Civil Engineering and Development Department

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

March 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

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Ref.: CEDKTDT2EM00 0 0455L.23

18 April 2023

By Post and Email

Hyder-Meinhardt Joint Venture 1605-12, 16/F, Two Harbour Square 180 Wai Yip Street, Kwun Tong Kowloon, Hong Kong

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (March 2023) for EP-458/2013/C

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for March 2023 (Version 1.0) certified by the ET Leader and provided to us via email on 18 April 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

C.C. CEDD BTP

Cinotech

Attn.: Mr. Tommy Wong

Attn.: Mr. Ivan Chau

Attn.: Mr. K. S. Lee

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EXECUTIVE SUMMARY

Introduction

1. This is the 35th 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 March 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, Civil work preparation for TBM pilot.
 - East Ventilation Building WB Blinding & Waterproofing, RC Structure.
 - West Bound Extension & Blast Tunnel, RC Structure Construction, Pre-tunnel.
- 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-o (Exceed | - | No. of Non-compliance (Exceedance) due to Construction Activities of this Project | | Action Taken |
|--|-------------------------|-------------|---|-------------|--------------|
| | Action Level | Limit Level | Action Level | Limit Level | |
| Air Quality | 2 | 3 | 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. Two (2) Action Level exceedance and Three (3) Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.

Construction Noise Monitoring

- 8. No Action Level exceedance was recorded due to documented complaint in the reporting month. The Summary of Documented Complaints in the Reporting Month is tabulated in **Table 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 | | A ation Taken | Chahan | |
|--|---------------|--------|---------------|--------|--|
| 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 (April 2023) | Key Environmental Issues |
|---|--------------------------|
| East Bound – RC Structure Construction, Service Gallery Drill & Blast, Pre-tunnel, Civil work preparation for TBM pilot. 2 Fact Varieties Building WB Blinding & | (A) / (B) / (C) / (D) |
| 2. East Ventilation Building – WB Blinding & Waterproofing, RC Structure. | (A)/(B)/(C)/(D) |
| 3. West Bound – Extension & Blast Tunnel, RC Structure Construction. | |

Note:

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

1. INTRODUCTION

Background

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

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

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

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

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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 35th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in March 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 | . 1 5 175 | Mr. KS Lee (ETL) | 2151 2091 |
| Cinotech | Environmental Team | Ms. Karina Chan | 2157 3880 |
| Ramboll | Independent Environmental Checker | Mr. YH Hui | 3465 2850 |
| BTP | Contractor | Mr. Marcus Cheung | 6628 2685 |

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

Construction Activities undertaken during the Reporting Month

- 1.10 The major site activities undertaken in the reporting month included:
 - East Bound RC Structure Construction, Service Gallery Drill & Blast, 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 March 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 '//Y' N | Valid | Valid Period | | |
|--|------------------|--------------|---------------------------|--|
| Permit / License No. | From | То | Status | |
| Environmental Permit (EP) | | | | |
| EP-451/2013 | 19 Sep 2013 | N/A | Valid | |
| EP-458/2013/C | 20 Jan 2017 | N/A | Valid | |
| Notification pursuant to Air Pollution (Cons | truction Dust) F | 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 | Expired on 23 Mar 2023 | |
| CNP No. (For Portion T1): GW-RE0187-23 | 24 Feb 2023 | 23 Apr 2023 | Valid | |
| CNP No. (For TBM Transportation): GW-RE0254-23 | 16 Mar 2023 | 28 Apr 2023 | Valid | |
| CNP No. (For Portion Q): GW-RE0282-23 | 22 Mar 2023 | 21 Sep 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

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

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- 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 Two (2) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and Three (3) Limit Level exceedance was recorded for 24-hour TSP monitoring in the reporting month.
- 2.16 No Action/ Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting month.
- 2.17 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.
- 2.18 According to field observations by ET for Agreement No. CE 59/2015 (EP) in the reporting period, the major dust source identified at the designated air quality monitoring stations are as follows:

Table 2.4 Major Dust Source during Air Quality Monitoring

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

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

Comparison of EM&A Result with EIA Prediction

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

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

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

| Monitoring Stations | ASR ID | Predicted Maximum 1-hr TSP Concentration in EIA Report (AEIAR- 173/2013), μg/m³ | Maximum 1-hr TSP Concentration in the Reporting Month (March 2023), μg/m ³ |
|---|--------|---|---|
| AM1 – Tin Hau Temple | CL1 | 707 | 90.0 |
| AM2 – Sai Tso Wan Recreation Ground | CL6 | 266 | 136.8 |
| AM3 – Yau Lai Estate Bik Lai House | CL9 | 507 | 122.0 |
| AM4 - Sitting-out Area at Cha Kwo Ling Village | CL16 | 430 | 229.9 |

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 (March 2023), μg/m ³ |
|---|--------------------|--|--|
| AM1 – Tin Hau Temple | CL1 | 199 | 149.1 |
| AM2 – Sai Tso Wan Recreation Ground | CL6 | 109 | 83.9 |
| AM3 – Yau Lai Estate Bik Lai House | CL9 | 123 | 49.4 |
| AM4(B) – Flat 103 Cha Kwo Ling Village (*) | N/A ⁽¹⁾ | N/A ⁽¹⁾ | 383.1(**) |

Remarks:

 $^{(1) \}quad \text{No 24-hr TSP concentration was predicted in EIA Report (AEIAR-173/2013)}$

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

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

- 2.20 In the reporting month, the 1-hour TSP concentrations at AM1, AM2, AM3 and AM4 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). No Action/Limit level exceedance was recorded in the reporting period.
- 2.21 In the reporting month, the 24-hour TSP concentrations at AM1, AM2 and AM3 were lower than the prediction in the EIA Report, AEIAR-173/2013 (as approved in 2013). Two (2) Action Level exceedance was recorded for 24-hour TSP monitoring in the reporting month and Three (3) 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 | | | | I (20 min) | Façade Measurement |
| CM2 | 0500 1000 1 | | | L ₁₀ (30 min.) dB(A) | Façade Measurement |
| СМЗ | 0700-1900 hrs on normal 30 min weekdays | 30 minutes | Once per week | L ₉₀ (30 min.) dB(A) | Façade Measurement |
| CM4 | | | | L _{eq} (30 min.) | Façade Measurement |
| CM5 | | | | dB(A) | Façade Measurement |

Monitoring Equipment

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

Table 3.3 Noise Monitoring Equipment

| Equipment | Model | Quantity |
|-------------------------------|-------------------------------------|----------|
| | BSWA 308 (Serial No.: | |
| Integrating Sound Level Meter | 580287,580156) | 4 |
| | SWAN 957 (Serial No.: 23851, 27189) | |
| 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.

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Immediately prior to and following each noise measurement the accuracy of the sound level 3.8 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 |
| CM4 | activities (i.e underground utility work in TKOLTT project) |
| CM5 | Road Traffic near Eastern Cross Harbour Tunnel Toll Plaza, |
| CIVIS | 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 | 75 |
| CM4 | 62.0 | |

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| | | • | |
|-----|------|-----|--|
| 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 (March 2023), Leq (30min) dB(A) |
|--|--------|--|--|
| CM1 – Nga Lai House, Yau Lai Estate Phase 1, Yau Tong | N1102 | 73 | 70.3 |
| CM2 – Bik Lai House, Yau Lai Estate Phase 1, Yau Tong | N1204 | 75 | 70.9 |
| CM3 – Block S, Yau Lai Estate Phase 5, Yau Tong | N2105 | 75 | 70.2 |
| CM4 – Tin Hau Temple, Cha Kwo Ling | N3101a | 73 | 71.1 |
| CM5 – CCC Kei Faat Primary School, Yau Tong | N4101 | 71 | 70.3 |

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, 23 & 30 March 2023 in the reporting month. Site inspection of the IEC was conducted on 02 March 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 |
|----------------------|-------------|--|--|
| | 23 Feb 2023 | The NRMM label display on the machinery is unclear, the contractor should replace with the new one. | The contractor has replaced the new NRMM label. |
| Air Quality | 2 Mar 2023 | The NRMM label display on the machinery was damaged, the contractor should replace with the new one. | The Contractor has replaced the NRMM label with the new one. |
| | 23 Mar 2023 | Cement bag should be covered when not in used. | The Contractor has removed the cement bag. |
| Noise | N/A | There was no observation in the reporting period. | N/A |
| Water Quality | N/A | There was no observation in the reporting period. | N/A |
| Ecology | N/A | There was no observation in the reporting period. | N/A |
| Landscape and Visual | N/A | There was no observation in the reporting period. | N/A |
| Waste/ Chemical | 2 Mar 2023 | Oil leakage was observed on the floor near the entrance of tunnel. | The Contractor has removed the leakage oil. |
| Management | 23 Mar 2023 | Drip tray should be provided for chemical container to prevent chemical leakage. | The Contractor has removed the chemical container. |

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

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

- No Action/Limit Level exceedance for 1-hour TSP monitoring was recorded in the reporting month.
- Two (2) Action Level exceedance for 24-hour TSP monitoring was recorded in the reporting month and Three (3) 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
- 14.3 Key environmental issues in the coming months include:
 - Make sure noise mitigation measures are implemented accordingly;

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- Make sure drainage system is adequately designed to prevent flooding during periods of heavy rain; and,
- Make sure mitigation measure for dust suppression are implemented on site

Monitoring Schedule

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

15. CONCLUSIONS AND RECOMMENDATIONS

Conclusions

15.1 This is the 35th 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 Two (2) Action Level exceedance for 24-hour TSP monitoring was recorded in the reporting month and Three (3) 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 5 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:

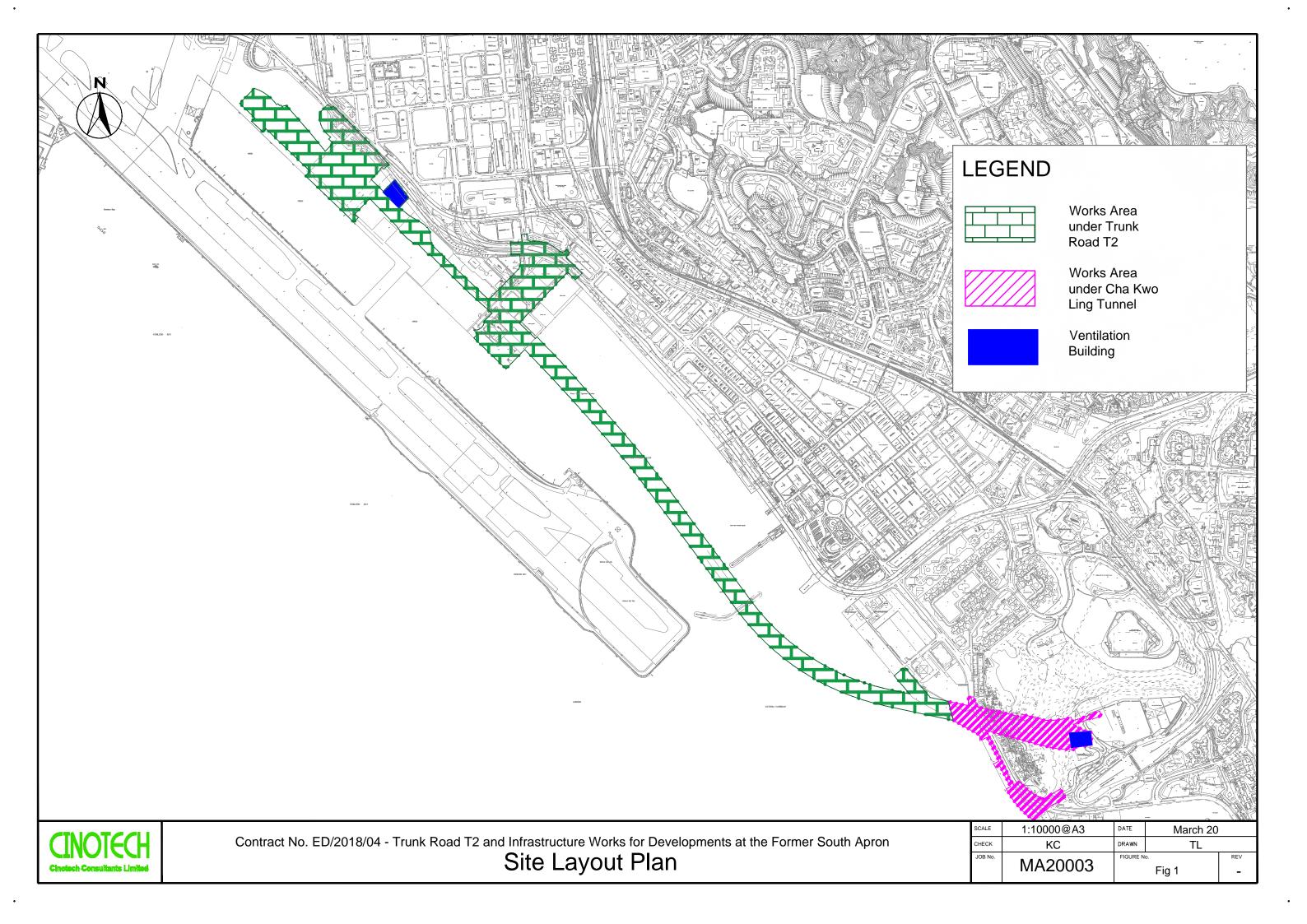
Air quality:

- The valid NRMM labels should be displayed at a conspicuous position on the PME.
- The dusty material (i.e cement bag) should be covered with impervious sheet when not in used.

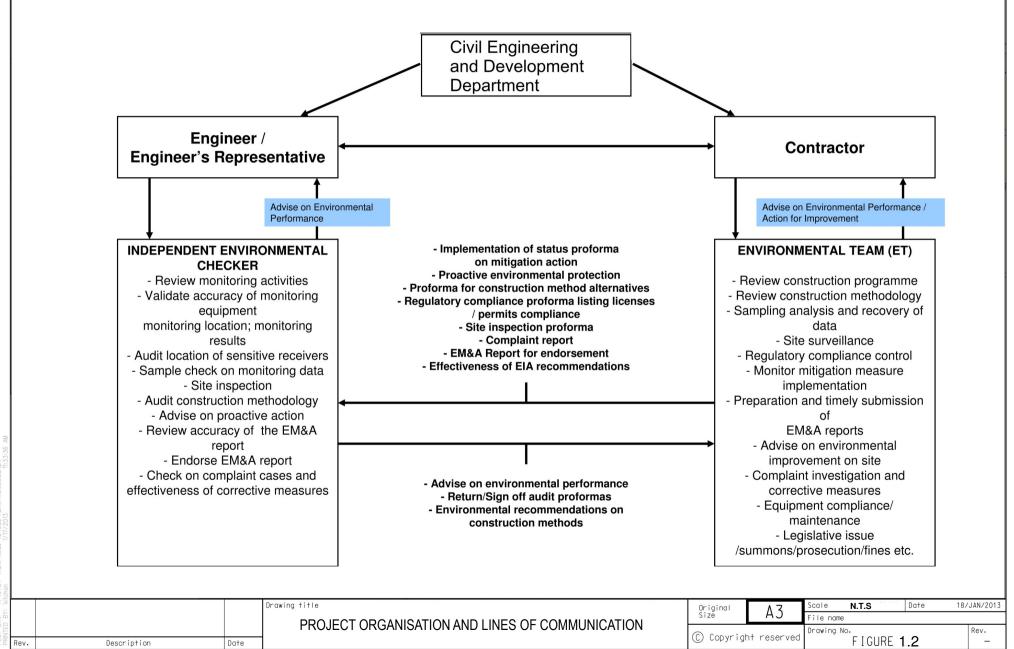
Waste / Chemical Management:

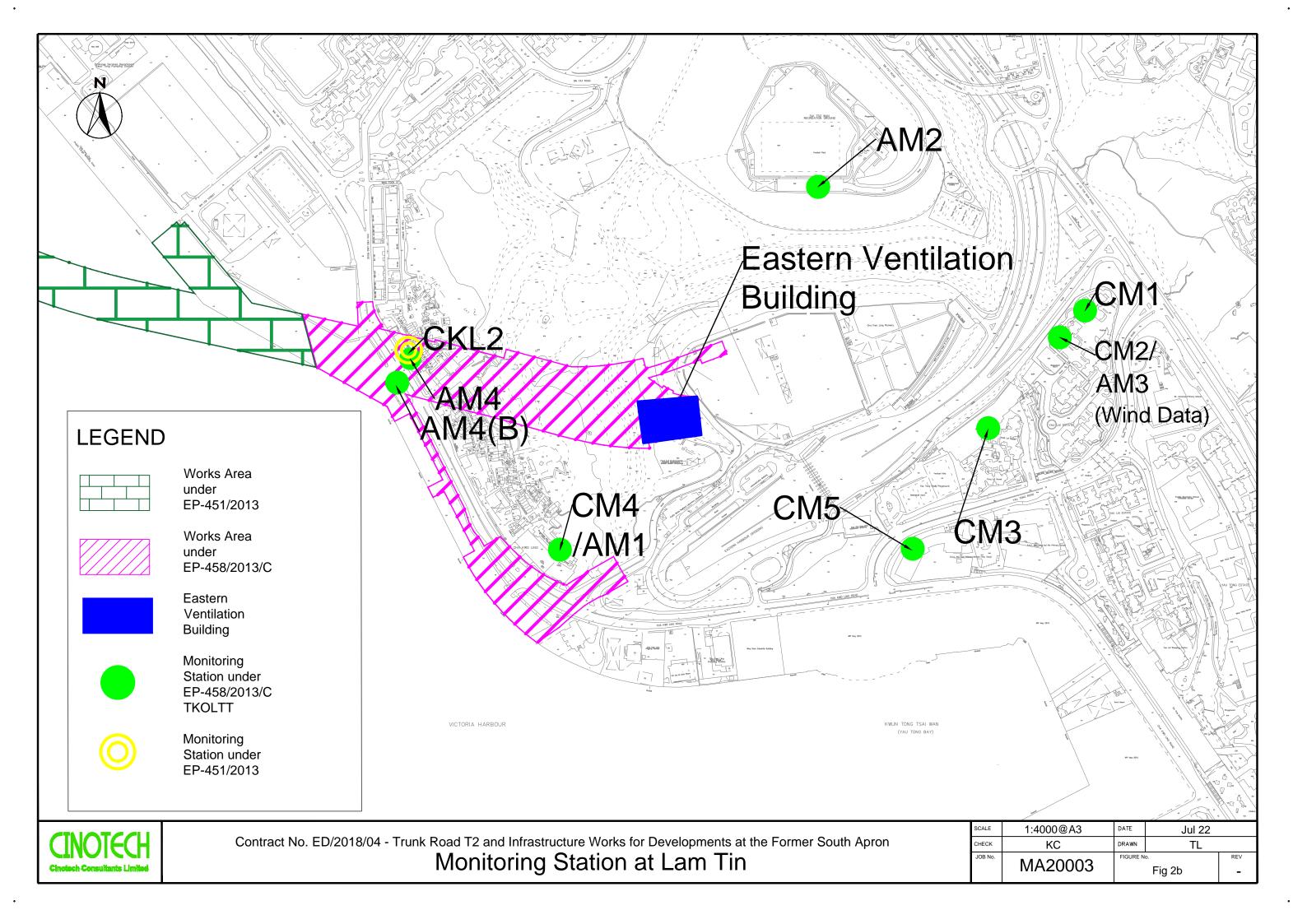
- Regular maintenance and check the machinery to prevent the leakage of oil.
- Drip Tray should be provided for chemical containers to prevent chemical leakage.

FIGURES









APPENDIX A ACTION AND LIMIT LEVELS

APPENDIX A – Action and Limit Levels

Air Quality

1-hr TSP

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

24-hr TSP

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

Noise

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

Landfill Gas Monitoring

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

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

APPENDIX B COPIES OF CALIBRATION CERTIFICATES

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/05/0040

| Project No. | AM1 - Tin Hau | Temple | | | | | |
|--------------------------------|------------------------------------|------------------|--|-----------------------------|----------------------------------|------------------------------|---|
| Date: | 9-Fe | eb-23 | Next Due Date: | 12 | Apr-23 | Operator: | SK |
| Equipment No.: | A-0 | 01-05 | Model No.: | GS | S2310 | 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 | | 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 | F **, ** ** | | | |
| *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-F | eb-23 | Next Due Date: | 12- | Apr-23 | Operator: | SK |
| Equipment No.: | A-(|)1-08 | Model No.: | G | S2310 | Serial No. | 1287 |
| | | | | | | | |
| | | | Ambient C | Condition | | | |
| Temperatur | re, Ta (K) | 292.5 | Pressure, Pa | (mmHg) | | 762.3 | |
| | | 0 | re on e cu | 1 17 6 | | | |
| Serial | No | 3864 | Slope, mc | 0.05928 | Intercept | . hc | -0.03491 |
| Last Calibra | | 16-Jan-23 | | | $c = [\Delta H \times (Pa/760)]$ | | |
| Next Calibra | | 16-Jan-24 | | | $(Pa/760) \times (298/7)$ | | |
| TVCAL CUITOTE | ttion Dute. | 10 3411 24 | | Z. ([===== | (1 44 / 00) 11 (2 / 0/ / | ,, | |
| | | <u>. </u> | Calibration of | TSP Sampler | | | |
| G 111 . | | Or | fice | 101 Sumplet | | HVS | |
| Calibration Point | ΔH (orifice), in. of water | | (0) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | ΔW (HVS), in. of water | [ΔW x (Pa/7 | 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 | | 3.8 | 1.97 | |
| 5 | 3.4 | | 1.86 | 32.03 | 2.3 | | 1.53 |
| By Linear Regrees Slope, mw = Correlation of | ession of Y on 0.0505 coefficient* = | _ | .9986 | Intercept, bw = | -0.094 | 9 | |
| *If Correlation C | oefficient < 0.9 | 90, check and rec | calibrate. | | | | |
| | | | Set Point C | alculation | | | |
| From the TSP Fi | eld Calibration | Curve, take Qstd | = 43 CFM | | | | |
| From the Regress | sion Equation, t | he "Y" value acco | ording to | | | | |
| | | | $\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W}] \mathbf{x}$ | - (D- /7(0) (2(| 00/TD-\11/2 | | |
| | | mw x C | $\mathbf{y}\mathbf{s}\mathbf{t}\mathbf{a} + \mathbf{b}\mathbf{w} = \mathbf{b}\mathbf{x}$ | (Pa//00) X (2) | 98/1a)j | | |
| Therefore, Se | et Point; W = (r | nw x Qstd + bw) | ² x (760 / Pa) x (′ | Γa / 298) = | 4.22 | | |
| | | | | | | | |
| Remarks: | | | | | | | |
| | | | | | | | |
| Conducted by: | Wong S | hing Kwai | Signature: | K | X - | Date: | 9-Feb-23 |
| Checked by: | Henry | / Leung | Signature: | \-lem | y Xoz | Date: | 9-Feb-23 |

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET



File No. MA16034/03/0040

| SK |
|--------------------------|
| ρIZ |
| 10379 |
| |
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| |
| |
| 0.03491 |
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| |
| (298/Ta)] ^{1/2} |
| (296/1a)] S |
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| -Feb-23 |
| -Feb-23 |
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High-Volume TSP Sampler

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: | 7-N | Mar-23 | Operator: | SK |
| Equipment No.: | A-0 | 1-55 | Model No.: | TE | E 5170 | Serial No. | 1956 |
| | | | | | | | |
| | | | Ambient C | | Ī | | |
| Temperatur | re, Ta (K) | 291.5 | Pressure, Pa | (mmHg) | | 767.6 | |
| | | Or | ifice Transfer Sta | ndard Informa | ation | | |
| | | | Slope, mc | 0.05922 | Intercept | t, bc | -0.02420 |
| Last Calibra | ntion Date: | 31-Jan-22 | 1 | nc x Qstd + bo | $c = [\Delta H \times (Pa/760)]$ | $(298/Ta)^{1/2}$ | : |
| Next Calibra | ation Date: | 31-Jan-23 | | $Qstd = \{ [\Delta H \ x] \}$ | (Pa/760) x (298/7 | Γa)] ^{1/2} -bc} / me | c |
| | | | | | | | |
| | | | Calibration of | TSP Sampler | T | | |
| Calibration | | Oı | fice | T | | HVS | 1/2 |
| Point | ΔH (orifice), in. of water | [ΔH x (Pa/76 | (60) x (298/Ta)] ^{1/2} | Qstd (CFM) X - axis | Δ W (HVS), in. of water | | 0) x (298/Ta)] ^{1/2} -axis |
| 1 | 12.7 | | 3.62 | 61.56 | 9.8 | | 3.18 |
| 2 | 10.6 | | 3.31 | 56.27 | 7.5 | 2 | 2.78 |
| 3 | 8.5 | | 2.96 | 50.43 | 5.6 | 2 | 2.40 |
| 4 | 5.2 | 2.32 | | 39.54 | 3.1 | 1 | 1.79 |
| 5 | 2.8 | 1.70 | | 29.12 | 1.9 | 1 | 1.40 |
| Slope, mw = | Slope , mw = | | | | | | |
| *If Correlation C | Coefficient < 0.99 | 90, check and rec | calibrate. | | | | |
| | | | Set Point C | alculation | | | |
| | eld Calibration C sion Equation, th | ne "Y" value acco | | x (Pa/760) x (29 | 98/Ta)] ^{1/2} | | |
| Therefore, Se | et Point; W = (m | w x Qstd + bw) | ² x (760 / Pa) x (′ | Γa / 298) = | 4.15 | | |
| Remarks: | | | | | | | |
| Conducted by: | Wong Sh | ing Kwai | Signature: | <u> </u> | <u></u> | Date: | 5-Jan-23 |
| Checked by: | Henry | Leung | Signature: | - len | g Kong | Date: | 5-Jan-23 |

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/018 CKL 2 - Flat 103 Cha Kwo Ling Village Project No. 4-Mar-23 Next Due Date: 4-May-23 Operator: SK Date: Equipment No.: A-01-55 Model No.: TE 5170 Serial No. 1956 **Ambient Condition** 292.6 Temperature, Ta (K) Pressure, Pa (mmHg) 768.4 **Orifice Transfer Standard Information** 0.05928 Intercept, bc 3864 Slope, mc -0.03491 Serial No. mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ 16-Jan-23 Last Calibration Date: Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ 16-Jan-24 Next Calibration Date: **Calibration of TSP Sampler** Orfice HVS Calibration $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ ΔH (orifice), Ostd (CFM) ΔW (HVS), in. $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Point in. of water X - axis of water Y-axis 1 13.2 3.69 62.78 10.4 3.27 8.4 2.94 2 11.0 3.37 57.36 8.8 3.01 51.37 2.57 4 5.4 2.36 40.37 3.2 1.82 5 3.0 1.8 1.76 30.24 1.36 By Linear Regression of Y on X Slope, mw = 0.0600Intercept, bw = -0.5162 Correlation coefficient* = *If Correlation Coefficient < 0.990, check and recalibrate. **Set Point Calculation** From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ Remarks: Conducted by: Wong Shing Kwai Checked by: Henry Leung

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 :

| 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 Sensitiv | 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 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.: | 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 | М | ass Concentration (µg/1 X-axis | m3) | Mass | s concentration (µ Y-axis | ıg/m³) |
| 1 | | 69.0 | | | 131.0 | |
| 2 | | 61.0 | | | 112.0 | |
| 3 | | 50.0 | | | 95.0 | |
| Average | | 60.0 | | | 112.7 | |
| By Linear Regr | | | Today | 4 N | 0.2401 | |
| _ | 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* = | Set High Volume Sampler (| t Correlation F | | 112.7 | |
| Slope , mw = Correlation co | 1.873 pefficient* = | 0,9924 Set | t Correlation F | | | |
| Slope , mw = Correlation co Particaulate Con Particaulate Con | 1.873 pefficient* = centration by I centration centration centralises centralise | Set High Volume Sampler (| t Correlation F | | 112.7 60.0 | |
| Slope , mw = Correlation co Particaulate Con Particaulate Con Measureing time Set Correlation F | centration by I centration by | 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=Higl In-house method The Dust Monito Factor (CF) betw | centration by I centration by | Set High Volume Sampler (Oust Meter (μg/m³) | g/m3) al: gh Volume Sam me Sampler. | 1.9 | 112.7 60.0 60.0 | rate the Correlation |



Certificate of Calibration

| Description: | Digital Dust I | Indicator | | Date o | f Calibration | 29-Jan-23 |
|--|-----------------------------------|---|------------------------------|---------------------------|-----------------------|----------------------|
| Manufacturer: | Sibata Scienti | ific Technology LTD. | _ | Validity of Calibra | tion Record | 31-Mar-23 |
| Model No.: | LD-5R | | | | | |
| Serial No.: | 972777 | | | | | |
| Equipment No.: | SA-01-06 | | Sensitivity | 0.001 mg/m3 | | |
| High Volume Sa | mpler No.: | A-01-03 | Before Sensiti | vity Adjustment | 645 | |
| Tisch Calibration | n Orifice No.: | 3864 | After Sensitivi | ty Adjustment | 645 | |
| | | Cal | libration of 1 h | r TSP | | |
| Calibration | | Laser Dust Monitor | • | | HVS | |
| Point | M | ass Concentration (μg/1 | m3) | Mass | concentration (µ | ıg/m³) |
| | | X-axis | | | Y-axis | |
| 1 | | 67.0 | | | 134.0 | |
| 3 | | 60.0 | | | 116.0 | |
| Average | | 49.0 58.7 | | | 96.0 115.3 | |
| By Linear Regr Slope , mw = Correlation co | 2.08 | 0.9953 | | cept, bw = | -6.9879 | _ |
| | | | t Correlation F | actor | | |
| | | High Volume Sampler (| μg/m³) | | 115.3 | |
| Measureing time | - | Oust Meter (μg/m ³) | | | 58.7 60.0 | |
| Set Correlation I | | | | | 00.0 | |
| | | npler / Dust Meter, (μ | g/m3)] | 2.0 | | |
| The Dust Monitor Factor (CF) between | or was compare veen the Dust M | to the instruction manual to the instruction manual with a calibrated High Monitor and High Voluted by HOKLAS laborated | gh Volume Sam me Sampler. | • | was used to gene | rate the Correlation |
| Calibrated by: Technica | | ng Shing Kwai) | _ | Approved by: _ Project | Lem Manager (Henry | 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.: | 972778 | • | | | | |
| Equipment No.: | SA-01-07 | • | Sensitivity | 0.001 mg/m3 | | |
| High Volume Sa | ımpler No.: | A-01-03 | Before Sensiti | vity Adjustment | 735 CPM | |
| Tisch Calibration | n Orifice No.: | 3864 | After Sensitiv | ity Adjustment | 735 CPM | |
| | | Cal | libration of 1 h | r TSP | | |
| Calibration | | Laser Dust Monitor | | | HVS | |
| Point | N | fass Concentration (μg/s | m3) | Mas | ss concentration (| $\mu g/m^3$) |
| | | X-axis | | | Y-axis | |
| 1 | | 64.0 | | | 134.0 | |
| 2 | | 57.0 | | | 116.0 | |
| 3 Average | | 46.0 55.7 | | | 95.0 115.0 | |
| Slope , mw = Correlation co | 2.14 pefficient* = | 0.9965 | | cept, bw = | -4.3340 |) |
| Particaulate Con | centration by | High Volume Sampler (| | 4001 | 115.0 | |
| | - | Dust Meter (μg/m ³) | (1 C) | | 55.7 | |
| Measureing time | e, (min) | | | | 60.0 | |
| Set Correlation I | Factor, SCF | | | | | |
| SCF = [K=Hig | h Volume Sar | mpler / Dust Meter, (μ | g/m3)] | 2.1 | | |
| The Dust Monitor Factor (CF) betw | or was compar ween the Dust | to the instruction manused with a calibrated Hig Monitor and High Volunted by HOKLAS laborated | gh Volume Sam me Sampler. | - | was used to gene | erate the Correlation |
| Calibrated by: | | ong Shing Kwai) | - | Approved by: Projec | t Manager (Henr | y Leung) |

Digital Dust Indicator



Date of Calibration 29-Jan-23

Certificate of Calibration

Description:

| Manufacturer: | Sibata Scientific Technology LTD. | _ | Validity of Calib | ration Record | 31-Mar-23 |
|------------------------------------|--|------------------------------|------------------------|--------------------|-----------------------|
| Model No.: | LD-5R | | | | |
| Serial No.: | 972779 | | | | |
| Equipment No.: | SA-01-08 | Sensitivity | 0.001 mg/m3 | _ | |
| High Volume Sa | ampler No.: A-01-03 | Before Sensit | ivity Adjustment | 744 CPM | |
| Tisch Calibratio | n Orifice No.: 3864 | After Sensitiv | vity Adjustment | 744 CPM | |
| | Cal | libration of 1 l | nr TSP | | |
| Calibration | Laser Dust Monitor | | | HVS | |
| Point | Mass Concentration (µg/ | m3) | Mas | ss concentration (| $\mu g/m^3$) |
| | X-axis | | | Y-axis | |
| 1 | 68.0 | | | 135.0 | |
| 2 | 57.0 | | | 116.0 | |
| 3 | 48.0 | | | 95.0 | |
| Average | 57.7 | | | 115.3 | |
| Correlation co | | t Correlation 1 | - Factor | | |
| Particaulate Cor | ncentration by High Volume Sampler (| | | 115.3 | |
| | ncentration by Dust Meter (µg/m³) | (18) | | 57.7 | |
| Measureing time | | | | 60.0 | |
| Set Correlation | | | • | | |
| | h Volume Sampler / Dust Meter, (μ | g/m3)] | 2.0 | | |
| The Dust Monit Factor (CF) bety | d in according to the instruction manusor was compared with a calibrated Higween the Dust Monitor and High Volupers are weighted by HOKLAS laborated | gh Volume San me Sampler. | | t was used to gen | erate the Correlation |
| Calibrated by Technic | al Officer (Wong Shing Kwai) | - | Approved by: Projec | ct 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) |

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.: | 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 | n Orifice No.: | 3864 | After Sensitiv | ity Adjustment | 734 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 | | | 132.0 | |
| 2 | | 63.0 | | | 114.0 | |
| 3 Average | | 51.0 61.3 | | | 94.0 113.3 | |
| By Linear Regr Slope , mw = Correlation co | 1.96 | 0.9928 | | cept, bw = | -7.1191 | |
| Particaulate Con | centration by | High Volume Sampler | 2 | actor | 113.3 | |
| | - | Dust Meter (μg/m ³) | (1-8) | | 61.3 | |
| Measureing time | e, (min) | | | | 60.0 | |
| Set Correlation I | Factor, SCF | | | | | |
| SCF = [K=Hig | h Volume Sar | mpler / Dust Meter, (μ | g/m3)] | 1.8 | | |
| The Dust Monitor Factor (CF) betw | or was compar veen the Dust | to the instruction manured with a calibrated High Monitor and High Volunted by HOKLAS laborated | gh Volume Sam ime Sampler. | - | t was used to gene | erate the Correlation |
| Calibrated by: | | ong Shing Kwai) | _ | Approved by: Projec | Ct Manager (Henr | y 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

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

| | 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 | |

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

| | Standard Conditions |
|---------------|-------------------------------|
| Tstd: | |
| Pstd: | 760 mm Hg |
| | Key |
| | or manometer reading (in H2O) |
| | ter 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: Davis Instruments

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 Speed, 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 Direction (°) | | 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 $(^{\circ}C)^{1}$ | Mean Relative Humidity | Precipitation (mm) ³ |
|-----------|--|------------------------|--|
| | | $(\%)^2$ | |
| 1-Mar-23 | 19.7 | 71 | 0.0 |
| 2-Mar-23 | 19.8 | 70 | 0.0 |
| 3-Mar-23 | 18.6 | 56 | 0.0 |
| 4-Mar-23 | 19.6 | 65 | 0.0 |
| 5-Mar-23 | 19.7 | 57 | 0.0 |
| 6-Mar-23 | 20.0 | 50 | 0.0 |
| 7-Mar-23 | 20.1 | 56 | 0.0 |
| 8-Mar-23 | 21.6 | 77 | 0.0 |
| 9-Mar-23 | 22.5 | 75 | 0.0 |
| 10-Mar-23 | 22.4 | 68 | 0.0 |
| 11-Mar-23 | 22.1 | 67 | 0.0 |
| 12-Mar-23 | 22.6 | 71 | 0.1 |
| 13-Mar-23 | 20.1 | 64 | Trace |
| 14-Mar-23 | 19.7 | 73 | 0.0 |
| 15-Mar-23 | 21.0 | 77 | 0.0 |
| 16-Mar-23 | 22.0 | 72 | Trace |
| 17-Mar-23 | 21.7 | 83 | 0.5 |
| 18-Mar-23 | 22.3 | 80 | 0.0 |
| 19-Mar-23 | 20.6 | 86 | 0.6 |
| 20-Mar-23 | 21.8 | 88 | 0.3 |
| 21-Mar-23 | 23.7 | 85 | Trace |
| 22-Mar-23 | 24.7 | 83 | Trace |
| 23-Mar-23 | 25.0 | 81 | 0.0 |
| 24-Mar-23 | 25.6 | 80 | 0.0 |
| 25-Mar-23 | 23.4 | 89 | 53.5 |
| 26-Mar-23 | 20.8 | 91 | 5.9 |
| 27-Mar-23 | 18.6 | 86 | 6.3 |
| 28-Mar-23 | 18.7 | 84 | Trace |
| 29-Mar-23 | 19.9 | 86 | 0.9 |
| 30-Mar-23 | 20.8 | 89 | 0.3 |
| 31-Mar-23 | 20.3 | 92 | 1.9 |

(Reporting Month:March 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)

| | March 2023 | | | |
|---------------------------|------------|-----------|----------------|--|
| Wind Speed and Directions | | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 1 Mar 2023 | 12:00 AM | SSE | 0.1 | |
| 1 Mar 2023 | 1:00 AM | ENE | 1.2 | |
| 1 Mar 2023 | 2:00 AM | Е | 3.2 | |
| 1 Mar 2023 | 3:00 AM | Е | 3.8 | |
| 1 Mar 2023 | 4:00 AM | ENE | 3.8 | |
| 1 Mar 2023 | 5:00 AM | ENE | 3.2 | |
| 1 Mar 2023 | 6:00 AM | E | 3.2 | |
| 1 Mar 2023 | 7:00 AM | E | 3.2 | |
| 1 Mar 2023 | 8:00 AM | ENE | 1.2 | |
| 1 Mar 2023 | 9:00 AM | ENE | 3.2 | |
| 1 Mar 2023 | 10:00 AM | E | 3.2 | |
| 1 Mar 2023 | 11:00 AM | W | 1.2 | |
| 1 Mar 2023 | 12:00 PM | ENE | 3.8 | |
| 1 Mar 2023 | 1:00 PM | ESE | 3.8 | |
| 1 Mar 2023 | 2:00 PM | ENE | 3.8 | |
| 1 Mar 2023 | 3:00 PM | ENE | 3.8 | |
| 1 Mar 2023 | 4:00 PM | ENE | 3.8 | |
| 1 Mar 2023 | 5:00 PM | ENE | 3.2 | |
| 1 Mar 2023 | 6:00 PM | ENE | 3.8 | |
| 1 Mar 2023 | 7:00 PM | E | 3.2 | |
| 1 Mar 2023 | 8:00 PM | ENE | 3.2 | |
| 1 Mar 2023 | 9:00 PM | <u>E</u> | 3.8 | |
| 1 Mar 2023 | 10:00 PM | Е | 3.8 | |
| 1 Mar 2023 | 11:00 PM | ENE | 3.2 | |
| 2 Mar 2023 | 12:00 AM | ESE | 3.2 | |
| 2 Mar 2023 | 1:00 AM | ENE | 1.2 | |
| 2 Mar 2023 | 2:00 AM | ENE | 1.2 | |
| 2 Mar 2023 | 3:00 AM | Е | 1.2 | |
| 2 Mar 2023 | 4:00 AM | E | 3.2 | |
| 2 Mar 2023 | 5:00 AM | ENE | 3.2 | |
| 2 Mar 2023 | 6:00 AM | <u>E</u> | 3.8 | |
| 2 Mar 2023 | 7:00 AM | ENE | 1.2 | |
| 2 Mar 2023 | 8:00 AM | ESE | 1.2 | |
| 2 Mar 2023 | 9:00 AM | E | 1.2 | |
| 2 Mar 2023 | 10:00 AM | ENE | 1.2 | |
| 2 Mar 2023 | 11:00 AM | ENE | 3.2 | |
| 2 Mar 2023 | 12:00 PM | W | 3.8 | |
| 2 Mar 2023 | 1:00 PM | NE | 3.8 | |
| 2 Mar 2023 | 2:00 PM | E | 3.8 | |
| 2 Mar 2023 | 3:00 PM | ENE | 3.8 | |
| 2 Mar 2023 | 4:00 PM | ENE | 3.8 | |
| 2 Mar 2023 | 5:00 PM | ENE | 3.2 | |
| 2 Mar 2023 | 6:00 PM | ENE | 3.2 | |
| 2 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 2 Mar 2023 | 8:00 PM | | 0.1 | |
| 2 Mar 2023 | 9:00 PM | ESE | 0.1 | |
| 2 Mar 2023 | 10:00 PM | SW | 0.1 | |
| 2 Mar 2023 | 11:00 PM | S | 0.1 | |
| 3 Mar 2023 | 12:00 AM | SE | 0.1 | |
| 3 Mar 2023 | 1:00 AM | S | 0.1 | |
| 3 Mar 2023 | 2:00 AM | SSE | 0.1 | |
| 3 Mar 2023 | 3:00 AM | SE | 0.1 | |
| 3 Mar 2023 | 4:00 AM | | 0.1 | |
| 3 Mar 2023 | 5:00 AM | | 0.1 | |
| 3 Mar 2023 | 6:00 AM | | 0.1 | |
| 3 Mar 2023 | 7:00 AM | | 0.1 | |
| 3 Mar 2023 | 8:00 AM | | 0.1 | |

| Date Time | Directions Direction WNW | Wind Speed m-s |
|---------------------|--------------------------|----------------|
| | | _ |
| T T | WNW | |
| 3 Mar 2023 9:00 AM | | 3.2 |
| 3 Mar 2023 10:00 AM | ENE | 0.1 |
| 3 Mar 2023 11:00 AM | NNW | 1.2 |
| 3 Mar 2023 12:00 PM | ENE | 0.1 |
| 3 Mar 2023 1:00 PM | NNW | 0.1 |
| 3 Mar 2023 2:00 PM | N | 0.1 |
| 3 Mar 2023 3:00 PM | N | 0.1 |
| 3 Mar 2023 4:00 PM | N | 0.1 |
| 3 Mar 2023 5:00 PM | NNE | 1.2 |
| 3 Mar 2023 6:00 PM | NNE | 0.1 |
| 3 Mar 2023 7:00 PM | NNE | 0.1 |
| 3 Mar 2023 8:00 PM | NNE | 0.1 |
| 3 Mar 2023 9:00 PM | NNE | 0.1 |
| 3 Mar 2023 10:00 PM | NNE | 0.1 |
| 3 Mar 2023 11:00 PM | NNE | 0.1 |
| 4 Mar 2023 12:00 AM | NNE | 0.1 |
| 4 Mar 2023 1:00 AM | NNE | 0.1 |
| 4 Mar 2023 2:00 AM | NNE | 0.1 |
| 4 Mar 2023 3:00 AM | NE | 0.1 |
| 4 Mar 2023 4:00 AM | NE | 0.1 |
| 4 Mar 2023 5:00 AM | ENE | 0.1 |
| 4 Mar 2023 6:00 AM | NE | 0.1 |
| 4 Mar 2023 7:00 AM | | 0.1 |
| 4 Mar 2023 8:00 AM | NE | 0.1 |
| 4 Mar 2023 9:00 AM | ENE | 0.1 |
| 4 Mar 2023 10:00 AM | Е | 1.2 |
| 4 Mar 2023 11:00 AM | ENE | 3.2 |
| 4 Mar 2023 12:00 PM | SSE | 3.2 |
| 4 Mar 2023 1:00 PM | ENE | 3.2 |
| 4 Mar 2023 2:00 PM | Е | 3.8 |
| 4 Mar 2023 3:00 PM | W | 3.8 |
| 4 Mar 2023 4:00 PM | WSW | 3.8 |
| 4 Mar 2023 5:00 PM | ENE | 3.2 |
| 4 Mar 2023 6:00 PM | W | 3.8 |
| 4 Mar 2023 7:00 PM | Е | 3.2 |
| 4 Mar 2023 8:00 PM | WSW | 3.8 |
| 4 Mar 2023 9:00 PM | ENE | 3.2 |
| 4 Mar 2023 10:00 PM | ENE | 3.2 |
| 4 Mar 2023 11:00 PM | Е | 3.8 |
| 5 Mar 2023 12:00 AM | Е | 3.8 |
| 5 Mar 2023 1:00 AM | Е | 6.4 |
| 5 Mar 2023 2:00 AM | SSW | 3.2 |
| 5 Mar 2023 3:00 AM | ENE | 3.2 |
| 5 Mar 2023 4:00 AM | ENE | 6.4 |
| 5 Mar 2023 5:00 AM | Е | 3.8 |
| 5 Mar 2023 6:00 AM | ENE | 3.2 |
| 5 Mar 2023 7:00 AM | ESE | 3.2 |
| 5 Mar 2023 8:00 AM | Е | 3.2 |
| 5 Mar 2023 9:00 AM | SW | 1.2 |
| 5 Mar 2023 10:00 AM | SSE | 1.2 |
| 5 Mar 2023 11:00 AM | SE | 3.2 |
| 5 Mar 2023 12:00 PM | SE | 1.2 |
| 5 Mar 2023 1:00 PM | SSE | 1.2 |
| 5 Mar 2023 2:00 PM | SE | 3.2 |
| 5 Mar 2023 3:00 PM | ESE | 1.2 |
| 5 Mar 2023 4:00 PM | SE | 1.2 |
| 5 Mar 2023 5:00 PM | SE | 1.2 |

| | March 2023 | | | |
|------------|---------------------------|-----------|----------------|--|
| | Wind Speed and Directions | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 5 Mar 2023 | 6:00 PM | ESE | 0.1 | |
| 5 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 5 Mar 2023 | 8:00 PM | Е | 0.1 | |
| 5 Mar 2023 | 9:00 PM | ENE | 0.1 | |
| 5 Mar 2023 | 10:00 PM | ENE | 0.1 | |
| 5 Mar 2023 | 11:00 PM | | 0.1 | |
| 6 Mar 2023 | 12:00 AM | Е | 0.1 | |
| 6 Mar 2023 | 1:00 AM | ENE | 0.1 | |
| 6 Mar 2023 | 2:00 AM | ENE | 0.1 | |
| 6 Mar 2023 | 3:00 AM | ESE | 1.2 | |
| 6 Mar 2023 | 4:00 AM | ESE | 1.2 | |
| 6 Mar 2023 | 5:00 AM | Е | 3.2 | |
| 6 Mar 2023 | 6:00 AM | Е | 3.2 | |
| 6 Mar 2023 | 7:00 AM | ENE | 3.2 | |
| 6 Mar 2023 | 8:00 AM | Е | 3.2 | |
| 6 Mar 2023 | 9:00 AM | Е | 3.2 | |
| 6 Mar 2023 | 10:00 AM | WNW | 3.8 | |
| 6 Mar 2023 | 11:00 AM | Е | 3.8 | |
| 6 Mar 2023 | 12:00 PM | Е | 3.8 | |
| 6 Mar 2023 | 1:00 PM | Е | 1.2 | |
| 6 Mar 2023 | 2:00 PM | ENE | 3.2 | |
| 6 Mar 2023 | 3:00 PM | NW | 1.2 | |
| 6 Mar 2023 | 4:00 PM | Е | 1.2 | |
| 6 Mar 2023 | 5:00 PM | Е | 1.2 | |
| 6 Mar 2023 | 6:00 PM | ENE | 0.1 | |
| 6 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 6 Mar 2023 | 8:00 PM | ENE | 0.1 | |
| 6 Mar 2023 | 9:00 PM | ENE | 0.1 | |
| 6 Mar 2023 | 10:00 PM | ENE | 0.1 | |
| 6 Mar 2023 | 11:00 PM | Е | 0.1 | |
| 7 Mar 2023 | 12:00 AM | Е | 1.2 | |
| 7 Mar 2023 | 1:00 AM | Е | 1.2 | |
| 7 Mar 2023 | 2:00 AM | ENE | 3.2 | |
| 7 Mar 2023 | 3:00 AM | ENE | 3.8 | |
| 7 Mar 2023 | 4:00 AM | ENE | 3.2 | |
| 7 Mar 2023 | 5:00 AM | Е | 1.2 | |
| 7 Mar 2023 | 6:00 AM | Е | 3.2 | |
| 7 Mar 2023 | 7:00 AM | NW | 1.2 | |
| 7 Mar 2023 | 8:00 AM | Е | 1.2 | |
| 7 Mar 2023 | 9:00 AM | Е | 3.2 | |
| 7 Mar 2023 | 10:00 AM | NNW | 3.8 | |
| 7 Mar 2023 | 11:00 AM | Е | 3.2 | |
| 7 Mar 2023 | 12:00 PM | Е | 3.8 | |
| 7 Mar 2023 | 1:00 PM | ENE | 3.2 | |
| 7 Mar 2023 | 2:00 PM | ENE | 3.2 | |
| 7 Mar 2023 | 3:00 PM | Е | 1.2 | |
| 7 Mar 2023 | 4:00 PM | W | 1.2 | |
| 7 Mar 2023 | 5:00 PM | E | 0.1 | |
| 7 Mar 2023 | 6:00 PM | ENE | 1.2 | |
| 7 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 7 Mar 2023 | 8:00 PM | ENE | 1.2 | |
| 7 Mar 2023 | 9:00 PM | E | 4.4 | |
| 7 Mar 2023 | 10:00 PM | ENE | 3.8 | |
| 7 Mar 2023 | 11:00 PM | SW | 3.2 | |
| 8 Mar 2023 | 12:00 AM | ENE | 3.2 | |
| 8 Mar 2023 | 1:00 AM | E | 1.2 | |
| 8 Mar 2023 | 2:00 AM | ENE | 3.2 | |
| | | L | | |

| March 2023 | | | |
|---------------------------|----------|-----------|----------------|
| Wind Speed and Directions | | | |
| Date | Time | Direction | Wind Speed m-s |
| 8 Mar 2023 | 3:00 AM | Е | 3.2 |
| 8 Mar 2023 | 4:00 AM | Е | 1.2 |
| 8 Mar 2023 | 5:00 AM | ESE | 1.2 |
| 8 Mar 2023 | 6:00 AM | Е | 1.2 |
| 8 Mar 2023 | 7:00 AM | ENE | 1.2 |
| 8 Mar 2023 | 8:00 AM | S | 3.2 |
| 8 Mar 2023 | 9:00 AM | Е | 4.4 |
| 8 Mar 2023 | 10:00 AM | W | 8.0.15 |
| 8 Mar 2023 | 11:00 AM | W | 6.4 |
| 8 Mar 2023 | 12:00 PM | W | 6.1 |
| 8 Mar 2023 | 1:00 PM | W | 6.1 |
| 8 Mar 2023 | 2:00 PM | Е | 4.4 |
| 8 Mar 2023 | 3:00 PM | W | 4.4 |
| 8 Mar 2023 | 4:00 PM | Е | 4.4 |
| 8 Mar 2023 | 5:00 PM | ESE | 3.8 |
| 8 Mar 2023 | 6:00 PM | ENE | 3.8 |
| 8 Mar 2023 | 7:00 PM | ENE | 6.4 |
| 8 Mar 2023 | 8:00 PM | Е | 6.4 |
| 8 Mar 2023 | 9:00 PM | Е | 6.4 |
| 8 Mar 2023 | 10:00 PM | WNW | 4.4 |
| 8 Mar 2023 | 11:00 PM | WSW | 3.8 |
| 9 Mar 2023 | 12:00 AM | WSW | 3.8 |
| 9 Mar 2023 | 1:00 AM | W | 6.4 |
| 9 Mar 2023 | 2:00 AM | Е | 3.2 |
| 9 Mar 2023 | 3:00 AM | WNW | 3.8 |
| 9 Mar 2023 | 4:00 AM | Е | 1.2 |
| 9 Mar 2023 | 5:00 AM | ENE | 3.2 |
| 9 Mar 2023 | 6:00 AM | Е | 3.2 |
| 9 Mar 2023 | 7:00 AM | ESE | 1.2 |
| 9 Mar 2023 | 8:00 AM | W | 1.2 |
| 9 Mar 2023 | 9:00 AM | WSW | 1.2 |
| 9 Mar 2023 | 10:00 AM | WSW | 1.2 |
| 9 Mar 2023 | 11:00 AM | ENE | 1.2 |
| 9 Mar 2023 | 12:00 PM | ENE | 0.1 |
| 9 Mar 2023 | 1:00 PM | ENE | 0.1 |
| 9 Mar 2023 | 2:00 PM | ENE | 0.1 |
| 9 Mar 2023 | 3:00 PM | ENE | 0.1 |
| 9 Mar 2023 | 4:00 PM | ENE | 0.1 |
| 9 Mar 2023 | 5:00 PM | ENE | 1.2 |
| 9 Mar 2023 | 6:00 PM | ENE | 1.2 |
| 9 Mar 2023 | 7:00 PM | WNW | 3.2 |
| 9 Mar 2023 | 8:00 PM | NW | 1.2 |
| 9 Mar 2023 | 9:00 PM | NW | 0.1 |
| 9 Mar 2023 | 10:00 PM | NW | 0.1 |
| 9 Mar 2023 | 11:00 PM | WNW | 0.1 |
| 10 Mar 2023 | 12:00 AM | W | 0.1 |
| 10 Mar 2023 | 1:00 AM | W | 1.2 |
| 10 Mar 2023 | 2:00 AM | W | 0.1 |
| 10 Mar 2023 | 3:00 AM | W | 1.2 |
| 10 Mar 2023 | 4:00 AM | W | 0.1 |
| 10 Mar 2023 | 5:00 AM | W | 0.1 |
| 10 Mar 2023 | 6:00 AM | W | 0.1 |
| 10 Mar 2023 | 7:00 AM | W | 0.1 |
| 10 Mar 2023 | 8:00 AM | WSW | 0.1 |
| 10 Mar 2023 | 9:00 AM | W | 0.1 |
| 10 Mar 2023 | 10:00 AM | WNW | 0.1 |
| 10 Mar 2023 | 11:00 AM | NNE | 0.1 |

| March 2023 | | | |
|-------------|------------|----------------|----------------|
| | Wind Speed | and Directions | |
| Date | Time | Direction | Wind Speed m-s |
| 10 Mar 2023 | 12:00 PM | NNE | 0.1 |
| 10 Mar 2023 | 1:00 PM | N | 1.2 |
| 10 Mar 2023 | 2:00 PM | WNW | 0.1 |
| 10 Mar 2023 | 3:00 PM | WNW | 0.1 |
| 10 Mar 2023 | 4:00 PM | WNW | 1.2 |
| 10 Mar 2023 | 5:00 PM | W | 0.1 |
| 10 Mar 2023 | 6:00 PM | W | 1.2 |
| 10 Mar 2023 | 7:00 PM | WNW | 0.1 |
| 10 Mar 2023 | 8:00 PM | WNW | 0.1 |
| 10 Mar 2023 | 9:00 PM | NW | 1.2 |
| 10 Mar 2023 | 10:00 PM | NW | 0.1 |
| 10 Mar 2023 | 11:00 PM | NW | 0.1 |
| 11 Mar 2023 | 12:00 AM | NW | 0.1 |
| 11 Mar 2023 | 1:00 AM | | 0.1 |
| 11 Mar 2023 | 2:00 AM | | 0.1 |
| 11 Mar 2023 | 3:00 AM | NNE | 0.1 |
| 11 Mar 2023 | 4:00 AM | NE | 1.2 |
| 11 Mar 2023 | 5:00 AM | NE | 0.1 |
| 11 Mar 2023 | 6:00 AM | NE | 0.1 |
| 11 Mar 2023 | 7:00 AM | NE | 0.1 |
| 11 Mar 2023 | 8:00 AM | NNE | 0.1 |
| 11 Mar 2023 | 9:00 AM | NNE | 0.1 |
| 11 Mar 2023 | 10:00 AM | | 0.1 |
| 11 Mar 2023 | 11:00 AM | | 0.1 |
| 11 Mar 2023 | 12:00 PM | NNE | 0.1 |
| 11 Mar 2023 | 1:00 PM | NNE | 0.1 |
| 11 Mar 2023 | 2:00 PM | NNE | 0.1 |
| 11 Mar 2023 | 3:00 PM | ENE | 0.1 |
| 11 Mar 2023 | 4:00 PM | ENE | 1.2 |
| 11 Mar 2023 | 5:00 PM | ENE | 1.2 |
| 11 Mar 2023 | 6:00 PM | SW | 0.1 |
| 11 Mar 2023 | 7:00 PM | NE | 0.1 |
| 11 Mar 2023 | 8:00 PM | NE | 0.1 |
| 11 Mar 2023 | 9:00 PM | NE | 0.1 |
| 11 Mar 2023 | 10:00 PM | NE | 0.1 |
| 11 Mar 2023 | 11:00 PM | NE | 0.1 |
| 12 Mar 2023 | 12:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 1:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 2:00 AM | Е | 0.1 |
| 12 Mar 2023 | 3:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 4:00 AM | Е | 0.1 |
| 12 Mar 2023 | 5:00 AM | Е | 0.1 |
| 12 Mar 2023 | 6:00 AM | Е | 0.1 |
| 12 Mar 2023 | 7:00 AM | Е | 0.1 |
| 12 Mar 2023 | 8:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 9:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 10:00 AM | ENE | 0.1 |
| 12 Mar 2023 | 11:00 AM | E | 1.2 |
| 12 Mar 2023 | 12:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 1:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 2:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 3:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 4:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 5:00 PM | ENE | 0.1 |
| 12 Mar 2023 | 6:00 PM | ENE | 1.2 |
| 12 Mar 2023 | 7:00 PM | ENE | 0.1 |
| 12 Mar 2023 | 8:00 PM | Е | 0.1 |

| | March 2023 | | | |
|-------------|---------------------------|-----------|----------------|--|
| | Wind Speed and Directions | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 12 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 12 Mar 2023 | 10:00 PM | Е | 0.1 | |
| 12 Mar 2023 | 11:00 PM | Е | 0.1 | |
| 13 Mar 2023 | 12:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 1:00 AM | Е | 0.1 | |
| 13 Mar 2023 | 2:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 3:00 AM | Е | 0.1 | |
| 13 Mar 2023 | 4:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 5:00 AM | Е | 1.2 | |
| 13 Mar 2023 | 6:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 7:00 AM | Е | 0.1 | |
| 13 Mar 2023 | 8:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 9:00 AM | ENE | 0.1 | |
| 13 Mar 2023 | 10:00 AM | Е | 0.1 | |
| 13 Mar 2023 | 11:00 AM | Е | 1.2 | |
| 13 Mar 2023 | 12:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 1:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 2:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 3:00 PM | Е | 0.1 | |
| 13 Mar 2023 | 4:00 PM | WNW | 0.1 | |
| 13 Mar 2023 | 5:00 PM | Е | 1.2 | |
| 13 Mar 2023 | 6:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 7:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 8:00 PM | ENE | 1.2 | |
| 13 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 13 Mar 2023 | 10:00 PM | Е | 3.2 | |
| 13 Mar 2023 | 11:00 PM | Е | 3.2 | |
| 14 Mar 2023 | 12:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 1:00 AM | ENE | 1.2 | |
| 14 Mar 2023 | 2:00 AM | Е | 0.1 | |
| 14 Mar 2023 | 3:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 4:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 5:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 6:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 7:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 8:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 9:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 10:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 11:00 AM | Е | 1.2 | |
| 14 Mar 2023 | 12:00 PM | Е | 0.1 | |
| 14 Mar 2023 | 1:00 PM | ENE | 0.1 | |
| 14 Mar 2023 | 2:00 PM | Е | 0.1 | |
| 14 Mar 2023 | 3:00 PM | Е | 0.1 | |
| 14 Mar 2023 | 4:00 PM | ENE | 0.1 | |
| 14 Mar 2023 | 5:00 PM | NE | 0.1 | |
| 14 Mar 2023 | 6:00 PM | ENE | 0.1 | |
| 14 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 14 Mar 2023 | 8:00 PM | NNE | 0.1 | |
| 14 Mar 2023 | 9:00 PM | NE | 0.1 | |
| 14 Mar 2023 | 10:00 PM | NNE | 0.1 | |
| 14 Mar 2023 | 11:00 PM | NNW | 0.1 | |
| 15 Mar 2023 | 12:00 AM | NNW | 0.1 | |
| 15 Mar 2023 | 1:00 AM | NNW | 0.1 | |
| 15 Mar 2023 | 2:00 AM | NNW | 0.1 | |
| 15 Mar 2023 | 3:00 AM | N | 0.1 | |
| 15 Mar 2023 | 4:00 AM | NNE | 0.1 | |
| 15 Mar 2023 | 5:00 AM | NNE | 0.1 | |

| March 2023 | | | | |
|-------------|---------------------------|-----------|----------------|--|
| | Wind Speed and Directions | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 15 Mar 2023 | 6:00 AM | NNW | 0.1 | |
| 15 Mar 2023 | 7:00 AM | NNW | 1.2 | |
| 15 Mar 2023 | 8:00 AM | NW | 0.1 | |
| 15 Mar 2023 | 9:00 AM | NNW | 0.1 | |
| 15 Mar 2023 | 10:00 AM | | 0.1 | |
| 15 Mar 2023 | 11:00 AM | | 0.1 | |
| 15 Mar 2023 | 12:00 PM | | 0.1 | |
| 15 Mar 2023 | 1:00 PM | | 0.1 | |
| 15 Mar 2023 | 2:00 PM | SSW | 0.1 | |
| 15 Mar 2023 | 3:00 PM | | 0.1 | |
| 15 Mar 2023 | 4:00 PM | | 0.1 | |
| 15 Mar 2023 | 5:00 PM | NW | 0.1 | |
| 15 Mar 2023 | 6:00 PM | NNW | 0.1 | |
| 15 Mar 2023 | 7:00 PM | NW | 0.1 | |
| 15 Mar 2023 | 8:00 PM | NNW | 0.1 | |
| 15 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 15 Mar 2023 | 10:00 PM | ENE | 0.1 | |
| 15 Mar 2023 | 11:00 PM | ENE | 0.1 | |
| 16 Mar 2023 | 12:00 AM | WNW | 0.1 | |
| 16 Mar 2023 | 1:00 AM | ENE | 0.1 | |
| 16 Mar 2023 | 2:00 AM | ENE | 0.1 | |
| 16 Mar 2023 | 3:00 AM | ENE | 0.1 | |
| 16 Mar 2023 | 4:00 AM | | 0.1 | |
| 16 Mar 2023 | 5:00 AM | | 0.1 | |
| 16 Mar 2023 | 6:00 AM | WSW | 0.1 | |
| 16 Mar 2023 | 7:00 AM | Е | 1.2 | |
| 16 Mar 2023 | 8:00 AM | ENE | 0.1 | |
| 16 Mar 2023 | 9:00 AM | Е | 0.1 | |
| 16 Mar 2023 | 10:00 AM | Е | 1.2 | |
| 16 Mar 2023 | 11:00 AM | ENE | 3.2 | |
| 16 Mar 2023 | 12:00 PM | Е | 3.2 | |
| 16 Mar 2023 | 1:00 PM | ENE | 3.2 | |
| 16 Mar 2023 | 2:00 PM | Е | 3.2 | |
| 16 Mar 2023 | 3:00 PM | Е | 3.2 | |
| 16 Mar 2023 | 4:00 PM | W | 3.2 | |
| 16 Mar 2023 | 5:00 PM | Е | 3.8 | |
| 16 Mar 2023 | 6:00 PM | WSW | 3.2 | |
| 16 Mar 2023 | 7:00 PM | Е | 3.8 | |
| 16 Mar 2023 | 8:00 PM | Е | 3.2 | |
| 16 Mar 2023 | 9:00 PM | ENE | 3.2 | |
| 16 Mar 2023 | 10:00 PM | ENE | 1.2 | |
| 16 Mar 2023 | 11:00 PM | Е | 3.2 | |
| 17 Mar 2023 | 12:00 AM | Е | 3.8 | |
| 17 Mar 2023 | 1:00 AM | Е | 3.2 | |
| 17 Mar 2023 | 2:00 AM | Е | 3.2 | |
| 17 Mar 2023 | 3:00 AM | ENE | 3.2 | |
| 17 Mar 2023 | 4:00 AM | ENE | 1.2 | |
| 17 Mar 2023 | 5:00 AM | Е | 3.2 | |
| 17 Mar 2023 | 6:00 AM | Е | 1.2 | |
| 17 Mar 2023 | 7:00 AM | Е | 0.1 | |
| 17 Mar 2023 | 8:00 AM | ENE | 1.2 | |
| 17 Mar 2023 | 9:00 AM | Е | 3.2 | |
| 17 Mar 2023 | 10:00 AM | ENE | 3.8 | |
| 17 Mar 2023 | 11:00 AM | Е | 3.2 | |
| 17 Mar 2023 | 12:00 PM | ENE | 3.2 | |
| 17 Mar 2023 | 1:00 PM | Е | 3.2 | |
| 17 Mar 2023 | 2:00 PM | ENE | 3.2 | |

| | March 2023 | | | |
|---------------------------|------------|-----------|----------------|--|
| Wind Speed and Directions | | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 17 Mar 2023 | 3:00 PM | Е | 1.2 | |
| 17 Mar 2023 | 4:00 PM | ENE | 1.2 | |
| 17 Mar 2023 | 5:00 PM | ENE | 0.1 | |
| 17 Mar 2023 | 6:00 PM | ENE | 1.2 | |
| 17 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 17 Mar 2023 | 8:00 PM | ESE | 0.1 | |
| 17 Mar 2023 | 9:00 PM | | 0.1 | |
| 17 Mar 2023 | 10:00 PM | ESE | 0.1 | |
| 17 Mar 2023 | 11:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 12:00 AM | Е | 0.1 | |
| 18 Mar 2023 | 1:00 AM | Е | 1.2 | |
| 18 Mar 2023 | 2:00 AM | Е | 0.1 | |
| 18 Mar 2023 | 3:00 AM | Е | 0.1 | |
| 18 Mar 2023 | 4:00 AM | ENE | 1.2 | |
| 18 Mar 2023 | 5:00 AM | ENE | 0.1 | |
| 18 Mar 2023 | 6:00 AM | Е | 1.2 | |
| 18 Mar 2023 | 7:00 AM | Е | 1.2 | |
| 18 Mar 2023 | 8:00 AM | ENE | 0.1 | |
| 18 Mar 2023 | 9:00 AM | Е | 1.2 | |
| 18 Mar 2023 | 10:00 AM | ENE | 0.1 | |
| 18 Mar 2023 | 11:00 AM | ENE | 1.2 | |
| 18 Mar 2023 | 12:00 PM | NE | 1.2 | |
| 18 Mar 2023 | 1:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 2:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 3:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 4:00 PM | NE | 0.1 | |
| 18 Mar 2023 | 5:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 6:00 PM | WNW | 0.1 | |
| 18 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 8:00 PM | ENE | 0.1 | |
| 18 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 18 Mar 2023 | 10:00 PM | Е | 0.1 | |
| 18 Mar 2023 | 11:00 PM | ENE | 0.1 | |
| 19 Mar 2023 | 12:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 1:00 AM | E | 0.1 | |
| 19 Mar 2023 | 2:00 AM | WNW | 0.1 | |
| 19 Mar 2023 | 3:00 AM | ENE | 0.1 | |
| 19 Mar 2023 | 4:00 AM | ENE | 0.1 | |
| 19 Mar 2023 | 5:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 6:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 7:00 AM | ENE | 0.1 | |
| 19 Mar 2023 | 8:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 9:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 10:00 AM | ENE | 0.1 | |
| 19 Mar 2023 | 11:00 AM | Е | 0.1 | |
| 19 Mar 2023 | 12:00 PM | Е | 0.1 | |
| 19 Mar 2023 | 1:00 PM | Е | 0.1 | |
| 19 Mar 2023 | 2:00 PM | ENE | 1.2 | |
| 19 Mar 2023 | 3:00 PM | WSW | 1.2 | |
| 19 Mar 2023 | 4:00 PM | SW | 0.1 | |
| 19 Mar 2023 | 5:00 PM | S | 0.1 | |
| 19 Mar 2023 | 6:00 PM | NE | 0.1 | |
| 19 Mar 2023 | 7:00 PM | WNW | 0.1 | |
| 19 Mar 2023 | 8:00 PM | ENE | 0.1 | |
| 19 Mar 2023 | 9:00 PM | ENE | 0.1 | |
| 19 Mar 2023 | 10:00 PM | Е | 0.1 | |
| 19 Mar 2023 | 11:00 PM | Е | 0.1 | |

| Wind Speed and Directions Date Time Direction Wind Speed m-s 20 Mar 2023 1:00 AM ENE 0.1 20 Mar 2023 1:00 AM E 0.1 20 Mar 2023 2:00 AM E 0.1 20 Mar 2023 3:00 AM ENE 1.2 20 Mar 2023 5:00 AM E 0.1 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 7:00 AM ENE 0.1 20 Mar 2023 7:00 AM ENE 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 PM ESE 0.1 20 Mar 2023 12:00 PM ESE 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 3:00 PM ENE 0.1 | | Mar | ch 2023 | |
|--|-------------|----------|---------------------------------------|----------------|
| Date | | | | |
| 20 Mar 2023 | Date | - | | Wind Speed m-s |
| 20 Mar 2023 1:00 AM E 0.1 20 Mar 2023 2:00 AM E 0.1 20 Mar 2023 3:00 AM ENE 1.2 20 Mar 2023 4:00 AM E 0.1 20 Mar 2023 5:00 AM E 0.1 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 10:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ENE | 20 Mar 2023 | 12:00 AM | ENE | |
| 20 Mar 2023 2:00 AM E 0.1 20 Mar 2023 3:00 AM ENE 1.2 20 Mar 2023 4:00 AM E 0.1 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 9:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 PM ENE 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 3:00 PM ENE 0.1 20 Mar 2023 4:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 6:00 PM ENE 0.1 20 Mar 2023 7:00 PM ENE < | | | | |
| 20 Mar 2023 3:00 AM ENE 1.2 20 Mar 2023 4:00 AM E 0.1 20 Mar 2023 5:00 AM E 0.1 20 Mar 2023 5:00 AM E 0.1 20 Mar 2023 7:00 AM ENE 0.1 20 Mar 2023 9:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 PM ESE 0.1 20 Mar 2023 12:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 1:00 PM ENE | 20 Mar 2023 | 2:00 AM | | |
| 20 Mar 2023 4:00 AM E 0.1 20 Mar 2023 5:00 AM E 0.1 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 6:00 AM ENE 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ENE 0.1 20 Mar 2023 1:00 PM E <td< td=""><td></td><td></td><td>ENE</td><td></td></td<> | | | ENE | |
| 20 Mar 2023 6:00 AM E 0.1 20 Mar 2023 7:00 AM ENE 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 3:00 PM NE 0.1 20 Mar 2023 4:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 9:00 PM E 0.1 20 Mar 2023 10:00 PM E 0.1 20 Mar 2023 10:00 PM E < | | | | |
| 20 Mar 2023 7:00 AM ENE 0.1 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 9:00 AM ESE 0.1 20 Mar 2023 10:00 AM SW 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 2:00 PM SSE 0.1 20 Mar 2023 3:00 PM ENE 0.1 20 Mar 2023 4:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE | 20 Mar 2023 | 5:00 AM | Е | 0.1 |
| 20 Mar 2023 8:00 AM ENE 0.1 20 Mar 2023 9:00 AM ESE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 3:00 PM SSE 0.1 20 Mar 2023 4:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 7:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM E 0.1 20 Mar 2023 11:00 PM ENE 0.1 21 Mar 2023 11:00 PM ENE 0.1 21 Mar 2023 11:00 PM ENE | 20 Mar 2023 | 6:00 AM | Е | 0.1 |
| 20 Mar 2023 9:00 AM ESE 0.1 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 PM ENE 0.1 20 Mar 2023 12:00 PM ESE 0.1 20 Mar 2023 2:00 PM ESE 0.1 20 Mar 2023 3:00 PM ESE 0.1 20 Mar 2023 3:00 PM ENE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 7:00 PM ENE 0.1 20 Mar 2023 9:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 21 Mar 2023 10:00 AM E 0.1 21 Mar 2023 10:00 AM E | 20 Mar 2023 | 7:00 AM | ENE | 0.1 |
| 20 Mar 2023 10:00 AM ESE 0.1 20 Mar 2023 11:00 AM SW 0.1 20 Mar 2023 12:00 PM ENE 0.1 20 Mar 2023 1:00 PM ESE 0.1 20 Mar 2023 2:00 PM SSE 0.1 20 Mar 2023 3:00 PM NE 0.1 20 Mar 2023 5:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 20 Mar 2023 10:00 PM ENE 0.1 21 Mar 2023 10:00 PM ENE 0.1 21 Mar 2023 10:00 AM E 0.1 21 Mar 2023 10:00 AM E 0.1 21 Mar 2023 3:00 AM E | 20 Mar 2023 | 8:00 AM | ENE | 0.1 |
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| 21 Mar 2023 6:00 PM SSE 1.2 21 Mar 2023 7:00 PM SSE 0.1 21 Mar 2023 8:00 PM S 0.1 21 Mar 2023 9:00 PM WSW 1.2 21 Mar 2023 10:00 PM SW 3.2 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | + |
| 21 Mar 2023 7:00 PM SSE 0.1 21 Mar 2023 8:00 PM S 0.1 21 Mar 2023 9:00 PM WSW 1.2 21 Mar 2023 10:00 PM SW 3.2 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 21 Mar 2023 8:00 PM S 0.1 21 Mar 2023 9:00 PM WSW 1.2 21 Mar 2023 10:00 PM SW 3.2 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 21 Mar 2023 9:00 PM WSW 1.2 21 Mar 2023 10:00 PM SW 3.2 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 21 Mar 2023 10:00 PM SW 3.2 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 3:00 AM SW 3.2 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | · · · · · · · · · · · · · · · · · · · | |
| 21 Mar 2023 11:00 PM SSE 3.2 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 12:00 AM SW 3.8 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM SW 3.2 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 1:00 AM SW 3.8 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 2:00 AM WSW 3.8 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 3:00 AM SW 3.8 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 4:00 AM SW 3.2 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 5:00 AM SW 3.2 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 6:00 AM S 0.1 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| 22 Mar 2023 7:00 AM SSE 0.1 | | | | |
| | | | | |
| | | | | |

| | Mar | ch 2023 | |
|-------------|------------|----------------|----------------|
| | Wind Speed | and Directions | |
| Date | Time | Direction | Wind Speed m-s |
| 22 Mar 2023 | 9:00 AM | SE | 0.1 |
| 22 Mar 2023 | 10:00 AM | | 0.1 |
| 22 Mar 2023 | 11:00 AM | SE | 0.1 |
| 22 Mar 2023 | 12:00 PM | SE | 0.1 |
| 22 Mar 2023 | 1:00 PM | SE | 0.1 |
| 22 Mar 2023 | 2:00 PM | E | 0.1 |
| 22 Mar 2023 | 3:00 PM | SE | 0.1 |
| 22 Mar 2023 | 4:00 PM | ESE | 1.2 |
| 22 Mar 2023 | 5:00 PM | ESE | 0.1 |
| 22 Mar 2023 | 6:00 PM | SE | 0.1 |
| 22 Mar 2023 | 7:00 PM | SE | 0.1 |
| 22 Mar 2023 | 8:00 PM | SE | 0.1 |
| 22 Mar 2023 | 9:00 PM | SE | 0.1 |
| 22 Mar 2023 | 10:00 PM | ESE | 0.1 |
| 22 Mar 2023 | 11:00 PM | ESE | 0.1 |
| 23 Mar 2023 | 12:00 AM | ESE | 0.1 |
| 23 Mar 2023 | 1:00 AM | Е | 1.2 |
| 23 Mar 2023 | 2:00 AM | E | 1.2 |
| 23 Mar 2023 | 3:00 AM | NE - | 1.2 |
| 23 Mar 2023 | 4:00 AM | E | 3.2 |
| 23 Mar 2023 | 5:00 AM | SE | 3.2 |
| 23 Mar 2023 | 6:00 AM | <u>E</u> | 3.2 |
| 23 Mar 2023 | 7:00 AM | Е | 3.2 |
| 23 Mar 2023 | 8:00 AM | Е | 3.2 |
| 23 Mar 2023 | 9:00 AM | Е | 3.8 |
| 23 Mar 2023 | 10:00 AM | ENE | 3.8 |
| 23 Mar 2023 | 11:00 AM | W | 4.4 |
| 23 Mar 2023 | 12:00 PM | ENE | 4.4 |
| 23 Mar 2023 | 1:00 PM | ENE | 1.2 |
| 23 Mar 2023 | 2:00 PM | ENE | 3.2 |
| 23 Mar 2023 | 3:00 PM | W | 3.2 |
| 23 Mar 2023 | 4:00 PM | WSW | 3.2 |
| 23 Mar 2023 | 5:00 PM | ENE | 1.2 |
| 23 Mar 2023 | 6:00 PM | E | 0.1 |
| 23 Mar 2023 | 7:00 PM | NNE | 0.1 |
| 23 Mar 2023 | 8:00 PM | ENE | 0.1 |
| 23 Mar 2023 | 9:00 PM | ENE | 0.1 |
| 23 Mar 2023 | 10:00 PM | Е | 0.1 |
| 23 Mar 2023 | 11:00 PM | ENE | 1.2 |
| 24 Mar 2023 | 12:00 AM | ENE | 1.2 |
| 24 Mar 2023 | 1:00 AM | ENE | 1.2 |
| 24 Mar 2023 | 2:00 AM | E | 0.1 |
| 24 Mar 2023 | 3:00 AM | ENE | 0.1 |
| 24 Mar 2023 | 4:00 AM | ENE | 1.2 |
| 24 Mar 2023 | 5:00 AM | E | 0.1 |
| 24 Mar 2023 | 6:00 AM | ENE | 0.1 |
| 24 Mar 2023 | 7:00 AM | E | 0.1 |
| 24 Mar 2023 | 8:00 AM | E | 0.1 |
| 24 Mar 2023 | 9:00 AM | E | 1.2 |
| 24 Mar 2023 | 10:00 AM | SW | 3.2 |
| 24 Mar 2023 | 11:00 AM | ENE | 3.2 |
| 24 Mar 2023 | 12:00 PM | SW | 3.8 |
| 24 Mar 2023 | 1:00 PM | SW | 3.8 |
| 24 Mar 2023 | 2:00 PM | W | 3.8 |
| 24 Mar 2023 | 3:00 PM | ENE | 3.2 |
| 24 Mar 2023 | 4:00 PM | ENE | 1.2 |
| 24 Mar 2023 | 5:00 PM | W | 3.8 |

| | Mar | ch 2023 | | |
|---------------------------|----------|-----------|----------------|--|
| Wind Speed and Directions | | | | |
| Date | Time | Direction | Wind Speed m-s | |
| 24 Mar 2023 | 6:00 PM | Е | 3.8 | |
| 24 Mar 2023 | 7:00 PM | W | 3.8 | |
| 24 Mar 2023 | 8:00 PM | ENE | 3.2 | |
| 24 Mar 2023 | 9:00 PM | ENE | 3.2 | |
| 24 Mar 2023 | 10:00 PM | Е | 3.2 | |
| 24 Mar 2023 | 11:00 PM | Е | 3.2 | |
| 25 Mar 2023 | 12:00 AM | Е | 1.2 | |
| 25 Mar 2023 | 1:00 AM | ENE | 1.2 | |
| 25 Mar 2023 | 2:00 AM | WSW | 1.2 | |
| 25 Mar 2023 | 3:00 AM | Е | 3.2 | |
| 25 Mar 2023 | 4:00 AM | Е | 0.1 | |
| 25 Mar 2023 | 5:00 AM | NE | 0.1 | |
| 25 Mar 2023 | 6:00 AM | ENE | 0.1 | |
| 25 Mar 2023 | 7:00 AM | ENE | 0.1 | |
| 25 Mar 2023 | 8:00 AM | NE | 0.1 | |
| 25 Mar 2023 | 9:00 AM | NE | 0.1 | |
| 25 Mar 2023 | 10:00 AM | NE | 0.1 | |
| 25 Mar 2023 | 11:00 AM | N | 0.1 | |
| 25 Mar 2023 | 12:00 PM | WNW | 0.1 | |
| 25 Mar 2023 | 1:00 PM | ENE | 0.1 | |
| 25 Mar 2023 | 2:00 PM | ENE | 0.1 | |
| 25 Mar 2023 | 3:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 4:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 5:00 PM | ENE | 0.1 | |
| 25 Mar 2023 | 6:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 7:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 8:00 PM | ENE | 0.1 | |
| 25 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 10:00 PM | Е | 0.1 | |
| 25 Mar 2023 | 11:00 PM | Е | 0.1 | |
| 26 Mar 2023 | 12:00 AM | ENE | 0.1 | |
| 26 Mar 2023 | 1:00 AM | Е | 0.1 | |
| 26 Mar 2023 | 2:00 AM | | 0.1 | |
| 26 Mar 2023 | 3:00 AM | | 0.1 | |
| 26 Mar 2023 | 4:00 AM | | 0.1 | |
| 26 Mar 2023 | 5:00 AM | | 0.1 | |
| 26 Mar 2023 | 6:00 AM | | 0.1 | |
| 26 Mar 2023 | 7:00 AM | ENE | 0.1 | |
| 26 Mar 2023 | 8:00 AM | ENE | 0.1 | |
| 26 Mar 2023 | 9:00 AM | NE | 0.1 | |
| 26 Mar 2023 | 10:00 AM | NE | 0.1 | |
| 26 Mar 2023 | 11:00 AM | ENE | 1.2 | |
| 26 Mar 2023 | 12:00 PM | ENE | 1.2 | |
| 26 Mar 2023 | 1:00 PM | WSW | 1.2 | |
| 26 Mar 2023 | 2:00 PM | E | 1.2 | |
| 26 Mar 2023 | 3:00 PM | ENE | 1.2 | |
| 26 Mar 2023 | 4:00 PM | W | 1.2 | |
| 26 Mar 2023 | 5:00 PM | E | 1.2 | |
| 26 Mar 2023 | 6:00 PM | ENE | 1.2 | |
| 26 Mar 2023 | 7:00 PM | ENE | 0.1 | |
| 26 Mar 2023 | 8:00 PM | WNW | 0.1 | |
| 26 Mar 2023 | 9:00 PM | Е | 0.1 | |
| 26 Mar 2023 | 10:00 PM | ENE | 0.1 | |
| 26 Mar 2023 | 11:00 PM | Е | 0.1 | |
| 27 Mar 2023 | 12:00 AM | ENE | 0.1 | |
| 27 Mar 2023 | 1:00 AM | Е | 0.1 | |
| 27 Mar 2023 | 2:00 AM | ENE | 0.1 | |

| | Mar | ch 2023 | | | | |
|-------------|---------------------------|-----------|----------------|--|--|--|
| | Wind Speed and Directions | | | | | |
| Date | Time | Direction | Wind Speed m-s | | | |
| 27 Mar 2023 | 3:00 AM | ENE | 1.2 | | | |
| 27 Mar 2023 | 4:00 AM | ENE | 1.2 | | | |
| 27 Mar 2023 | 5:00 AM | ENE | 0.1 | | | |
| 27 Mar 2023 | 6:00 AM | ENE | 0.1 | | | |
| 27 Mar 2023 | 7:00 AM | Е | 0.1 | | | |
| 27 Mar 2023 | 8:00 AM | ENE | 0.1 | | | |
| 27 Mar 2023 | 9:00 AM | Е | 0.1 | | | |
| 27 Mar 2023 | 10:00 AM | ENE | 1.2 | | | |
| 27 Mar 2023 | 11:00 AM | Е | 0.1 | | | |
| 27 Mar 2023 | 12:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 1:00 PM | Е | 0.1 | | | |
| 27 Mar 2023 | 2:00 PM | Е | 0.1 | | | |
| 27 Mar 2023 | 3:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 4:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 5:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 6:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 7:00 PM | NNE | 0.1 | | | |
| 27 Mar 2023 | 8:00 PM | NE | 0.1 | | | |
| 27 Mar 2023 | 9:00 PM | ENE | 0.1 | | | |
| 27 Mar 2023 | 10:00 PM | Е | 0.1 | | | |
| 27 Mar 2023 | 11:00 PM | Е | 0.1 | | | |
| 28 Mar 2023 | 12:00 AM | ENE | 0.1 | | | |
| 28 Mar 2023 | 1:00 AM | ENE | 0.1 | | | |
| 28 Mar 2023 | 2:00 AM | ENE | 0.1 | | | |
| 28 Mar 2023 | 3:00 AM | | 0.1 | | | |
| 28 Mar 2023 | 4:00 AM | | 0.1 | | | |
| 28 Mar 2023 | 5:00 AM | | 0.1 | | | |
| 28 Mar 2023 | 6:00 AM | Е | 0.1 | | | |
| 28 Mar 2023 | 7:00 AM | Е | 0.1 | | | |
| 28 Mar 2023 | 8:00 AM | | 0.1 | | | |
| 28 Mar 2023 | 9:00 AM | Е | 0.1 | | | |
| 28 Mar 2023 | 10:00 AM | ENE | 0.1 | | | |
| 28 Mar 2023 | 11:00 AM | NE | 0.1 | | | |
| 28 Mar 2023 | 12:00 PM | SSE | 0.1 | | | |
| 28 Mar 2023 | 1:00 PM | SE | 0.1 | | | |
| 28 Mar 2023 | 2:00 PM | SW | 0.1 | | | |

| | Mar | ch 2023 | |
|-------------|------------|----------------|----------------|
| | Wind Speed | and Directions | |
| Date | Time | Direction | Wind Speed m-s |
| 28 Mar 2023 | 3:00 PM | SSW | 0.1 |
| 28 Mar 2023 | 4:00 PM | ESE | 0.1 |
| 28 Mar 2023 | 5:00 PM | S | 0.1 |
| 28 Mar 2023 | 6:00 PM | S | 0.1 |
| 28 Mar 2023 | 7:00 PM | | 0.1 |
| 28 Mar 2023 | 8:00 PM | | 0.1 |
| 28 Mar 2023 | 9:00 PM | SW | 0.1 |
| 28 Mar 2023 | 10:00 PM | SW | 0.1 |
| 28 Mar 2023 | 11:00 PM | SW | 0.1 |
| 29 Mar 2023 | 12:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 1:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 2:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 3:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 4:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 5:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 6:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 7:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 8:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 9:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 10:00 AM | WSW | 0.1 |
| 29 Mar 2023 | 11:00 AM | SW | 0.1 |
| 29 Mar 2023 | 12:00 PM | SW | 1.2 |
| 29 Mar 2023 | 1:00 PM | SW | 1.2 |
| 29 Mar 2023 | 2:00 PM | WSW | 1.2 |
| 29 Mar 2023 | 3:00 PM | WSW | 3.2 |
| 29 Mar 2023 | 4:00 PM | SSW | 0.1 |
| 29 Mar 2023 | 5:00 PM | WSW | 3.2 |
| 29 Mar 2023 | 6:00 PM | SW | 3.2 |
| 29 Mar 2023 | 7:00 PM | S | 1.2 |
| 29 Mar 2023 | 8:00 PM | SW | 3.8 |
| 29 Mar 2023 | 9:00 PM | WSW | 3.2 |
| 29 Mar 2023 | 10:00 PM | WSW | 0.1 |
| 29 Mar 2023 | 11:00 PM | W | 1.2 |
| 30 Mar 2023 | 12:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 1:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 2:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 3:00 AM | | 0.1 |
| 30 Mar 2023 | 4:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 5:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 6:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 7:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 8:00 AM | WNW | 0.1 |
| 30 Mar 2023 | 9:00 AM | ENE | 1.2 |
| 30 Mar 2023 | 10:00 AM | ENE | 3.2 |
| 30 Mar 2023 | 11:00 AM | Е | 3.2 |
| 30 Mar 2023 | 12:00 PM | Е | 3.8 |
| 30 Mar 2023 | 1:00 PM | ENE | 3.8 |
| 30 Mar 2023 | 2:00 PM | Е | 3.2 |
| 30 Mar 2023 | 3:00 PM | Е | 1.2 |
| 30 Mar 2023 | 4:00 PM | ENE | 3.2 |
| 30 Mar 2023 | 5:00 PM | Е | 1.2 |
| 30 Mar 2023 | 6:00 PM | Е | 1.2 |
| 30 Mar 2023 | 7:00 PM | E | 1.2 |
| 30 Mar 2023 | 8:00 PM | ENE | 1.2 |
| 30 Mar 2023 | 9:00 PM | E | 1.2 |
| 30 Mar 2023 | 10:00 PM | ENE | 1.2 |
| 30 Mar 2023 | 11:00 PM | ENE | 3.2 |
| L | | • | |

| March 2023 | | | | | | | | | | | |
|-------------|---------------------------|-----------|----------------|--|--|--|--|--|--|--|--|
| | Wind Speed and Directions | | | | | | | | | | |
| Date | Time | Direction | Wind Speed m-s | | | | | | | | |
| 31 Mar 2023 | 12:00 AM | ENE | 1.2 | | | | | | | | |
| | | - | · | | | | | | | | |
| 31 Mar 2023 | 1:00 AM | ENE | 1.2 | | | | | | | | |
| 31 Mar 2023 | 2:00 AM | Е | 1.2 | | | | | | | | |
| 31 Mar 2023 | 3:00 AM | ENE | 1.2 | | | | | | | | |
| 31 Mar 2023 | 4:00 AM | ENE | 3.2 | | | | | | | | |
| 31 Mar 2023 | 5:00 AM | SW | 3.8 | | | | | | | | |
| 31 Mar 2023 | 6:00 AM | Е | 3.8 | | | | | | | | |
| 31 Mar 2023 | 7:00 AM | WSW | 3.2 | | | | | | | | |
| 31 Mar 2023 | 8:00 AM | Е | 3.8 | | | | | | | | |
| 31 Mar 2023 | 9:00 AM | ENE | 3.8 | | | | | | | | |
| 31 Mar 2023 | 10:00 AM | ENE | 3.8 | | | | | | | | |
| 31 Mar 2023 | 11:00 AM | Е | 5.1 | | | | | | | | |
| 31 Mar 2023 | 12:00 PM | Е | 4.4 | | | | | | | | |
| 31 Mar 2023 | 1:00 PM | ENE | 3.8 | | | | | | | | |
| 31 Mar 2023 | 2:00 PM | ENE | 3.2 | | | | | | | | |
| 31 Mar 2023 | 3:00 PM | ESE | 4.4 | | | | | | | | |
| 31 Mar 2023 | 4:00 PM | Е | 3.2 | | | | | | | | |
| 31 Mar 2023 | 5:00 PM | Е | 3.2 | | | | | | | | |
| 31 Mar 2023 | 6:00 PM | Е | 3.8 | | | | | | | | |
| 31 Mar 2023 | 7:00 PM | ENE | 3.2 | | | | | | | | |
| 31 Mar 2023 | 8:00 PM | ESE | 1.2 | | | | | | | | |
| 31 Mar 2023 | 9:00 PM | ENE | 1.2 | | | | | | | | |
| 31 Mar 2023 | 10:00 PM | Е | 1.2 | | | | | | | | |
| 31 Mar 2023 | 11:00 PM | Е | 3.2 | | | | | | | | |

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Contract No. ED/2018/04

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

Contract No. ED/2018/04

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

Contract No. ED/2018/04

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

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|---------|-------------|----------------------|----------------------|-------------|-------------|----------|
| | 1-May | | | 1-Jun | 2-Jun | 3-Jun |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| 4-Jun | 5-Jun | 6-Jun | 7-Jun | 8-Jun | 9-Jun | 10-Jun |
| | | | | | | |
| | | 1-hr TSP X3 Noise | | | | |
| | 24-hrs TSP | Noise | | | 24-hrs TSP | |
| | | | | | | |
| 11-Jun | 12-Jun | 13-Jun | 14-Jun | 15-Jun | 16-Jun | 17-Jun |
| 11-Juli | 12-Juli | 15-Juli | 14-Juli | 13-Juli | 10-Juli | 1 /-Juii |
| | 1-hr TSP X3 | | | | 1-hr TSP X3 | |
| | Noise | | | 24.1 TOD | | |
| | | | | 24-hrs TSP | | |
| | | | | | | |
| 18-Jun | 19-Jun | 20-Jun | 21-Jun | 22-Jun | 23-Jun | 24-Jun |
| | | | | 1-hr TSP X3 | | |
| | | | | Noise | | |
| | | | 24-hrs TSP | | | |
| | | | | | | |
| 25-Jun | 26-Jun | ` 27-Jun | 28-Jun | 29-Jun | 30-Jun | |
| | | | 1 1 TCD V2 | | | |
| | | | 1-hr TSP X3 Noise | | | |
| | | 24-hrs TSP | 110150 | | | |
| | | | | | | |
| | | | | | | |

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

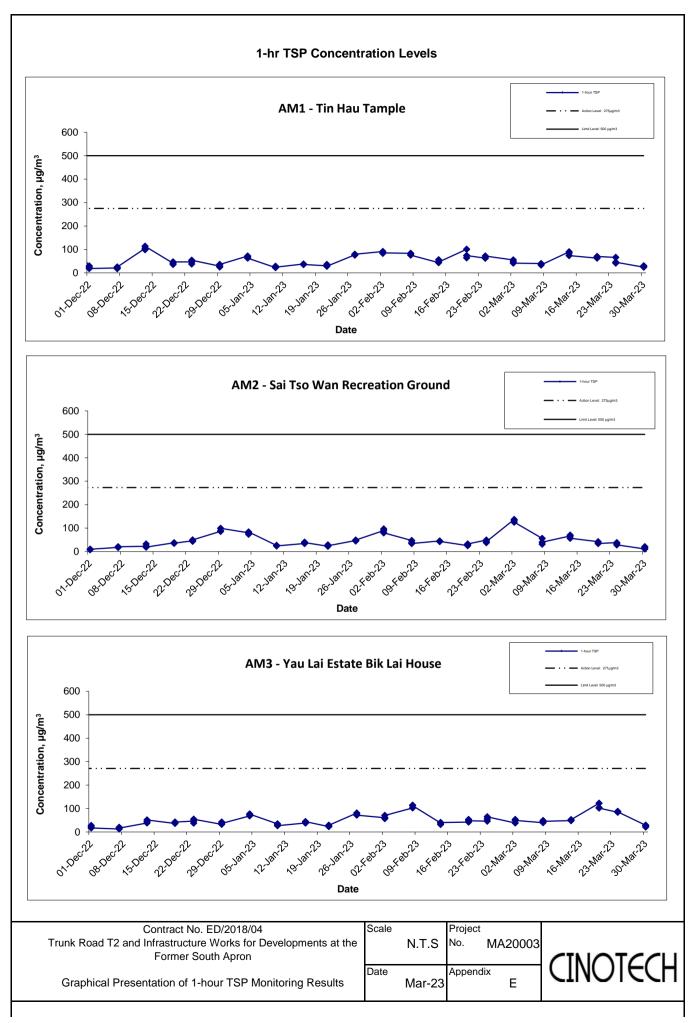
| Location AM1 - Tin Hau Temple | | | | | | | | | |
|-------------------------------|-------|---------|------------------------------------|--|--|--|--|--|--|
| Date | Time | Weather | Particulate Concentration (µg/m³) | | | | | | |
| 2-Mar-23 | 16:00 | Sunny | 55.1 | | | | | | |
| 2-Mar-23 | 17:00 | Sunny | 47.5 | | | | | | |
| 2-Mar-23 | 18:00 | Sunny | 41.8 | | | | | | |
| 8-Mar-23 | 12:30 | Sunny | 39.9 | | | | | | |
| 8-Mar-23 | 13:30 | Sunny | 34.2 | | | | | | |
| 8-Mar-23 | 14:30 | Sunny | 34.2 | | | | | | |
| 14-Mar-23 | 16:00 | Sunny | 90.0 | | | | | | |
| 14-Mar-23 | 17:00 | Sunny | 84.0 | | | | | | |
| 14-Mar-23 | 18:00 | Sunny | 74.0 | | | | | | |
| 20-Mar-23 | 12:00 | Fine | 62.7 | | | | | | |
| 20-Mar-23 | 13:00 | Fine | 68.4 | | | | | | |
| 20-Mar-23 | 14:00 | Fine | 70.3 | | | | | | |
| 24-Mar-23 | 12:30 | Cloudy | 66.5 | | | | | | |
| 24-Mar-23 | 13:30 | Cloudy | 41.8 | | | | | | |
| 24-Mar-23 | 14:30 | Cloudy | 45.6 | | | | | | |
| 30-Mar-23 | 13:00 | Cloudy | 24.7 | | | | | | |
| 30-Mar-23 | 14:00 | Cloudy | 28.5 | | | | | | |
| 30-Mar-23 | 15:00 | Cloudy | 30.4 | | | | | | |
| | | Average | 52.2 | | | | | | |
| | | Maximum | 90.0 | | | | | | |
| | | Minimum | 24.7 | | | | | | |

| Location AM2 - Sai Tso Wan Recreation Ground | | | | | | | | | |
|--|-------|---------|---|--|--|--|--|--|--|
| Date | Time | Weather | Particulate Concentration (μg/m ³) | | | | | | |
| 2-Mar-23 | 16:00 | Sunny | 136.8 | | | | | | |
| 2-Mar-23 | 17:00 | Sunny | 133.0 | | | | | | |
| 2-Mar-23 | 18:00 | Sunny | 125.4 | | | | | | |
| 8-Mar-23 | 9:00 | Fine | 56.0 | | | | | | |
| 8-Mar-23 | 10:00 | Fine | 32.0 | | | | | | |
| 8-Mar-23 | 11:00 | Fine | 40.0 | | | | | | |
| 14-Mar-23 | 13:00 | Sunny | 66.5 | | | | | | |
| 14-Mar-23 | 14:00 | Sunny | 70.3 | | | | | | |
| 14-Mar-23 | 15:00 | Sunny | 57.0 | | | | | | |
| 20-Mar-23 | 16:00 | Cloudy | 41.8 | | | | | | |
| 20-Mar-23 | 17:00 | Cloudy | 36.1 | | | | | | |
| 20-Mar-23 | 18:00 | Cloudy | 34.2 | | | | | | |
| 24-Mar-23 | 9:00 | Cloudy | 38.0 | | | | | | |
| 24-Mar-23 | 10:00 | Cloudy | 34.2 | | | | | | |
| 24-Mar-23 | 11:00 | Cloudy | 28.5 | | | | | | |
| 30-Mar-23 | 9:00 | Cloudy | 11.4 | | | | | | |
| 30-Mar-23 | 10:00 | Cloudy | 17.1 | | | | | | |
| 30-Mar-23 | 11:00 | Cloudy | 20.9 | | | | | | |
| | | Average | 54.4 | | | | | | |
| | | Maximum | 136.8 | | | | | | |
| | | Minimum | 11.4 | | | | | | |

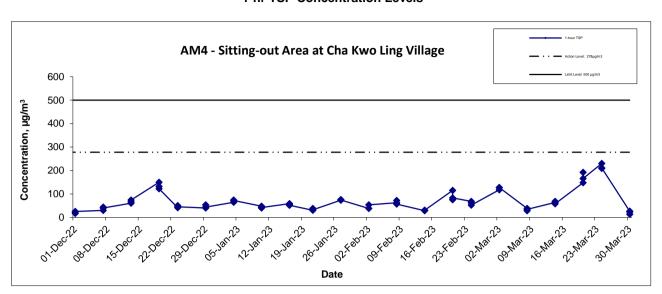
Appendix E - 1-hour TSP Monitoring Results

| Location AM3 - Yau Lai Estate Bik Lai House | | | | | | | | | | |
|---|-------|---------|---|--|--|--|--|--|--|--|
| Date | Time | Weather | Particulate Concentration (μg/m ³) | | | | | | | |
| 2-Mar-23 | 12:00 | Sunny | 38.0 | | | | | | | |
| 2-Mar-23 | 13:00 | Sunny | 53.2 | | | | | | | |
| 2-Mar-23 | 14:00 | Sunny | 49.4 | | | | | | | |
| 8-Mar-23 | 9:25 | Sunny | 39.6 | | | | | | | |
| 8-Mar-23 | 10:25 | Sunny | 48.6 | | | | | | | |
| 8-Mar-23 | 11:25 | Sunny | 45.0 | | | | | | | |
| 14-Mar-23 | 9:00 | Sunny | 48.3 | | | | | | | |
| 14-Mar-23 | 10:00 | Sunny | 48.3 | | | | | | | |
| 14-Mar-23 | 11:00 | Sunny | 52.5 | | | | | | | |
| 20-Mar-23 | 14:00 | Cloudy | 122.0 | | | | | | | |
| 20-Mar-23 | 15:00 | Cloudy | 104.0 | | | | | | | |
| 20-Mar-23 | 16:00 | Cloudy | 102.0 | | | | | | | |
| 24-Mar-23 | 14:00 | Cloudy | 83.6 | | | | | | | |
| 24-Mar-23 | 15:00 | Cloudy | 87.4 | | | | | | | |
| 24-Mar-23 | 16:00 | Cloudy | 85.5 | | | | | | | |
| 30-Mar-23 | 9:00 | Cloudy | 28.5 | | | | | | | |
| 30-Mar-23 | 10:00 | Cloudy | 26.6 | | | | | | | |
| 30-Mar-23 | 11:00 | Cloudy | 20.9 | | | | | | | |
| | | Average | 60.2 | | | | | | | |
| | | Maximum | 122.0 | | | | | | | |
| | | Minimum | 20.9 | | | | | | | |

| Location AM4 - Sitting-out Area at Cha Kwo Ling Village | | | | | | | | | |
|---|-------|---------|---|--|--|--|--|--|--|
| Date | Time | Weather | Particulate Concentration (μg/m ³) | | | | | | |
| 2-Mar-23 | 9:00 | Sunny | 117.8 | | | | | | |
| 2-Mar-23 | 10:00 | Sunny | 127.3 | | | | | | |
| 2-Mar-23 | 11:00 | Sunny | 127.3 | | | | | | |
| 8-Mar-23 | 15:55 | Sunny | 38.0 | | | | | | |
| 8-Mar-23 | 16:55 | Sunny | 28.5 | | | | | | |
| 8-Mar-23 | 17:55 | Sunny | 34.2 | | | | | | |
| 14-Mar-23 | 13:00 | Sunny | 64.0 | | | | | | |
| 14-Mar-23 | 14:00 | Sunny | 68.0 | | | | | | |
| 14-Mar-23 | 15:00 | Sunny | 58.0 | | | | | | |
| 20-Mar-23 | 9:00 | Cloudy | 148.0 | | | | | | |
| 20-Mar-23 | 10:00 | Cloudy | 192.0 | | | | | | |
| 20-Mar-23 | 11:00 | Cloudy | 166.0 | | | | | | |
| 24-Mar-23 | 9:00 | Cloudy | 229.9 | | | | | | |
| 24-Mar-23 | 10:00 | Cloudy | 209.0 | | | | | | |
| 24-Mar-23 | 11:00 | Cloudy | 210.9 | | | | | | |
| 30-Mar-23 | 16:00 | Cloudy | 26.6 | | | | | | |
| 30-Mar-23 | 17:00 | Cloudy | 22.8 | | | | | | |
| 30-Mar-23 | 18:00 | Cloudy | 13.3 | | | | | | |
| | | Average | 104.5 | | | | | | |
| | | Maximum | 229.9 | | | | | | |
| | | Minimum | 13.3 | | | | | | |



1-hr TSP Concentration Levels



Notes:

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

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Graphical Presentation of 1-hour TSP Monitoring Results

Scale Project
N.T.S No. MA20003

Date Mar-23 Appendix E



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Monitoring Results

Location AM1 - Tin Hau Temple

| Start Date | rt Date Weather Filter Weight (g) Parti | | Particulate | iculate Elapse Time | | Sampling | Sampling Flow Rate (m³/min.) | | | Total vol. | Conc. | |
|------------|---|---------|-------------|---------------------|---------|----------|------------------------------|---------|-------|------------|-------------------|---------|
| Start Date | Condition | Initial | Final | Weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m³/min) | (m ³) | (µg/m³) |
| 1-Mar-23 | Sunny | 3.3680 | 3.5642 | 0.1962 | 11442.6 | 11466.6 | 24.0 | 1.22 | 1.22 | 1.22 | 1758.0 | 111.6 |
| 7-Mar-23 | Sunny | 3.3146 | 3.4703 | 0.1557 | 11466.6 | 11490.6 | 24.0 | 1.22 | 1.22 | 1.22 | 1753.7 | 88.8 |
| 13-Mar-23 | Sunny | 3.3246 | 3.5862 | 0.2616 | 11490.6 | 11514.6 | 24.0 | 1.22 | 1.22 | 1.22 | 1754.8 | 149.1 |
| 17-Mar-23 | Sunny | 3.3628 | 3.5794 | 0.2166 | 11514.6 | 11538.6 | 24.0 | 1.21 | 1.21 | 1.21 | 1748.0 | 123.9 |
| 23-Mar-23 | Sunny | 3.3875 | 3.6224 | 0.2349 | 11538.6 | 11562.6 | 24.0 | 1.21 | 1.21 | 1.21 | 1735.7 | 135.3 |
| 29-Mar-23 | Cloudy | 3.3067 | 3.4200 | 0.1133 | 11562.6 | 11586.6 | 24.0 | 1.22 | 1.21 | 1.22 | 1750.6 | 64.7 |
| | | | | | | | | | | | Min | 64.7 |
| | | | | | | | | | | | Max | 149.1 |
| | | | | | | | | | | | Average | 112.2 |

Location AM2 - Sai Tso Wan Recreation Ground

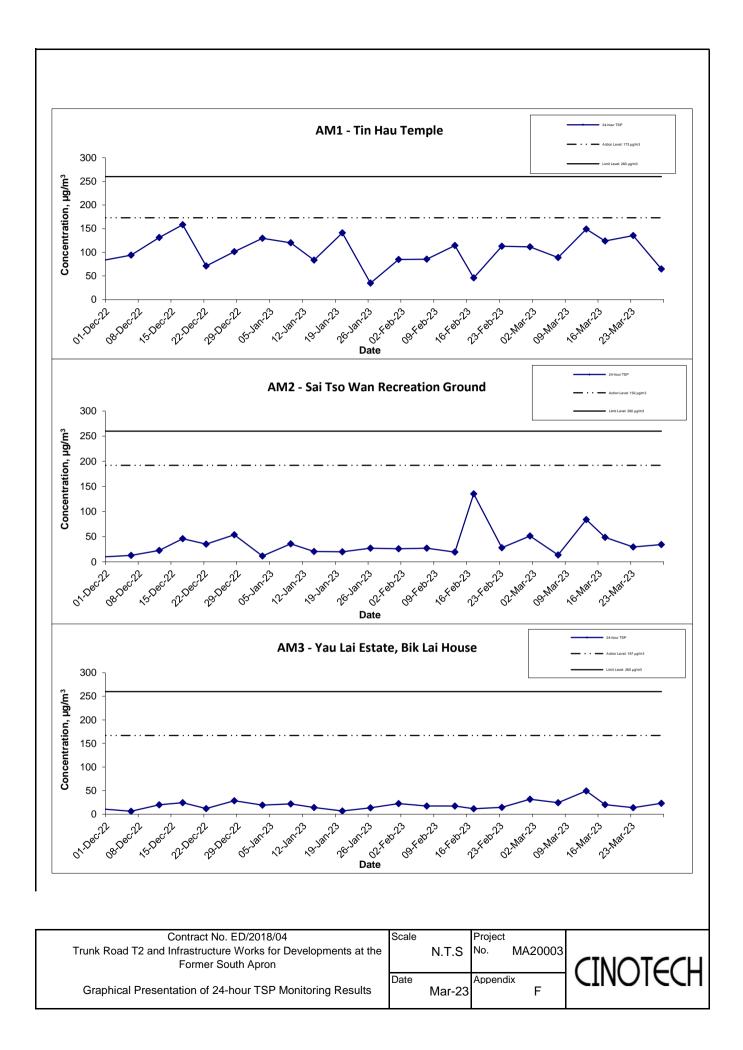
| Start Date | Weather | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Flow Rat | e (m³/min.) | Av. flow | Total vol. | Conc. |
|------------|-----------|----------|-----------|-------------|---------|---------|------------|----------|-------------|----------|-------------------|---------|
| Start Date | Condition | Initial | Final | Weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m³/min) | (m ³) | (µg/m³) |
| 1-Mar-23 | Sunny | 3.3090 | 3.3993 | 0.0903 | 32512.7 | 32536.7 | 24.0 | 1.22 | 1.22 | 1.22 | 1757.9 | 51.4 |
| 7-Mar-23 | Fine | 3.3082 | 3.3321 | 0.0239 | 32536.7 | 32560.7 | 24.0 | 1.22 | 1.22 | 1.22 | 1752.8 | 13.6 |
| 13-Mar-23 | Cloudy | 3.3357 | 3.4829 | 0.1472 | 32560.7 | 32584.7 | 24.0 | 1.22 | 1.22 | 1.22 | 1754.1 | 83.9 |
| 17-Mar-23 | Sunny | 3.3333 | 3.4180 | 0.0847 | 32584.7 | 32608.7 | 24.0 | 1.21 | 1.21 | 1.21 | 1746.1 | 48.5 |
| 23-Mar-23 | Cloudy | 3.3799 | 3.4310 | 0.0511 | 32608.7 | 32632.7 | 24.0 | 1.20 | 1.20 | 1.20 | 1731.8 | 29.5 |
| 29-Mar-23 | Cloudy | 3.3685 | 3.4283 | 0.0598 | 32632.7 | 32656.7 | 24.0 | 1.22 | 1.21 | 1.21 | 1749.2 | 34.2 |
| | | | | | | | | | | | Min | 13.6 |
| | | | | | | | | | | | Max | 83.9 |
| | | | | | | | | | | | Average | 43.5 |

Location AM3 - Yau Lai Estate, Bik Lai House

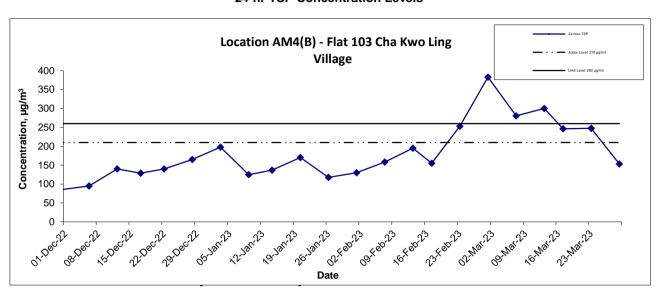
| Start Date | Weather | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Flow Rat | te (m³/min.) | Av. flow | Total vol. | Conc. |
|------------|-----------|----------|-----------|-------------|---------|--------|------------|----------|--------------|----------|-------------------|---------|
| Start Date | Condition | Initial | Final | Weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m³/min) | (m ³) | (µg/m³) |
| 1-Mar-23 | Sunny | 3.3383 | 3.3939 | 0.0556 | 6762.1 | 6786.1 | 24.0 | 1.22 | 1.22 | 1.22 | 1757.1 | 31.6 |
| 7-Mar-23 | Sunny | 3.3409 | 3.3838 | 0.0429 | 6786.1 | 6810.1 | 24.0 | 1.22 | 1.21 | 1.22 | 1751.9 | 24.5 |
| 13-Mar-23 | Sunny | 3.3412 | 3.4278 | 0.0866 | 6810.1 | 6834.1 | 24.0 | 1.22 | 1.22 | 1.22 | 1753.2 | 49.4 |
| 17-Mar-23 | Cloudy | 3.3155 | 3.3505 | 0.0350 | 6834.1 | 6858.1 | 24.0 | 1.21 | 1.21 | 1.21 | 1745.0 | 20.1 |
| 23-Mar-23 | Fine | 3.4186 | 3.4427 | 0.0241 | 6858.1 | 6882.1 | 24.0 | 1.20 | 1.20 | 1.20 | 1730.3 | 13.9 |
| 29-Mar-23 | Cloudy | 3.3708 | 3.4109 | 0.0401 | 6882.1 | 6906.1 | 24.0 | 1.22 | 1.21 | 1.21 | 1748.1 | 22.9 |
| - | | | | | | | | | | | Min | 13.9 |
| | | | | | | | | | | | Max | 49.4 |
| | | | | | | | | | | | Average | 27.1 |

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

| Start Date | Weather | Filter W | eight (g) | Particulate | Elaps | e Time | Sampling | Flow Rat | e (m³/min.) | Av. flow | Total vol. | Conc. |
|------------|-----------|----------|-----------|-------------|---------|---------|------------|----------|-------------|----------|------------|--------------|
| Start Date | Condition | Initial | Final | Weight (g) | Initial | Final | Time(hrs.) | Initial | Final | (m³/min) | (m³) | (µg/m³) |
| 1-Mar-23 | Sunny | 3.3729 | 4.0433 | 0.6704 | 17887.2 | 17911.2 | 24.0 | 1.21 | 1.22 | 1.22 | 1750.0 | 383.1 |
| 7-Mar-23 | Sunny | 3.3213 | 3.8117 | 0.4904 | 17935.2 | 17959.2 | 24.0 | 1.22 | 1.21 | 1.21 | 1748.0 | 280.6 |
| 13-Mar-23 | Cloudy | 3.2994 | 3.8242 | 0.5248 | 17983.2 | 18007.2 | 24.0 | 1.22 | 1.21 | 1.21 | 1749.1 | 300.0 |
| 17-Mar-23 | Fine | 3.3235 | 3.7530 | 0.4295 | 18031.2 | 18055.2 | 24.0 | 1.21 | 1.21 | 1.21 | 1742.4 | 246.5 |
| 23-Mar-23 | Sunny | 3.3569 | 3.7856 | 0.4287 | 18079.2 | 18103.2 | 24.0 | 1.20 | 1.20 | 1.20 | 1730.5 | 247.7 |
| 29-Mar-23 | Cloudy | 3.3758 | 3.6433 | 0.2675 | 18127.2 | 18151.2 | 24.0 | 1.21 | 1.21 | 1.21 | 1745.0 | 153.3 |
| , | • | • | | | | • | - | | | - | Min | 153.3 |
| | | | | | | | | | | | Max | 383.1 |
| | | | | | | | | | | | Average | <u>268.5</u> |



24-hr TSP Concentration Levels



Notes:

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

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

Scale
N.T.S

No. MA20003

Date
Mar-23

Appendix
F

APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix G - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

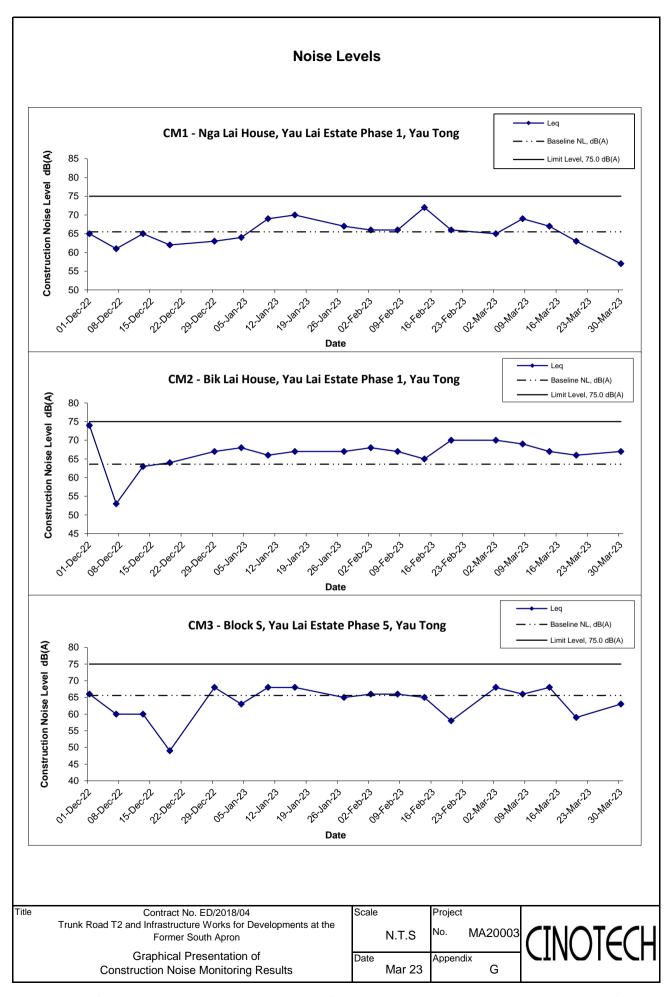
| | | | Unit: dB (A) (30-min) | | | | | | | |
|-------------|-------|------------|-----------------------|-----------------|------|-----------------|--------------------------|--|--|--|
| Date | Time | Weather | Measured Noise Level | | | Baseline Level | Construction Noise Level | | | |
| 24.0 | | 77 54.1.01 | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | |
| 2 Mar 2023 | 9:32 | Sunny | 68.4 | 70.4 | 64.6 | 65.5 | 65 | | | |
| 8 Mar 2023 | 11:31 | Fine | 70.3 | 71.6 | 68.7 | 65.5 | 69 | | | |
| 14 Mar 2023 | 15:39 | Sunny | 69.4 | 72.0 | 65.2 | 65.5 | 67 | | | |
| 20 Mar 2023 | 14:58 | Cloudy | 67.4 | 69.0 | 65.1 | 65.5 | 63 | | | |
| 30 Mar 2023 | 13:02 | Cloudy | 66.1 | 68.7 | 60.3 | 65.5 | 57 | | | |

| Location CM2 - | ocation CM2 - Bik Lai House, Yau Lai Estate Phase 1, Yau Tong | | | | | | | | | | |
|----------------|---|---------|-----------------------|-----------------|-------|----------------|--------------------------|--|--|--|--|
| | | | Unit: dB (A) (30-min) | | | | | | | | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level | | | | |
| Dute | Time | Wedner | L _{eq} | L _{eq} | | | | | | | |
| 2 Mar 2023 | 10:05 | Sunny | 70.9 | 74.2 | 67.0 | 63.6 | 70 | | | | |
| 8 Mar 2023 | 10:50 | Sunny | 70.0 | 71.2 | 68.4 | 63.6 | 69 | | | | |
| 14 Mar 2023 | 14:57 | Sunny | 68.6 | 70.9 | 65.0 | 63.6 | 67 | | | | |
| 20 Mar 2023 | 15:47 | Cloudy | 67.7 | 69.6 | 65.2 | 63.6 | 66 | | | | |
| 30 Mar 2023 | 11:31 | Cloudy | 68.6 | 70.1 | 63.7 | 63.6 | 67 | | | | |

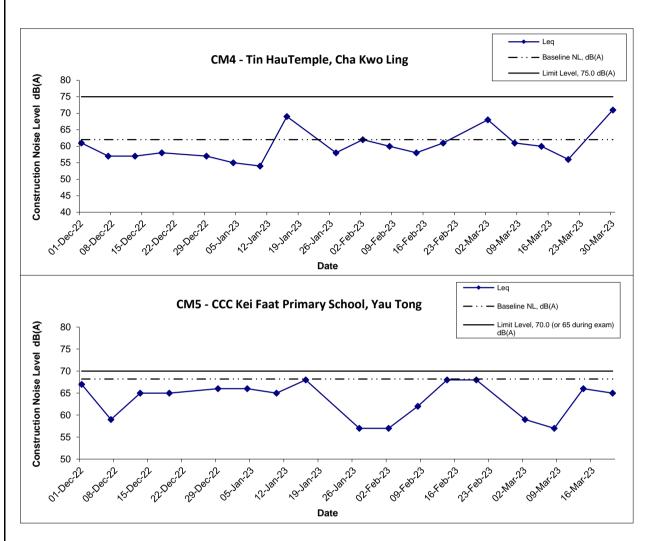
| Location CM3 - | Block S, Ya | au Lai Estate | Phase 5, Ya | u Tong | | | | | | | |
|----------------|-------------------|---------------|-----------------|-----------------------|-------|-----------------|--------------------------|--|--|--|--|
| | | | | Unit: dB (A) (30-min) | | | | | | | |
| Date | Time | Weather | Meas | sured Noise | Level | Baseline Level | Construction Noise Level | | | | |
| Date | Date Time Weather | | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | | |
| 2 Mar 2023 | 11:52 | Sunny | 70.2 | 72.0 | 68.2 | 65.6 | 68 | | | | |
| 8 Mar 2023 | 10:06 | Sunny | 68.6 | 70.1 | 66.6 | 65.6 | 66 | | | | |
| 14 Mar 2023 | 14:03 | Sunny | 69.9 | 72.6 | 58.3 | 65.6 | 68 | | | | |
| 20 Mar 2023 | 16:41 | Cloudy | 66.5 | 68.1 | 64.4 | 65.6 | 59 | | | | |
| 30 Mar 2023 | 10:53 | Cloudy | 63.1 | 65.9 | 54.5 | 65.6 | 63 Measured ≤ Baseline | | | | |

| Location CM4 - | ocation 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 | | | | |
| Bato | 11110 | Wodinor | L _{eq} | L ₁₀ | L 90 | L _{eq} | L _{eq} | | | | |
| 2 Mar 2023 | 11:40 | Sunny | 68.8 | 69.9 | 67.5 | 62.0 | 68 | | | | |
| 8 Mar 2023 | 15:02 | Sunny | 64.6 | 68.0 | 55.6 | 62.0 | 61 | | | | |
| 14 Mar 2023 | 16:25 | Sunny | 60.2 | 63.0 | 54.1 | 62.0 | 60 Measured ≤ Baseline | | | | |
| 20 Mar 2023 | 13:00 | Cloudy | 55.6 | 58.5 | 49.4 | 62.0 | 56 Measured ≤ Baseline | | | | |
| 30 Mar 2023 | 13:46 | Cloudy | 71.1 | 74.6 | 61.1 | 62.0 | 71 | | | | |

| Location CM5 - | Location CM5 - CCC Kei Faat Primary School, Yau Tong | | | | | | | | | | |
|----------------|--|---------|--|--|-------|-----------------|--------------------------|--|--|--|--|
| | Time | | Unit: dB (A) (30-min) | | | | | | | | |
| Date | | Weather | Meas | sured Noise I | _evel | Baseline Level | Construction Noise Level | | | | |
| Date | 11110 | Wodinor | L _{ea} | L eq L ₁₀ L ₉₀ L _{eq} | | L _{ea} | | | | | |
| 2 Mar 2023 | 14:45 | Sunny | 58.5 | 61.2 | 54.0 | 68.2 | 59 Measured ≦ Baseline | | | | |
| 8 Mar 2023 | 9:24 | Sunny | 68.5 | 70.7 | 64.7 | 68.2 | 57 | | | | |
| 14 Mar 2023 | 13:11 | Sunny | 70.3 | 74.6 | 60.6 | 68.2 | 66 | | | | |
| 20 Mar 2023 | 17:30 | Cloudy | 65.2 | 67.6 | 61.4 | 68.2 | 65 Measured ≤ Baseline | | | | |
| 30 Mar 2023 | 10:15 | Cloudy | 67.1 68.8 58.8 68.2 67 Measured ≤ Baseline | | | | | | | | |



Noise Levels



Notes:

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

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

Graphical Presentation of Construction Noise Monitoring Results

Scale Project
N.T.S No. MA20003

Date Mar 23

Appendix

G

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

| | Actu | al Quantities | of Inert C&D | Materials G | enerated Mo | nthly | Actual (| Quantities of | C&D Wastes | s Generated | Monthly |
|-----------|---|--|---------------------------------|--------------------------------------|-------------------------------------|--------------------------|-------------|--------------------------------------|-------------|----------------------|---|
| Month | a.Total Quantity Generated (a=c+d+e) | b. Hard Rock and Large Broken Concrete | c. Reused in the Contract | d. Reused in Other Projects | e. Disposed as Public Fill | f. Imported Fill | g. Metals | h. Paper / Cardboard Packaging | | j. Chemical Waste | k. Others, e.g. general refuse |
| | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000m ³) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000kg) | (in '000m ³) |
| January | 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 | 0.786 | 0.786 | 0.000 | 0.786 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.025 |
| April | | | | | | | | | | | |
| May | | | | | | | | | | | |
| June | | | | | | | | | | | |
| Sub-total | 3.453 | 3.453 | 0.000 | 3.453 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.055 |
| July | | | | | | | | | | | |
| August | | | | | | | | | | | |
| September | | | | | | | | | | | |
| October | | | | | | | | | | | |
| November | | | | | | | | | | | |
| December | | | | | | | | | | | |
| Total | 3.453 | 3.453 | 0.000 | 3.453 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.055 |

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

Contract No. ED/2018/04

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

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 230302 |
|----------------------------|-------------------------|
| Date | 2 March 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. | |
| 230302-R1 | C. Air Quality The NRMM label display on the machinery was damaged, the contractor should replace with the new one. | C21 |
| | D. Construction Noise Impact | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Waste/Chemical Management | |
| 230302-R2 | Oil leakage was observed on the floor near the entrance of tunnel. | E8 |
| | 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.:230223), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|-------------|-----------|--------------|
| Recorded by | Alex NG | M | 2 March 2023 |
| Checked by | Karina Chan | Zalle | 3 March 2023 |

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

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 230309 |
|----------------------------|-------------------------|
| Date | 9 March 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.:230302), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|-------------|-----------|---------------|
| Recorded by | Alex NG | M | 9 March 2023 |
| Checked by | Karina Chan | Zalle | 10 March 2023 |

Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 230316 |
|----------------------------|--------------------------|
| Date | 16 March 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.:230309), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|-------------|-----------|---------------|
| Recorded by | Alex NG | Mr | 16 March 2023 |
| Checked by | Karina Chan | Zalle | 17 March 2023 |

Weekly Site Inspection Record Summary

Inspection Information

| Checklist Reference Number | 230323 |
|----------------------------|--------------------------|
| Date | 23 March 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 | |
| 230323-R2 | Cement bag should be covered when not in used. | C9 |
| | D. Construction Noise Impact | |
| | No environmental deficiency was identified during site inspection. | |
| | E. Waste/Chemical Management | |
| 230323-R1 | • Drip tray should be provided for chemical container to prevent chemical leakage. | E9 |
| | F. Visual and Landscape | |
| | No environmental deficiency was identified during site inspection. | |
| | G. Permits/Licences | |
| | No environmental deficiency was identified during site inspection. | |
| | H. Marine Ecology | |
| | No environmental deficiency was identified during site inspection. | |
| | I. Others | |
| | • Follow up on the previous session (Ref No.:230316), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|-------------|-----------|---------------|
| Recorded by | Alex NG | Als | 23 March 2023 |
| Checked by | Karina Chan | Zelle | 24 March 2023 |

Weekly Site Inspection Record Summary Inspection Information

| Checklist Reference Number | 230330 |
|----------------------------|--------------------------|
| Date | 30 March 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.:230323), no major environmental deficiency was identified. | |

| | Name | Signature | Date |
|-------------|-------------|-----------|---------------|
| Recorded by | Alex NG | M | 30 March 2023 |
| Checked by | Karina Chan | Zalle | 31 March 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 | 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 | | | |
| \$3.8.7 | Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines. Open stockpiles shall be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading area of barging point, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Provision of not less than 2.4m high hoarding from ground level along site boundary where adjoins a road, streets or other accessible to the public except for a site entrance or exit. Imposition of speed controls for vehicles on site haul roads. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be 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 1/94). Good housekeeping and stormwater best management practices, as detailed in below, should be implemented to ensure that all construction runoff complies with WPCO standards and no unacceptable impact on the WSRs arises due to construction of the TKO-LT Tunnel. All discharges from the construction site should be controlled to comply with the standards for effluents discharged into the corresponding WCC under the TM-DSS. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO, TM-DSS |
| \$5.8.8 \$5.8.8 \$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 Al of POPEFCC 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 ² capacity, are recommended as a general mitigation measure which can be used for setting 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 numed. | 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 ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events, especially for areas located near steep slopes. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |

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| 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 adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| \$5.8.22 | All fuel tanks and storage areas should be provided with locks and be located on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank, to prevent spilled fuel oils from reaching the coastal waters. | Control potential impacts from construction site runoff and land-based construction | CEDD's Contractors | Work site | Construction Phase | ProPECC PN 1/94, EIAOTM, WPCO |
| 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 | ; minimize the water discharge, ge and construction Design Team, contractor works area 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 surrounding water. • The barge transporting the sediment shurry to 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 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 appropria | To ensure handling of sediments are in accordance to statutory requirements | Contractor | All works areas with sediments concern | Construction Phase | ETWB TC(W) No. 34/2002 & Dumping at Sea Ordinance |
| S8.6.26/ Waste Management Plan | Chemical Wastes. • If chemical wastes are produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately. Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc. The Contractor shall use a licensed collector to transport and dispose of the chemical wastes, to either the Chemical Waste Treatment Centre at Tsing Yi, or other licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. | To ensure proper management of chemical waste | Contractor | All works sites | Construction Phase | Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes Waste Disposal (Chemical Waste) (General) Regulation |

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| S8.6.27/ Waste Management Plan | General Refuse • General refuse should be stored in enclosed bins or compaction units separate from C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D material. Preferably an enclosed and covered area should be provided to reduce | 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) | | | | | |
| \$11.5.9 | A Safety Officer, trained in the use of gas detection equipment and landfill gas-related hazards, should be present on site throughout the groundworks phase. The Safety Officer should be provided with an intrinsically safe portable instrument, which is appropriately calibrated and able to measure the following gases in the ranges indicated below: | Protect the workers from landfill gas hazards | Contractor | Project sites within the Sai Tso Wan Landfill | Construction phase | EPD's Landfill Gas Hazard Assessment Guidance Note |
| | Methane 0-100% LEL and 0100% v/v Carbon dioxide 0-100% Oxygen 0-21% | | | Consultation Zone | | Guidance Note |

| EIA Ref. / EP Submission | Recommended Mitigation Measures | Objectives of the recommended Measures & Main Concerns to address | Who to implement the measures? | Location of the measures | When to Implement the measures? | What requirements or standards for the measures to achieve? |
|-----------------------------|--|--|--------------------------------|---|---------------------------------|--|
| \$11.5.10 \$11.5.25 | Safety Measures • For staff who work in, or have responsibility for "at risk" area, such as all excavation workers, supervisors and engineers working within the Consultation Zone, should receive appropriate training on working in areas susceptible to landfill gas, fire and explosion hazards. • An excavation procedure or code of practice to minimize landfill gas related risk should be devised and carried out. • No worker should be allowed to work alone at any time in or near to any excavation. At least one other worker should be available to assist with a rescue if needed. • Smoking, naked flames and all other sources of ignition should be prohibited within 15m of any excavation or ground-level confined space. "No smoking" and "No naked flame" notices should be posted prominently on the construction site and, if necessary, special areas should be designed for smoking. • Welding, flame-cutting or other hot works should be confined to open areas at least 15m from any trench or excavation. • Welding, flame-cutting or other hot works may only be carried out in trenches or confined spaces when controlled by a "permit to work" procedure, properly authorized by the Safety Officer (or, in the case of small developments, other appropriately qualified person). • The permit to work procedure should 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 vision 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 | | | | • |
| | The valid NRMM label should be displaced on the PME. | The NRMM label display on the machinery is unclear. | 23 Feb 2023 | √ |
| | The valid NRMM label should be displaced on the PME. | The NRMM label display on the machinery is unclear. | 2 Mar 2023 | √ |
| S3.8.7 | Cement bag should be covered with impervious sheet when not in used. | The cement bag is not covered when not in used. | 23 Mar 2023 | √ |
| Construction | Noise Impact | | | • |
| | | | | |
| Water Qualit | y Impact | | | |
| | | | | |
| Ecological In | npact | | | |
| | | | | |
| Fisheries Imp | pact | | | |
| | | | | |
| Waste Mana | gement | | | |
| \$8.6.3 | Regular maintenance and check the machinery to prevent leakage of oil. | Oil leakage was observed on the floor near the entrance of tunnel. | 23 Mar 2023 | ✓ |
| | Drip tray should be provided for the chemical / oil container to prevent leakage. | No drip tray is provided for the chemical / oil container. | 23 Mar 2023 | √ |
| Landscape ar | nd Visual Impact | | | |
| | | | | |
| Landfill Gas | Hazards | | | |
| | | | | |

APPENDIX L EVENT AND ACTION PLANS

Event and Action Plan for Air Quality (Dust)

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

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

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

keep IEC, EPD and ER informed

If exceedance stops, cease additional monitoring.

of the results;

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

Event and Action Plan for Construction Noise

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

Limit Levels and Action Plan for Landfill Gas

| Parameter | Limit Level | Action | |
|-----------|------------------------------------|---|--|
| | <19% | • Ventilate to restore oxygen to >19% | |
| Owwan | | • Stop works | |
| Oxygen | <18% | Evacuate personnel/prohibit entry | |
| | | • Increase ventilation to restore oxygen to >19% | |
| | >100/ I EL (i a > 0.50/ by voluma) | 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: March 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 |

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

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

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

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

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

| Log Ref. | Location | Received Date | Details of Complaint/warning/summon and prosecution | Nature | Investigation/Mitigation Action | Status |
|-------------------|---------------|------------------|---|--------|---|--------|
| | | | | | continue to strictly follow the requirements in the relevant CNP. • According to the condition 3.d point 5 of the CNP (GW-RE0399-21), the immediate remedial action shall be implemented in case adverse groundborne 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. | The construction activities of Trunk Road T2 conducted inside the tunnel area and the construction activities of TKO-LT Tunnel conducted inside the tunnel section at Kwun Tong Side are considered as one of the potential noise source of the ground borne noise nuisance. A valid CNP was hold and the construction activities being taken were complied with the relevant | Classed | |
| #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 | CNP. Blast door was fully enclosed when construction activities were carried out within tunnel area to prevent, reduce or minimize the emission of airborne noise In addition, the Contractor should still maintain good site practices, such as schedule noisy work to the less sensitive hours and provide | Closed |

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

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

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: March 2023

(A) Exceedance Report for Air Quality

Two (2) Action and Three (3) Limit Level exceedance of 24hr TSP monitoring was recorded in this

reporting month.

| Monitoring Station | Start Date | Conc. (µg/m³) | Level exceeded |
|---------------------------|------------|---------------|----------------|
| AM4(B) | 1-Mar-23 | <u>383.1</u> | Limit Level |
| AM4(B) | 7-Mar-23 | <u>280.6</u> | Limit Level |
| AM4(B) | 13-Mar-23 | <u>300.0</u> | Limit Level |
| AM4(B) | 17-Mar-23 | 246.5 | Action Level |
| AM4(B) | 23-Mar-23 | 247.7 | 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).

- Notification of Exceedances

NOE No. 230301_24hrTSP (AM4(B)) Exceedance Level: Limit

Date of Air Quality Monitoring: 1 March 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 | <u>383.1</u> | 183.0 | 260.0 | Limit |

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 1 March 2023 exceeded the limit level.

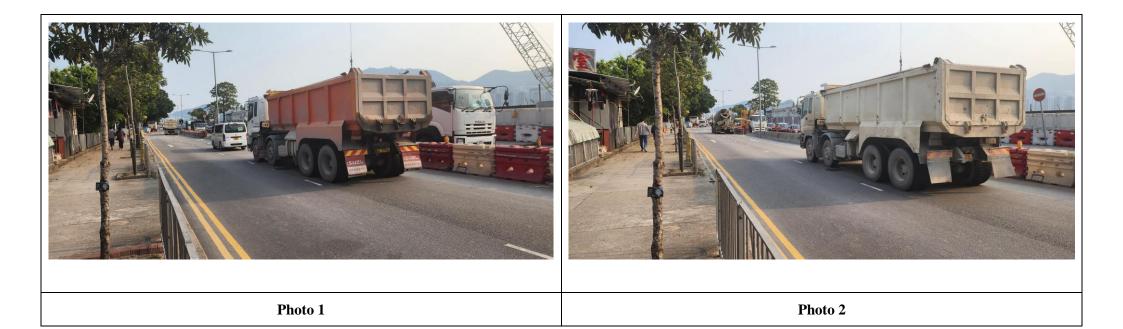
(b) Cause of exceedance(s)

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. No major project related construction activities was observed during monitoring at AM4(B).

MA20003\NOE 1 CINOTECH

- Notification of Exceedances



- Notification of Exceedances

Part C - Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 1 March 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-458/2013C, 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 8 March 2023, an action 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 (8 Mar 2023) – 0900 (9 Mar 2023) | Sunny | 253.6 | 173.0 | 260.0 | Action |

- Notification of Exceedances

NOE No. 230307_24hrTSP (AM4(B)) Exceedance Level: Limit

Date of Air Quality Monitoring: 7 March 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 | <u>280.6</u> | 183.0 | 260.0 | Limit |

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 7 March 2023 exceeded the limit level.

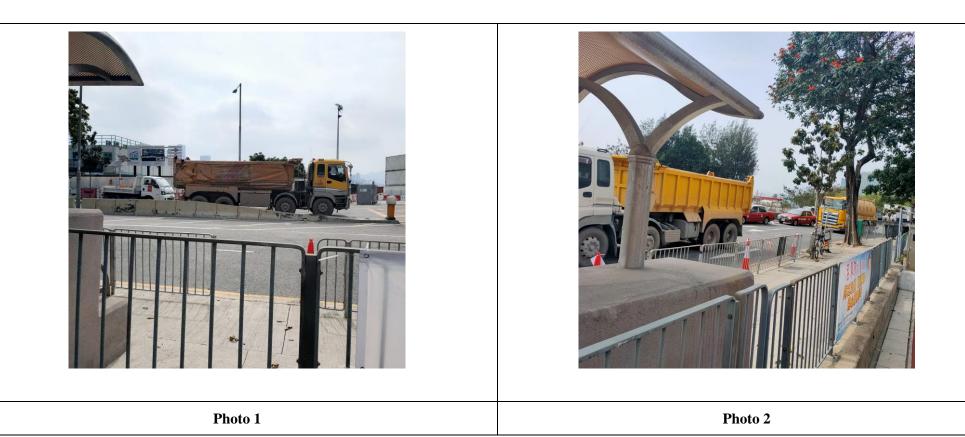
(b) Cause of exceedance(s)

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, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (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

- Notification of Exceedances



- Notification of Exceedances

Part C - Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 7 March 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-458/2013C, 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 14 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

| | Station | Location | Time | Weather Condition | Conc. (µg/m ³) | Action Level (µg/m³) | Limit Level (µg/m³) | Level exceeded |
|---|---------|-------------------------------|--|-------------------|----------------------------|----------------------|---------------------|----------------|
| - | AM4(B) | Flat 103 Cha Kwo Ling Village | 0900 (14 Mar 2023) – 0900 (15 Mar 2023) | Sunny | 242.7 | 173.0 | 260.0 | Action |

- Notification of Exceedances

NOE No. 230313_24hrTSP (AM4(B)) Exceedance Level: Limit

Date of Air Quality Monitoring: 13 March 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 | <u>300.0</u> | 183.0 | 260.0 | Limit |

Note: **Bold Italic** me

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 13 March 2023 exceeded the limit 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, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (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

- Notification of Exceedances



- Notification of Exceedances

Part C - Conclusion

Based on the finding(s) and observation(s) above, we deduce the Limit Level exceedance of 24-hour TSP recorded at station AM4(B) on 13 March 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-458/2013C, 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 16 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

| Station | Location | Time | Weather Condition | Conc. (µg/m ³) | Action Level (µg/m³) | Limit Level (µg/m³) | Level exceeded |
|---------|-------------------------------|--|-------------------|----------------------------|----------------------|---------------------|----------------|
| AM4(B) | Flat 103 Cha Kwo Ling Village | 0900 (16 Mar 2023) – 0900 (17 Mar 2023) | Sunny | 255.3 | 173.0 | 260.0 | Action |

- Notification of Exceedances

NOE No. 230317_24hrTSP (AM4(B)) Exceedance Level: Action

Date of Air Quality Monitoring: 17 March 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 | 246.5 | 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 17 March 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, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (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

- <u>Notification of Exceedances</u>





Photo 1 Photo 2

- 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 17 March 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-458/2013C, 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 24 March 2023, an action level exceedance was recorded. The monitoring results is tabulated as below:

| Station | Location | Time | Weather Condition | Conc. (µg/m ³) | Action Level (µg/m³) | Limit Level (µg/m³) | Level exceeded |
|---------|-------------------------------|--|-------------------|----------------------------|----------------------|---------------------|----------------|
| AM4(B) | Flat 103 Cha Kwo Ling Village | 0900 (24 Mar 2023) – 0900 (25 Mar 2023) | Sunny | 244.8 | 173.0 | 260.0 | Action |

- Notification of Exceedances

NOE No. 230323_24hrTSP (AM4(B)) Exceedance Level: Action

Date of Air Quality Monitoring: 23 March 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 | 247.7 | 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 March 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, especially the completion of TKOLTT, a numerous of dump trucks from other construction site transport their C&D material through Cha Kwo Ling Road to TKO Area 137 via TKOLTT (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

- <u>Notification of Exceedances</u>





Photo 1 Photo 2

- 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 March 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-458/2013C, 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 31 March 2023, no action / limit level exceedance was recorded. The monitoring results is tabulated as below:

| Station | Location | Time | Weather Condition | Conc. (µg/m ³) | Action Level (µg/m³) | Limit Level (µg/m³) | Level exceeded |
|---------|-------------------------------|---|-------------------|----------------------------|----------------------|---------------------|----------------|
| AM4(B) | Flat 103 Cha Kwo Ling Village | 0900 (31 Mar 2023) – 0900 (1 Apr 2023) | Sunny | 123.2 | 173.0 | 260.0 | N/A |

APPENDIX O TENTATIVE CONSTRUCTION PROGRAMME

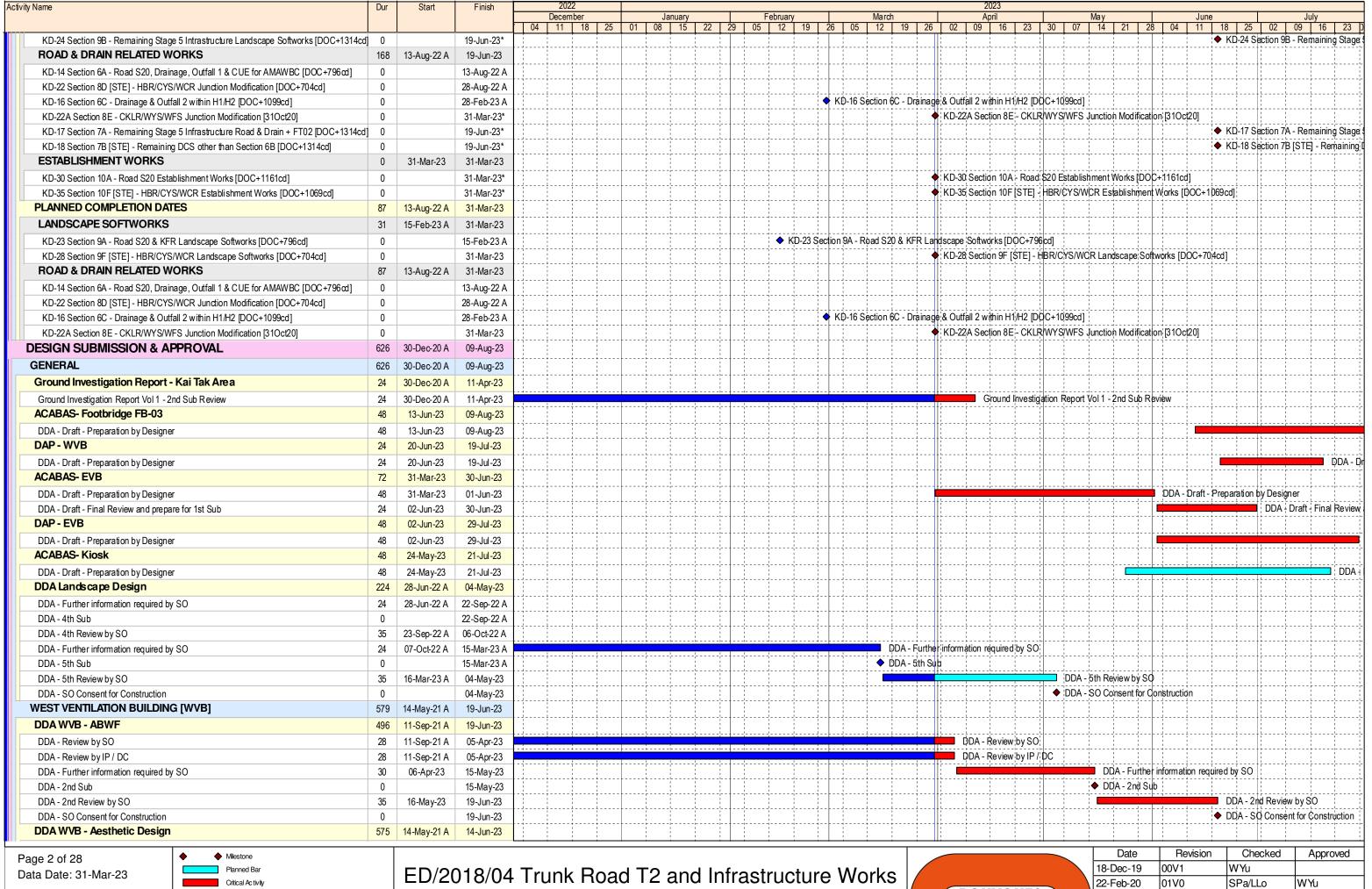
| ity Name | Dur Start | Finish | | 2022 | | | | | Maril | 2023 | | | 4 | | I | | Lik |
|--|------------------|-------------|--------------|-----------------------|-----------------|----------|-------------------------|---------------------|-------------------|---------------------|----------------|----------------|-------------------------|------------------|-----------------------------|-----------------|-----------------------------|
| | | | 04 | December 11 18 25 | Januar 01 08 15 | | Februar 29 05 12 | 19 26 05 | March 12 19 2 | April 26 02 09 | | 30 07 | May 14 21 28 | | June 11 18 2 | | July 09 16 2 |
| ED/2018/04 - Trunk Road T2 Mar-23 | 1120 30-Dec-20 / | 09-Apr-25 | | | | | | | | | | | | | | | |
| COMMENCEMENT & SITE POSSESSION DATE | 153 03-Oct-22 A | 31-Mar-23 | | | | | | | | | | | | | | | |
| SITE POSSESSION DATE | 153 03-Oct-22 A | | | | | | | | | | | | | | · | | · |
| | | | | | | | | | | | | | | | | | |
| SOUTH APRON WEST AREA | 153 03-Oct-22 A | | ļ.ii. | | . | | | | | | | | | | | | |
| Portion H2 Possession 01 January 2022 or as directed by SO | 0 | 03-Oct-22 A | y SO | | . | | | | | | | | | | | | |
| Portion K Possession 31 March 2023 or as directed by SO | 0 | 31-Mar-23* | | | | | | ļ | | Portion K Poss | session 31 Ma | irch 2023 or a | s directed by SC | <u> </u> | | | |
| CHA KWO LING AREA | 31 10-Feb-23 / | 31-Mar-23 | | | | | | | | | | | | | | | |
| Portion V Possession 30 November 2021 or as directed by SO | 0 | 10-Feb-23 A | 1.11. | | | | Portio | V Possession 30 | November 2021 or | r as directed by SO | | | | | | | |
| Portion S Possession 30 November 2021 or as directed by SO | 0 | 31-Mar-23* | 1.11. | | | | l <u></u> | <u> </u> | | Portion S Poss | | | | | | | |
| Portion T2 & T3 Possession 31 March 2020 or as directed by SO | 0 | 31-Mar-23 | | | | | | | | Portion T2 & T3 | 3 Possession | 31 March 20 | 20 or as directed | by SO | | | |
| Portion U Possession 30 November 2021 or as directed by SO | 0 | 31-Mar-23* | 1.ii. | | | | | <u> </u> | | Portion U Poss | ession 30 No | vember 2021 | or as directed by | SO | ii | lii | |
| Portion AB Possession 01 June 2022 or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion AB Pos | ssession 01 Ju | une 2022 or a | s directed by SO | | | | |
| CONTRACT KEY DATE & SITE HANDOVER DATE | 134 13-Aug-22 / | 19-Jun-23 | | | | | | | | | | | | | | | |
| SITE HANDOVER DATE | 134 27-Jan-23 A | 19-Jun-23 | | | | | | | | | | | | | | - | |
| SOUTH APRON WEST AREA | 134 27-Jan-23 A | 19-Jun-23 | | | | | | | | | | | | | | | |
| Portion A1 Handover 01 June 2022 or as directed by SO | 0 | 27-Jan-23 A | 1 | | | ◆ Pr | rtion A1 Handove | r 01 June 2022 or a | as directed by SO | | | | | | | | |
| Portion C2 Handover DOC + 796 Cd or as directed by SO | 0 | 31-Mar-23* | 1 | | | | | 37.5 | | Portion C2 Han | ndover DOC + | 796 Cd or a | directed by SO | | | | |
| Portion D1 Handover DOC + 796 Cd or as directed by SO | 0 | 31-Mar-23* | 1 | | | | | | | Portion D1 Han | | | | | | | |
| Portion D3 Handover DOC + 796 Cd or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion D3 Han | | | | | | | |
| Portion F3 Handover DOC + 790 Cd or as directed by SO | 0 | 31-Mar-23* | | | | | | | · | Portion F3 Han | j j- | | | | · | | |
| · | 0 | | | | | | | | | | - | !!- | ! | | | | |
| Portion F4 Handover 01 June 2022 or as directed by SO | 0 | 31-Mar-23* | - | | | | | ii | | Portion F4 Han | - | | | | | | |
| Portion H2 Handover DOC + 1099 Cd or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion H2 Han | - - | | : | | | | |
| Portion I Handover 30 November 2022 or as directed by SO | 0 | 31-Mar-23 | | | | | | ļ <u></u> ļ | | Portion I Hando | | | | J | | | |
| Portion J1 Handover 03 June 2022 or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion J1 Han | ; ;- - | | | | | | |
| Portion J2 Handover 03 June 2022 or as directed by SO | 0 | 31-Mar-23* | . | | . | | | | | Portion J2 Han | - - | !!- | | | | | |
| Portion H1 Handover (subject to coordination) | 0 | 31-Mar-23 | 1.11. | | | | | | | Portion H1 Han | | | | | | | |
| Portion C1 Handover 31 March 2023 or as directed by SO | 0 | 31-Mar-23* | 1 | | | | | | | Portion C1 Har | : :- :- :- | | | | | | |
| Portion C3 Handover 31 March 2023 or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion C3 Har | | | | | | | |
| Portion C4 Handover 31 March 2023 or as directed by SO | 0 | 31-Mar-23* | 1 | | | | | | | Portion C4 Har | ndover 31 Ma | rch 2023 or a | s directed by SO | | | | |
| Portion F1 Handover DOC + 1314 Cd or as directed by SO | 0 | 19-Jun-23* | | i i I I | | | | ļ <u>j.</u> ļj | | | | | | | | n F1 Handovei | L L |
| Portion F2 Handover DOC + 1314 Cd or as directed by SO | 0 | 19-Jun-23* | 1 | | | | | | | | | | | | ◆ Portio | n F2 Handovei | er DOC + 1/3 |
| Portion G Handover DOC + 1314 Cd or as directed by SO | 0 | 19-Jun-23* | <u> </u> | i i | | | | | | | | <u> </u> | | | Portio | n & Handover | r DOC + 131 |
| SOUTH APRON EAST AREA | 0 31-Mar-23 | 31-Mar-23 | | | | | | | | | | | | | | | |
| Portion W Handover DOC + 704 Cd or as directed by SO | 0 | 31-Mar-23* | | | | | | | | Portion W Hand | dover DOC + | 704 Cd or as | directed by SO | | | | |
| KEY DATE - TRUNK ROAD T2 | 52 31-Mar-23 | 07-Jun-23 | | | | | | | | | | | | | | | |
| CONTRACT COMPLETION DATES | 52 31-Mar-23 | 07-Jun-23 | | | | | | | | | | | | | | | |
| KD-2 Stage 1B - Depressed Road & South Apron Adit for J1/J2 H/O [DOC+1072cd] | 0 | 31-Mar-23* | | | | | | | | ♦ KD-2 Stage 1B | R - Depressed | Road & Sout | Apron Adit for | 1/¦12 H/O¦TD | OC+1072ml | | |
| KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707cd] | 0 | 31-Mar-23* | | | | | | | | ♦ KD-4 Stage 2B | | | | | | | |
| KD-5 Stage 3A - Design Approval for Stage 3B [DOC+1212cd] | 0 | 31-Mar-23* | | | | | | | | ◆ KD-5 Stage 3A | | | | | 707 Gaj | | |
| | 0 | 31-Mar-23* | | | | | | | | ◆ KD-7 Stage 4A | i i-l - | | | -454 | | | |
| KD-7 Stage 4A - Design Approval for Stage 4B [DOC+1212cd] | 0 | | | | | | | | | | : | | | | | | |
| KD-6 Stage 3B1 - Civil provision between AGR to SUS Tunnel for TCSS | 0 | 31-Mar-23* | | | | | | | | ♦ KD-6 Stage 3B | | | | | 4 4 | OC 1252-7 | - |
| KD-9 Stage 5 - South Apron Adit between WVB & DPR for I H/O [DOC+1252cd] | U | 18-Apr-23* | | | | | | | | | | e o - South A | pron Adit betwee | | | | i i |
| KD-6 Stage 3B2 - Civil provision between LSCC to CKL Tunnel for TCSS | 0 | 07-Jun-23* | | | | | | | | | | | | → KD- | -6 Stage 3B2 - | CIVII provision | n petween¦L |
| PLANNED COMPLETION DATES | 0 31-Mar-23 | 1 1 1 | | | . | | | | | | | | | | | | |
| KD-1 Stage 1A - Design Approval for Stage 1B [DOC+464cd] | 0 | 31-Mar-23* | 1.1 | | | | | ii | | ♦ KD-1 Stage 1A | | | | | | | |
| KD-3 Stage 2A - Design Approval for Stage 2B [DOC+405αd] | 0 | 31-Mar-23* | 1 | | | | | | | ◆ KD-3 Stage 2A | | | | | | | |
| KD-4 Stage 2B - AGR, DPR, SAS, C&C & LS for TBM Access [DOC+707cd] | 0 | 31-Mar-23 | 1 | | . | | | <u> </u> | | ◆ KD-4 Stage 2B | B - AGR, DPR, | SAS, C&C 8 | LS for TBM Acc | ess [DOC+7 | 707cd] | | |
| KEY DATE - STAGE 5 INFRASTRUCTURE WORKS & JUNCTION IMPRO | 168 13-Aug-22 / | 19-Jun-23 | | | | | | | | | | | | | | | |
| CONTRACT COMPLETION DATES | 168 13-Aug-22 / | 19-Jun-23 | | | | | | | | | | | | 1 1 | | | |
| LANDSCAPE SOFTWORKS | 124 15-Feb-23 / | | 1-: | | | | | : <u>:</u> | | | | | | | | | |
| KD-23 Section 9A - Road S20 & KFR Landscape Softworks [DOC+796cd] | 0 | 15-Feb-23 A | 1 | | | | • | D-23 Section 9A - | Road S20 & KFR | Landscape Softworl | ks [DOC+796 | cdl | | | | | |
| KD-28 Section 9F [STE] - HBR/CYS/WCR Landscape Softworks [DOC+704cd] | 0 | 31-Mar-23* | 1-:: | | | | | | 7 | ◆ KD-28 Section | | | R Landscape Soft | works IDOO | C+70/4cd1 | | |
| 20 300001 01 [012] TIBITOTOTTOTT Editaboup Outtrollo [DOOTTOTOU] | | 51 WIGH-20 | <u> </u> | i i | <u> </u> | <u> </u> | <u> i i</u> | <u> </u> | <u> </u> | 11 |] | | | _{[5} 00 | | <u> </u> | |



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

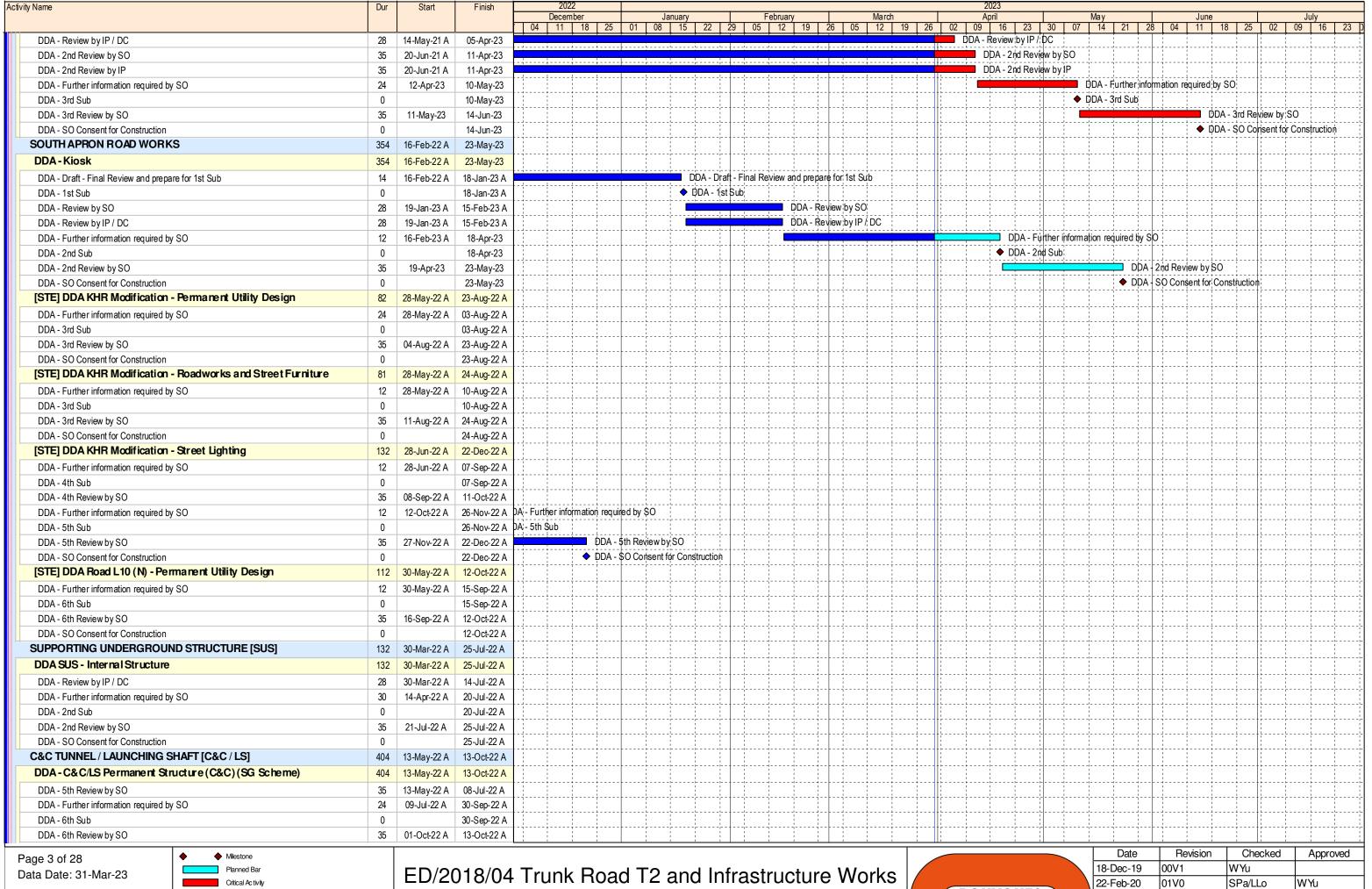


| | Date | Revision | Checked | Approved |
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| | 18-Dec-19 | 00V1 | WYu | |
| 1 | 22-Feb-20 | 01V0 | SPa/LLo | WYu |
| | 09-Apr-20 | 01V1 | SPa/LLo | WYu |
| / | 17-Jul-20 | 01V2 | SPa/LLo | WYu |
| | 09-Oct-20 | 01V3 | SPa/LLo | WYu |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu |
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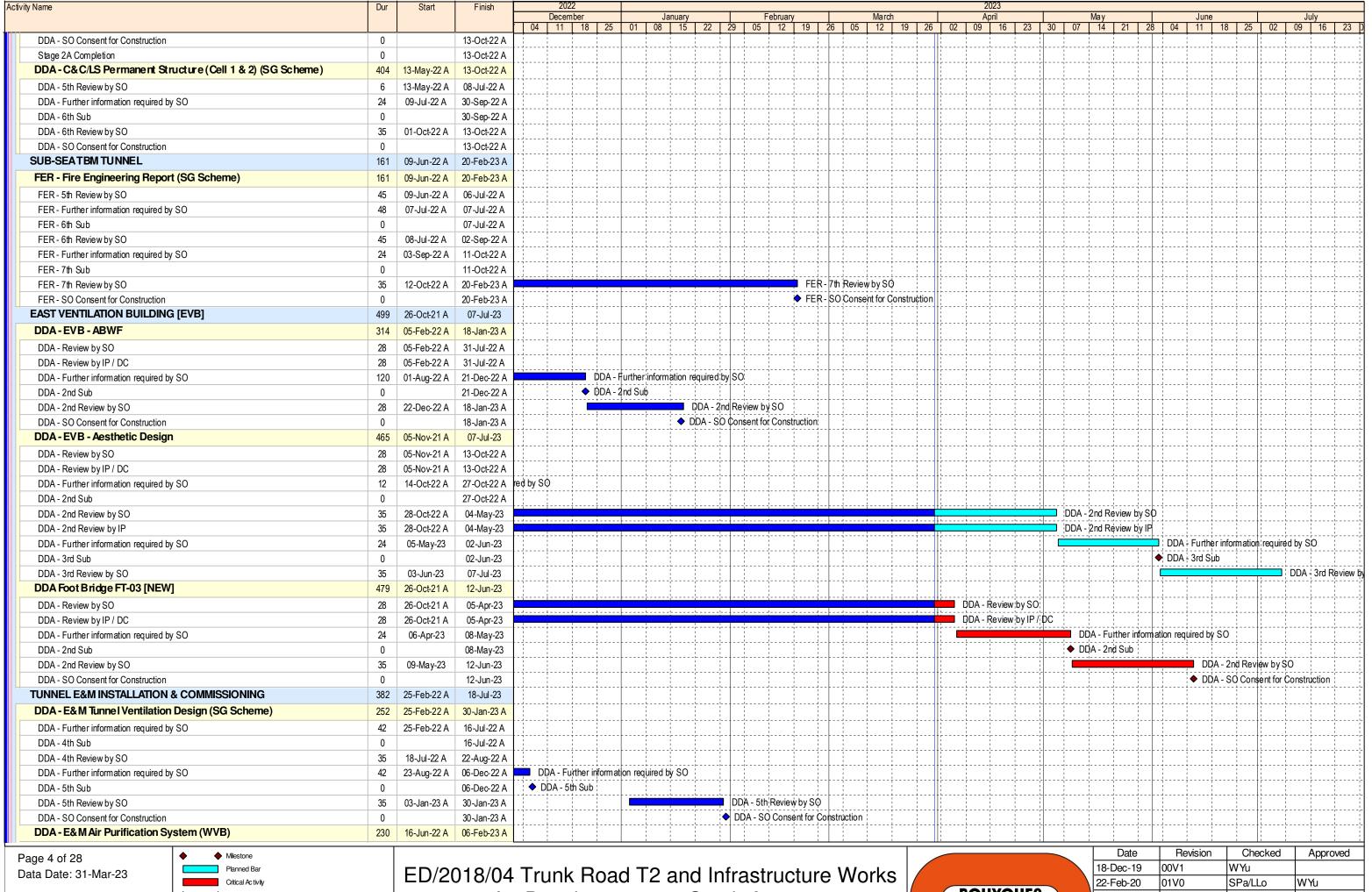
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| | 22-Feb-20 | 01V0 | SPa/LLo | WYu |
| | 09-Apr-20 | 01V1 | SPa/LLo | WYu |
| | 17-Jul-20 | 01V2 | SPa/LLo | WYu |
| / | 09-Oct-20 | 01V3 | SPa/LLo | WYu |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu |
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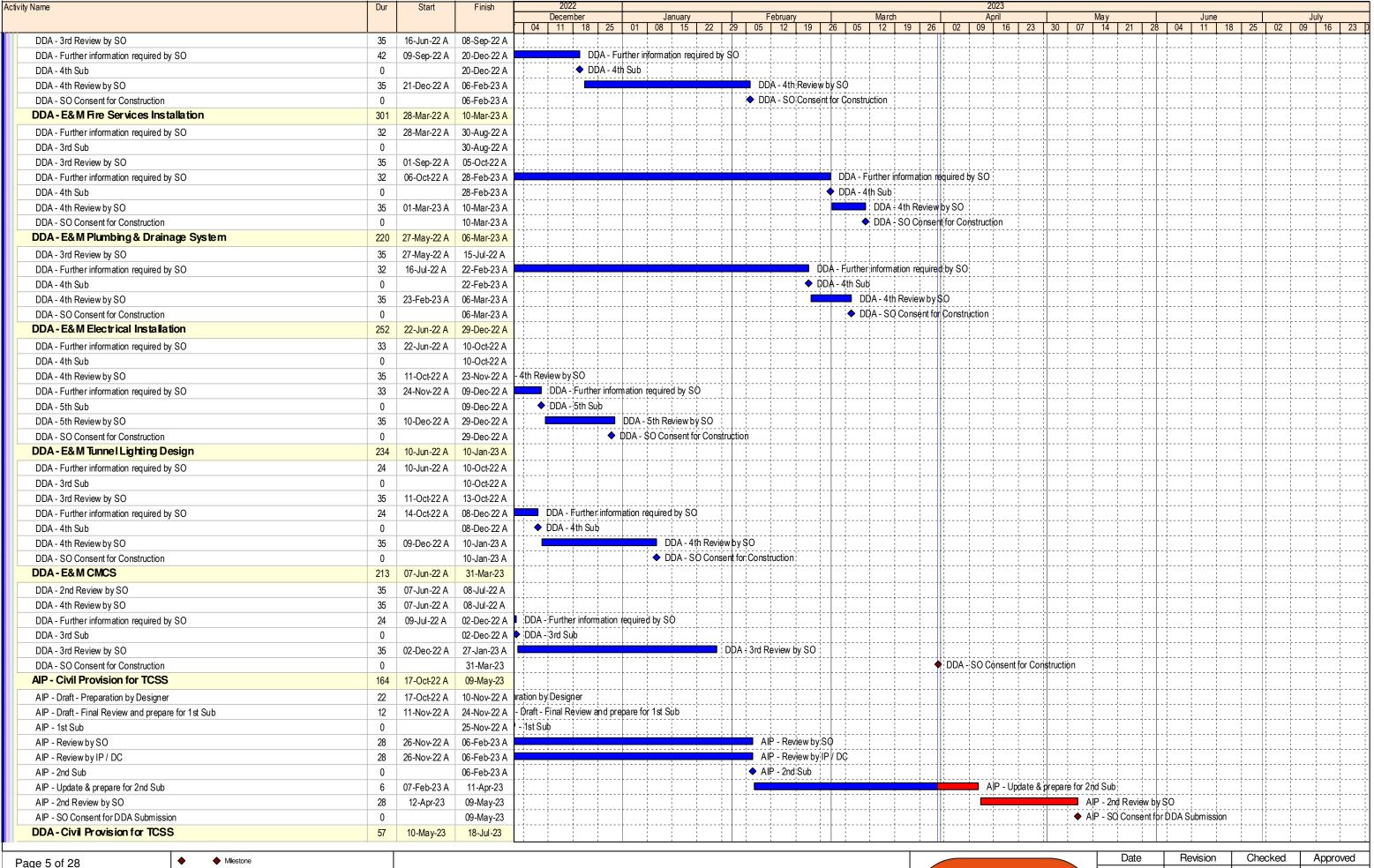
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| 17-Jul-20 | 01V2 | SPa/LLo | WYu |
| 09-Oct-20 | 01V3 | SPa/LLo | WYu |
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| 18-Dec-19 | 00V1 | WYu | |
| 22-Feb-20 | 01V0 | SPa/LLo | WYu |
| 09-Apr-20 | 01V1 | SPa/LLo | WYu |
| 17-Jul-20 | 01V2 | SPa/LLo | WYu |
| 09-Oct-20 | 01V3 | SPa/LLo | WYu |
| 02-Jul-21 | 02V0 | SPa/LLo | WYu |
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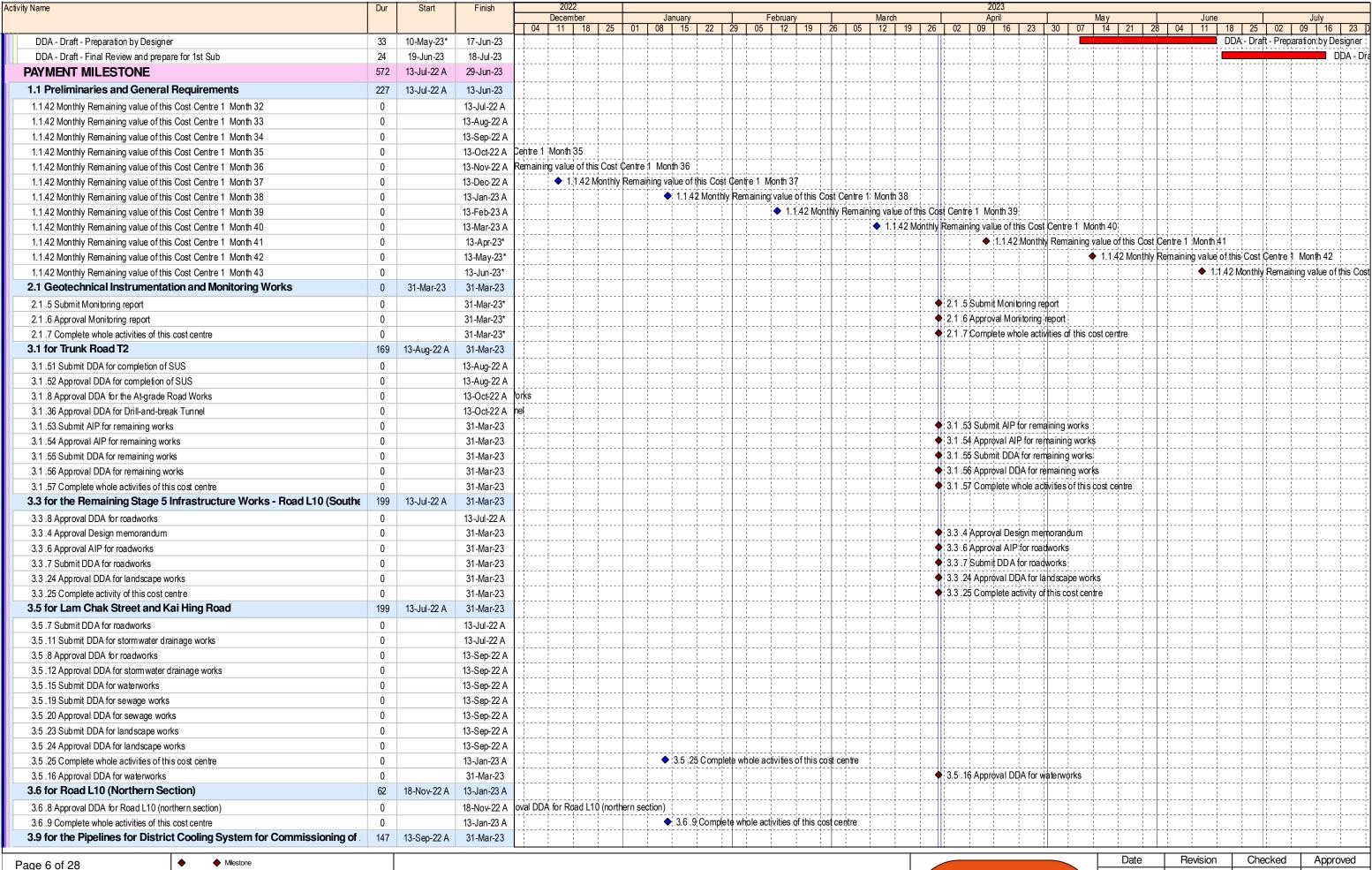
Data Date: 31-Mar-23



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| | Date | Revision | Checked | Approved |
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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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| | Date | Revision | Checked | Approved |
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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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| ame | Dui | Start | Finish | | 2022 December | January | Fe | bruarv | | Ma | rch | | | 2023 April | | M | lav | $\overline{}$ | June | | _ | Julv | , |
|--|-----|-------------|-------------|------------|--|--|----------------------|-------------|----------|---|------------|-------------------------------|------------|---------------|-----------------|--------------|--------------|---------------------------|-------------|-----------------|----------------|------------|---------|
| | | | - | 04 | 11 18 25 | | 2 29 05 | 12 19 | 26 | 05 12 | | 26 | | 16 | 23 30 | | 14 21 | 28 04 | | 18 25 | 02 0 | 09 1 | |
| 9.11 Submit O&M manual for DCS pipelines | 0 | | 13-Sep-22 A | | i i i | | | | | ii | i | | | | <u> </u> | | | | | | . Ji | | |
| 9.12 Approval O&M manual for DCS pipelines | 0 | | 31-Mar-23 | 1 | | | | | | | 1 | • | 3.9.12 App | roval O& | M manual fo | or DCS pipe | elines | | | | | | |
| 9.13 Complete whole activities of this cost centre | 0 | | 31-Mar-23 | 3 | | | | | |] | | | 3.9.13 Con | nplete wh | ole activitie | s of this co | st centre | | | | | | |
| 10 Remaining Pipelines for District Cooling System Other Than for C | 0 | 31-Mar-23 | 31-Mar-23 | - | | | | | |] | | | | | | | | | | | | | |
| .10.11 Submit O&M manual for remaining DCS pipelines | 0 | | 31-Mar-23 | | | | | | | | | • | 3.10.11 Su | ıbmit 0&1 | M manual fo | or remaining | DCS pipeli | nes | | | 1 | | |
| .10.12 Approval O&M manual for remaining DCS pipelines | 0 | | 31-Mar-23 | | | | | | | | | • • | 3.10.12 Ap | proval O | &M mahual | for remaini | ng DCS pipe | elines : | | | | | |
| .10.13 Complete whole activities of this cost centre | 0 | | 31-Mar-23 | | | | | | | | | +- | | | vhole activiti | | | | | | 1 | | |
| 14 for Common Utilities Enclosure (CUE) under Section 13 and Ancill | 0 | 13-Jan-23 A | 13-Jan-23 A | | | | | | | | | ‡ | | | | | | | | | | | |
| .14.8 Approval DDA for CUE | 0 | | 13-Jan-23 A | | | ◆ 3.14.8 A | proval DDA for Cl | JE | | | | | | | | | | | | <u>i</u> | | | |
| 1 South Apron Adits from Interface with the Depressed Road to the Ir | 77 | 13-Mar-23 A | 19-Jun-23 | | | | | | | ii | | ; | | | ;; - | | | | | | 1:: | | |
| 1.3 Complete excavation of South Apron Adist 0.2 | 0 | | 13-Mar-23 A | | | | | | | . 4 | 1:3 Com | nlete ex | cavation o | f South A | Apron Adist (| ¦¦ | | | | | 1: | | |
| 1.1 Complete excavation of excavation equipment 0.5 | 0 | | 13-Mar-23 A | | <u> </u> | | | | | J | | I 4 L | | | ation equipr | | | | | - | + | | |
| 1.4 Complete incomination of South Apron Adist 0.4 | 0 | | 13-Mar-23 A | | | | | | | 4 | + | ++ | | | Apron Adist | | | | | | | | |
| 1.5 Complete excavation of South Apron Adist 0.6 | 0 | | 13-Mar-23 A | | | | | | | | | 41444 | | ' | Apron Adist | | | , | | | | | |
| 1.8 Complete South Apron Adist permanent structure 0.2 | 0 | | 05-May-23 | | | | | | | | 1. (.5 001 | inplote | | | la | | mplete Sou | th Apron A | dist narmar | nent struct | Ura 0 2 | | |
| | 0 | | | | | | | | | ii | | | | | <u> </u> | | Complete | ; : | + | | - | | |
| 1.6 Complete excavation of South Apron Adist 0.8 | _ | | 09-May-23 | | | | | | | | | } | | | } | | 7 Complete | 1 | | | - 4 | | |
| 1.7 Complete excavation of South Apron Adist 1 | 0 | | 10-May-23 | | iiii | ļ <u>ķ</u> <u>ķ</u> | | | | | | | | | <u> </u> | 4.1 | | | | | - + | uoturi C | O 4 |
| 1.9 Complete South Apron Adist permanent structure 0.4 | 0 | | 19-May-23 | | | | | | | | | } } | | | } | | | | | | manent stru | | J.4 |
| .1.13 Complete backfill at South Apron Adist 0.2 | 0 | | 25-May-23 | | <u> </u> | | | | | ļļ | | : | | | | | | 1 | | | h Apron Adis | | |
| 1.10 Complete South Apron Adist permanent structure 0.6 | 0 | | 03-Jun-23 | | | | | | | ļ <u></u> | | . | | | <u> </u> | | | i | | | Apron Adist | | |
| .1.14 Complete backfill at South Apron Adist 0.4 | 0 | | 07-Jun-23 | | | | | | | | | ; ; ; | | | ļ | | | , | | ' | ckfill at Sout | | |
| 1.11 Complete South Apron Adist permanent structure 0.8 | 0 | | 17-Jun-23 | | | | | | | ļ | | : | | | ļļ | | | | | | mplete Sout | | |
| 1.15 Complete backfill at South Apron Adist 0.6 | 0 | | 19-Jun-23 | | | ļ | | | | ļ | | ; ; ; | | | ļļ | | | , | | 4.1.15 (| Complete ba | ackfill at | ıt S |
| 2 Depressed Road and Remaining Ventilation Adits at the South Apro | 0 | 31-Mar-23 | 31-Mar-23 | 1 | | | | | | 1 | | | | | | | | | | | | | |
| .2 .23 Complete foundation of Depressed Road by length 1 | 0 | | 31-Mar-23* | | | | | | | <u> </u> | | • | 4.2 .23 Co | mplete fo | undation of | Depressed | Road by le | ngth 1 | | | | | |
| .2 .31 Complete permanent structure of Depressed Road by length 1 | 0 | | 31-Mar-23* | - | | | | - | | | | • | 4.2 .31 Co | mplete pe | ermanent sti | ructure of D | epressed R | oad by ler | ngth 1 | | | | |
| .2 .32 Complete whole activities of this cost centre 1 | 0 | | 31-Mar-23 | | | | | | | | | • | 4.2 .32 Co | mplete wi | hole activitie | s of this co | st centre 1 | | | | | | |
| 1 Cut-and-Cover Tunnel at South Apron | 24 | 13-Sep-22 A | 13-Dec-22 A | | | | | - | | | | | | | | | | | | | | | |
| .1 .27 Complete base slab of Cut-and-cover Tunnel by length 1 | 0 | | 13-Sep-22 A | | | | | | | | | ‡ } | | | ; | | | | | | 1: | | |
| .1 .30 Complete internal wall of Cut-and-cover Tunnel by length 0.3 | 0 | | | npilete in | ernal wall of Cut-and | -cover Tunnel by length | 0.3 | | | ii | | : | | | ii | | | | | | | | |
| 1 .28 Complete internal wall of Cut-and-cover Tunnel by length 0.1 | 0 | | 18-Nov-22 A | | ;;; | d-coverTunnel by lengt | : | | | † | | <u> </u> | | | } | | | | | | 1: | | |
| 1 .29 Complete internal wall of Cut-and-cover Tunnel by length 0.2 | 0 | | | -3 | | d-coverTunnel by lengt | | | | | | i | | | <u> </u> | | | , | | | | | |
| 1.31 Complete internal wall of Cut-and-cover Tunnel by length 0.4 | 0 | | | | | d-coverTunnel by lengt | | | | ii | | ! | | | | | | | | | 1: | | |
| .1 .32 Complete internal wall of Cut-and-cover Tunnel by length 0.5 | 0 | | | - 3 | | d-cover Tunnel by lengt | | | | | | | | | | | | | | | - | | |
| .1.33 Complete internal wall of Cut-and-cover Tunnel by length 0.6 | 0 | | 13-Dec-22 A | | | e internal wall of Cut-an | | lenath' 0.6 | | | | | | | | | | | | | | | |
| .1.34 Complete internal wall of Cut-and-cover Tunnel by length 0.7 | 0 | | | | | e internal wall of Cut an | ' | | | | | | | | } | | | , | | | | | |
| 1 .35 Complete internal wall of Cut-and-cover Tunnel by length 0.8 | - | | 13-Dec-22 A | | | e internal wall of Cut-an | | | | | ! | | | | <u> </u> | | | | | | | | |
| , , , | 0 | | 13-Dec-22 A | | ; ; ; ' | - | | | | | | - | | | | | | | | | | | |
| 1.36 Complete internal wall of Cut-and-cover Tunnel by length 0.9 | 0 | | 13-Dec-22 A | | | e internal wall of Cut+an | | | | | | | <u>L</u> | | } | | | | | | | | |
| .1.37 Complete internal wall of Cut-and-cover Tunnel by length 1 | 0 | 40.5.00.4 | 13-Dec-22 A | | 5.1.37 Complet | e internal wall of Cut-an | a-cover i unnei by i | lengin 1 | | ļ | | | | | <u> </u> | | | | | | | | |
| 2 Completion of SUS | 164 | 13-Dec-22 A | 28-Jun-23 | | ļ.,ļļ | | | | | ļļ | | ¦ | | | i i | | | | | | | | |
| .2 .5 Complete overhead ventilation duct slab by length 0.1 | 0 | | 13-Dec-22 A | | 5.2 .5 Complete | overhead ventilation du | : | | | ¦ | | ¦ ; | | | ļ | | | | | | - | | |
| .2 .6 Complete overhead ventilation duct slab by length 0.2 | 0 | | 13-Jan-23 A | | | ◆ 5.2 .6 Co | mplete overhead v | | 4 | J-1T | 4 | 1 | | | | | | | | | | | |
| .2 .7 Complete overhead ventilation duct slab by length 0.3 | 0 | | 13-Feb-23 A | | | | | ◆ 5.2 .7 C | Complete | overhead v | | | | ; | | | | | | | - | | |
| .2 .8 Complete overhead ventilation duct slab by length 0.4 | 0 | | 13-Mar-23 A | | | | | | | • | 5.2 .8 Co | 4-1444 | | | duct slab b | | ! ! | | ļi. | | <u>.</u> | | |
| .2 .9 Complete overhead ventilation duct slab by length 0.5 | 0 | | 31-Mar-23 | | . ! ! ! ! ! | | | 1 | | | | +++ | | | I | | slab by leng | | | | | | |
| .2 .25 Complete remaining works in SUS by length 0.1 | 0 | | 31-Mar-23 | .j | | | | j. | | <u>i i i i i i i i i i i i i i i i i i i </u> | <u> </u> | • | 5.2 .25 Co | mplete re | maining wo | rks in SUS | by length 0. | 1 | ii | <u> </u> | | | |
| .2 .26 Complete remaining works in SUS by length 0.2 | 0 | | 31-Mar-23 | | | | | | | | | | | | | | by length 0. | | | | | | |
| .2 .27 Complete remaining works in SUS by length 0.3 | 0 | | 31-Mar-23 |]. | | | | | | | | • | 5.2 .27 Co | mṗlete re | maining wo | rks in SUS | by length 0. | 3 | | | | | |
| .2 .28 Complete remaining works in SUS by length 0.4 | 0 | | 31-Mar-23 | | | | | | |] | | • | 5.2 .28 Co | mplete re | maining wo | rks in SUS | by length 0. | 4 | | | | ! | |
| .2 .29 Complete remaining works in SUS by length 0.5 | 0 | | 31-Mar-23 | | | | | | | | | · • | 5.2 .29 Co | mplete re | maining wo | rks in SUS | by length 0. | 5 | | 1 | | | |
| .2 .15 Complete Thermal barrier by length 0.1 | 0 | | 01-Jun-23 | | | | | | | 1 | | | | | [] | | | . – – – – – – – – | .15 Comple | ete Therma | al barrier by | / length | ı 0. |
| 2 .16 Complete Thermal barrier by length 0.2 | 0 | | 14-Jun-23 | | | | | | | ii | | | | | } | | | | | | plete Therma | | |
| | | | | | | | | | | | | | | | | | | | | | 1. | | |

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



| | Date | Revision | Checked | Approved |
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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 |
| | | • | | • |

| ity Name | Dur | Start | Finish | | | mber | | January | Fah | bruary | | Mar | ch | | | 023 oril | | | Ma | v | | | June | | | July | , |
|--|-----|-------------|-------------|----------|------------|-------------|-----------|----------------------------|-----------------|----------------|--------------|-------------|-----------------|-------------|--------------|--------------|---------------|----------|------------|------------|-----------|-----------|------------|-----------|--------------|-------------|--------|
| | | | | 04 | | 1 | 25 01 | 08 15 22 | | 12 19 | 26 0 | | | 26 02 | | | 23 | 30 (| 07 1 | y 4 21 | 28 | 04 | 11 | 18 2 | 5 02 | | 16 |
| 6.2 TBM Tunnel | 250 | 13-Jul-22 A | 27-Jun-23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6.2 .3 Complete excavation & installation of TBM Tunnel lining by length 0.15 | 0 | | 13-Jul-22 A | | | | | | | | | | | | | , | | | | | | 1 | | | | | |
| 6.2 .4 Complete excavation & installation of TBM Tunnel lining by length 0.2 | 0 | | 13-Sep-22 A | 2 | | | | | | | | | | | | | | | | | | | | | | | |
| 6.2 .5 Complete excavation & installation of TBM Tunnel lining by length 0.25 | 0 | | 13-Sep-22 A | 25 | | _ii_ | | | | | | <u>.</u> | .ii. | | | | | j | | | | j | <u>i i</u> | <u>.</u> | | . [| |
| 6.2 .22 Complete TBM Tunnel waterproofing 0.2 | 0 | | 13-Sep-22 A | | | | | | | | | | | | | | | | | | | - | | | | | |
| 6.2 .6 Complete excavation & installation of TBM Tunnel lining by length 0.3 | 0 | | 13-Oct-22 A | ВМ Ти | ınnel lini | ng by lengt | h 0.3 | | | | | | | | l | | | | | | <u> </u> | <u> </u> | <u> </u> | | | | |
| 6.2 .7 Complete excavation & installation of TBM Tunnel lining by length 0.35 | 0 | | 13-Oct-22 A | ВМ Ти | ınnel lini | ng by lengt | h 0.35 | | | | | | | | | | | | | | | | | | [| | |
| 6.2 .23 Complete TBM Tunnel waterproofing 0.3 | 0 | | 13-Oct-22 A | 0.3 | | | | | | | | | | | | <u> </u> | | | | | | - | | | | | |
| 6.2 .8 Complete excavation & installation of TBM Tunnel lining by length 0.4 | 0 | | 18-Nov-22 A | F-3 | | -11 | | BM Tunnel lining by len | gth 0.4 | | | <u>.</u> | | | | | | | | | | j | <u>i i</u> | | [[| | |
| 6.2 .24 Complete TBM Tunnel waterproofing 0.4 | 0 | | 18-Nov-22 A | mplete | е ТВМ Т | unnel wate | rproofing | 0.4 | | | | | | | | | | | | | | - | | | | | |
| 6.2 .9 Complete excavation & installation of TBM Tunnel lining by length 0.45 | 0 | | 13-Dec-22 A | l .j | | | | vation & installation of | 4 | | | ! | . [] . | | | | | | | | | 1 | 1 | | | | |
| 6.2 .10 Complete excavation & installation of TBM Tunnel lining by length 0.5 | 0 | | 13-Dec-22 A | | | _ 4 4 | | a vation & installation of | | ining by lengt | h 0.5 | | | | | | | | | | | 1 | <u> </u> | | | | |
| 6.2 .25 Complete TBM Tunnel waterproofing 0.5 | 0 | | 13-Dec-22 A | | ♦ 6 | 3.2 .25 Com | plete TBI | M Tunnel waterproofing | | | | | | | | | | | | | | - | | | | | |
| 6.2 .11 Complete excavation & installation of TBM Tunnel lining by length 0.55 | 0 | | 13-Jan-23 A | ļ.j | | | | ◆ 6.2 .11 Comp | | | | 1 | _ 1 _ 7 1 _ 1 _ | | | i | | j | | | . j | j | <u>i i</u> | <u>.</u> | [| | |
| 6.2 .12 Complete excavation & installation of TBM Tunnel lining by length 0.6 | 0 | | 13-Jan-23 A | | | | | ◆ 6.2 .12 Comp | 1 | | | Tunnell | ning byler | gth 0.6 | | | | | | | | | | | | | |
| 6.2 .26 Complete TBM Tunnel waterproofing 0.6 | 0 | | 13-Jan-23 A | | | 1 1 | | ◆ 6.2 .26 Comp | lete TBM Tunn | nel waterproof | fing 0.6 | ! | | | | <u> </u> | | ! | | | . | - | ! | ! | | | |
| 6.2 .13 Complete excavation & installation of TBM Tunnel lining by length 0.65 | 0 | | 13-Mar-23 A | | | _ | | | | | | ♦ 6. | 2.13 Cam | | L | | | | | | | 4 | | | [: | | |
| 6.2 .31 Complete TBM Tunnel overhead ventilation duct slab 0.1 | 0 | | 31-Mar-23 | | | | | | | | | | | 6.2 | .31 Com | lete TBN | √l Tun¦ne | el overh | nead ver | tilation d | luct slat | 0.1 | | | | | |
| 6.2 .32 Complete TBM Tunnel overhead ventilation duct slab 0.2 | 0 | | 31-Mar-23 | <u> </u> | | | | | .] | | | | | 6.2 | .32 Com | lete TBN | √ Turine | el overh | read ver | tilation d | luct slat | 0.2 | <u> </u> | | [[| | |
| 6.2 .33 Complete TBM Tunnel overhead ventilation duct slab 0.3 | 0 | | 31-Mar-23 | | | | | | | | | | | 6 .2 | .33 Com | lete TBN | √l Tun¦n∈ | el overh | read ver | tilation d | luct slat | 0.3 | | | | | |
| 6.2 .41 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.1 | 0 | | 31-Mar-23 | | | 1 | | | | | | ! | | 6.2 | .41 Com | lete TBN | √l Tur¦ne | el Them | nal Barr | er to tun | nel linir | nģ 0.1 | ! | | [| | |
| 6.2 .42 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.2 | 0 | | 31-Mar-23 | <u> </u> | | | | | | | | | | 6.2 | .42 Com | lete TBN | √ Tunne | el Them | nal Barr | er to tun | nel linir | g 0.2 | | | [[| | |
| 6.2 .14 Complete excavation & installation of TBM Tunnel lining by length 0.7 | 0 | | 28-Apr-23 | | | | | | | | | | . ! ! . | | | | ◆ 6 | .2 .14 C | Complete | excava | tion & ir | nstallati | on of TB | M Tunne | l lining by | length 0.7 | 7 |
| 6.2 .27 Complete TBM Tunnel waterproofing 0.7 | 0 | | 28-Apr-23 | <u> </u> | | | | | | | | <u>.</u> | . i i . |]][| i | | ♦ 6 | | 2 | твм Т | | | 1 1 | | [[| | j |
| 6.2 .43 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.3 | 0 | | 08-May-23 | | | | | ! ! ! ! ! ! ! ! ! ! | | | | | | | | | | • | | | | 4 | + | | to tunnel li | | |
| 6.2 .34 Complete TBM Tunnel overhead ventilation duct slab 0.4 | 0 | | 16-May-23 | | | | | | | | | | | | | <u>.</u> | | | | ' | | | | | | on duct sla | |
| 6.2 .15 Complete excavation & installation of TBM Tunnel lining by length 0.75 | 0 | | 17-May-23 | ļ.j | | | | | | | | <u>.</u> | .ii. | | | | <u></u> | | | 6.2 .15 | Compl | ete exc | 11 | | | M Tunnel | |
| 6.2 .16 Complete excavation & installation of TBM Tunnel lining by length 0.8 | 0 | | 14-Jun-23 | | | | | | | | | | | | | <u> </u> | | | | | | | ÷ | | + | avation & | |
| 6.2 .28 Complete TBM Tunnel waterproofing 0.8 | 0 | | 14-Jun-23 | | | | | i i i i i | | | | | . . | | | | | | | | | 1 | 11 | | + | M Tunnel | |
| 6.2 .44 Complete TBM Tunnel Thermal Barrier to tunnel lining 0.4 | 0 | | 16-Jun-23 | | | | | | | | | | | | | | | | | | | | • | | 1'2 | BM Tunne | |
| 6.2 .35 Complete TBM Tunnel overhead ventilation duct slab 0.5 | 0 | | 27-Jun-23 | | | | | | | | | | | | | <u> </u> | | | | | . . | | <u> </u> | • | 6.2 .35 (| Complete | TBM |
| 6.3 Cross Passages for TBM Tunnel | 130 | 13-Jan-23 A | 26-Jun-23 | | | | | | | | | <u>.</u> | | | | | | | | | . j l | <u>.</u> | <u>i i</u> | | | | |
| 6.3 .4 Complete Ground treatment for all Cross Passages 0.1 | 0 | | 13-Jan-23 A | | | | | ◆ 6.3 .4 Comple | ete Ground trea | atment for all | Cross Pa | ssages | 0.1 | | | | | | | | |] | | | | | |
| 6.3 .5 Complete Ground treatment for all Cross Passages 0.2 | 0 | | 13-Jan-23 A | <u> </u> | | 1 1 | | ◆ 6.3 .5 Comple | | | L | | | | | | | | | | . ! | 1 | 1 | | li | | |
| 6.3 .6 Complete Ground treatment for all Cross Passages 0.3 | 0 | | 13-Feb-23 A | l.j | | _ii_ | | | | ▶ 6.3 .6 Com | <u>- L J</u> | L | _ 1 1 _ | | L | | <u>. i</u> l. | | | | | j | ii | | li | . [[| |
| 6.3 .14 Complete excavation and support of Cross Passages 0.1 | 0 | | 13-Feb-23 A | l.: | | | | | • | ▶ 6.3 .14 Cor | npletė ex | | | | | la la - | | | | | | 1 | 1 | | | | |
| 6.3 .7 Complete Ground treatment for all Cross Passages 0.4 | 0 | | 13-Mar-23 A | | | | | | | | | 1 | 3.7 Comp | | 'L | '' | | ' | <u> </u> | ' | | <u> </u> | <u> </u> | | | | |
| 6.3 .15 Complete excavation and support of Cross Passages 0.2 | 0 | | 13-Mar-23 A | <u> </u> | | | | | | | | ♦ 6. | 3 .15 Cam | olete exca | avation a | nd suppo | rt of Cr | oss Þas | ssages | 0.2 | | <u> </u> | 1 | | [[| | |
| 6.3 .8 Complete Ground treatment for all Cross Passages 0.5 | 0 | | 31-Mar-23 | <u> </u> | | 1 | | | | | | | | 6.3 | .8 Comp | ete Grou | nd trėa | tment fo | or all¦Cro | ss Pass | ages 0 | .5 | | | [| | |
| 6.3 .16 Complete excavation and support of Cross Passages 0.3 | 0 | | 31-Mar-23 | <u> </u> | | | | | | | | | _ | 6.3 | .16 Com | lete exca | avation | and su | pport of | Cross Pa | assage | s 0.3 | | | [[| | |
| 6.3 .17 Complete excavation and support of Cross Passages 0.4 | 0 | | 31-Mar-23 | | | | | | | | | | | 6.3 | .17 Com | lete exca | avation | and su | pport of | Cross Pa | assage | s 0.4 | | | [| | |
| 6.3 .18 Complete excavation and support of Cross Passages 0.5 | 0 | | 20-Apr-23 | | | | | | | | | ! | | | | ♦ 6. | 3 .18 C | omplete | e ex¢ava | ation and | suppor | t of Cro | ss Pass | ages 0.5 | | | |
| 6.3 .9 Complete Ground treatment for all Cross Passages 0.6 | 0 | | 02-May-23 |] | | | | | | | | | | | | | | ▶ 6.3 .9 | 9 Campl | | | 3 | 1 | | ages 0.6 | | |
| 6.3 .19 Complete excavation and support of Cross Passages 0.6 | 0 | | 25-May-23 | | | | | | | | | | | | | | | | | • | 6.3 19 | Comp | lete exc | avation a | nd suppor | t of Cross | Pass |
| 6.3 .24 Complete structural works of Cross Passages 0.1 | 0 | | 01-Jun-23 | l.j | | _ii_ | | | | | | <u>.</u> | . i i . | | | | <u>. i</u> l. | | | | | | 11 | | | of Cross | |
| 6.3 .25 Complete structural works of Cross Passages 0.2 | 0 | | 01-Jun-23 | | | | | | | | 1 | | | | | | | | | | • | 6.3 .25 | + | | | of Cross | |
| 6.3 .10 Complete Ground treatment for all Cross Passages 0.7 | 0 | | 12-Jun-23 | | | | | | | | | | | | | ļ | | | | , | | | ♦ 6.3 | | +; | nd treatme | |
| 6.3 .26 Complete structural works of Cross Passages 0.3 | 0 | | 26-Jun-23 | ļ | | | | | | | 1 | <u>.</u> | | [| | | | | | | | <u>.</u> | 1 | • | 6.3 .26 C | omplete s | struct |
| 7.1 Western Ventilation Building | 152 | 13-Sep-22 A | 13-Jan-23 A | | | | | | | | | | | | | | | | | | | | 1 | | | | |
| 7.1 .7 Complete concrete works of gross plan area for WVB 0.25 | 0 | | 13-Sep-22 A | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| 7.1 .8 Complete concrete works of gross plan area for WVB 0.5 | 0 | | 13-Jan-23 A | [] | | | | ◆ 7.1 .8 Comple | te concrete wo | rks of gross p | lan area | for WVB | 0.5 | | [| | | | | | -] - | | | | | | |
| 8.1 Eastern Ventilation Building | 216 | 13-Sep-22 A | 27-Jun-23 | [] | 1 | | | | | | 1 :: : | | | 11: | - | | | | ; | | | | | | 1 | - | |
| or Eastern vertilation Easterning | | | | | | | | | | | | | | | | | | | | | | | | | 1.1 | | |

Page 8 of 28 Data Date: 31-Mar-23



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



| 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 |

| March Marc | vity Name | Dur | Start | Finish | | 2022 | | | i e. | 1 | | M | | | 202 | - | | | | | | | | |
|--|---|-------------|-------------|----------------|------------------|--|------------------|------------------|---------------------|----------------|-----------|-------------------------------|--------------|-----------------|----------------|-------------------|-------------|------------|--|--------------------|---------------|---------------|--|--------------|
| Content processed in the second plant by any 20 2 2 2 2 2 2 2 2 2 | | | | | 04 | December 11 18 25 | 01 08 I | | | 7 | 6 05 | March 12 | 19 26 | 5 02 | | | 3 30 | 07 | May 14 21 | 1 28 1 0 | | | 1 | |
| Mile Andrew State Mile | 8.1 .4 Complete concrete works of gross plan area for EVB 0.25 | 0 | | 27-Jun-23 | | | | | | | 1 | + - + | | | | | | | | | | | 8.1 .4 Comple | te concr |
| 1. Stock processed at Stock and processed a | | 0 | 31-Mar-23 | | | | | | | | ! | | | 11: | | | | | !! ! | | | ! | | |
| ## 15 Company and many and Addition and Addi | | 0 | | 31-Mar-23 | | - | | | | | | - | | 911 | 8 Comple | ete nerma | nent wal | II.& hotte | m slab for L | aunching S | haff by leng | nth 0.2 | | |
| 10 Complement of Electric of Energy of Line (Incomplement of Electric of Energy of Line (Incomplement of Electric of Energy) Complement of Electric of Energy of Electric | | | | | | - † † † | | | | | | | | | | | | ,, | ; | | | | ļ: | |
| 1. Continue content on the sounds of bodies of policy (1) 2 1 14 14 15 14 14 14 14 | | | | | | | | | | | | | | 116 | | | ' | | | Y | 1 - 1 P. | | | |
| 1.2 Complex amount of Indian And Indian An | | | | | | | | | | | | | | 444 | · i | | | | | | | | ļ | |
| 1 | | | | | | | | | | | | | | 444 | | | ' | | | - | ! | | | |
| 1. No final memory works works provide study of the North St. No | | - | | | | | | | | | | | | | | | | | | | 1-1 | Jui i | ļ | - <u> </u> |
| 11.0 Each disease Extended | | | | | | | | | | | | | | 44 | | | ;- | ,, | | | I i i . | | ļ; | |
| 13.0 Complete report (according 2) to be supply 9 9 9 9 9 9 9 9 9 | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | 9.1.2 | 4 Comple | ete perma | anent top | slad for | Launching S | Snart by ten | igtn v.4 | | ļ | |
| 11.15 Compare tame annealment 20 ft by regin | | 155 | 13-Jul-22 A | 31-Mar-23 | | | | | | | | | | : | | | ! | | !! | | | | ļ | |
| 11 17 Complex trans executed if y sign | 11.1.3 Complete tunnel excavation 0.6 by length | 0 | | 13-Jul-22 A | | | | | | | | | | Щ | | | | | | | | | ļ <u>.</u> | |
| 11.10 Complete companion to 1 years 11.10 Complete companion control 1 years 11.10 | 11.1.5 Complete tunnel excavation 0.7 by length | 0 | | 13-Sep-22 A | | | | | | | | <u> </u> | <u> </u> | | | | | | <u> </u> | | | | li l | |
| 1.1.1 Coros Pares production 1 brough | 11.1.7 Complete tunnel excavation 0.8 by length | 0 | | 18-Nov-22 A | nplete tu | nnel excavation 0.8 | by length | | | | | | | | | | | | | | | | | - |
| 11.0 Complet consequents extracted by length | 11.1.9 Complete tunnel excavation 0.9 by length | 0 | | 13-Feb-23 A | | | | | ♦ 1 | 1,1.9 Compl | ete tunne | e excavat | ion 0.9 by | ength | | | | | | | | | | |
| 1.0 1 Complete companges student 20 by reg th 2.0 20 April 20 Complete companges student 20 by reg th 3.0 | 11.1.11 Complete tunnel excavation 1 by length | 0 | | 31-Mar-23 | | | | | | | | 1 | | 11.1. | 11 Compl | ete tunne | el excava | ition 1 b | y length | | | | | |
| 1.2.1 Complet designation at 1.5 to bright 0 24 by 29 2 24 by 29 1.2.2 Complet designation at 2.5 to bright 0 24 by 29 1.2.2 Complet designation at 2.5 to bright 0 24 by 29 1.2.2 Complet designation at 2.5 to bright 0 2.5 to 2 | · • • | 44 | 02-May-23 | 23-Jun-23 | | | | | | | | | | 1 | · | | | | ; | - | | | | |
| 12.2 Complex companges ablace 23 begin 6 23 star 23 2.2 star 23 2.2 star 24 6 13 star 25 2.3 star 24 6 13 star 25 | 11.2.1 Complete cross passages structure 0.1 by length | 0 | , | 02-May-23 | | | | | | | | | - | | | | • 1 | 11.2.1 C | mplete cros | s passages | s structure 0 | 1 by length | | |
| ## 12 Complete consumption and a syring in 12 Complete consistency in 12 C | | - | | | | | | | | | | | | | ļ <u>-</u> - | | | | | | | | 1 | 0.2 by k |
| 12.1 Dried Blast Turnel 1 | | 0 | | - | - | | | | | | | | | } | | | | | | | | | + | |
| 1.1.1 Concepte for control filt from \$1 for partial filt filters \$1 \text{ for partial filters \$1 \text{ for partial filters \$2 \text{ for partial f | | 0 | 12 Jan 22 A | | | - | | | | | | | | | ļ <u>-</u> - | | | | | | | | | 1035 pas |
| 12.2 Corpose sessing effectively graps 0.5 0.1 | | U | 13-Jan-23 A | | | | | | | | | . - | | - | . | | | | : | | | | ļ | |
| ## 12.1 Congletic consequence (active by length 0.1 ## 12.1 Lam Than Trichardong Works ## 13.1 Lam Than Trichardong Works ## 13.1 Comprehe founders ## | | 0 | | | | | ; | 12.1.12 Compl | lete tunnel structu | rai lining 0.1 | bylength | n _: | | 11: | | | !- | | ¦ | | | | ļ | |
| 13.1 Complete forecasting works | 12.2 Cross Passages for Drill and Blast Tunnel | 0 | 24-Jun-23 | 24-Jun-23 | | | | | | | | | |][| | | | | ! ! ! ! ! | | | | | |
| 11.1 Complete forwards of subcundifure | 12.2.1 Complete cross passages structure by length 0.1 | 0 | | 24-Jun-23 | l . j | .iii | | | | | j | .ii. | i | <u> </u> | .ii. | | | . j j | <u> j </u> | . j l j | | 4 12.2 | 2.1 Complete | cross pa |
| 19.1 2 Complete fectorized violation frame | 13.1 Lam Tin Interchange Works | 10 | 31-Mar-23 | 17-Apr-23 | | | | | | | | | | | | | | | | | | | | |
| 19.1.2 Complete florisation of staticular fiere 19.1.3 Complete florisation of staticular fiere 19.1.4 Complete entering wors 19.1.4 Complete entering wors 19.1.5 Complete florisation of staticular fiere 19.1.5 Complete florisation of staticular fiere 19.1.5 Complete florisation of staticular fiere 19.1.5 Complete entering wors 19.1.5 Complete florisation of staticular fiere 19.1.5 Complete florisation of staticular fields | 13.1.1 Complete foundation | 0 | | 31-Mar-23* | | | | | | | | | | 13.1 . | 1 Comple | ete found | ation | | <u></u> | - | | | <u> </u> | |
| 10.1.3 Complete ministration of structural frames 10.1.4 Complete described filts cost curbs 10.1.5 Complete filts cost curbs 10. | <u>'</u> | 0 | | 31-Mar-23* | | | | | | | | - | | 13.1 . | 2 Comple | ete fabrica | ation of s | structural | frame | - - - - | | | | |
| 15.1 A Complete environing visions 15.1 Complete deciding grows 16.2 Complete deciding grows 17.4 pc29 17 | • | 0 | | | | | | | | | | | | | | ; | : | , | (| | | | | |
| 13.1 3.2 Anymorte Mondrokes for Trust Road 72 (including Depressed Road 0 15-Jun-22 1 | · | | | | | | | | | | | | | | | | | !! | | | | | | |
| 14.2 Provisions for Circle 4.7 (Complete drawings) installation 0.5 4.7 (Body 2) 4.5 (Long pilet provision for Circle 4.5 (Long pilet p | | 0 | | · · · | | | | | | | | | - | ++ | · i | ; | ;- -' | ;; | ; | this cost ce | antre | $\frac{1}{7}$ | ļ | |
| 14.5 Provisions for COPS 47 18 Agr23 49 1 | · | 12 0 | 15 Jun 22 | | | | | | | | | | | | | 10.11.0 | - Hillion | to willow | | | | | | |
| 14.5 Provisions for GOFS 14.7 18-Apr 23 14.5 Longolete provision for GOFS 0.2 0 18-Apr 23 14.5 Longolete provision for GOFS 0.2 0 18-Apr 23 14.5 Longolete provision for GOFS 0.2 0 14.4 Longolete provision | · · · · · · · · · · · · · · · · · · · | | 15-Jul1-25 | | | | | | | | | | - | H} | . | | | | ; | | | | ļ | |
| # 5.1 Complete provision for GOFS 0.2 # 15.2 | · · · · · · · · · · · · · · · · · · · | 0 | | | | | | | | | | | | 11: | | | | | <u></u> | | | 14.2.7; Com | ipiete drainag | e installa |
| 4 14 3 2 Complete provision for GOFS 0.4 15.0 E&M Design Works 23 15.0 Feb Design Works 33 15.4 Feb 23.4 15.0 10 Approval DOA for sederical system (proved supply) 15.0 22 Approval DOA for Trunnel plumbing & drainage 15.0 28 Approval DOA for Trunnel plumbing & drainage 15.0 28 Approval DOA for Trunnel plumbing system 15.0 14 Approval DOA for Trunnel plumbing system 15.0 15.0 E&M Design Works 15.0 14 Approval DOA for Trunnel plumbing system 15.0 14 Approval DOA for Trunnel plumbing system sys | | 47 | 18-Apr-23 | 14-Jun-23 | | | | | | | | | |]]; | | | | | | . | | | | |
| 15.0 £8 M Design Works 15.0 1.0 Approval DOA for Edentical system (power supply) 15.0 2.2 Approval DOA for Turnel leptring system 15.0 £8 Approval DOA for Turnel leptring system set to violage system 15.0 £8 Approval DOA for Turnel leptring system system 15.0 £8 Approval DOA for Turnel leptring system system 15.0 £8 Approval DOA for Turnel leptring system system 15.0 £8 Approval DOA for Turnel leptring system system 15.0 £8 Approval DOA for Turnel leptring system system 15.0 £8 Approval DOA for Turnel leptring s | 14.5.1 Complete provision for GOFS 0.2 | 0 | | 18-Apr-23* | | 1 1 | | | | | | | ! | | | ♦ 14¦.5 .′ | 1 Comple | ete provi | sion for GOF | \$ 0.2 | | | <u> </u> | |
| 15 0.10 Approval DDA for electrical system (power supply) 15 0.20 Approval DDA for Turnie plumbing & diratings 15 0.20 Approval DDA for Turnie plumbing & diratings 15 0.60 Approval DDA for Turnie plumbing & diratings 15 0.60 Approval DDA for Turnie plumbing & diratings 15 0.60 Approval DDA for Turnie plumbing & diratings 15 0.60 Approval DDA for Turnie plumbing & diratings system 15 0.60 Approval DDA for Turnie plumbing & dirating system 15 0.60 Approval DDA for Turnie plu | 14.5.2 Complete provision for GOFS 0.4 | 0 | | 14-Jun-23* | | | | | | | | | 1 | Ш | | | | | | | 4 14 | 4.5.2 Comp | ete provision | for GOF |
| 15.0 22 Approval DDA for Tunnel pturbing & drainage 0 13-Feb 23 A | 15.0 E&M Design Works | 39 | 13-Feb-23 A | 31-Mar-23 | | | | | | | - | | | | | - | | | | | | | | |
| 15.0 26 Approval DDA for Turnel lighting system 0 134eb23A 15.0 46 Approval DDA for Turnel lighting system 0 134eb23A 15.0 46 Approval DDA for Turnel lighting system 0 134eb23A 15.0 14 Approval DDA for Turnel lighting system 0 134eb23A 15.0 14 Approval DDA for Turnel lighting system 0 134eb23A 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for Turnel lighting system 0 134eb23 15.0 18 Approval DDA for EMIN INVB 15.0 38 Approval DDA for EMIN INVB 15.0 45 Approval DDA for E | 15.0.10 Approval DDA for electrical system (power supply) | 0 | | 13-Feb-23 A | | | | | ♦ 1 | 5.0.10 Appr | oval DD/ | A for elect | rical syste | n (powe | r supply) | | | | | | | | | |
| 15.0 26 Approval DDA for Tunnel lighting system 0 | 7 11 77 | 0 | | | | | | | ♦ 1 | 5.0 .22 Appr | oval DD/ | A: for Tunn | el plumbi | ng & drai | nage | | ;- | | ;; | -i -i | | - | | |
| 15.0 8 Approval DDA for turnel vertilation system 0 | | 0 | | | | | | | ♦ 1 | 5 0 26 Appr | oval DDA | -¦¦- A¦for Tumr | el lighting | svstem | | | | | <u> </u> | | | | | - <u>L</u> |
| 15. 0.14 Approval DDA for Tunnel extra low voltage system 0 31-Mar-23 15. 0.14 Approval DDA for Tunnel extra low voltage system 0 31-Mar-23 15. 0.34 Approval DDA for Tunnel fire services system 0 31-Mar-23 15. 0.34 Approval DDA for Tunnel fire services system 15. 0.34 Approval DDA for Filming tunnel and at-grade £MI systems 15. 0.34 Approval DDA for £MI in EVB 15. 0.34 Approval DDA for £MI in EVB 15. 0.34 Approval DDA for £MI in EVB 0 31-Mar-23 15. 0.42 Approval DDA for £MI in EVB 15. 0.42 Complete whole activities of this cost centre 0 31-Mar-23 15. 2.1 Complete verminal, mat, pit, conduit, opening and recess etc. 0.5 0 13-Jul-22 A to mamble 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15. 2.7 Complete pit called dut, drawpits and accessionies etc 0.5 0 13-Jul-22 A to mamble 1 15. 2.7 Complete pit called dut, drawpits and accessionies etc 0.5 0 13-Jul-22 A to mamble 1 15. 2.7 Complete pit called dut, drawpits and accessionies etc 0.5 15. 2.8 MWorks for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec 22 A | | | | | | | | | | | | - + + - | | ++ | for tunnel | ventilatio | on systen | n: | <u></u> | | | | <u> </u> | |
| 15.0.18 Approval DDA for Tunnel fire services system 0 31-Mar-23 15.0.30 Approval DDA for remaining tunnel and at-grade E&M systems 0 31-Mar-23 15.0.34 Approval DDA for remaining tunnel and at-grade E&M systems 15.0.34 Approval DDA for remaining tunnel and at-grade E&M systems 15.0.34 Approval DDA for E&M in WVB 0 31-Mar-23 15.0.34 Approval DDA for E&M in EVB 15.0.34 Approval DDA for EAM in EVB 15.0.34 Approval DDA for EAM in EVB 15.0.34 Approval DDA for EAM in EVB 15.0.35 Approval DDA for EAM in EVB 15.0.36 Approval DDA for EAM in EVB 15.0.37 Approval DDA for EAM in EVB 15.0.38 A | · · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | ' | 44 | | ' | ! | ! | low voltage s | | | | | |
| 15.0 30 Approval DDA for remaining tunnel and at-grade E&M systems 0 31-Mar-23 15.0 34 Approval DDA for E&M in WWB 0 31-Mar-23 15.0 38 Approval DDA for E&M in WWB 15.0 38 Approval DDA for E&M in EVB 15.0 42 Approval DDA for E&M in EVB 15.0 42 Approval DDA for E&M in EVB 15.0 43 Complete whole activities of this cost centre 0 31-Mar-23 15.2 E&M Works for Western Ventilation Building 15.2 1 Complete UG pipeworks from sumpit to manhole 0.5 0 13-Jul-22 A 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete UG pipeworks from sumpit to manhole 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec 22A 13-Dec 22A 15-Dec 2B | | | | | | | | | | | | | | 444 | | | | | l l | | | | <u> </u> | |
| 15.0.34 Approval DDA for E&M in WVB 0 31-Mar-23 15.0.38 Approval DDA for E&M in WVB 0 31-Mar-23 15.0.42 Approval DDA for E&M in WVB 15.0.43 Complete whole activities of this cost centre 0 31-Mar-23 15.0.42 Approval DDA for APS in WVB 15.0.43 Complete whole activities of this cost centre 15.0.45 Complete whole activities of this c | · · · · · · · · · · · · · · · · · · · | - | | | | - | | | | | | | | 446 | | | | | ; | | avetome . | | | |
| 15.0 38 Approval DDA for £8M in EVB 0 | | - | | | | | | | | | | | | 444 | | ' | ' | | ' | | | | | |
| 15.0 42 Approval DDA for APS in WVB 0 31-Mar-23 15.0 43 Complete whole activities of this cost centre 0 31-Mar-23 15.2 E&M Works for Western Ventilation Building 15.2 1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5 0 13-Jul-22 A 15.2 1 Complete UG pipeworks from sumpit to manhole 0.5 0 13-Jul-22 A 15.2 2 Complete UG pipeworks from sumpit to manhole 1 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2 3 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec-22A ■ 13-Mar-23 A ■ 15.2 2 Complete pit, cable dud, drawpits and accessories etc 0.5 ■ 13-Mar-23 A ■ 15.2 7 Complete pit, cable dud, drawpits and accessories etc 0.5 ■ 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec-22A ■ 15.2 2 Complete pit cable dud, drawpits and accessories etc 0.5 ■ 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec-22A ■ 15.2 2 Complete pit cable dud, drawpits and accessories etc 0.5 ■ Date Revision Checked Approximate Pipenod Bir Chical Activity □ Date Revision Checked Approximate Pipenod Bir Chical Activity □ Date Revision Checked Approximate Pipenod Bir Chical Activity □ Date Revision Checked Approximate Pipenod Bir Chical Activity | • | - | | | ļ - į | | | | | | | | | | · i | i | i | ii | | | | | | |
| 15.0 43 Complete whole activities of this cost centre 0 31-Mar-23 13-Jul-22 A 13-Mar-23 A 15.2 1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5 0 13-Jul-22 A 15-Jul-22 A 15-Jul | • | - | | | | | | | | | | | | -+ | . - | ; | : | | | | | | ļ | |
| 15.2 E&M Works for Western Ventilation Building 225 13-Jul-22 A 13-Mar-23 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 15.2 10 Complete UG pipeworks from sumpit to manhole 1 0 13-Oct-22 A to manhole 1 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 0 13-Dec-22 A ◆ 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2 7 Complete pit, cable duct, drawpits and accessories etc 0.5 0 13-Mar-23 A 15.3 E&M Works for Eastern Ventilation Building 15.3 E&M Works for Eastern Ventilation Building 15.4 Nicesone ED/2018/04 Trunk Road T2 and Infrastructure Works ED/2018/04 Trunk Road T2 and Infrastructure Works | • | | | | ļ.; | | | | | | | | | | | | ! | | | | | | ļ | |
| 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 15.2.10 Complete UG pipeworks from sumpit to manhole 1 0 13-Oct-22 A 15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 0 13-Dec-22 A 15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 0 13-Mar-23 A 15.2.7 Complete pit, cable dud, drawpits and accessories etc 0.5 0 13-Mar-23 A 15.2.7 Complete pit, cable dud, drawpits and accessories etc 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 1 | · | - | | | | | | | | | | | | 15.0 | 43 Comp | iete whol | e activitie | es of this | cost centre | | | | ļ | |
| 15.2.9 Complete UG pipeworks from sumpit to manhole 0.5 0 | 15.2 E&M Works for Western Ventilation Building | 225 | 13-Jul-22 A | 13-Mar-23 A | | 1 1 1 | | 1 1 | | | 1 | | | | 1 1 | 1 | 1 | 1 1 | | | 1 1 | 1 | | |
| 15.2.10 Complete UG pipeworks from sumpit to manhole 1 15.2.2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2.7 Complete pit, cable duct, drawpits and accessories etc 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec-22A 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22A 13-Dec-22A 15.3 E&M Works for Eastern Ventilation Building 15.3 E&M Works for Eastern Ventilation Building 15.4 Feb-20 01V0 SPa/LLo WYu | 15.2 .1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5 | 0 | | 13-Jul-22 A | | | | | | | | | | | | | | | jj. | .] [] [| | | II | |
| 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2 7 Complete pit, cable duct, drawpits and accessories etc 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 15 Dec-22 A 13-Dec-22 A 16 Dec-22 A 13-Dec-22 A 17 Dec-22 A 13-Dec-22 A 18 Dec-19 00V1 WYu 18 Dec-19 00V1 WYu 22 Feb-20 01V0 SPa/LLo WYu | 15.2.9 Complete UG pipeworks from sumpit to manhole 0.5 | 0 | | 13-Jul-22 A | | | | | | | | | | | | | | | | | | | | - |
| 15.2 2 Complete terminal, mat, pit, conduit, opening and recess etc. 1 15.2 7 Complete pit, cable duct, drawpits and accessories etc 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 15 Dec-22 A 13-Dec-22 A 16 Dec-22 A 13-Dec-22 A 17 Dec-22 A 13-Dec-22 A 18 Dec-19 00V1 WYu 18 Dec-19 00V1 WYu 22 Feb-20 01V0 SPa/LLo WYu | 15.2.10 Complete UG pipeworks from sumpit to manhole 1 | 0 | | 13-Oct-22 A | to man | hole 1 | | | | | ! | | | 11: | | | 1 | | | | | | | |
| 15.2.7 Complete pit, cable duct, drawpits and accessories etc 0.5 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A age 9 of 28 ata Date: 31-Mar-23 ED/2018/04 Trunk Road T2 and Infrastructure Works Citical Activity Trunk Road T2 Trunk Road T2 Trunk Road T3 Trun | | 0 | | | t-j | ◆ 15.2.2 Comple | ete terminal, ma | t, pit, conduit. | opening and reces | ssietc. 1 | | - † † - | | 11: | | | [| | | - | | | <u> </u> | |
| 15.3 E&M Works for Eastern Ventilation Building 149 13-Sep-22 A 13-Dec-22 A 150 140 140 140 140 140 140 140 140 140 14 | | | | | | | | | | | ! | ♦ 15.2 | .7 Comple | ete pit. ca | able duct. | drawpits | and acce | essories | etc 0.5 | - - - - | | ! | 1 | |
| age 9 of 28 ata Date: 31-Mar-23 Date Revision Checked Appropriate Planned Bar ED/2018/04 Trunk Road T2 and Infrastructure Works ED/2018/04 Trunk Road T2 and Infrastructure Works | • | - | 13-Sen-22 A | | | | | | | | | | -1 -1 | 11: | | | | | | | | | ti | |
| ata Date: 31-Mar-23 ED/2018/04 Trunk Road T2 and Infrastructure Works Solution Critical Activity 18-Dec-19 | | 143 | 10 06p-22 A | וט טפט־צב א | Li | | | | <u> </u> | | - [| <u>i i</u> | | Щ | | - | íl . | i | | - | | <u> </u> | II ! | <u> </u> |
| ata Date: 31-Mar-23 ED/2018/04 Trunk Road T2 and Infrastructure Works Planned Bar 18-Dec-19 00V1 WYu | age 9 of 28 | | | | | | | | | | | | | | | | | | | | | | ecked | Appro |
| Since Political | ata Date: 31-Mar-23 | | FD/20 | 118/0 4 | Tri | unk Roa | d To | and In | fractru | cture | \\/\c | rke | | | | | | | | | | | | |
| for Developments at South Apron BOUYGUES 09-Apr-20 01V1 SPa/LLo WYu | Critical Activity | | | | | | | | | | 4 V C | J113 | | | | /A::- | - | | <u> </u> | | | | | |





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

| Activity Name | Dur | Start | Finish | | 2022 | | | | | | | | | | | | | 2023 | | | | | | | | | | | |
|---|-----|-------------|--------------------------|----------|---------------------------|--------------------|--------------|--------------------|------------|-------------|-----------------|---------------|-----------|----------------|---------------------------------------|---------------|-----------|-----------------|-----------|-----------|-----------------------|---------------|-------------|-------------|----------------|-------------------------------|----------------|--------------|------------------|
| | | | | 04 | Decem | | 01 | January 08 15 | <u> </u> | 29 05 | February 12 1 1 | 19 2 | 6 05 | Marc 1 12 | | 26 0 | 2 09 | April 9 16 | 3 23 | 1 30 | 07 | May 14 2 | 1 28 | l 8 04 | Jun 111 | | 25 02 | | ıly 16 23 |
| 15.3.1 Complete terminal, mat, pit, conduit, opening and recess etc. 0.5 | 0 | | 13-Sep-22 A | | | | | | - | | | | | | | | - 1 - | | | | 1 1 | | | | | 1 | | | |
| 15.3.7 Complete pit, cable duct, drawpits and accessories etc 0.5 | 0 | | 13-Dec-22 A | | ♦ 15 | .3 .7 Comple | ete pit, ca | able duct, dr | rawpits an | nd accesso | ries etc 0.5 | | | 1 | ! | | | | | | 1 | | | | | 11- | | | : |
| 15.4 APS Works for Western Ventilation Building | 63 | 31-Mar-23 | 20-Jun-23 | | ; <u>;</u> | · | | · | | | | : | | · | | | | | | | | | | | | ii- | ; | | |
| 15.4 .1 Complete site delivery of DeNO2 filters | 0 | 01 mai 20 | 31-Mar-23* | | | | | | | | | | | ÷ | - | 15 | 4 1 C | omplete | site deli | ivery of | DeNO2 | filters | | | | | | | |
| 15.4.2 Complete site delivery of DeNO2 filters | 0 | | 31-Mar-23* | | | | | | | | | | | · | <u> </u> | | L | | | ' | DeNO2 fi | | | | | · - | | | |
| l · | 0 | | 31-Mar-23* | | | | | | | | | | | - | | | | | | | -1 | atic preci | oi to ti on | | | | | | · |
| 15.4.3 Complete site delivery of electrostatic precipitation system | 0 | | | | | | | | | | | | | · | ¦ | | ' | " | ' | ' | | itic precipi | | | | | - | | |
| 15.4.4 Complete installation of electrostatic precipitation system | 0 | | 31-Mar-23* | | | | | | | | | | | - | <u> </u> | | | | | | 4 | | | ystelli | | <u> </u> | | | |
| 15.4.5 Complete site delivery of wash down system | 0 | | 31-Mar-23* | | | | | | | | | | | | ¦ | ++ | | | j | · - j- | | wn syster | II : | | | | - | | |
| 15.4.6 Complete installation of wash down system | 0 | | 31-Mar-23* | | † | | | | | | | | | | | L L | L | | | ! | 11 | n system | | | | | - | | , |
| 15.4.7 Complete site delivery of support system | 0 | | 31-Mar-23* | | | | | | | | | | | | ! + | + + | | | | | support | | | | | | - | | |
| 15.4.8 Complete installation of support system | 0 | | 31-Mar-23* | | | | | | | | | | | · | | 15 | .4 .8 00 | omplete | instaliat | tion of s | support s | ystem | | | | ļ. <u>.</u> | - | | |
| 15.4.9 Complete T&C of complete APS and the integration with rest of T2 tunnel system | 0 | | 20-Jun-23* | | | | | | | | | | | . | <u> </u> | | | | | | | | | | | 1 | + | | of complete |
| 15.4 .10 Complete whole activities of this cost centre | 0 | | 20-Jun-23* | | ļ | | | | | | | | | | ; ; | | | | | | | | | | | ◆ 15.4 | .10 Com | plete who | le activities |
| 17.1 Works under Sections 6A, 6C and 12 and Associated Landscape \ | 183 | 13-Jul-22 A | 31-Mar-23 | | | | 1 | | | | | | | | ; ; ; | | | | | | | | | | | | | | |
| 17.1 .7 Complete sub-base and roadbase works of at-grade roads 0.8 | 0 | | 13-Jul-22 A | | ļ | | 1 | | | L | | | | . į | ! !! | | | | | | <u> </u> | | | <u> </u> | | . į i . | li | | |
| 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 | | 1 | | | | | | | | | 1 | 1 | | | | | | | | | | 1 | 1 | | | |
| 17.1 .11 Complete pavement of at-grade roads 0.8 | 0 | | 13-Aug-22 A | L | 1 | T | | | | | | | | 1 | | | | | | | | | | | 1 | | [[| | |
| 17.1 .52 Complete chambers of waterworks 0.8 | 0 | | 13-Aug-22 A | | | | | | | | | | | | | | | | | | | | | | - | | | | . ! |
| 17.1 .45 Complete watermain installation 1 | 0 | | 13-Sep-22 A | | | | | | | | | | | | | | | | | | | | | | 1. | | | | |
| 17.1 .49 Complete anchor blocks, thrust block etc for waterworks 1 | 0 | | 13-Sep-22 A | | † <u>†</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | material | works 1 | | | · | ;;- | | | | | - † | †† | | ; | ; | ; | | -;; | <u>-</u> | | | - † | † † - | | - | <u>-</u> |
| 17.1.13 Complete footpath 0.25 | 0 | | 13-Oct-22 A | 1 | ! | | | | | | | : | | 1 | ! | | | | | | 1 | | | | | !!- | | | |
| 17.1.14 Complete footpath 0.5 | 0 | | 13-Oct-22 A | | | · | | | | | | | | · | ; ; ! | | | | | | | <u>-</u> | | | | ii- | | | |
| 17.1 .15 Complete footpath 0.8 | 0 | | 13-Oct-22 A | | | | | · | | | | : | | | † ! | | | | | | | | | | | † <u>†</u> - | | | |
| 17.1.17 Complete street furnitures of at-grade roads 0.25 | 0 | | 13-Dec-22 A | | ♦ 17 | .1 .17 Comp | ole te stree | et furnitures | of at-grad | de roads 0 |).25 | | | - | . . | | | | | ·-i | | | | | | ii- | ; | | |
| 17.1 .54 Complete T&C of watermains system 1 | 0 | | 13-Jan-23 A | | † | | - | : | ::- | + | of watermain | ⊹ ıs svste | ¦ m :1 | · | | | | | | | | | | | | † <u></u> | - | | |
| 17.1 .55 Complete landscaping works 0.25 | 0 | | 13-Mar-23 A | | | | | | | | | | | ♦ 17. | 1 .55 Com | ∟plete la | andscar | oind wor | rks 0.25 | 5 | | | | | | ii- | - | | |
| 17.1.16 Complete footpath 1 | 0 | | 13-Mar-23 A | | ¦¦ | | | | | | | : | | | 1 .16 Cor | | | | | | | | | | | | | | |
| 17.1.12 Complete pavement of at-grade roads 1 | 0 | | 31-Mar-23 | | | | | | | | | | | | | 4 4 4 | l | | te paven | nent of a | at-grade | roads 1 | | | | <u> </u> | | | |
| 17.1.18 Complete street furnitures of at-grade roads 0.5 | 0 | | 31-Mar-23 | | ‡ <u></u> | | | | | | | | | | | · + + | + | | | | | rade road | ls 0.5 | | | | | | |
| 17.1.19 Complete street furnitures of at-grade roads 0.8 | 0 | | 31-Mar-23 | | | | | | | | | | | | | 4 | | | | | -{ | grade road | | | | <u> </u> | | | · |
| 17.1.20 Complete street furnitures of at-grade roads 1. | 0 | | 31-Mar-23 | | | | | | | | | | | | | + | | | | | | grade road | | | | | | | |
| 17.1.25 Complete manhole for drainage 0.25 | 0 | | 31-Mar-23 | | ļ | | | | | | | | | - | | | | | j | | drainage: | | | | | · - | | | ; |
| 17.1.25 Complete maintoile for drainage 0.25 | 0 | | | | | | | | | | | | | · | ! ! | | | | | ! | | | | | | | | | · |
| , , | 0 | | 31-Mar-23 | | <u> </u> | | | | | | | | | - | | ++ | | | | | age syste | | | | | | | | <u> </u> |
| 17.1.41 Complete T&C of sewerage system 1 | 0 | | 31-Mar-23 | | | | | | | | | | | | | 4 4 | | ! | ! | !- | rage syst vorks 0. | | | | | | | | |
| 17.1.56 Complete landscaping works 0.5 | U | | 31-Mar-23 | | ļ | | | · | | | | | | <u> </u> | <u> </u> | + | | | | | | | | | | . - | - | | |
| 17.1.57 Complete landscaping works 0.8 | 0 | | 31-Mar-23 | | ¦ | | | | | | | | | | ; | | | | ; | · -;- | vorks 0 | | | | | | } | | |
| 17.1.58 Complete landscaping works 1 | 0 | | 31-Mar-23 | | ‡ <u></u> | | | | | | | | | | <u> </u> | 4 | L | | te landso | [] [| 22 | 0004 51 | | | | ļ <u></u> | | | |
| 17.1.60 Complete whole activities of this cost centre 1 | 0 | 04.14.00 | 31-Mar-23 | | ; ;; | | | | | | | | | | . ! ! ! ## | 7 1/ | . ı .७U C | ornplet | e wnole | autivitie | es of this | cost cent | ie i | | | ; ; ; | - | | |
| 17.2 Irrigation System for Works under Sections 6A, 6C and 12 and As: | 0 | 31-Mar-23 | 31-Mar-23 | | <u> </u> | | | | | | | | | ļ | <u> </u> | | | | | | | | | | | . <u> </u> - | | | |
| 17.2.1 Complete irrigation system 0.3 | 0 | | 31-Mar-23 | | ; ;; | | | <u>.</u> | | | | | | - | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 4 | | : | irrigatio | :- | -() | | | | | · - | ; | | , <u>-</u> |
| 17.2.2 Complete irrigation system 0.6 | 0 | | 31-Mar-23 | | ļ | | | | | | | | | | ļ | + | | | irrigatio | - | -1 | | | | | ļ | | | |
| 17.2.3 Complete irrigation system 1 | 0 | | 31-Mar-23 | | ; ;; | | | | | | | | | | ; ; ; - | | | : | irrigatio | : | | | | | | | ; | | |
| 17.2.4 Complete whole activities of this cost centre 1 | 0 | | 31-Mar-23 | | ļi | | | | | | | | | ļ | ! ! | † 17 | .2 .4 Co | omplete | whole a | ctivities | softhis | ost centre | 1 | | | ļ | | | |
| 17.4 Remaining Stage 5 Infrastructure Works - Road L10 (Southern Se | 162 | 13-Jan-23 A | 29-Jun-23 | | i | | | | | | | | | 1 | : ! | | | | | | j | | _ | | <u>.i.</u> | | | | |
| 17.4 .1 Complete excavation and disposal of material works 0.25 | 0 | | 13-Jan-23 A | | | | | ♦ 17.4 | .1 Compl | lete excava | ation and disp | posal of | material | works | 0.25 | | | | | | | | | | 1 | | | | |
| 17.4.31 Complete sewerage installation 0.25 | 0 | | 13-Jan-23 A | | | | | ♦ 17.4 | .31 Com | plete sewe | rage installat | tion 0.2 | 5 | | , | 11: | | | | | | | | - 1 | - | | | | |
| 17.4.40 Complete watermain installation 0.25 | 0 | | 13-Jan-23 A | | Ţi | | | ♦ 17.4 | 40 Com | plete water | main installa | tion 0 | 25 | - | , | 115 | [| | | | 7 | | | | 1 | Ţ <u>†</u> - | | | |
| 17.4 .35 Complete manhole for sewerage 0.25 | 0 | | 13-Jan-23 A | | | | | ♦ 17.4 | 4 .35 Com | plete man | hole for sewe | erage 0 | .25 | | | | | | | | | | | | | 1 1 | | | |
| | 0 | | 13-Mar-23 A | | ; <u>;</u> | - | 1 | | | | | | | ♦ 17. | 4 .21 Com | plete d | rainage | e installa | ation 0.2 | 2 : | | | j | i | - † | Ţ | : | | |
| i - | 0 | | | | | | - | | | | | : | | | | | | | | | 7.4.2 C | omplete e | xcavatio | on and d | lisposal | of materia | ∤⊹ Il works | 0.5 | |
| 17.4.21 Complete drainage installation 0.2 17.4.2 Complete excavation and disposal of material works 0.5 | 0 0 | | 13-Mar-23 A 02-May-23 | | 1 1 | | | | | | | | | ♦ 17. | 4 .21 Com | nplete d | rainage | e installa | ation 0.2 | | 7.4 2 C | omplete e | xcavatio | on and d | lisposal | of materia | l wor | ks | ks 0.5 |

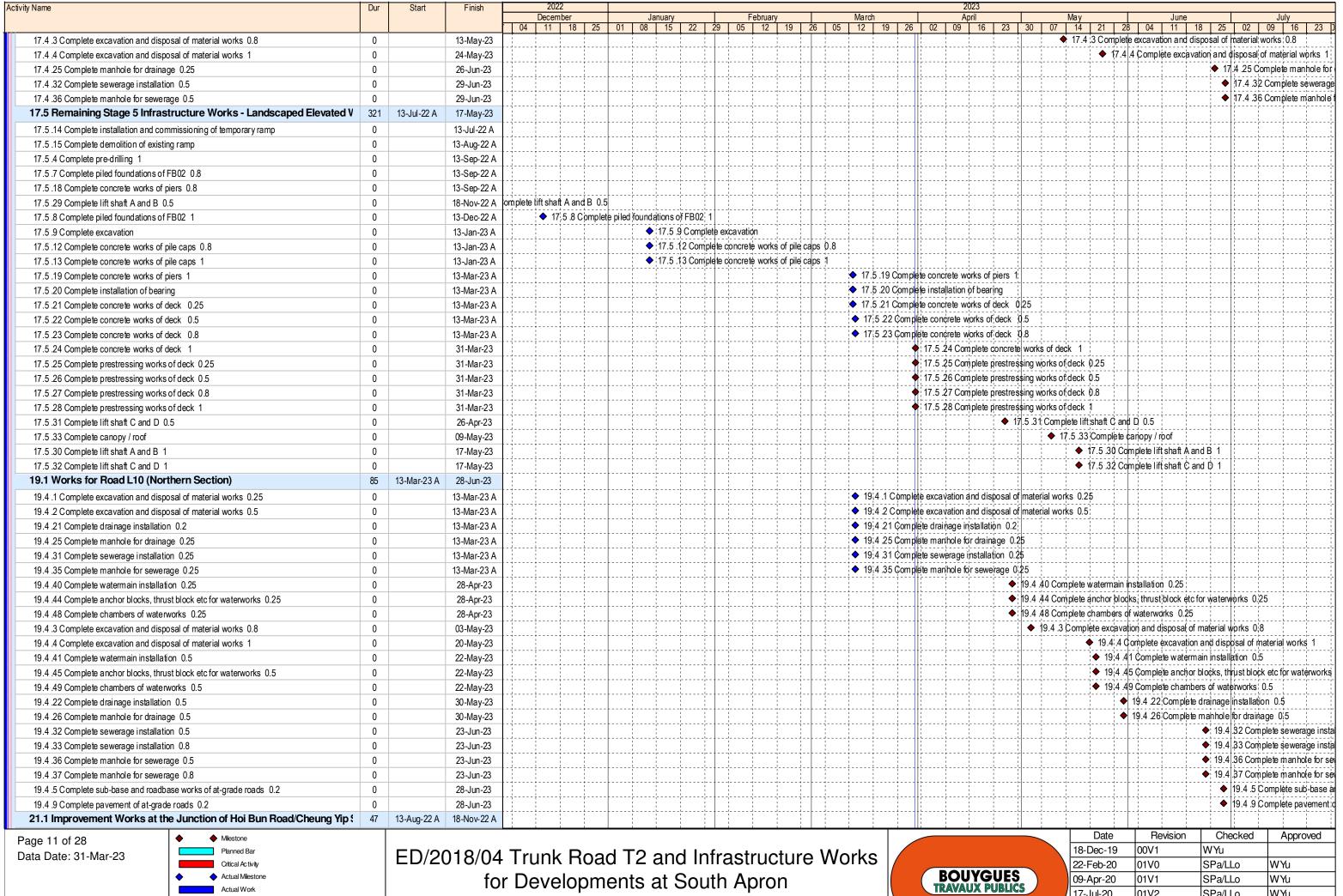
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



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| | 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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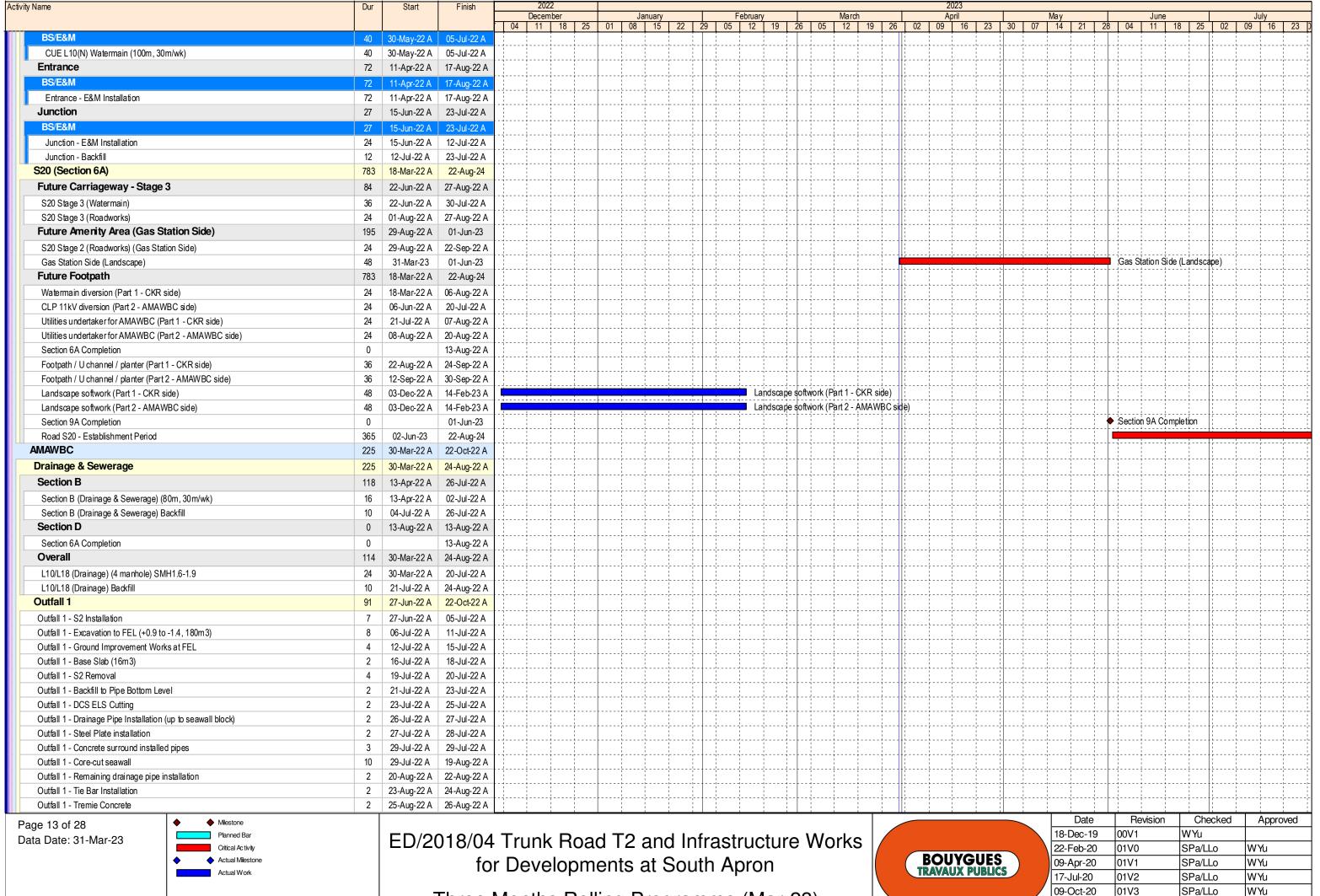
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| vity Name | Dur | Start | Finish | | 2022 December | Jar | nuary | Februar | V | | March | | 1 | 2023 April | <u> </u> | 1 | Mav | | | June | | Julv | v |
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| 21.1 .15 Complete T&C of drainage and waterworks system | 0 | | 13-Aug-22 A | | _ | | | | <u>ii.</u> | | i. | İ | 11 | | | | | | Lii. | | | | |
| 21.1 .12 Complete road marking, traffic sign and traffic signal installation | 0 | | 13-Sep-22 A | | | | | <u> </u> | <u> </u> | <u> </u> | | ! | | | | | <u> </u> | | Lii. | | .ili | <u>l</u> . | |
| 21.1 .16 Complete whole activities of this cost centre | 0 | | 18-Nov-22 A | om ple te | whole activities of thi | s cost centre | | lii | jj | | | İ | | .ii. | | .ili. | | | Lii. | | .ili | L | |
| 21.3 Establishment Works for Improvement Works at the Junction of F | 67 | 31-Mar-23 | 26-Jun-23 | 1 | | | | | | | | | | | | | 1 | | | ! | | : : | |
| 21.3.1 Complete establishment works for 3 mths completion of softworks | 0 | | 31-Mar-23 | | | | | | | | | | 21.3 | 1 Comple | te establis | nment wc | rks for 3 m | ths completion | on of softw | orks ; | 1 | | |
| 21.3.2 Complete establishment works for 6 mths completion of softworks | 0 | | 26-Jun-23 | | | | | | 1 | | | | 11: | | | | | | | | ◆ 21.3 .2 Co | mplete e | establish |
| 22.1 Pipelines for District Cooling System for Commissioning of AMAW | 0 | 13-Jul-22 A | 13-Jul-22 A | | | | | | | | · | - | 11: | · i i | | | | | [] | · | †† | - - | |
| 22.1.6 Complete whole activities of this cost centre 1 | 0 | | 13-Jul-22 A | | | | | | | | · | | 11: | | | | | | [- - | | | - - | |
| 22.2 Remaining Pipelines for District Cooling System Other Than for C | 126 | 13-Oct-22 A | 17-May-23 | | | | | | | | | <u>+</u> | 11: | L L - | | | | | | | | | |
| 22.2.1 Complete DCS installation length 0.2 | 0 | | 13-Oct-22 A | | | | | | | | | | 1 | | | | | | - | | | | |
| 22.2.2 Complete DCS installation length 0.5 | 0 | | 13-Jan-23 A | | | | 22 2 2 Complet | e DCS installation | : ; : enath:0! | | | | ## | | | | ! | - | - | | | r | |
| 22.2.3 Complete DCS installation length 0.8 | 0 | | 17-May-23 | | | | | | | f | · | | | | | | | 22.2.3 Con | nolete DCS | installation | Jenath 0.8 | r | |
| 34.1 Common Utilities Enclosure (CUE) under Section 6A of the Works | 0 | 31-Mar-23 | 31-Mar-23 | | | | | | | | | | ## | | | | | 22.2.0001 | I I I I I I I I I I I I I I I I I I I | | 1019110.0 | | |
| · · · · · · · · · · · · · · · · · · · | - | 31-Wai-23 | 31-Mar-23 | | | | | | | | | | 2/ 1 | 15 Compl | oto draina | an in stalls | ation of CUE | | - | | | F | |
| 34.1.15 Complete drainage installation of CUE 1 34.1.16 Complete ventilation installation of CUE 1 | 0 | | 31-Mar-23 | | | | | | | | | ! | 111 | . ' '.' . | ' | <u></u> | llation of CU | ' ' | | | | | |
| • | 0 | | 31-Mar-23 | | _ | | | | | | | | | | | | | nstallation of | CUE 1 | ! | | L L - | |
| 34.1.17 Complete power supply and lighting installation of CUE 1 | - | | | | | | | | | | | | 446 | . j j-"- | ; | | of this cost | ; | COE | | | - - | |
| 34.1.19 Complete whole activities of this cost centre 1 | 0 | 40.400.4 | 31-Mar-23 | | | | | | | | | | 34.1. | . 19 Compi | ete whole | activities (| OI IIIS COST | centre i | | | | | |
| 34.2 Common Utilities Enclosure (CUE) under Section 13 of the Works | 181 | 13-Aug-22 A | - | | | ļļļ | | | ļļ | ļļļ | · - | | 44 | . - | | | | | | | - | <u> </u> | |
| 34.2.4 Complete concrete works of base slab of CUE 0.5 | 0 | | 13-Aug-22 A | | _ | ļ | | | ļļ | ļļi | | | ## | | | | | . | J | | | ļļ. | |
| 34.2.8 Complete concrete works of walls of CUE 0.5 | 0 | | 13-Oct-22 A | UE 0.5 | - + + + | | | ļ | ļļ | | · | | 11. | | | 4 | | | - | | | } <u>-</u> | |
| 34.2.12 Complete concrete works of top slab of CUE 0.5 | 0 | | 13-Oct-22 A | of CUE | 0.5 | | | | ļļ | | | | 11. | . | | | | | | | | | |
| 34.2.2 Complete excavation of CUE | 0 | | 13-Jan-23 A | | | L - - | ; ; | e excavation of C | | | | | II | | | | | | ļii. | | | ļ | |
| 34.2.6 Complete concrete works of base slab of CUE 1 | 0 | | 13-Jan-23 A | | | . • . | 34.2 .6 Complet | e concrete works | of base sla | ab of CUE | 1 : | ! | 11: | | | | | | L | | | ļļ. | |
| 34.2.5 Complete concrete works of base slab of CUE 0.75 | 0 | | 13-Jan-23 A | | | ♦ | 34.2.5 Comple | te concrete work | of base s | lab of CUE | 0.75 | | | | | | | | | | | | |
| 34.2.9 Complete concrete works of walls of CUE 0.75 | 0 | | 13-Feb-23 A | | | | | + | | lete con cre | | | - + | | | | | | | | 1 1 | ļ | |
| 34.2.10 Complete concrete works of walls of CUE 1 | 0 | | 13-Feb-23 A | | | | | ♦ 34 | 2 .10 Con | plete conc | rete wor | rks of wall | s of CUE | 1 | | | | | Lilli | | | | |
| 34.2.13 Complete concrete works of top slab of CUE 0.75 | 0 | | 13-Feb-23 A | | | | | ♦ 34 | ¦2 .13 Çon | plețe con¢ | rete wor | rks of top | slab of C | ŲE 0.7 ₅ | | | } | | | | | | |
| 34.2.14 Complete concrete works of top slab of CUE 1 | 0 | | 13-Feb-23 A | L.j | <u> </u> | | | ◆ 34 | 2 .14 Con | plete conc | rete wor | | 116 | | | .ilj. | <u>j</u> | | Lii. | | _ili | L | |
| 34.2.15 Complete drainage installation of CUE | 0 | | 31-Mar-23 | | | | | | | | | - | 34.2 . | 15 Compl | ete draina | je installa | ation of CUE | <i>=</i> | | ! | | | |
| 34.2.17 Complete power supply and lighting installation of CUE | 0 | | 31-Mar-23 | | | | | | | | | | 34.2 | 17 Compl | ete power | supply ar | nd lighting in | nstallation of | CUE | | | | |
| 34.2.18 Complete backfill to ground level of CUE | 0 | | 03-May-23 | | | | | | | | | | | | | ♦ 34 | 1.2 .18 Com | plete backfil | II to ground | level of CU | 准 | | |
| 35 Services Gallery | 277 | 13-Sep-22 A | 27-Jun-23 | | 1 1 1 | | 1 1 | | | | | | | | | | | | | | | | |
| 35.18 Complete 60% of total length (measured on plan) of SG structures in Drill-and-Break | 0 | | 13-Sep-22 A | Drill-an | d-Break and Drill-and | Blast Tunnel | | 11 | | | | | 11: | | | | | | | | : | | |
| 35.21 Complete 10% of total length (measured on plan) of Services Gallery structures and ε | 0 | | 13-Sep-22 A | structu | res and ancillaries in | TBM Tunnel | | | | | · | i | 11: | · | | | | -ii | | · | · † † | | · |
| 35.34 Complete 100% of total volume (measured on plan) of excavation for Lower Basemer | 0 | | 13-Sep-22 A | Lower | Basement of East Ver | tilation Buildin | g | | | | | | 11: | | | | | | [-: | | : | | |
| 35.35 Complete concreting works of 25% of the total gross plan area for the Lower Basemer | 0 | | | | gross plan area for the | L | | tilation Building | ii | | · | | 11: | i i - | | | | | [| | · | | · |
| 35.22 Complete 20% of total length (measured on plan) of Services Gallery structures and ε | _ | | | |)% of total length (mea | h | | l | nd ancillari | es in TBM | Tunnel: | | 11: | · | | | | | [| | | | |
| 35.23 Complete 30% of total length (measured on plan) of Services Gallery structures and ε | _ | | 13-Dec-22 A | | ◆ 35.23 Complete | F | | ļ J | | | | ncillaries ir | n TBM Tu | ın nel | | | | | | <u>i</u> | | <u>L</u> - | |
| 35.36 Complete concreting works of 50% of the total gross plan area for the Lower Basemer | | | 13-Dec-22 A | | ◆ 35.36 Complete | L | | l;; i; | | F | . - | | 44 | | | | | | - | | | | |
| 35.24 Complete 40% of total length (measured on plan) of Services Gallery structures and ε | | | 13-Jan-23 A | | | L L | | 40% of total lend | | | | | 444 | | | in TBM T | unnel | | | | | r | - - |
| 35.14 Complete 80% of total length (measured on plan) of SG excavation in Drill-and-Break | 0 | | 13-Feb-23 A | | | | | 1 | ' | L <i>i</i> i | <u></u> | | 112 | | | | | k and Drill-ar | nd-Blast Tu | innel : | | | |
| 35.9 Approval of DDA submission for Services Gallery E&M design by the SO | 0 | | 13-Mar-23 A | | | } | | | 7.14 0011151 | L | | | 11 | . ' ' ' | ' | _'- | ' | sign by the S | | | | r | |
| 35.19 Complete 80% of total length (measured on plan) of SG structures in Drill-and-Break | 0 | | 13-Mar-23 A | | | | | | | | | : | | | | -11 - 3 | | - J | 4 4 _ | ⊰roak and D | - ¦ ¦ ri∦-and-Blast Tι | in nel | |
| | - | | 13-Mar-23 A | | | | | | - | | | | ++ | | | | | | | | ries in TBM Tur | | |
| 35.25 Complete 50% of total length (measured on plan) of Services Gallery structures and a | _ | | | | | | | | - | | + - | | +++ | | | -!! | | | | | ries in TBM Tur | | |
| 35.26 Complete 60% of total length (measured on plan) of Services Gallery structures and ε | | | 13-Mar-23 A | | | | | | | | | + | | · | <u>-</u> | | | | | | -++ | H H - | |
| 35.37 Complete concreting works of 75% of the total gross plan area for the Lower Basemer | _ | | 13-Mar-23 A | | | }} | | | | | V 3013 | | 442 | | | -(| | | | | ast Ventilation | | |
| 35.15 Complete 100% of total length (measured on plan) of SG excavation in Drill-and-Brea | | | 31-Mar-23 | | | | | | ļļ | | <u> </u> - | | 30.10 | Complete | = 100% OI | colar lengt | in (measure | - | | | ill⊦and-Breakar | | |
| 35.27 Complete 70% of total length (measured on plan) of Services Gallery structures and ε | | | 02-Jun-23 | | | | | | | | | | 11: | | | | | | ₩ 35.21 | Jomplete 70 | 0% of total leng | | |
| 35.38 Complete concreting works of 100% of the total gross plan area for the Lower Basemi | | 07.11 | 27-Jun-23 | ļ | | ļļ | | | - | | - | | # | | | | | | | | ◆ 35.38 Co | rubiete c | concret |
| SOUTH APRON EXTERNAL WORKS | 972 | 07-Mar-22 A | 09-Apr-25 | | | | | | | | | | 11 | | | | | | | | | | |
| Road S20 | 783 | 18-Mar-22 A | 22-Aug-24 | | | | | | | | | | | | | | | | | | | | |
| CUE (Section 6A) | 97 | 11-Apr-22 A | 17-Aug-22 A | | | | | |] | [] | ! | | 115 | | | | | | | | | | |
| CKR Crossing | 40 | · | | - <u> </u> | - | | | | ii | <u> </u> | · | | 11: | · | | | | | r-ii- | · | · i i | ; | |
| 1 | | JU MAJ ZZ I | JU JUI LET | <u> </u> | | | <u> </u> | | <u> </u> | | i | 1 | <u> 11:</u> | <u> </u> | | <u> </u> | - | Dete | + - | iniera T | Charles | | |
| age 12 of 28 | , | | | | | | | | | | | | | | | | <u> </u> | Date | | vision | Checked | A p | pprove |
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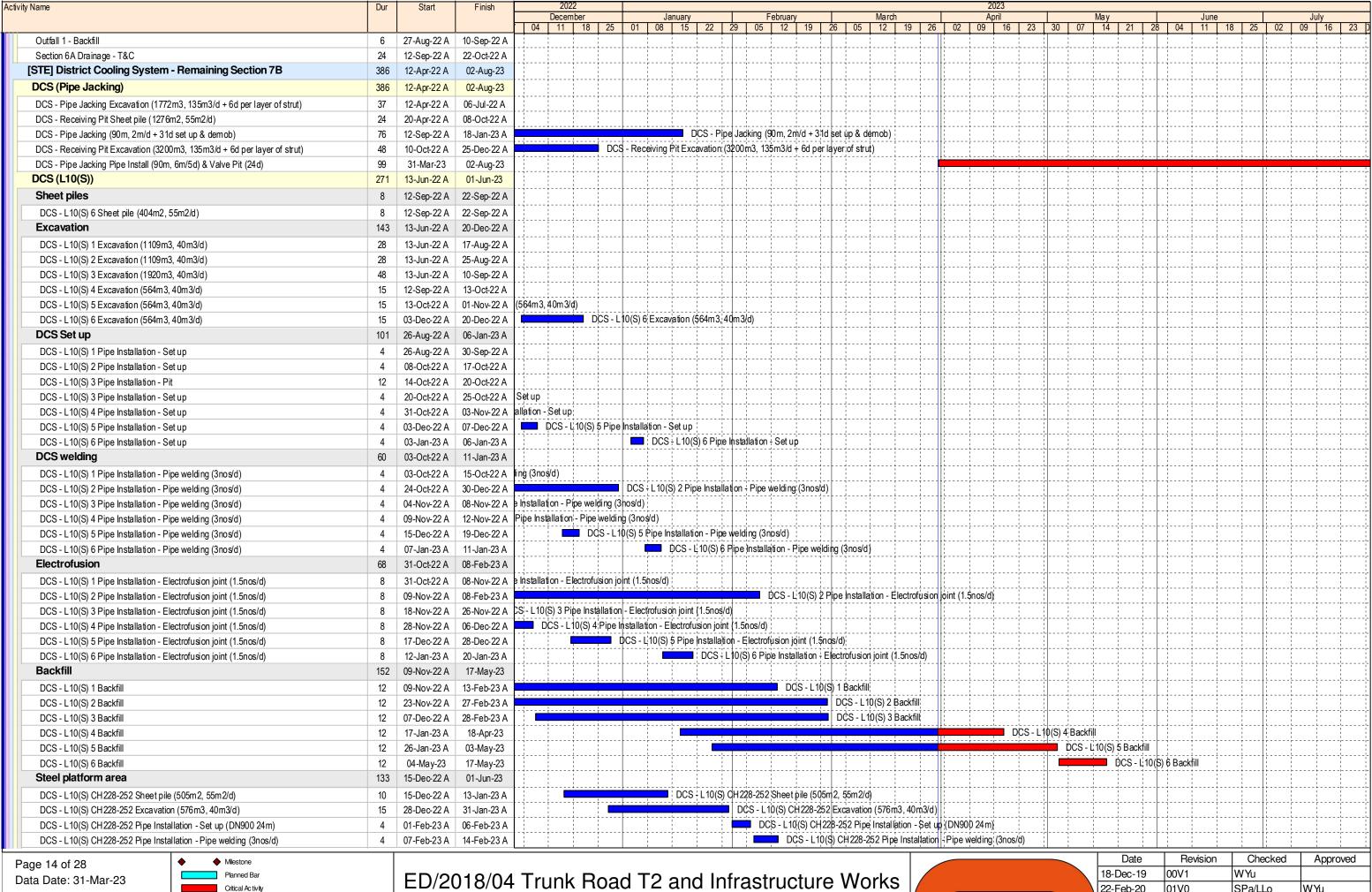


Three Months Rolling Programme (Mar-23)

02-Jul-21

SPa/LLo

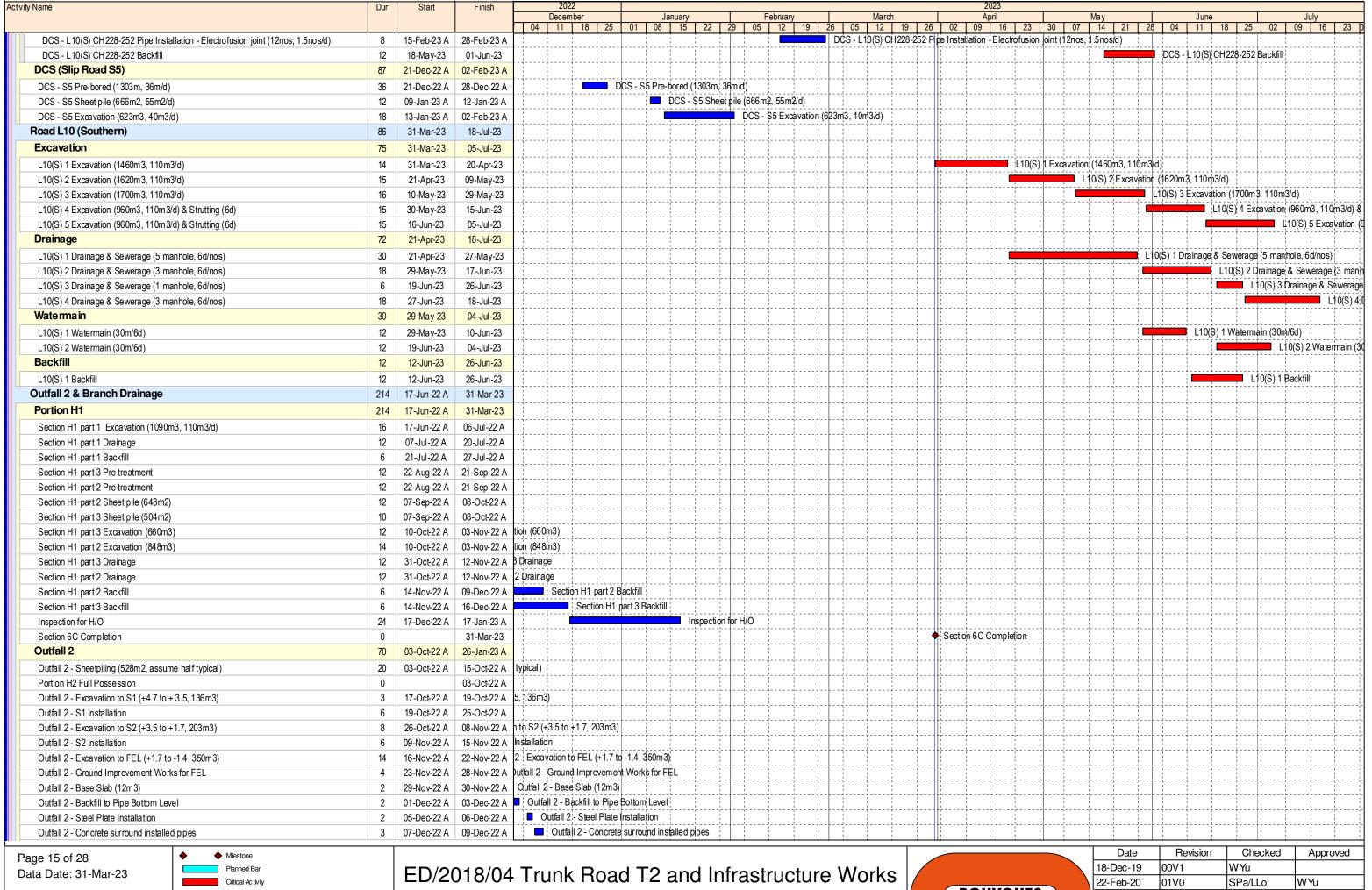
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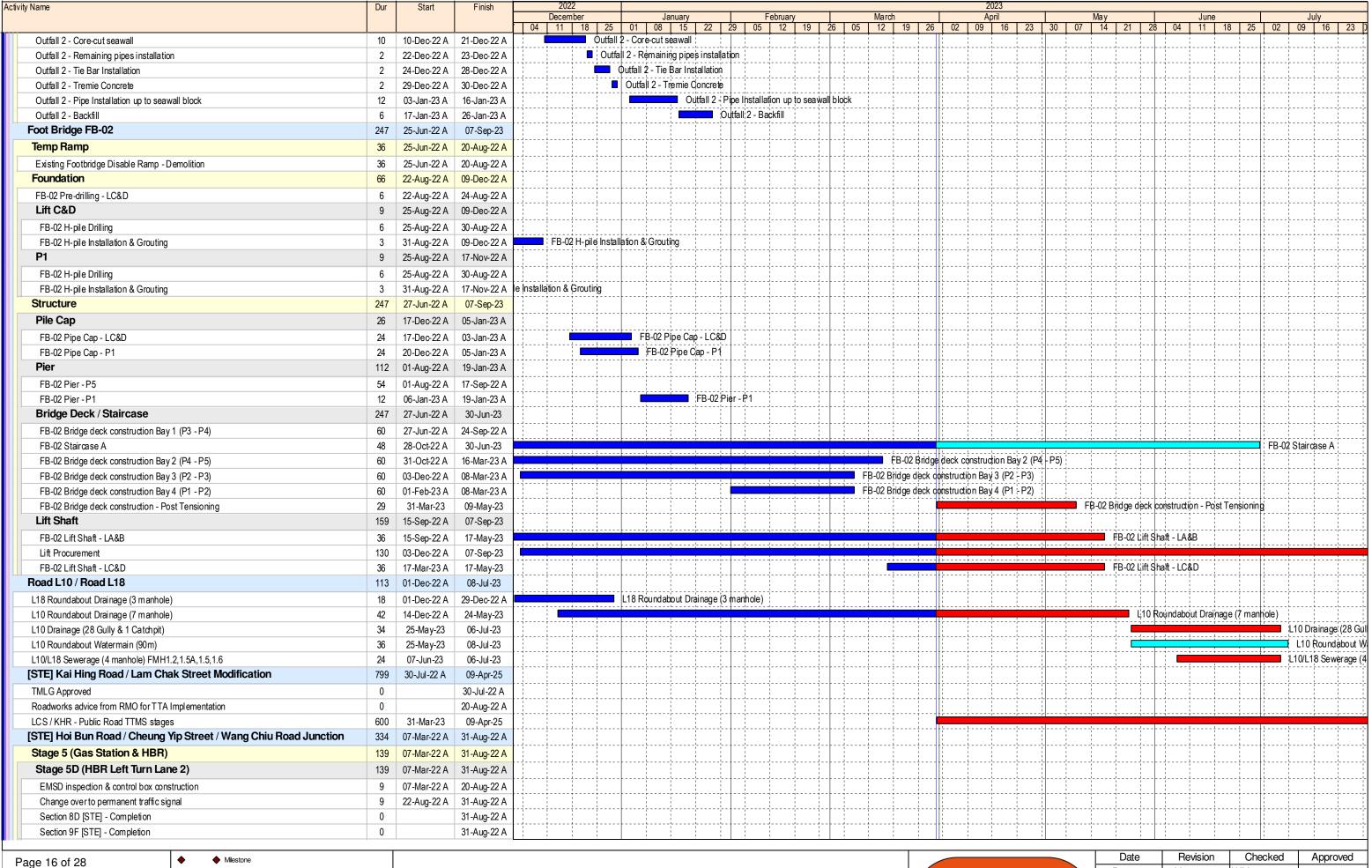
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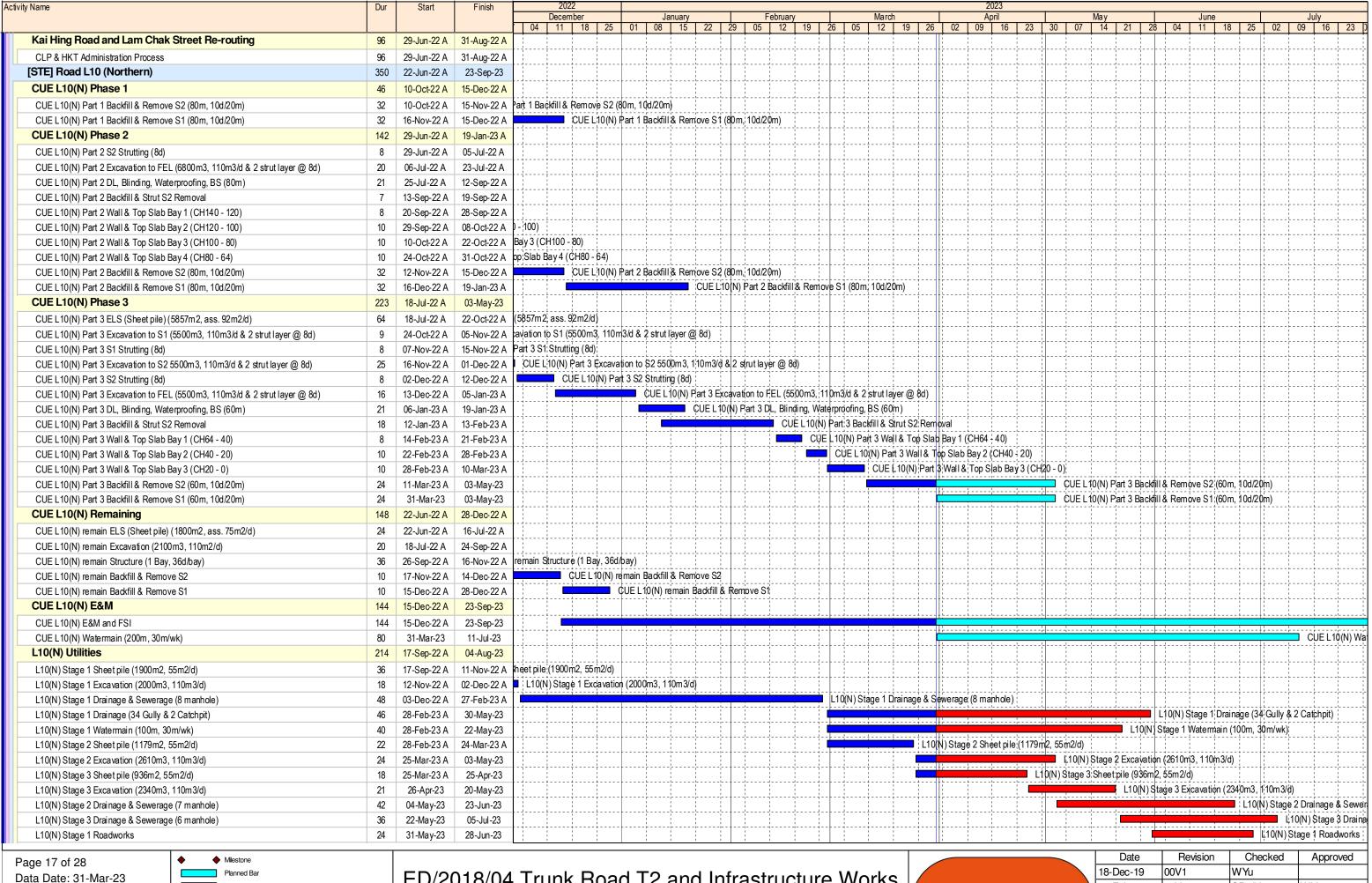
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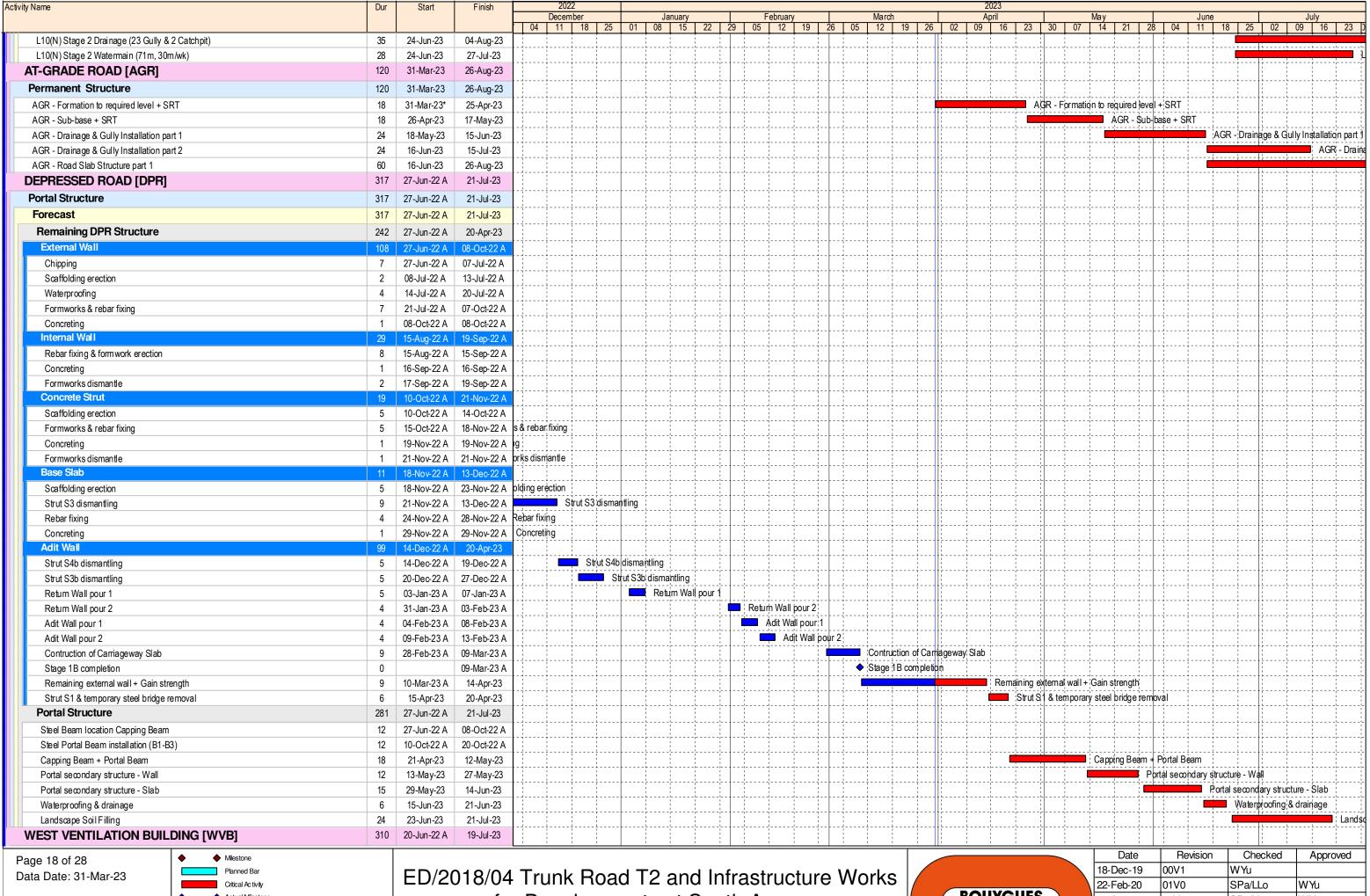
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Planned Bar
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ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron



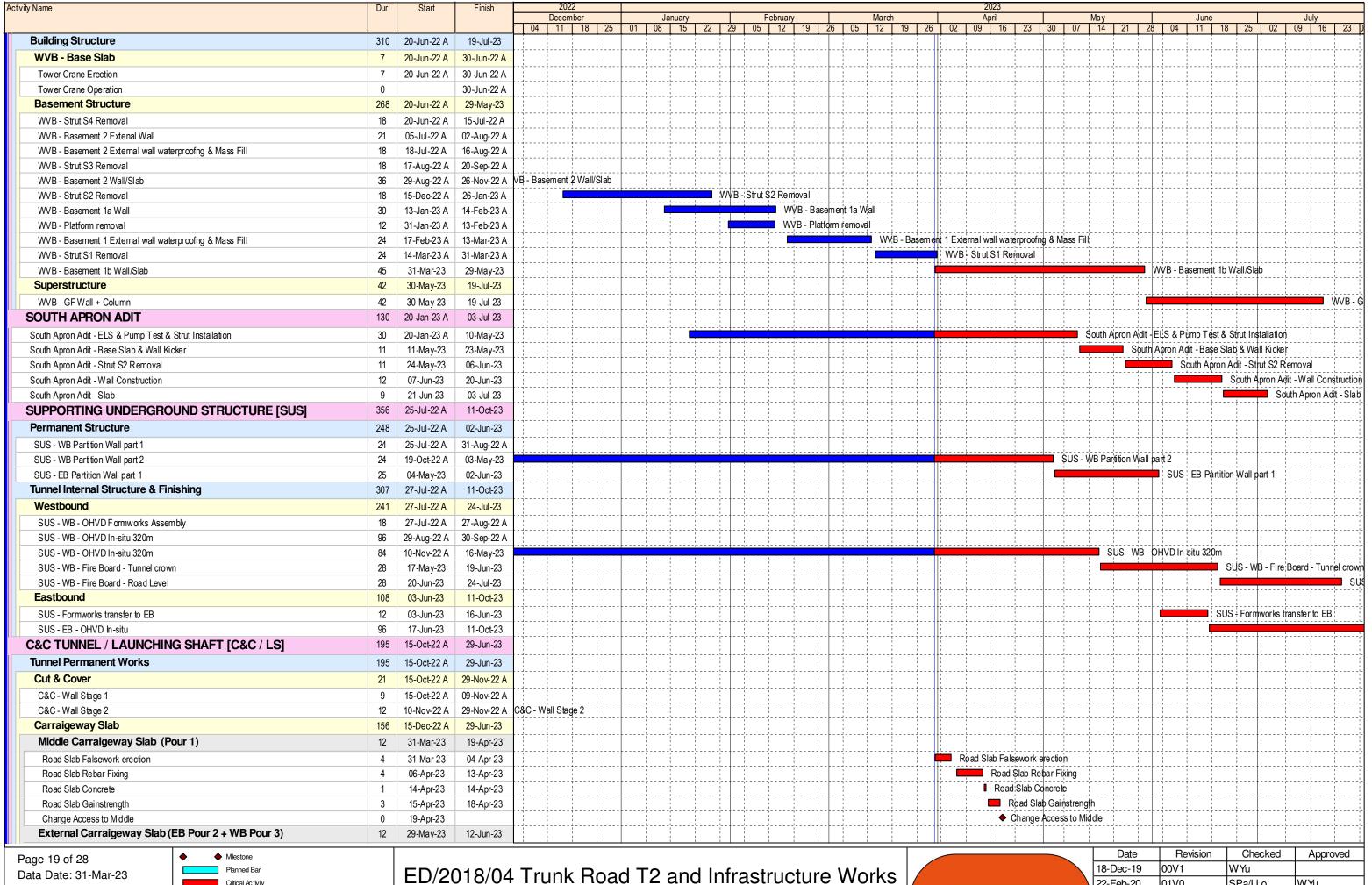
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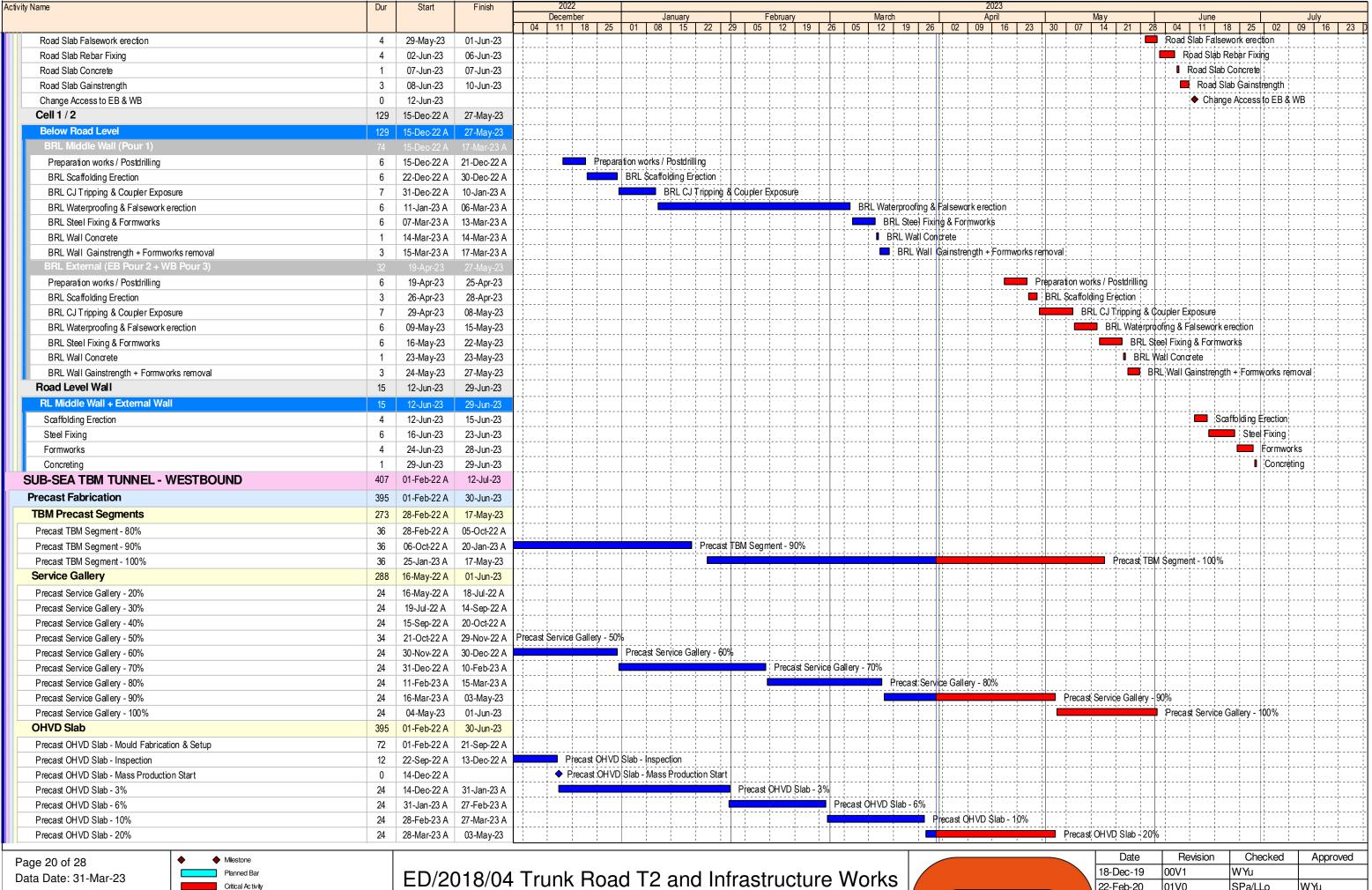
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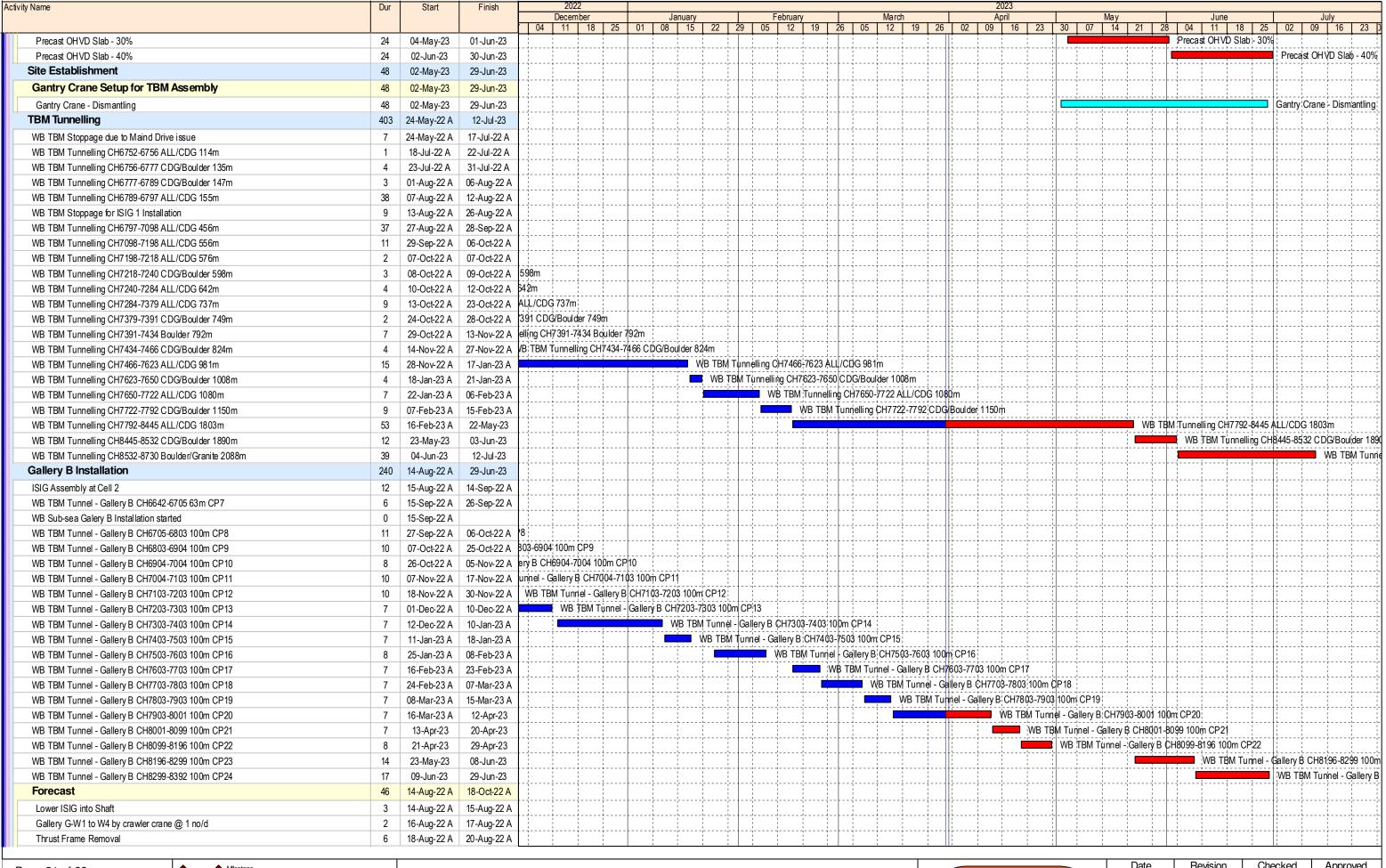
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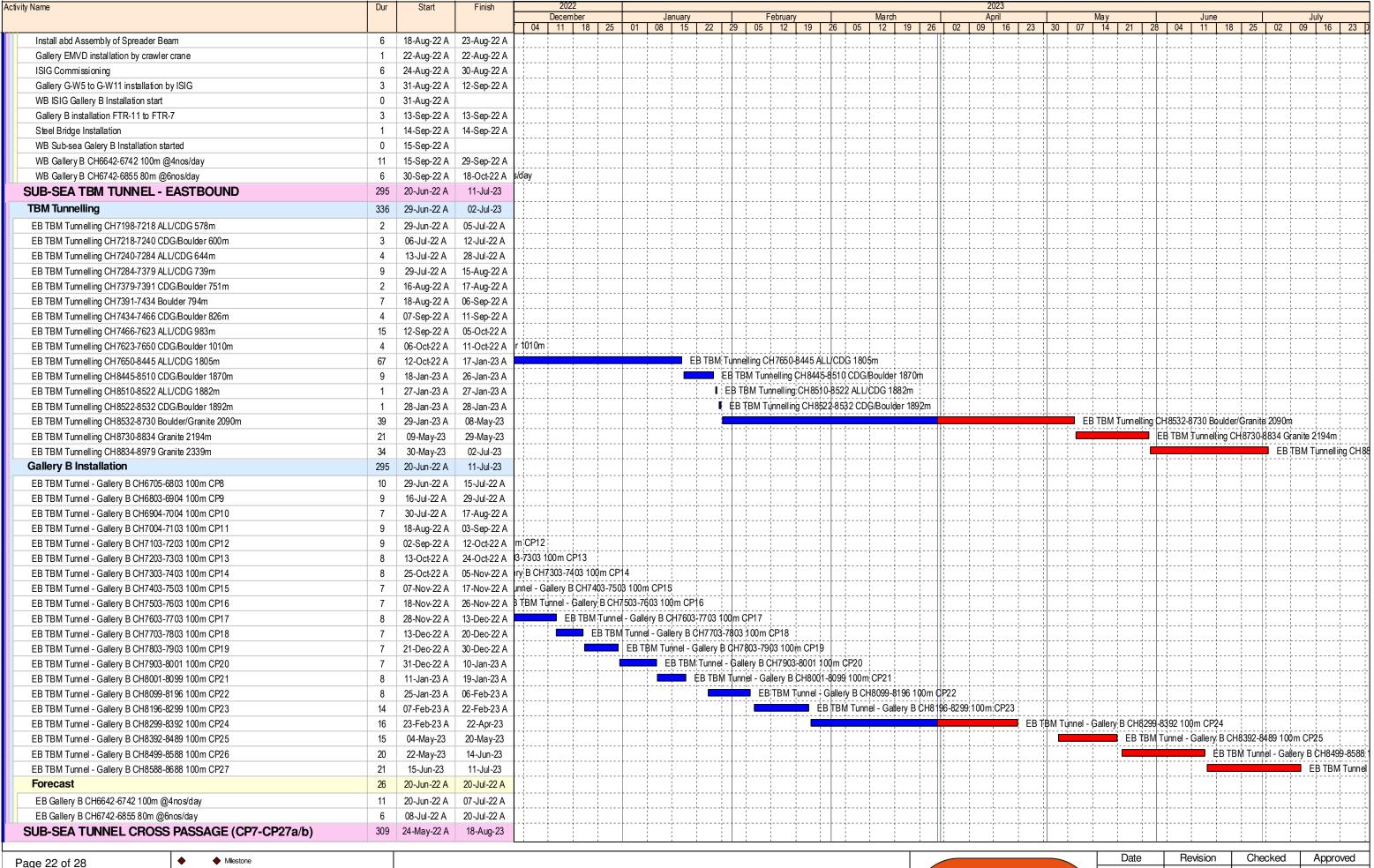
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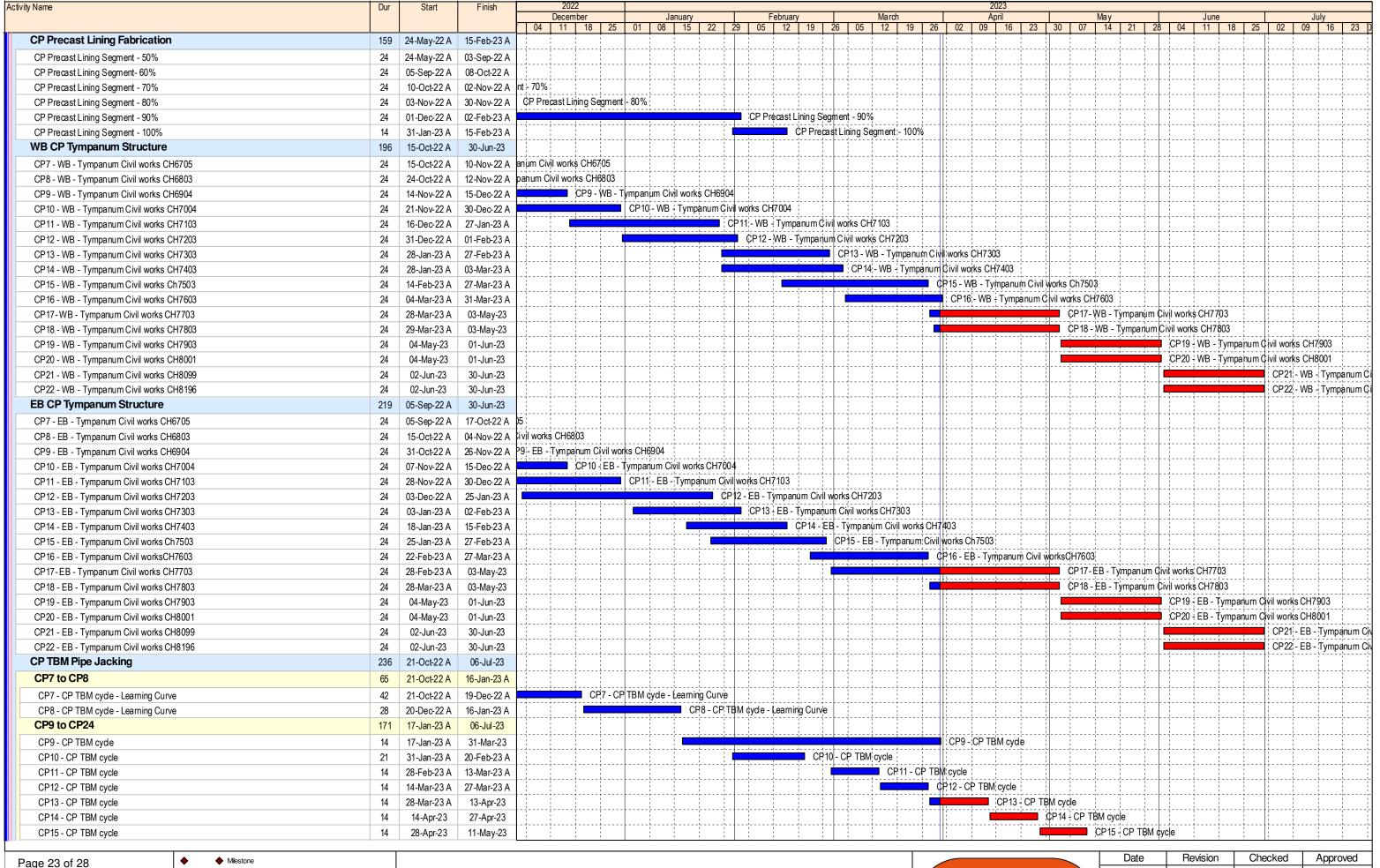
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| | 18-Dec-19 | 00V1 | WYu | | | | |
| | 22-Feb-20 | 01V0 | SPa/LLo | WYu | | | |
| | 09-Apr-20 | 01V1 | SPa/LLo | WYu | | | |
| / | 17-Jul-20 | 01V2 | SPa/LLo | WYu | | | |
| / | 09-Oct-20 | 01V3 | SPa/LLo | WYu | | | |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu | | | |
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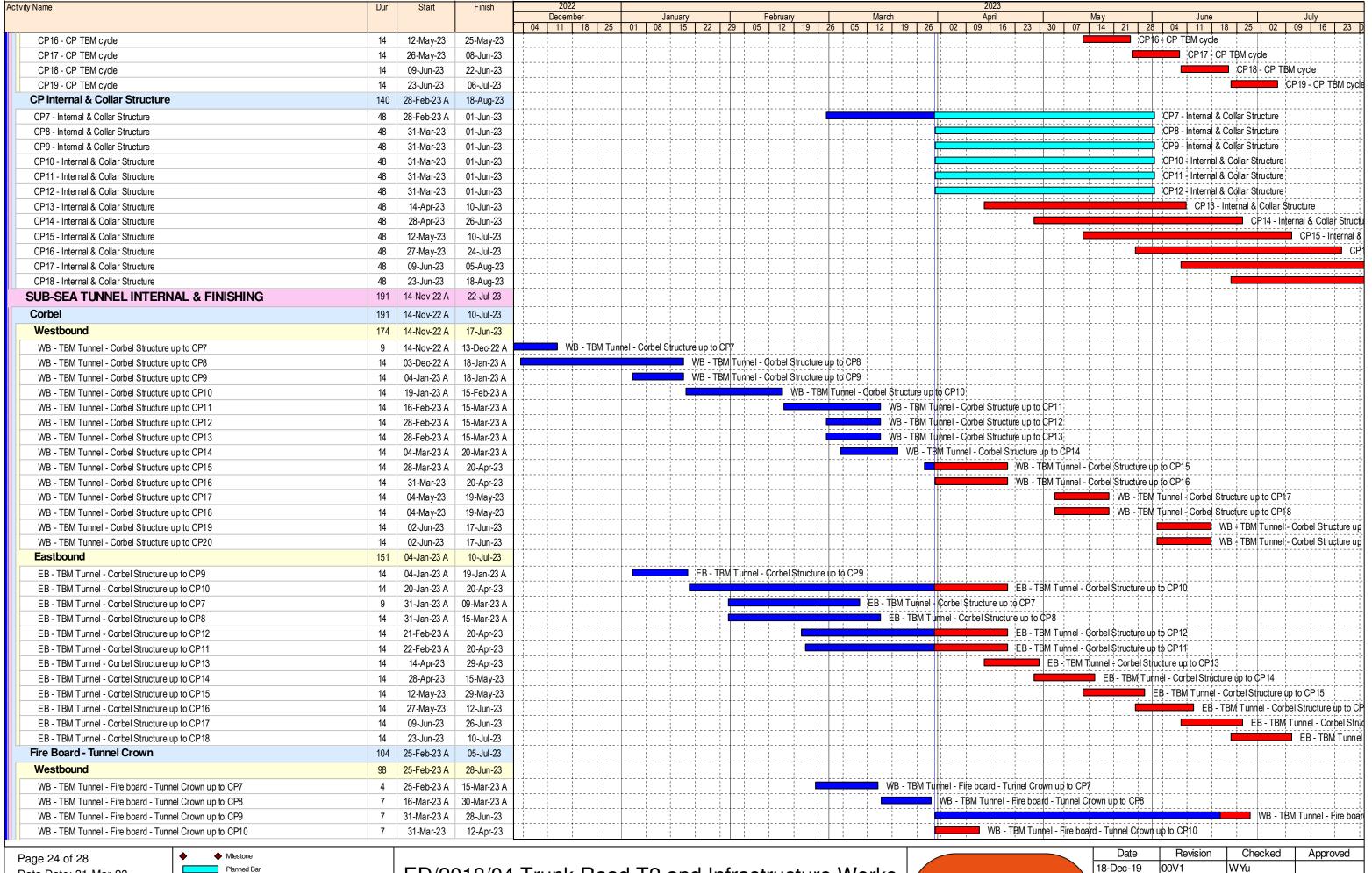
Data Date: 31-Mar-23



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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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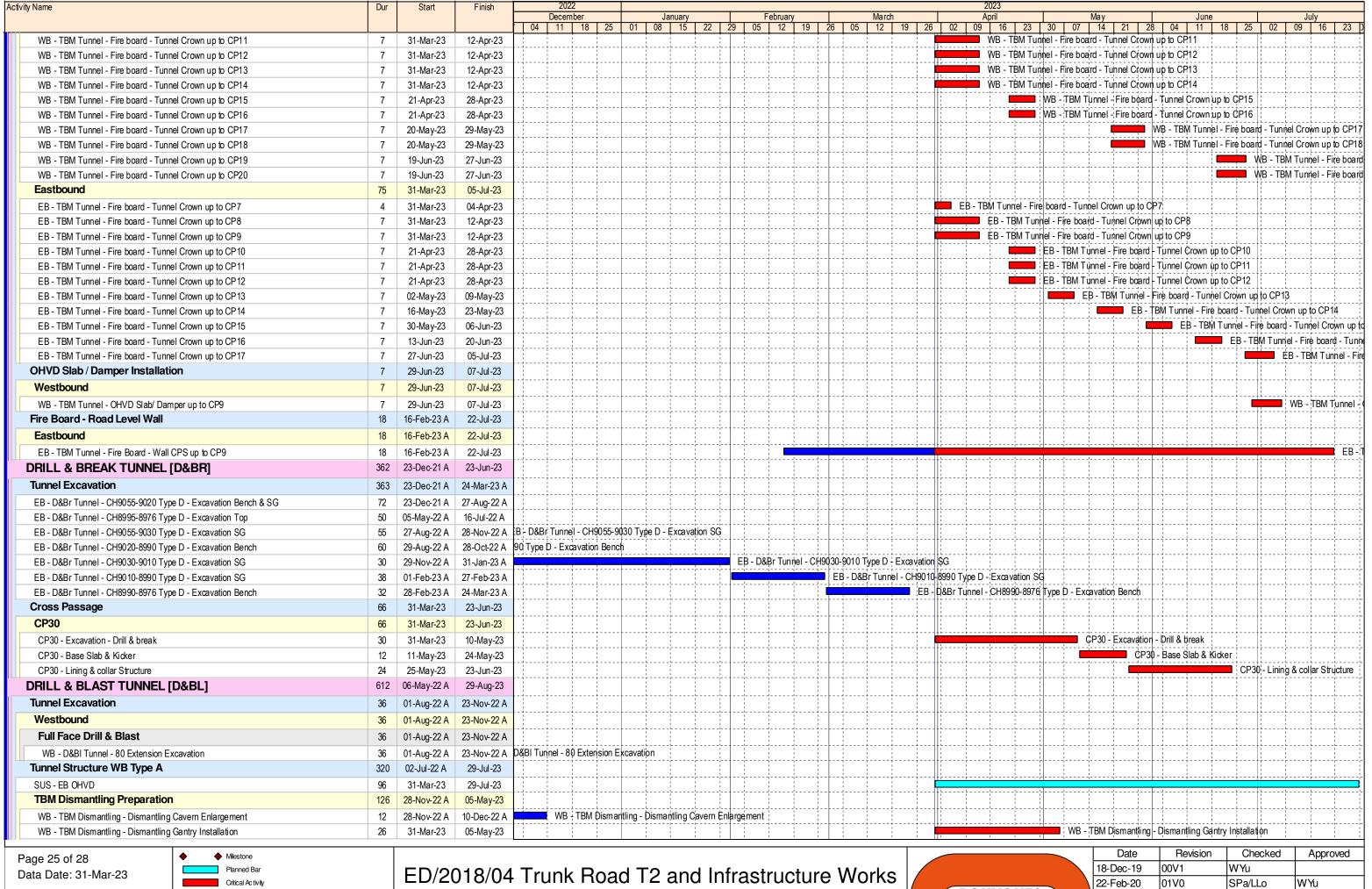
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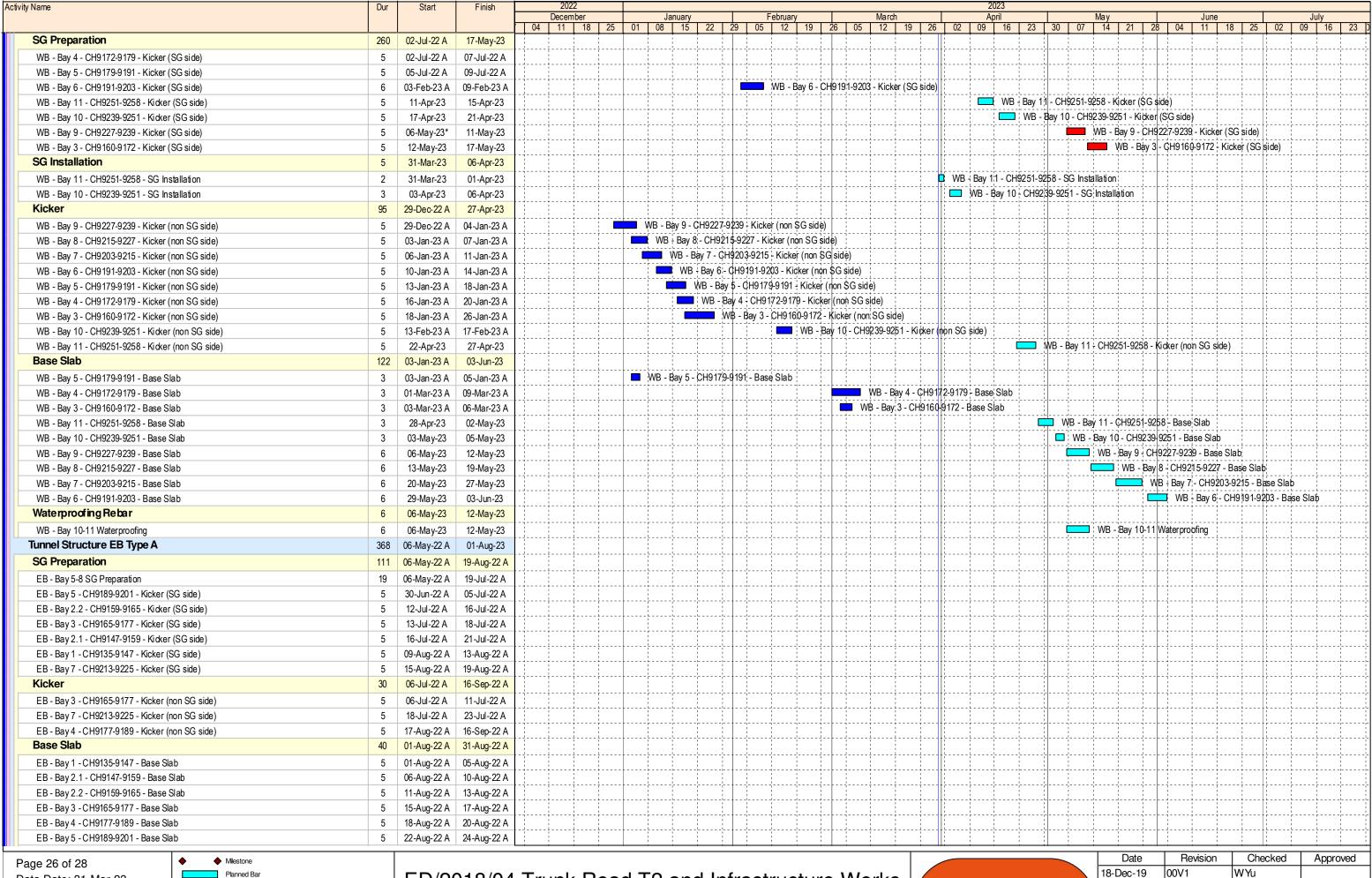
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| | 18-Dec-19 | 00V1 | WYu | |
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| / | 09-Oct-20 | 01V3 | SPa/LLo | WYu |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu |
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| / | 17-Jul-20 | 01V2 | SPa/LLo | WYu | | |
| / | 09-Oct-20 | 01V3 | SPa/LLo | WYu | | |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu | | |
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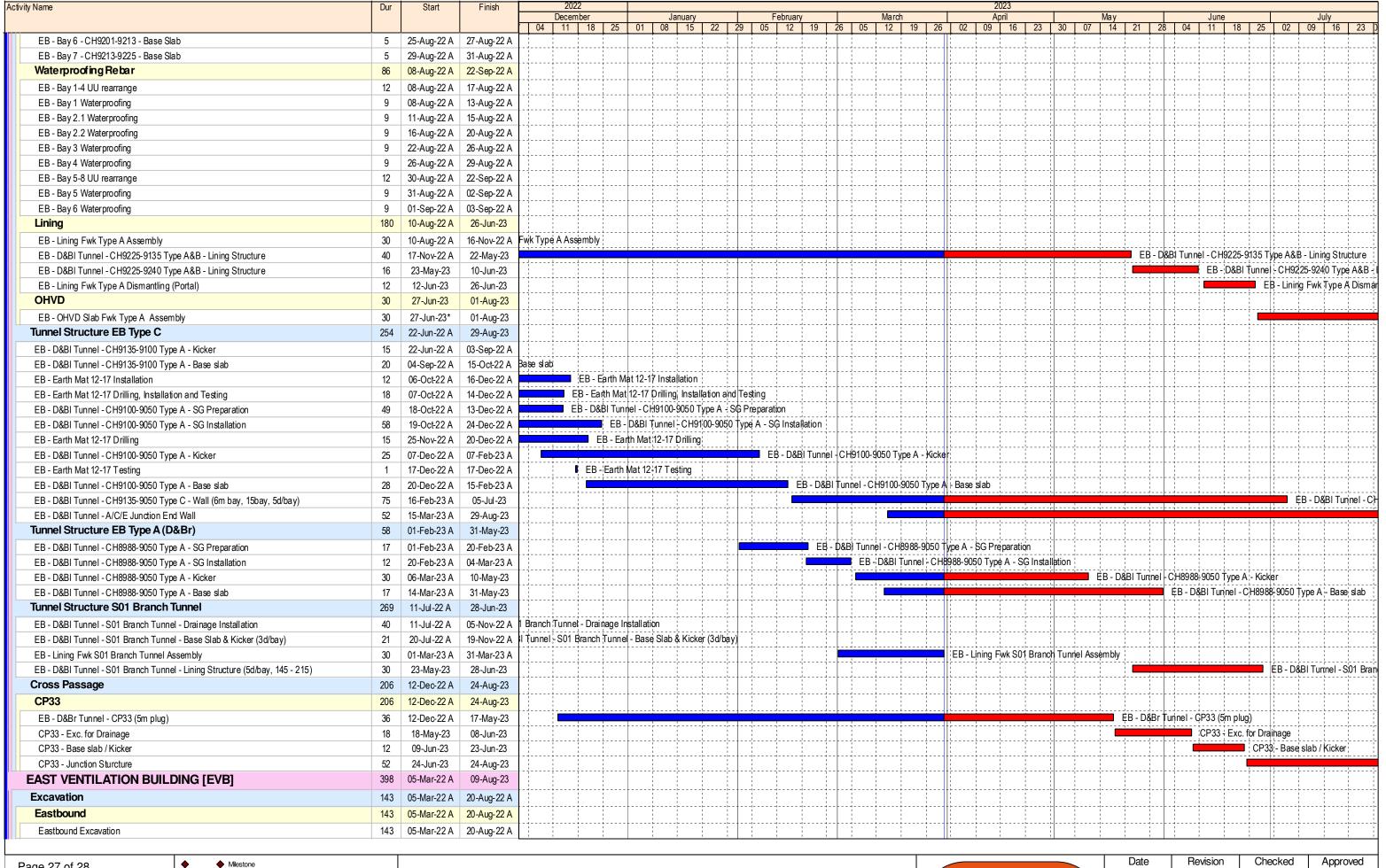
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Planned Bar
Critical Activity
Actual Milestone
Actual Work

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| | Date | Revision | Checked | Approved | | |
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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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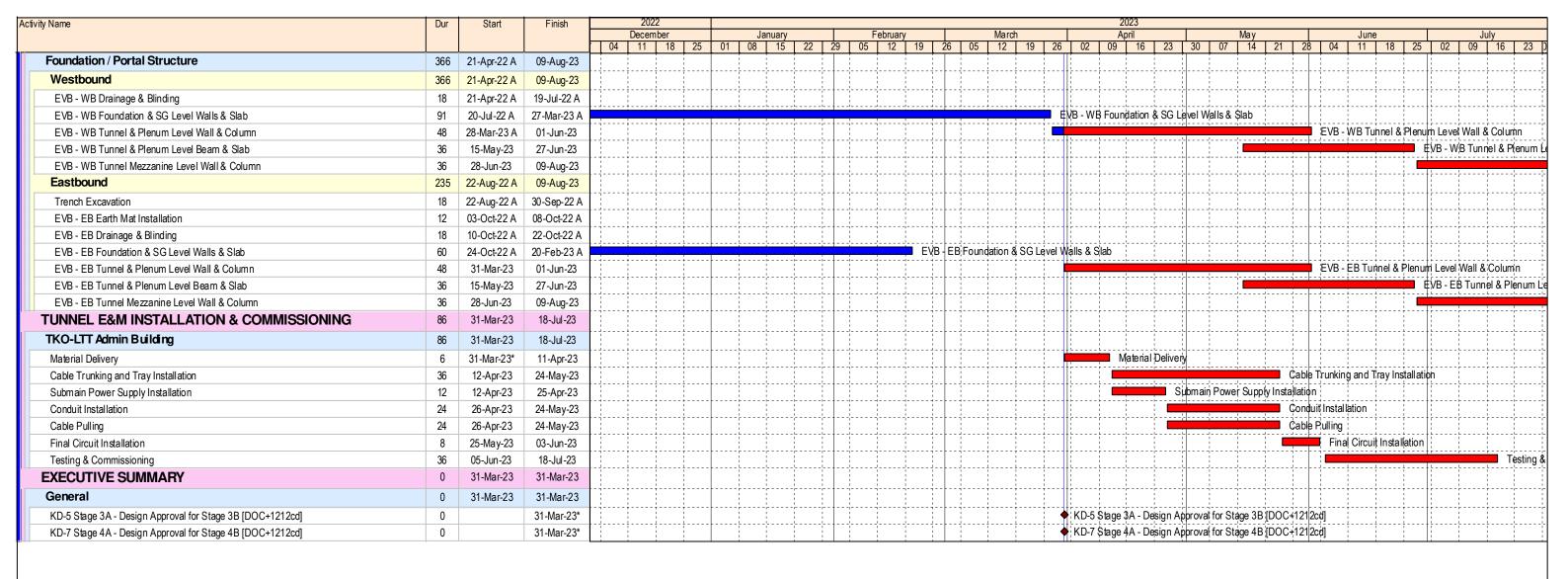
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| | 17-Jul-20 | 01V2 | SPa/LLo | WYu |
| / | 09-Oct-20 | 01V3 | SPa/LLo | WYu |
| | 02-Jul-21 | 02V0 | SPa/LLo | WYu |
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