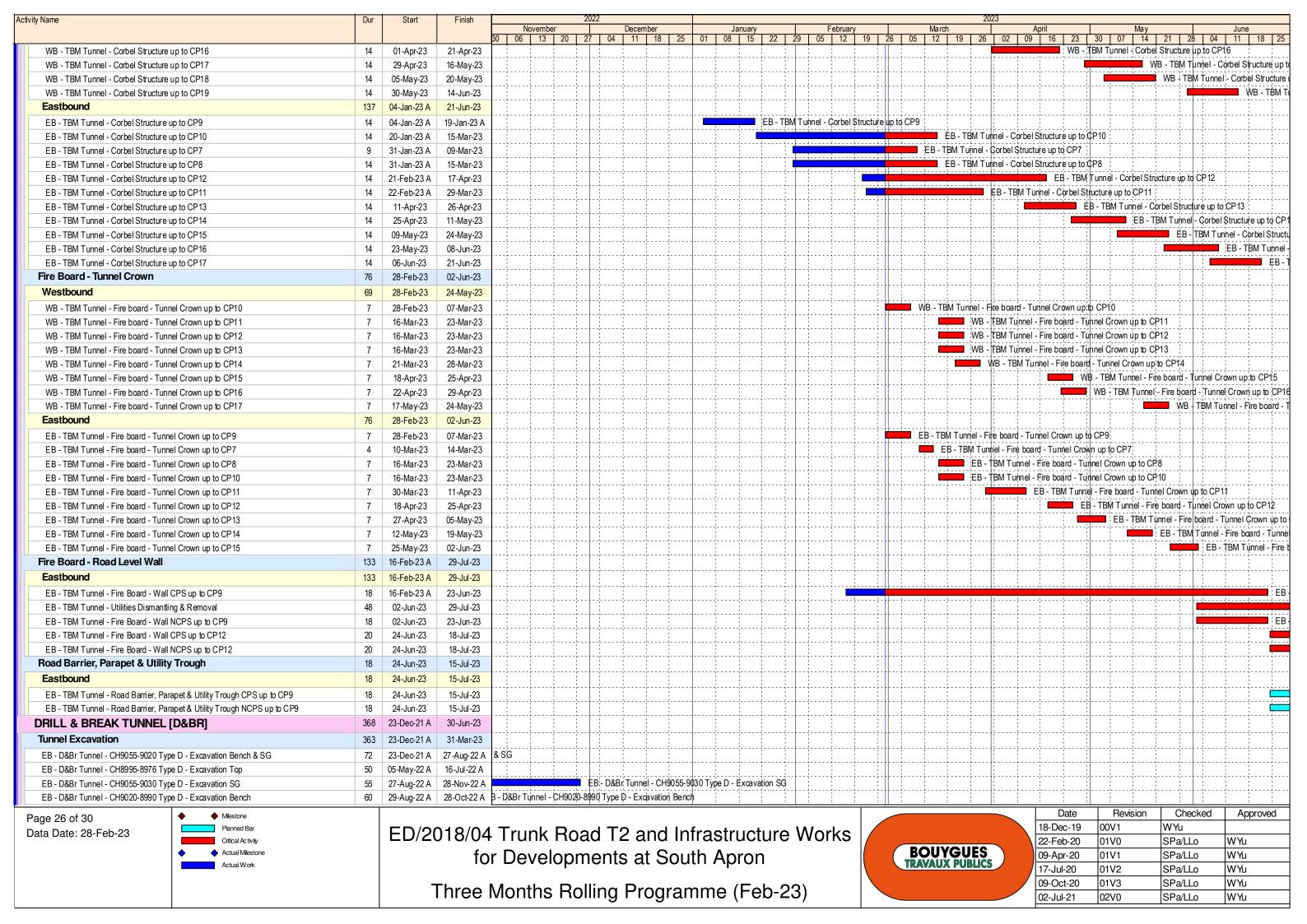


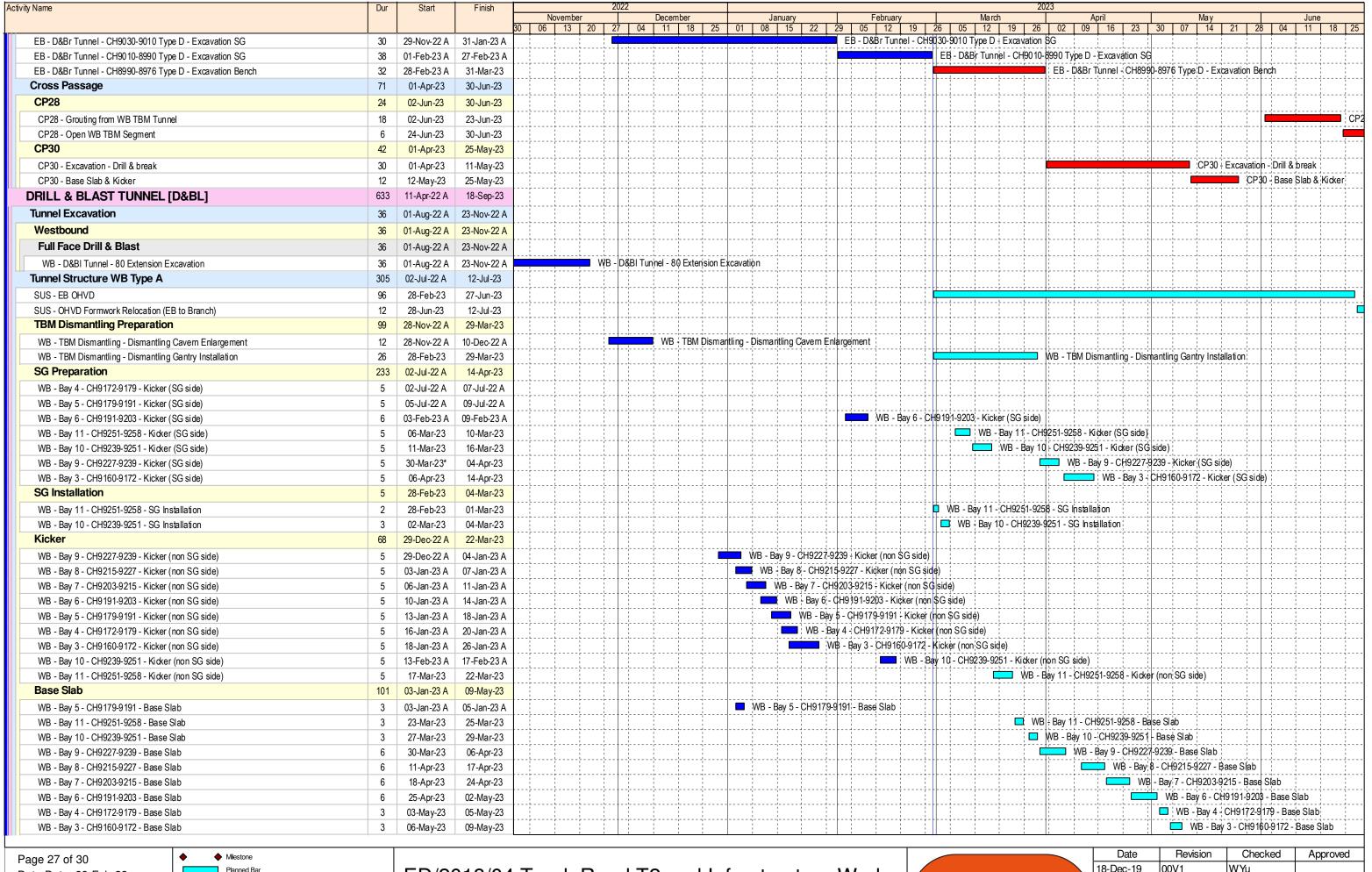


for Developments at South Apron



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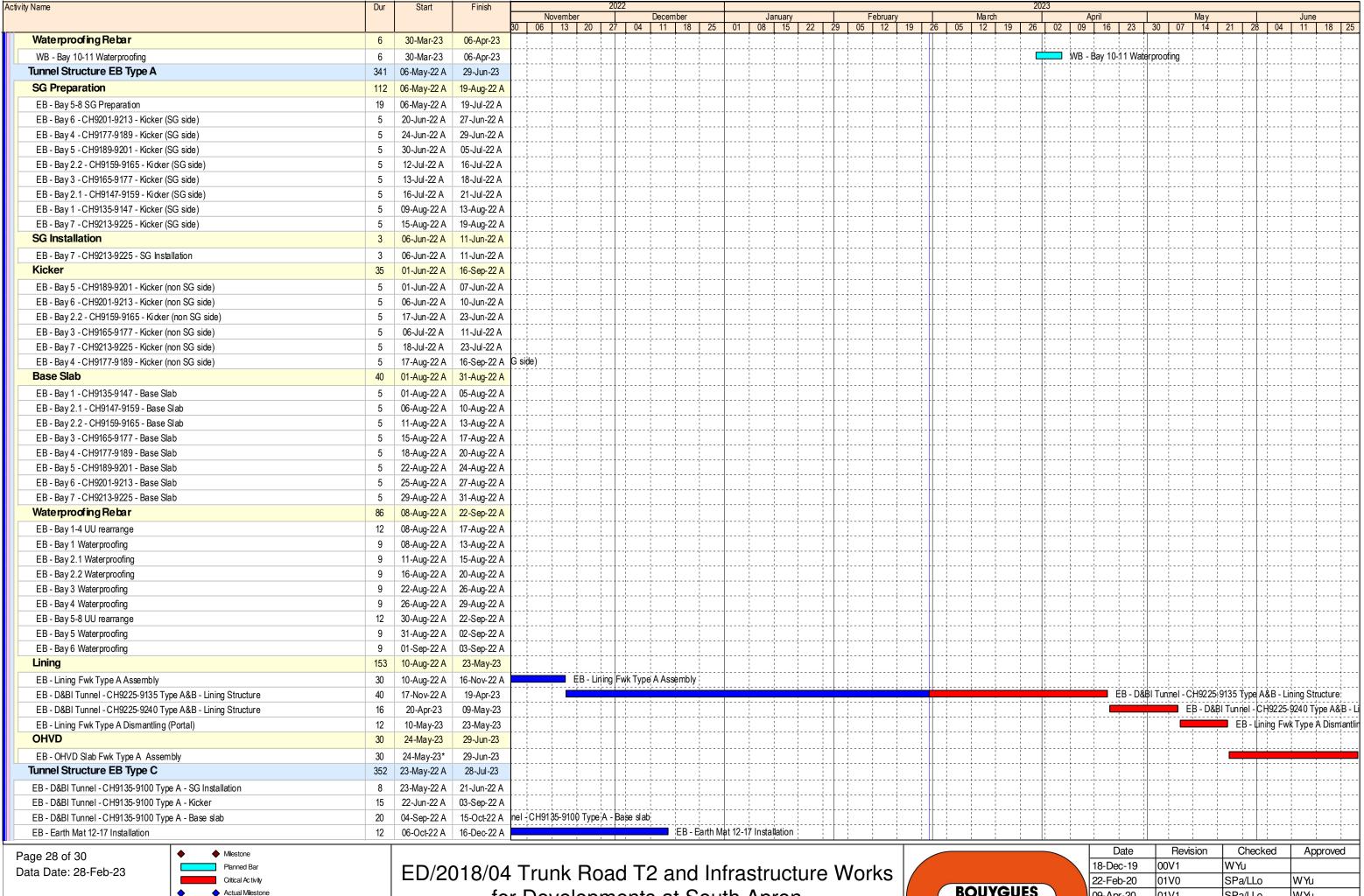




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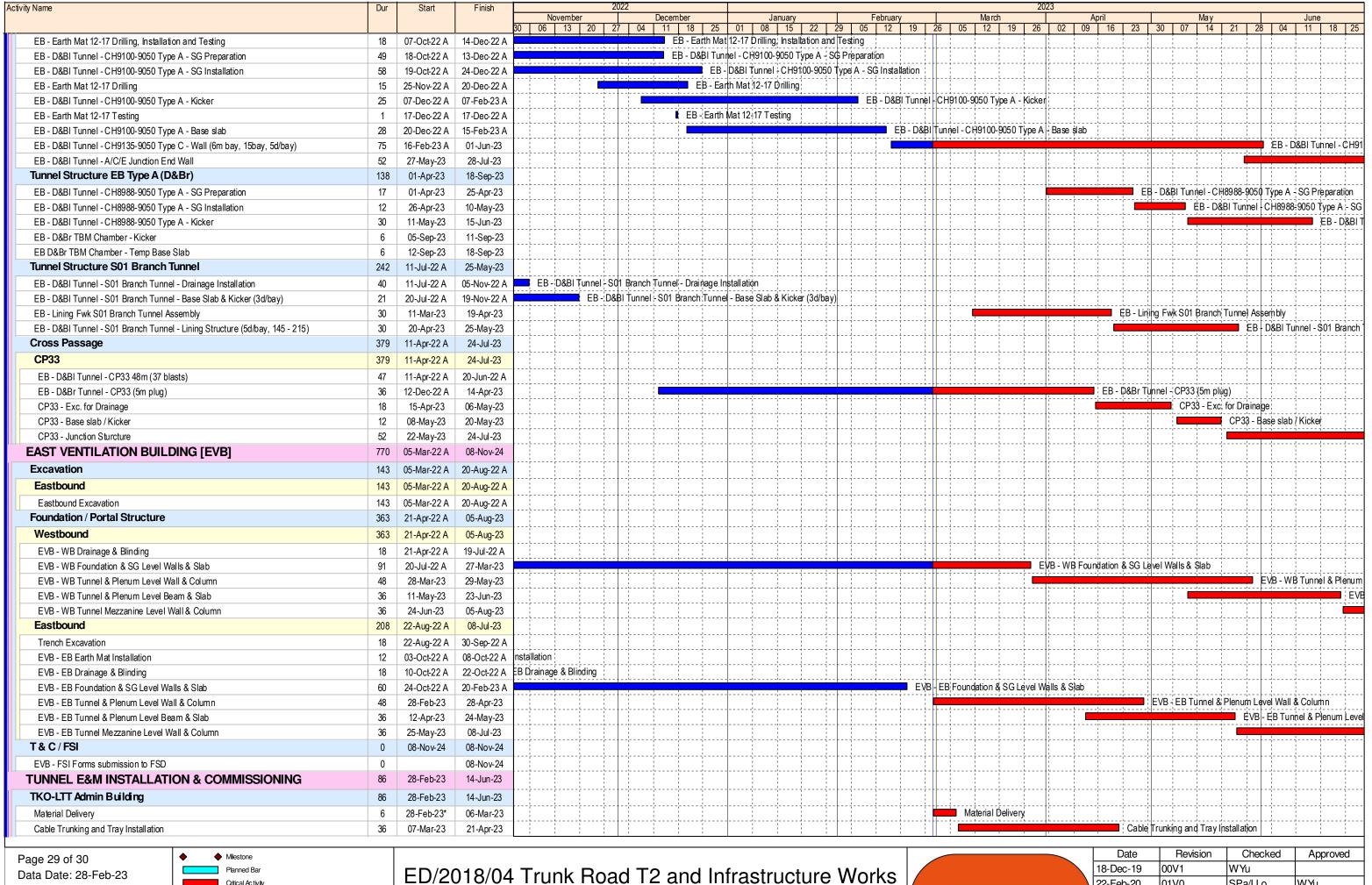
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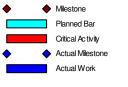
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Activity Name	Dur	Finish				2022												20	023								
, and the second					Novemb	ber		Dece	ember			January			February	у		March			April			May		J	une
				30 0	6 13	20	27	04 11	18	25	01 0	8 15	22	29 05	5 12	19 2	26 05	12	19 26	02	09 16	23	30 07	14 21	1 28	04 1	1 18 25
Submain Power Supply Installation	12	07-Mar-23	20-Mar-23	li						<u>.</u>				.lj		ii.l			■ Submair	n Power	Supply Insta	allation			<u>.</u>		
Conduit Installation	24	21-Mar-23	21-Apr-23		-	1				-				1	ŀ		-	1					Installation		-	1 I 1 I	
Cable Pulling	24	21-Mar-23	21-Apr-23																·		<u> </u>	Cable P	ullinģ				
Final Circuit Installation	8	22-Apr-23	02-May-23																				l Final Cir	cuit Installa	tion		
Testing & Commissioning	36	03-May-23	14-Jun-23	-						-																1 1	Testing & C
ER1.4.25 (L)construction of TKO-LTTis planned to complete in 2021	0		14-Jun-23														:									•	♦ ER1.4.25 (L
STATUTORY INSPECTION / HANDOVER	0	01-Apr-25	01-Apr-25																								
Route-wide Fire Service Inspection	0	01-Apr-25	01-Apr-25											1				· †		1						; <u>-</u>	
FSI - Forms submission to FSD	0		01-Apr-25			[
EXECUTIVE SUMMARY	0	09-Mar-23	09-Mar-23																								
General	0	09-Mar-23	09-Mar-23													† -			:	1	;;					;	
KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd]	0		09-Mar-23*		[[[•	KD-5 St	age 3A - De	esign Ap	oproval for S	tage 3B [D0	OC+1212cc)			
KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd]	0		09-Mar-23*							-							•	KD-7 \$t	age 4A - De	esign Ap	proval for S	tage 4B [D0	OC+1212cc]			

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

BOUYGUES)
TRAVAUX PUBLICS	

	WYu SPa/LLo	14/14
01V0	SPa/LLo	14/14.
	JI WLLU	WYu
01V1	SPa/LLo	WYu
01V2	SPa/LLo	WYu
01V3	SPa/LLo	WYu
02V0	SPa/LLo	WYu
	01V2 01V3	01V2 SPa/LLo 01V3 SPa/LLo