Civil Engineering and Development Department

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

January 2022 (Version 1.0)

Approved By

(Environmental Team Leader:

Mr. KS Lee)

REMARKS:

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

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

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Ref.: CEDKTDT2EM00 0 0323L.22

14 February 2022

Hyder-Meinhardt Joint Venture 17/F, Two Harbour Square 180 Wai Yip Street, Kwun Tong By Post and Email

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 (January 2022) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for January 2022 (Version 1.0) certified by the ET Leader and provided to us via e-mail on 14 February 2022. We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

The ET Leader is reminded that it is the ET's responsibility to ensure the report be timely submitted to the Director of Environmental Protection as per Condition 3.4 of EP-451/2013.

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

Yours sincerely, For and on behalf of

Ramboll Hong Kong Limited

Y H Hui

Independent Environmental Checker

C.C.

CEDD

Attn.: Mr. Tommy Wong

Fax: 2739 0076

BTP

Attn.: Mr. Ivan Chau

By email

Cinotech

Attn.: Mr. K. S. Lee

Fax: 3107 1388

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EXECUTIVE SUMMARY

Introduction

1. This is the 23rd Environmental Monitoring and Audit (EM&A) Report prepared by the Environmental Team (ET), Cinotech Consultants Ltd., for "Trunk Road T2". This report summarized the monitoring results and audits findings of the EM&A programme under the issued Environmental Permit (EP) No. EP-451/2013 and in accordance with the EM&A Manual (AEIAR-174/2013) during the reporting month of January 2022.

Summary of Main Works Undertaken and Key Measures Implemented

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

Kai Tak:

- Road L10 (North) Excavation, ELS and RC Structure
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM Shifting way & Rails installation
- TBM WB & EB TBM Thrust Frame installation
- STP Assembly
- STP Testing & Commissioning
- 2nd Segment Yard Gantry Crane Erection
- Foot Bridge (FT-02) H pile installation, Pile Cap Construction and Temporary Ramp Construction
- Mortar Plant assembly
- District Cooling System works at Section 6B and 7A
- Depressed Road- Capping Beam, Remaining DPR/SUS connection
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building Excavation, Steel Strut Installation
- Section 6A RC Structure
- Westbound and Eastbound TBM break-in
- Road S20 / AMAWBC Road & Drain
- Tunnel Segment Delivery
- Workshop Assembly
- 3. Implementation of the key mitigation measures during the reporting period are as follows:

Air Quality

- Water spraying regularly on construction site area to avoid dust generation.
- Excavated dusty materials were covered by impervious sheets.

Noise

- Air compressor was operated with door closed and have valid noise labels.
- Use of Quality Powered Mechanical Equipment (QPME)
- Erecting noise barriers on site to minimize noise impact generated from breaking activities.

Water Quality

• WetSep was constructed to treat the surface runoff prior to discharge.

Landscape and Visual

• Tree protection zone were fenced off to protect the existing tree.

Summary of Exceedances, Investigation and Follow-up

4. Exceedance of Action/Limit levels during the reporting month (January 2022) and the investigation results and/or follow-up actions:

Air Quality Monitoring

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

Construction Noise Monitoring

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

Landscape and Visual Monitoring and Audit

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

Complaint Handling, Prosecution and Public Engagement

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

E-vo-4	Event Details		Follow-up/	Status/
Event	Number	Brief Description	Remedial Actions	Remarks
Complaints Received	0	-	-	-
Notification of				
Summons and	0	-	-	-
Prosecutions Received				
Public Engagement	0			
Activities	U	-	-	-

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

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

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

Site Activities (February 2022)	Key Environmental Issues
 Depressed Road – Portal Structure ISIG Pre-Assembly CP Tympanum formworks delivery District Cooling System Pipe Jacking EL 	(A) / (B) / (C) / (D)

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.

Review of Status and Location of Monitoring Stations

7. According to the EM&A Manual (AEIAR-174/2013), the number and location of the monitoring stations and parameters should be reviewed in every six months, or on as -needed basis, in order to cater for any changes in the surrounding environmental and the nature of works in progress. The latest review was conducted in August 2021 and the review of status and location of monitoring stations are summarized as follow:

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

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

N/A: Not Applicable

1 INTRODUCTION

Background

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

Monitoring Works in Kai Tak under EP-451/2013

1.4 Under Contract No. KL/2014/03 - Kai Tak Development - Stage 3 Infrastructure Works for Development at the Southern Part of the Former Runway ("T2 Advance Works"), the baseline monitoring works in Kai Tak under the EM&A Manual (AEIAR-174/2013) were conducted by the Environmental Team (ET) for the Contract No. KL/2014/03 at the approved relocated monitoring locations (EPD reference: EP2/K19/A/21 pt.5), namely KTD1a, KTD2a & KER1a. During the impact monitoring period, monitoring locations KTD 2a and KER 1a were relocated to new locations, i.e. KTD 2b and KER 1b (EPD reference: () in EP2/K19/A/21 pt. 6 and () in EP2/K19/A/21 pt. 5) respectively. Location KTD2b was then further relocated to location KTD2c, the proposal of such relocation was submitted to EPD on 24 March 2020 and was approved by EPD on 6 April 2020 (EPD reference: () in EP2/K19/A/21 pt.7). The aforementioned relocation was effective from 9 April 2020. Since the major part of work under Contract No. KL/2014/03 has been completed and monitoring works conducted by the ET of Contract No. KL/2014/03 was determined to be ceased, the impact monitoring within the Kai Tak area was then handed over to the ET of Contract No. ED/2018/04 on 1 August 2020. The monitoring location has been reviewed and updated to obtain the data with higher representative

based on several conditions, such as distance between monitoring location and the sensitive receiver, non-project related interference, obstruction to the construction works on site and the power supply problem. The monitoring location KTD1a and KER1b has been updated to the monitoring location KTD1 and KER1 on 3 August 2020, where are the original location as proposed in the EM&A manual (AEIAR-174/2013). And the monitoring location KTD2c was remained unchanged after the aforementioned review. Location KTD2c was then further relocated to location KTD2d, the proposal of such relocation was submitted on 9 March 2021 and was approved by EPD on 3 May 2021 (EPD reference: () in EP2/K19/A/21 pt.8). The aforementioned relocation was effective from 24 May 2021. The impact monitoring for the three stations KTD1, KTD2d and KER1 are currently conducted by the ET of T2 Main Works

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

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

Purpose of the Report

1.7 This is the 23rd Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in January 2022

Project Organizations

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

Table 1.1 Key Project Contacts

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder Mr. Wong Chi Wai, Tommy		3842 7111
HMJV	Supervisor Representative Ms. Hazel Tang		2149 8524
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
Cinotecn	Environmental Team	Ms. Karina Chan	2157 3880

Party	Role	Contact Person	Phone No.
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
ВТР	Contractor	Ms. Ality Chan	5185 4462

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

Construction Activities undertaken during the Reporting Month

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

Kai Tak:

- Road L10 (North) Excavation, ELS and RC Structure
- Road L18 Sheet Pile Installation
- Westbound TBM Assembly
- Eastbound TBM Assembly
- TBM Shifting way & Rails installation
- TBM WB & EB TBM Thrust Frame installation
- STP Assembly
- STP Testing & Commissioning
- 2nd Segment Yard Gantry Crane Erection
- Foot Bridge (FT-02) H pile installation, Pile Cap Construction and Temporary Ramp Construction
- Mortar Plant assembly
- District Cooling System works at Section 6B and 7A
- Depressed Road- Capping Beam, Remaining DPR/SUS connection
- SUS Remedial works and Bulkhead Removal
- West Ventilation Building Excavation, Steel Strut Installation
- Section 6A RC Structure
- Westbound and Eastbound TBM break-in
- Road S20 / AMAWBC Road & Drain
- Tunnel Segment Delivery
- Workshop Assembly

Summary of EM&A Requirements

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

environmental monitoring works and audit works for the Project in January 2022.

Status of Environmental Licensing and Permitting

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

Table 1.3 Summary of Environmental License and Permit

Dannik / Licanga No	Valid Period		64-4
Permit / License No.	From	To	Status
Environmental Permit (EP)			
EP-451/2013	19 Sep 2013	N/A	Valid
Notification pursuant to Air Pollution (Cons	truction Dust) R	egulation	
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
Billing Account for Vessel Disposal			
A/C No.:7037747 (Application No.: CEDD01126)	20 Oct 2021	25 Jan 2022	Expired on 25 Jan 2022
A/C No.:7037747 (Application No.: CEDD01139)	17 Jan 2022	25 Apr 2022	Valid
Construction Noise Permit			
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0816-21	24 Aug 2021	23 Feb 2022	Valid
CNP No.(For Junction of Hoi Bun Road and Kai Hing Road): GW-RE1272-21	30 Dec 2021	22 Jun 2022	Valid
CNP No. (For West Ventilation Building): PP-RE0023-21	3 Aug 2021	31 Jan 2022	Expired on 31 Jan 2022
CNP No. (For Depressed Road): GW- RE0887-21	14 Sep 2021	28 Feb 2022	Valid
CNP No. (For Depressed Road and Support Area): GW-RE0992-21	15 Oct 2021	13 Apr 2022	Valid
CNP No. (For Depressed Road and Support Area): GW-RE1269-21	26 Dec 2021	25 Mar 2022	Valid
CNP No. (For Launching Shaft and Barging Point): GW-RE1260-21	26 Dec 2021	25 Feb 2022	Valid
Wastewater Discharge License			
WT00036183-2020 (For Depressed Road Area)	27 Jul 2020	31 Jul 2025	Valid
WT00036228-2020 (For Launching Shaft)	10 Nov 2021	31 Jul 2025	Valid
WT00039117-2021 (For Site Office and Support Area)	28 Sep 2021	30 Sep 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 the EM&A Manual (AEIAR-174/2013), 24-hour Total Suspended Particulates (TSP) monitoring was conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. In case of complaints, 1-hour TSP monitoring should be conducted at least three times in every six days when the highest dust impacts are likely to occur. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

Monitoring Locations

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

Table 2.1 Air Quality Monitoring Locations

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

Monitoring Parameters and Frequency

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

Table 2.2 Frequency and Parameters of Air Quality Monitoring

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

Monitoring Equipment

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

Table 2.3 Air Quality Monitoring Equipment

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

Monitoring Methodology

1-hour TSP Monitoring

Measuring Procedures

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

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

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

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

Maintenance/Calibration

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

24-hour TSP Monitoring

Instrumentation

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

- 2.12 Operating/analytical procedures for the air quality monitoring are highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 0.6 m³/min. and 1.7 m³/min.) in accordance with the EM&A manual (AEIAR-174/2013). The flow rate shall be indicated on the flow rate chart.
 - For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3 µm diameter were used.
 - The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
 - The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
 - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
 - The shelter lid was closed and secured with the 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 (High Precision Chemical Testing Ltd.) for weighing. The elapsed time was also recorded.
 - Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

Maintenance/Calibration

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

Results and Observations

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

Table 2.4 Major Dust Source during Air Quality Monitoring

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

Comparison of EM&A Result with EIA Prediction

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

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

Monitoring Stations	ASR ID	Predicted Maximum 24-hr TSP Concentration in EIA Report (AEIAR- 174/2013), μg/m ³	Maximum 24-hr TSP Concentration in the Reporting Month (January 2022), μg/m³
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	86.2
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A ⁽¹⁾	N/A ⁽¹⁾	68.0
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	169.7
CKL1 - Flat 121 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	143.8
CKL2 - Flat 103 Cha Kwo Ling Village	N/A ⁽¹⁾	N/A ⁽¹⁾	162.9

Remarks:

2.20 In the reporting month the 24-hour TSP concentration at KTD1 was lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). However, 24-hour TSP concentration at KER1 was slightly higher than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013), that may due to the fluctuations of traffic flow along Kai Hing Road. No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

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

3 NOISE

Monitoring Requirements

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

Monitoring Locations

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

Table 3.1 Noise Monitoring Stations

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

Monitoring Parameters, Frequency and Duration

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

Monitoring Time Period Duration Frequency Parameter Measurement **Stations** Façade Measurement KTD1 L₁₀(30 min.) Free Field Measurement dB(A) KTD2d 0700-1900 hrs Free Field Measurement L₉₀(30 min.) Once per KER1 on normal 30 minutes dB(A) week weekdays Free Field Measurement CKL1 L_{eq}(30 min.) dB(A)Free Field Measurement CKL2

Table 3.2 Frequency and Parameters of Noise Monitoring

Monitoring Equipment

3.5 Integrating Sound Level Meter was used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{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 within the reporting period. Copies of calibration certificates are attached in **Appendix G**.

Table 3.3 Noise Monitoring Equipment

Equipment	Model	Quantity
	BSWA 308 (Serial no. 570183,	2
Integrating Sound Level Meter	570188, 580238)	3
	SVAN957 (Serial no. 23851)	1
Calibratan	ST-120 (Serial no. 181001608,	2
Calibrator	181001637)	

Monitoring Methodology and QA/QC Procedure

- 3.6 The monitoring procedures are as follows:
 - The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
 - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
 - The battery condition was checked to ensure the correct functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Time measurement: 30 minutes
 - Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise

- measurement would be required after re-calibration or repair of the equipment.
- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the L_{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

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

Results and Observations

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

Table 3.4 Other Noise Source Identified during Noise Monitoring

Monitoring Stations	Major Noise Source		
KTD 1	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; Road traffic along Shing Cheong Road; and, Non-project related construction activities at the nearby construction site of New Acute Hospital. 		
KTD 2d	 Project related construction activities (Loading and unloading of C&D waste, travel of vehicles, use of PME and other plants, and other construction activities); Vehicle movement in the site; and, Non-project related construction activities. 		
KER 1	 Road traffic along Kai Hing Road. Project related construction activities (Travel of vehicles, use of PME and other plants, and other construction activities) 		
CKL1	Road traffic along Cha Kwo Ling Road.		
CKL2	Road traffic along Cha Kwo Ling Road		

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

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

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

Comparison of EM&A Result with EIA Prediction

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

Table 3.6 Maximum Predicted Mitigated Construction Noise Levels in EIA Report

Monitoring Stations	NSR ID	Maximum Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR- 174/2013), dB(A)	Maximum Construction Noise Levels in the Reporting Month (January 2022), Leq (30min) dB(A)
KTD 1 - Centre of			
Excellence in Paediatrics	KTD1	74	71.2
(Children's Hospital)			
KTD2d – Next to the SOR	(1)	(1)	
Office of Trunk Road T2 in	$N/A^{(1)}$	N/A ⁽¹⁾	68.7
Kai Tak Area			
KER 1 – Future Residential			
Development at Kerry	KER1	75	74.3
Godown			
CKL1 - Flat 121 Cha Kwo	CKL4	71	72.4
Ling Village	CKL4	/ 1	/ 2.4
CKL2 - Flat 103 Cha Kwo	CKL5	69	73.6
Ling Village	CILLO		75.0

Remarks:

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

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

4 WATER QUALITY

Monitoring Requirement

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

5 MARINE ECOLOGY

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

6 FISHERIES

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

7 LANDSCAPE AND VISUAL

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

 Table 7.1
 Construction Phase Landscape and Visual Mitigation Measures

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

- 7.2 A specialist Landscape Sub-Contractor should be employed by the Contractor for the implementation of landscape construction works and subsequent maintenance operations during the establishment period. It is proposed that the planting works will be on-site and the planting should be completed during the construction contract. The monitoring of the planting establishment should be undertaken for a 12 month period which could extend throughout the Contractor's one-year maintenance period, which will be within the first operational year of the Project.
- 7.3 All measures undertaken by both the Contractor and the specialist Landscape Sub-Contractor during the construction phase and first year of the operational phase shall be audited by a Registered Landscape Architect (RLA), as a member of the Environmental Team (ET), on a regular basis to ensure compliance with the intended aims of the measures. To fulfil the aforementioned requirements, on-site landscape and visual mitigation measures were audited by

RLA in the reporting month.

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

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

Area of Works	Items to be Monitored
Advance planting	Monitoring of implementation and maintenance of planting, and against possible incursion, physical damage, fire, pollution, surface erosion, etc.

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

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

8 CULTURAL HERITAGE

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

9 WASTE MANAGEMENT

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

10 ENVIRONMENTAL AUDIT

Site Audits

- 10.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.
- 10.2 Site audits were conducted on 07, 11, 20 and 27 January 2022 in the reporting month. Site inspection of the IEC was conducted on 20 January 2022. No non-compliance was observed during the site audit.

Implementation Status of Environmental Mitigation Measures

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

Table 10.1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up	
Air Quality	N/A	There was no observation in the reporting period.	N/A	
Noise	N/A	There was no observation in the reporting period.	N/A	
Water Quality	N/A	There was no observation in the reporting period.	N/A	
Ecology	N/A	There was no observation in the reporting period.	N/A	
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A	
Waste / Chemical Management	20 January 2022	Chemical/ fuels should be stored in designated area with adequate bund capacity and provided with locks	Chemical/ fuels were removed.	
	30 December 2021	Oil drum and grease were observed on site. Drip tray should be provided.	Contactor provide the spill kits, such as absorption booms, to prevent potential leakage of oil/ chemical from accidentally entering storm water system via the site surface runoff.	

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

Implementation Status of Event and Action Plans

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

Air Quality Monitoring

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

Construction Noise Monitoring

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

Landscape and Visual

• No landscape and visual non-conformity was recorded.

Status of Required Submission under Environmental Permit

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

Table 10.2 Status of Required Submission under Environmental Permit

EP Condition	Submission	Submission Date				
EP-451/2013						
Condition 2.3	Management Organization of Main Construction Companies	20 January 2020				
Condition 2.4	Design Drawing of the Project	20 January 2020				
Condition 2.5	Landscape Mitigation Plan(s)	7 May 2020				
Condition 2.10 (a)	Supplementary Contamination Assessment Plan	18 December 2015				
Condition 2.10 (b)	Supplementary Contamination Assessment Report	6 December 2016				
Condition 3.3	Updated Baseline Monitoring Report	03 November 2020				
Condition 3.4	Monthly EM&A Report (December 2021)	18 January 2022				

11 ENVIRONMENTAL NON-CONFORMANCE

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

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

Summary of Exceedance

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

12 FUTURE KEY ISSUES

Tentative construction programmes for the next three months are provided in **Appendix N**.

- 12.1 Major site activities undertaken for the coming months are summarized as follows:
 - Depressed Road Portal Structure
 - ISIG Pre-Assembly
 - CP Tympanum formworks delivery
 - District Cooling System Pipe Jacking EL
- 12.2 Key environmental issues in the coming months include:
 - Wheel washing bay at site exits;
 - Temporary noise barriers for PMEs;
 - Sedimentation tank for settling muddy water; and
 - Make sure open stockpiles are covered during rainstorm.

Monitoring Schedule

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

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This is the 23rd Monthly EM&A Report which presents the EM&A works undertaken during the reporting month in accordance with the EM&A Manual (AEIAR-174/2013) and the requirement under EP.

Air Quality Monitoring

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

Construction Noise Monitoring

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

Site Audit

13.5 4 ET joint weekly environmental site inspections were conducted in the reporting month.

Complaint, Notification of Summons and Successful Prosecution

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

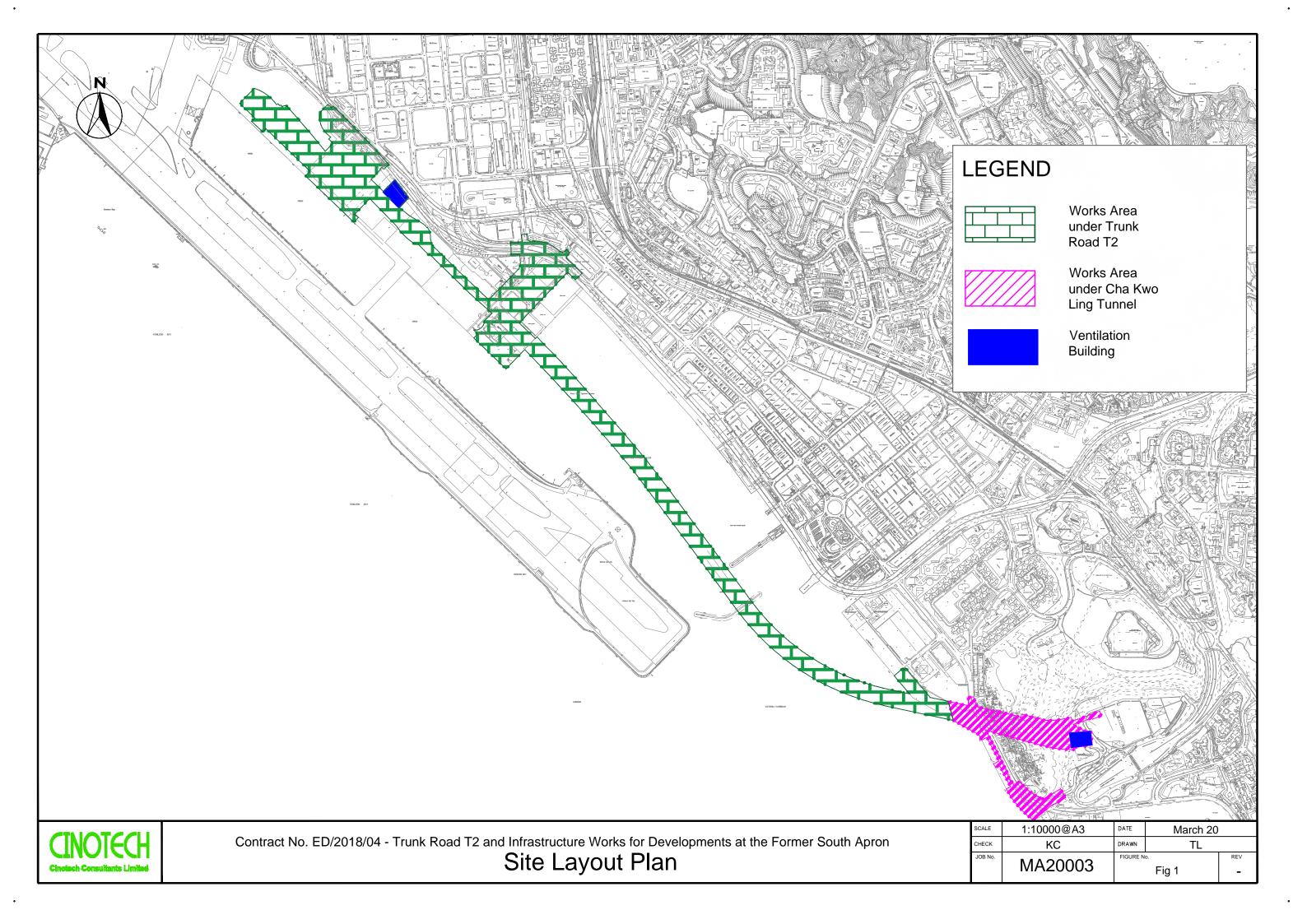
Recommendations

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

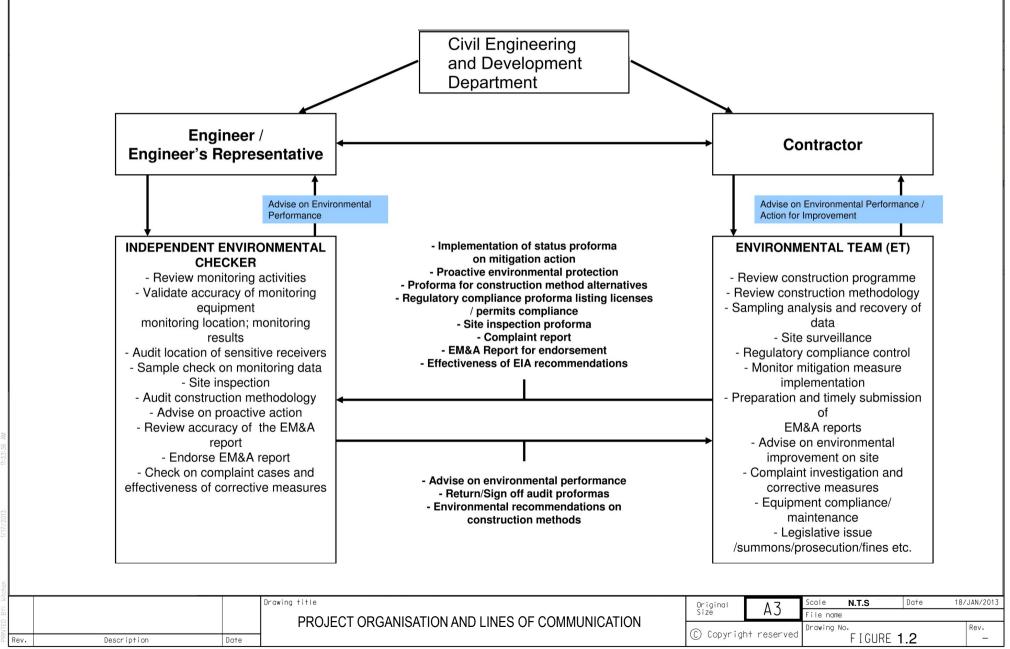
Waste / Chemical Management

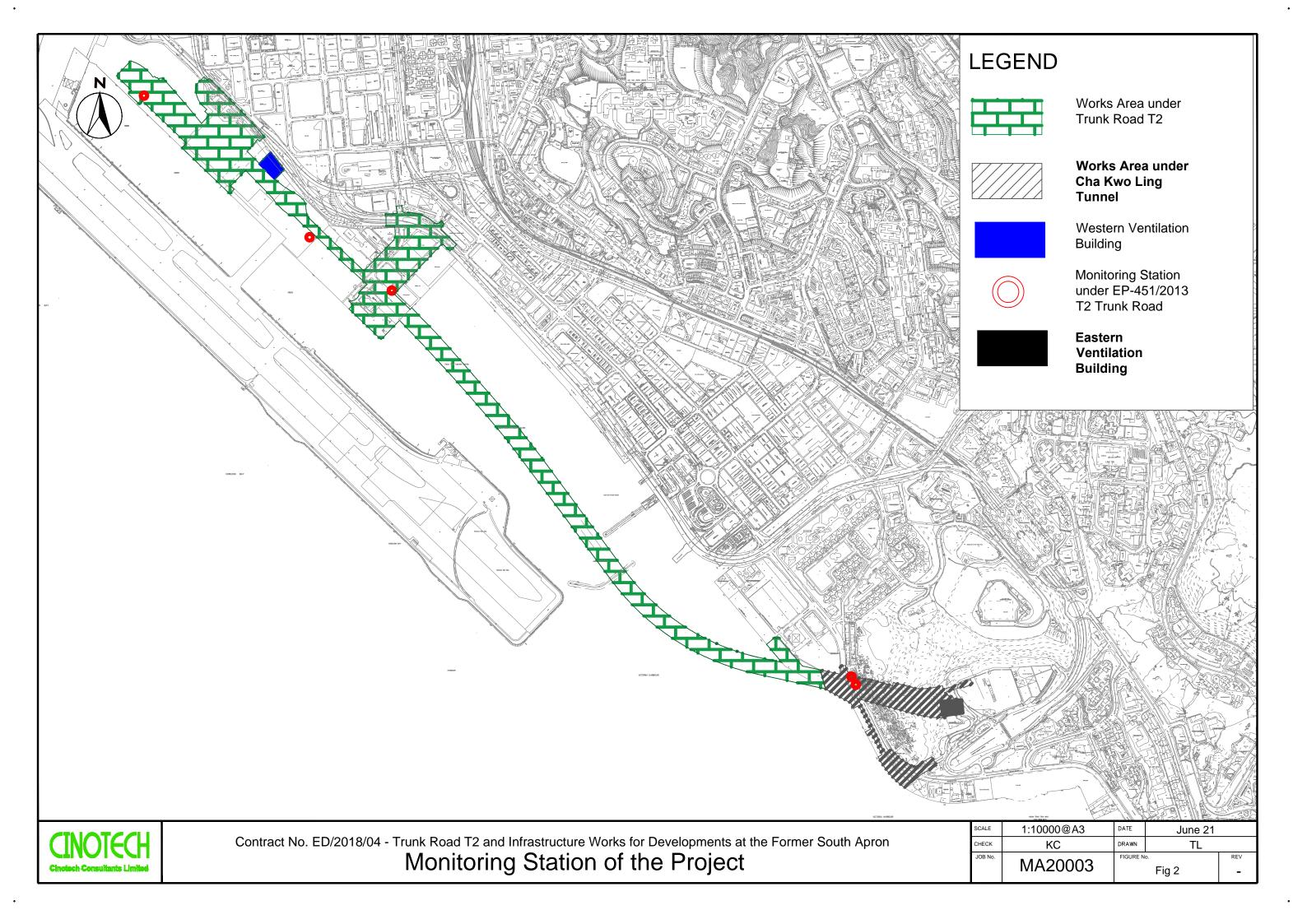
• Impermeable floor and bund with capacity to accommodate 110% of the volume of the largest container or 20% by volume of the chemical waste stored in the area, whichever is greatest.

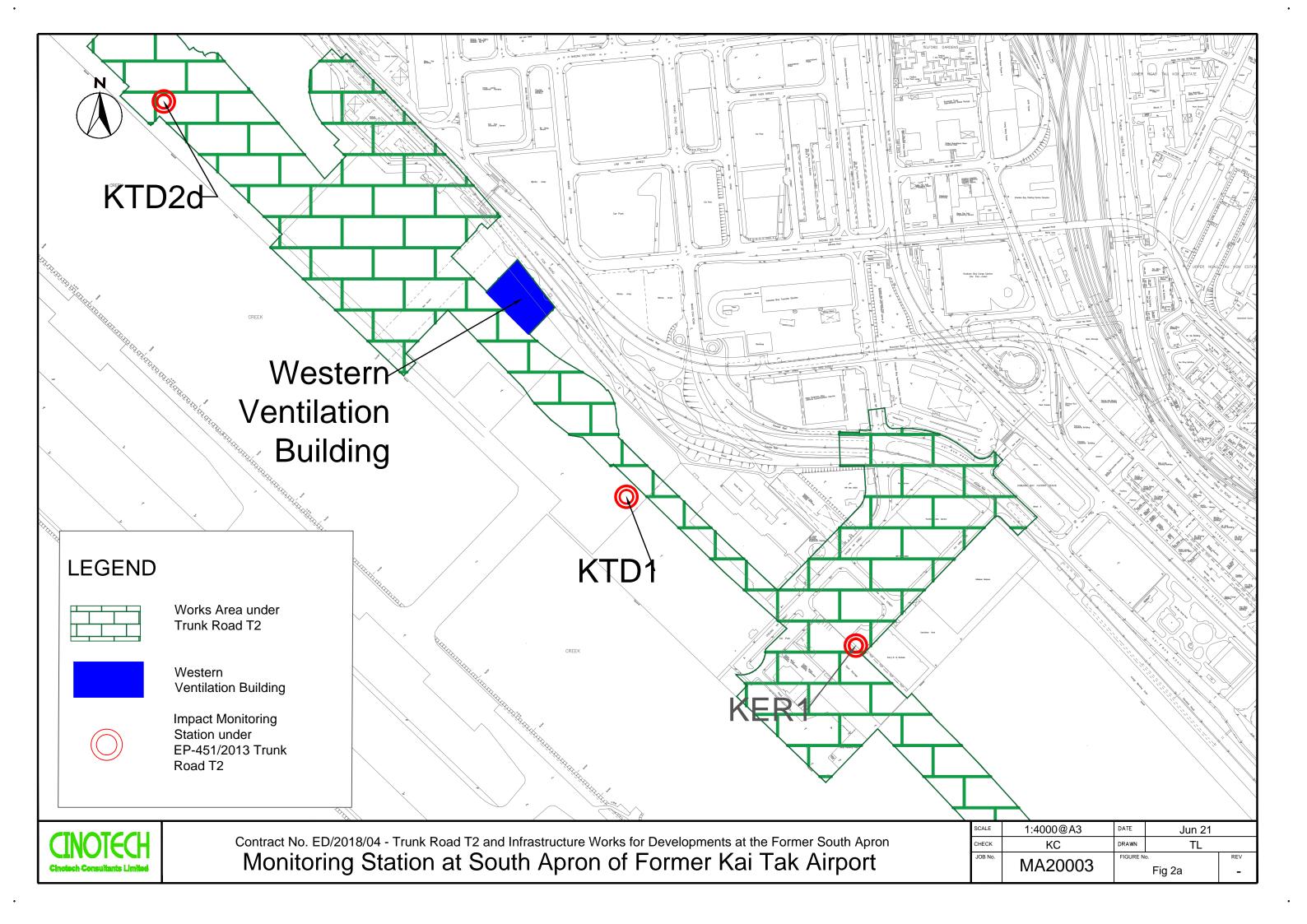
FIGURES

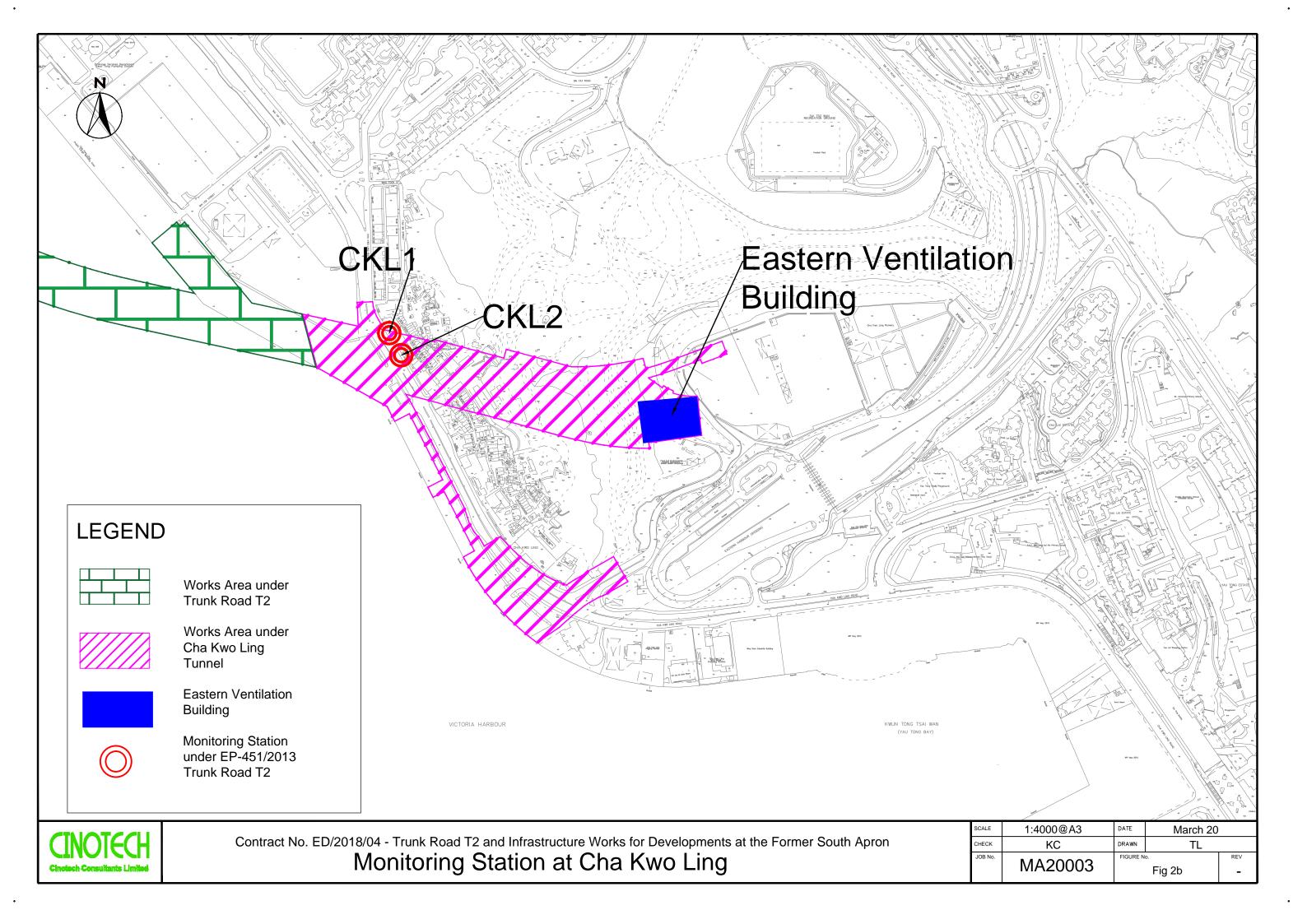












APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

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

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

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

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

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

Note:

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

APPENDIX B ENVIRONMENTAL MONITORING SCHEDULES

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 (January 2022)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Jan
2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan	8-Jan
	24-hr TSP	Noise				24-hr TSP
	24-111 151	140130				24-111 131
9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan	15-Jan
	Noise			24-hr TSP		
	110150			21 11 151		
16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan	22-Jan
			24-hr TSP	Noise		
20.7	21.7	25.5	24.7	25.1	20.7	20.7
23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan	29-Jan
		24-hr TSP	Noise			24-hr TSP
20. 7	21.1					
30-Jan	31-Jan					
	Noise					

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

Air Quality Monitoring Station

24-hr TSP

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

KER1 - Future Residential Development at Kerry Godown

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

Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

^{*}Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

^{**24-}hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

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 (February 2022)

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

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

Air Quality Monitoring Station

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

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

Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

^{*}Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

^{**24-}hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

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 (March 2022)

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

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

Air Quality Monitoring Station

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

CKL1 - Flat 121 Cha Kwo Ling Village

CKL2 - Flat 103 Cha Kwo Ling Village

Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

^{*}Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

^{**24-}hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Apr	2-Apr
3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr	9-Apr
			24.1 TOD	Noise		
			24-hr TSP	Noise		
10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr	16-Apr
	24.1. TOD	Noise		24.1 TCD		
	24-hr TSP	Noise		24-hr TSP		
17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr
			24.1 TOD	Naine		
			24-hr TSP	Noise		
24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apr	30-Apr
		24 by TCD	No:			
		24-hr TSP	Noise			
T1 1 1 1 1 1	1 1 4 6	roumstances (adverse weat	1		_	

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

Air Quality Monitoring Station

24-hr TSP

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

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

KER1 - Future Residential Development at Kerry Godown

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

Noise Monitoring Station

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

KER1 - Future Residential Development at Kerry Godown

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

CKL1 - Flat 121 Cha Kwo Ling Village

^{*}Noise: Noise Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

^{**24-}hr TSP:24-hr TSP Monitoring works in both Kai Tak and Cha Kwo Ling (KTD1, KTD2d, KER1, CKL1 and CKL2)

APPENDIX C COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING



Certificate of Calibration - Wind Monitoring Station

Description: Yau Lai Estate, Bik Lai House

Manufacturer: <u>Davis Instruments</u>

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

Serial No.: MC01010A44

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

Date of Calibration <u>20-Aug-2021</u>

Next Due Date <u>20-Feb-2022</u>

1. Performance check of Wind Speed

Wind Sp	peed, m/s	Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 - V2
0.0	0.0	0.0
1.5	1.5	0.0
2.8	2.7	0.1
4.0	4.1	-0.1

2. Performance check of Wind Direction

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

Test Specification:

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

Calibrated by: Approved by: Approved by: Henry Leung



RECALIBRATION **DUE DATE:**

January 11, 2022

Calibration Certification Information

January 11, 2021 Cal. Date:

Rootsmeter S/N: 438320

°K

Operator: Jim Tisch Ta: 297 Pa: 750.1

mm Hg

Calibration Model #: TE-5025A

Calibrator S/N: 3864

Γ		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔΡ	ΔΗ
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)
Γ	1	1	2	1	1.4470	3.2	2.00
Γ	2	3	4	1	1.0210	6.4	4.00
	3	5	6	1	0.9140	8.0	5.00
Г	4	, 7	8	1	0.8670	8.8	5.50
	5	9	10	1	0.7140	12.9	8.00

	Data Tabulation					
Vstd	Qstd	$\sqrt{\Delta H \left(\frac{Pa}{Pstd}\right) \left(\frac{Tstd}{Ta}\right)}$		Qa	$\sqrt{\Delta H (Ta/Pa)}$	
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(y-axis)	
0.9860	0.6814	1.4073	0.9957	0.6881	0.8899	
0.9818	0.9616	1.9902	0.9915	0.9711	1.2585	
0.9797	1.0719	2.2251	0.9893	1.0824	1.4071	
0.9786	1.1288	2.3337	0.9883	1.1399	1.4757	
0.9732	1.3630	2.8146	0.9828	1.3765	1.7798	
	m=	2.06566		m=	1.29348	
QSTD	b=	0.00315	QA	b=	0.00199	
	r=	0.99996		r=	0.99996	

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

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





						File No. N	/IA20003/18/0011
Project No.	CKL 1 - Flat 12	1 Cha Kwo Ling	; Village			_	
Date:	6-No	ov-21 Next Due Date: 6-Jan-22		an-22	Operator:	SK	
Equipment No.:	A-0				5170		
			•				
			Ambient	Condition			
Temperatur	re, Ta (K)	299.4	Pressure, Pa	(mmHg)		757.5	
G : 1	N		rifice Transfer Sta			. 1	0.00212
Serial				-0.00313			
Last Calibra Next Calibra		11-Jan-21 11-Jan-22			с – _[ДП х (Га/76 х (Ра/760) х (298		
Next Callora	ation Date:	11-Jan-22		Qstu – \[\Dir	1 (1 a//00) x (290)	/1a)j -bc//m	
		•	Calibration of	TSP Sampler			
Calibration		Or	fice	•		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	I - ') x (298/Ta)] ^{1/2} Y-axis
1	12.9	3.58		61.25	9.8		3.12
2	10.3		3.20	54.73	8.0	1	2.82
3	8.5	:	2.90	49.73	5.9		2.42
4	6.2		2.48	42.48	4.0		1.99
5	3.4		1.84	31.47	1.9		1.37
-	ression of Y on Y	X					
Slope, $mw = \frac{1}{2}$		_		Intercept, bw =	-0.524	<u> </u>	
Correlation of			.9982	-			
*If Correlation C	Coefficient < 0.99	90, check and rec	calibrate.				
			Set Point (Calculation			
From the TSP Fi	eld Calibration (Curve, take Qstd	= 43 CFM				
From the Regress	sion Equation, th	ne "Y" value acco	ording to				
		,	0.41.1. [AW	(D. /5(0) (3	100 /m \11/2		
		mw x ($Qstd + bw = [\Delta W]$	x (Pa//60) x (2	(98/1a)]		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (Ta / 298) =	4.23		
Remarks:							
Canduated Les	W 01	in a Vive	C:	Xr	Σ	D-4	6 Nov. 21
Conducted by:	Wong Sh	iing Kwai	Signature:	1		Date:	6-Nov-21
Checked by:	Цапи	Leung	Signature:	10	Chan 1	Date:	6-Nov-21
Checked by.	11C1II y	Leung	. Signatuic.	_ lem	70-0-1	. Date	0-1101-21

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/18/0012 Project No. CKL 1 - Flat 121 Cha Kwo Ling Village Date: 6-Jan-22 Next Due Date: 6-Mar-22 Operator: SK Model No.: _____ TE 5170 ____ Serial No. ____ 0723 Equipment No.: A-01-18 **Ambient Condition** 294 763 Temperature, Ta (K) Pressure, Pa (mmHg) **Orifice Transfer Standard Information** 0.05846 Intercept, bc Serial No. 3864 Slope, mc -0.00313 mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ 11-Jan-21 Last Calibration Date: Qstd = $\{ [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} -bc \} / mc$ Next Calibration Date: 11-Jan-22 **Calibration of TSP Sampler** Orfice HVS Calibration ΔW (HVS), in. $\left[\Delta W \times (Pa/760) \times (298/Ta) \right]^{1/2} Y$ - ΔH (orifice), Ostd (CFM) Point $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ in. of water X - axis of water axis 13.0 3.64 62.27 9.8 3.16 10.3 3.24 55.43 8.0 2.85 8.5 2.94 50.36 5.9 2.45 3 4 6.2 2.51 43.02 4.0 2.02 1.9 1.39 5 3.4 1.86 31.87 By Linear Regression of Y on X Slope, mw = 0.0595 Intercept, bw = -0.5157 Correlation coefficient* = 0.9980 *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:
 Signature:
 Date:
 6-Jan-22

 Signature:
 Date:
 6-Jan-22
 Conducted by: Wong Shing Kwai Checked by: Henry Leung

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/0011

Project No.	CKL 2 - Flat 103	3 Cha Kwo Ling	Village				
Date:	6-No	6-Nov-21 Next Due Date:		6	6-Jan-22		SK
Equipment No.:	A-0	1-55	Model No.:	TE	E 5170	Serial No.	1956
			Ambient C	ondition			
Temperatur	re. Ta (K)	299.4	Pressure, Pa			757.5	
T T T T T T T T T T T T T T T T T T T	10, 10 (11)	2,,,,	11000010,10	(IIIIII 1g)		70710	
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	No.	3864	Slope, mc	0.05846	Intercept	t, bc	-0.00313
Last Calibra	ation Date:	11-Jan-21	1	mc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$	$(298/Ta)^{1/2}$	
Next Calibra	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / mc	:
		•					
	ı		Calibration of	TSP Sampler			
Calibration		Or	fice	,		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		0) x (298/Ta)] ^{1/2} •axis
1	12.7		3.55	60.77	9.8	3	.12
2	10.7		3.26		7.6	2	.75
3	8.4		2.89		6.0	2	.44
4	5.5	2.34		40.01	3.6	1	.89
5	2.9		1.70	29.07	1.9	1	.37
By Linear Regr	ession of Y on X						
Slope , mw =	0.0544		1	Intercept, bw	-0.246	i1	
Correlation	coefficient* =	0	.9978	_		<u> </u>	
*If Correlation C	Coefficient < 0.99	0, check and red	calibrate.	-			
			Set Point Ca	alculation			
	eld Calibration C	-					
From the Regres	sion Equation, th	e "Y" value acco	ording to				
		mw v C	$\mathbf{pstd} + \mathbf{bw} = \mathbf{\Delta W} \mathbf{x}$	(Pa/760) v (20	08/Ta)l ^{1/2}		
		IIIW X Q	gstu · bw <u>μ</u> Δ · · · Δ	(1 a/ 100) A (2)	70/1 a)j		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Ta / 298) =	4.42		
Remarks:							
Kemarks.							
					101		
Conducted by:	Wong Sh	ing Kwai	Signature:	X	<u> </u>	Date:	6-Nov-21
				1			
Checked by:	Henry	Leung	Signature:	Plan	y May	Date:	6-Nov-21
				105.03	./		

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/55/0012

Project No.	CKL 2 - Flat 10	3 Cha Kwo Ling	Village				
Date:	6-Ja	an-22 Next Due Date: 6-Mar-22		Mar-22	Operator:	SK	
Equipment No.:	A-()1-55	Model No.:	TE	E 5170	Serial No	1956
Т	T. (II)	20.4	Ambient C			7.00	
Temperatu	re, 1a (K)	294	Pressure, Pa	(mmHg)		762	
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	l No.	3864	Slope, mc	0.05846	Intercept	, bc	-0.00313
Last Calibra	ation Date:	11-Jan-21	•		$c = [\Delta H \times (Pa/760)]$		
Next Calibr	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	[a)] ^{1/2} -bc} / mo	
	1		Calibration of	TSP Sampler			
Calibration	ΔH (orifice),		fice	Qstd (CFM)	ΔW (HVS), in.	HVS	0) x (298/Ta)] ^{1/2}
Point	in. of water	[ΔH x (Pa/76	$(50) \times (298/Ta)]^{1/2}$	X - axis	of water		0) X (298/14)] -axis
1	12.9		3.62	61.99	10.0	3	3.19
2	10.7		3.30	56.46	7.6	2	2.78
3	8.4		2.92	50.03	6.0	2	2.47
4	5.5		2.36		3.6	1	.91
5	2.9		1.72	29.42	1.9	1	.39
-	ression of Y on 2	X	,		0.255	-	
Slope, mw =		_		Intercept, bw :	-0.255	97	
	coefficient* =	90, check and red	.9977				
TI Correlation C	Joennelent < 0.9	90, Check and lec	anorate.				
			Set Point Ca	alculation			
From the TSP Fi	ield Calibration (Curve, take Qstd					
From the Regres	sion Equation, t	he "Y" value acco	ording to				
				(D. /5(0) (2)	NO/TE >11/2		
		mw x C	$Qstd + bw = [\Delta W x]$	(Pa//60) x (29	98/1a)]		
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.31		
Remarks:							
remarks.							
Can du ata d han	Wana Cl	hina V	C:	X	λ	Data	6-Jan-22
Conducted by:	Wong Sl	mng Kwai	Signature:			Date:	U-Jaii-22
Checked by	Henry	/ Leung	Signature:	10	N. a	Data	6-Jan-22
Checked by:	110111	Louing	. Signature:	- ten	7 m	Date	U-Jan-22

5-POINT CALIBRATION DATA SHEET



File No. MA20003/44/0010

Project No.	KTD1 - Centre						
Date:	2-De	ec-21	Next Due Date:	2-Feb-22 TE-5170		Operator:	SK
Equipment No.:	A-0	1-44	-			Serial No.	1316
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.4	Pressure, Pa			766.2	
	-		-		-		
		Ori	ifice Transfer Star	ndard Informa	ation		
Serial					-0.00313		
Last Calibra	ation Date:	11-Jan-21			$c = [\Delta H \times (Pa/760]]$		
Next Calibr	ration Date:	11-Jan-22	($Qstd = \{ [\Delta H \ x] $	(Pa/760) x (298/	Γa)] ^{1/2} -bc} / n	nc
	T		Calibration of	TSP Sampler	T		
Calibration		Or	fice	I = 2 2		HVS	1.40
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y-axis
1	13.4		3.72		9.4		3.12
2	11.0		3.37		7.4		2.77
3	8.4		2.95		5.6		2.41
4	5.6		2.41		3.3		1.85
5	3.2		1.82	31.18	1.8		1.36
	ression of Y on 2 0.0541 coefficient* =	_	9993	Intercept, bw	-0.345	51	
*If Correlation (Coefficient < 0.99	90, check and red	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	ield Calibration (Curve, take Qstd					
From the Regres	ssion Equation, th	ne "Y" value acc	ording to				
C	•		C		1/2		
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	3.80		
Remarks:							
				h	<u> </u>		
Conducted by:	Wong Sh	ing Kwai	Signature:		<u> </u>	Date:	2-Dec-21
Checked by:	Henry	Leung	Signature:	1-8-	2 Xon	Date:	2-Dec-21

5-POINT CALIBRATION DATA SHEET



File No. MA20003/44/0011

Project No.	KTD1 - Centre	of Excellence in	Paediatrics (Childs	en's Hospital)			
Date:	11-J	11-Jan-22 Next Due Date: 11-Mar-22		Operator:	SK		
Equipment No.:	A-0)1-44	Model No.:	TE-5170		Serial No.	1316
			Ambient C	ondition			
Temperatu	re, Ta (K)	294	Pressure, Pa	(mmHg)		763	
			ifice Transfer Sta				
				Intercept		-0.00313	
Last Calibra		11-Jan-21	+		$c = [\Delta H \times (Pa/760)]$		
Next Calibr	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / me	e
	1		Calibration of	TSP Sampler		III.	
Calibration Point	ΔH (orifice), in. of water		Orfice [ΔH x (Pa/760) x (298/Ta)] ^{1/2}		ΔW (HVS), in.		(60) x (298/Ta)] ^{1/2}
1	13.2		3.67		9.6		3.13
2	11.0		3.35	62.75 57.28	7.4		2.74
3	8.4		2.92		5.6	İ	2.39
4	5.6		2.39		3.3	1	1.83
5	3.2		1.80	30.92	1.8	1	1.35
Slope , mw = Correlation	coefficient* =	_	.9985	Intercept, bw :	-0.392	2.6	
			Set Point C	alculation			
From the Regres	ssion Equation, th			`	98/Ta)] ^{1/2}		
Remarks: Conducted by:		ning Kwai	Signature:	<i>b</i>	<u> </u>	Date:	11-Jan-22
Checked by:	Henry	Leung	Signature:	_ \- Kem	2 Xon	Date:	11-Jan-22

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/41/0009

Project No.	KTD 2D - Next	to the SOR Offic	ce of Trunk Road T	2 in Kai Tak A	area			
Date:	25-N	Jov-21	v-21 Next Due Date: 25-Jan-22		Operator:	SK		
Equipment No.:)1-41		TE	E 5170	_	5280	
			Ambient C	ondition				
Temperatu	re Ta(K)	293.6	Pressure, Pa			763.5		
Temperatu	10, 14 (11)	273.0	i ressure, ru	(mmig)		703.3		
		Or	ifice Transfer Star	ndard Informa	ation			
Serial	No.	3864	Slope, mc	0.05846	Intercept	t, bc	-0.00313	
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760)]$) x (298/Ta)]	1/2	
Next Calibra	ation Date:	11-Jan-22		$Qstd = \{ [\Delta H \ x] \}$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / r	nc	
		•						
			Calibration of T	ΓSP Sampler				
Calibration		Or	fice			HVS		
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		760) x (298/Ta)] ^{1/2} Y-axis	
1	13.2		3.67		9.2		3.06	
2	11.4		3.41		7.4		2.75	
3	8.2	2.89		49.52	5.8		2.43	
4	6.0		2.47		4.2		2.07	
5	3.0		1.75	29.97	2.3		1.53	
By Linear Regression of Y on X Slope , mw =								
			Set Point Ca	lculation				
		Curve, take Qstd he "Y" value acco						
rom me regres	sion Equation, u		_					
		mw x Q	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}			
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.38								
Remarks:								
Conducted by:	Wong Sl	ning Kwai	Signature:	K	<u></u>	Date:	25-Nov-21	
Checked by:	Henry	Leung	Signature:	Plan	y day	Date: _	25-Nov-21	

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET



File No. MA20003/41/0010

Project No.	KTD 2D - Next	to the SOR Offic	ce of Trunk Road T	2 in Kai Tak A	area			
Date:	11-J	an-22	Next Due Date:	11-	Mar-22	Operator:	SK	
)1-41			E 5170	_	5280	
			Ambient C	ondition	ı			
Temperatu	re, Ta (K)	293	Pressure, Pa	(mmHg)		764		
		0		1 17 0				
0 : 1	N		ifice Transfer Star			1	0.00212	
Serial		3864	Slope, mc	0.05846	Intercept $c = [\Delta H \times (Pa/760)]$		-0.00313	
Last Calibra		11-Jan-21	1		с — [ДН х (Га/760 (Ра/760) х (298/]			
Next Calibra	ation Date:	11-Jan-22	<u> </u>	<u> γεια – ξ[Δ11 χ</u>	(1 a/ /00) X (296/ I	[a)] -bc ₃ /1	iic	
		·	Calibration of T	ΓSP Sampler				
0.17		Or	fice	,		HVS		
Calibration Point	ΔH (orifice), in. of water		50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2} Y-axis	
1	13.1		3.66		9.2		3.07	
2	11.4		3.41		7.4		2.75	
3	8.2		2.90		5.9		2.46	
4	6.0		2.48		4.4		2.12	
5	3.0		1.75	30.01	2.3		1.53	
By Linear Regression of Y on X Slope , mw =								
			Set Point Ca	lculation				
		Curve, take Qstd						
From the Regres	sion Equation, t	he "Y" value acco	ording to					
		mw x Q	$\mathbf{Qstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	$[98/Ta)]^{1/2}$			
Therefore, Se	et Point; W = (n	nw x Qstd + bw)	² x (760 / Pa) x (7	Γa / 298) =	4.44	_		
Remarks:								
Conducted by:	Wong Sl	ning Kwai	Signature:	K	<u></u>	Date:	11-Jan-22	
Checked by:	Henry	Leung	Signature:	\-len	y day	Date: _	11-Jan-22	

5-POINT CALIBRATION DATA SHEET



File No. MA20003/04/0009

Project No.	KER 1 - Future		_				
Date:	2-De	ec-21	Next Due Date:	2-Feb-22		Operator:	SK
Equipment No.:	A-0	1-04	•		TE 5170		10595
			Ambient C	ondition			
Temperatu	re, Ta (K)	290.4	Pressure, Pa			766.2	
•	, , , ,		,	· •			
		Or	ifice Transfer Sta	ndard Informa	ation		
Serial	Serial No. 3864 Slope, mc 0.05846 Intercept, bc				-0.00313		
Last Calibra	ation Date:	11-Jan-21	r	nc x Qstd + bo	$c = [\Delta H \times (Pa/760]]$) x (298/Ta)] ¹	/2
Next Calibr	ration Date:	11-Jan-22		$Qstd = \{ [\Delta H x] \}$	(Pa/760) x (298/	Γa)] ^{1/2} -bc} / n	nc
			Calibration of	TSP Sampler			
Calibration		Or	fice	T		HVS	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	(0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} /-axis
1	13.2		3.70		9.2		3.09
2	10.4		3.28		7.0		2.69
3	8.2	2.91		49.88	5.6		2.41
4	5.2	2.32		39.73	3.2		1.82
5	3.0		1.76	30.19	2.1		1.47
Slope , mw =	ression of Y on Y 0.0495 coefficient* =	_	9 972	Intercept, bw =	-0.070	99	
*If Correlation (Coefficient < 0.99	90, check and red	calibrate.				
			Set Point Ca	alculation			
From the TSP Fi	ield Calibration (Curve, take Qstd					
From the Regres	ssion Equation, th	ne "Y" value acc	ording to				
_	•		-		1/2		
		mw x Q	$\mathbf{pstd} + \mathbf{bw} = [\Delta \mathbf{W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	w x Qstd + bw)	² x (760 / Pa) x (⁷	Ta / 298) =	4.08		
Remarks:							
Conducted by:	Wong Sh	ing Kwai	Signature:		<u> </u>	Date:	2-Dec-21
				1 -			
Checked by:	Henry	Leung	Signature:	1-Pa	xon 7	Date:	2-Dec-21

5-POINT CALIBRATION DATA SHEET



File No. MA20003/04/0010

Project No.	KER 1 - Future	Residential Dev	elopment at Kerry (Godown			
Date:	11-J	an-22	Next Due Date:	11-Mar-22 TE 5170		Operator:	SK
Equipment No.:	A-0	01-04	Model No.:			Serial No	10595
			Ambient C	ondition			
Temperatu	re, Ta (K)	293	Pressure, Pa			764	
	·		,	<i>\</i>	•		
		Or	ifice Transfer Star	ndard Informa	ation		
Serial	l No.	3864	Slope, mc	0.05846	Intercept		-0.00313
Last Calibra	ation Date:	11-Jan-21	+		$c = [\Delta H \times (Pa/760)]$		
Next Calibr	ation Date:	11-Jan-22	($Qstd = \{ [\Delta H \ x]$	(Pa/760) x (298/7	Γa)] ^{1/2} -bc} / n	ne
	1		Calibration of	TSP Sampler	I		
Calibration		Or	fice	Ι		HVS	1 /
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water		60) x (298/Ta)] ^{1/2} Y-axis
1	13.1		3.66	62.66	9.2		3.07
2	10.4		3.26	55.83	7.0		2.68
3	8.2		2.90	49.58	5.6		2.39
4	5.2		2.31	39.50	3.2		1.81
5	3.0		1.75	30.01	2.1		1.47
By Linear Regr Slope , mw =	ession of Y on Y	X	1	Intercept, bw :	-0.080	13	
Correlation			.9970	•			
*If Correlation C	Coefficient < 0.9	90, check and rec	calibrate.	•			
			Set Point Ca	alculation			
From the TSP Fi	ield Calibration (Curve, take Qstd					
From the Regres	sion Equation, th	ne "Y" value acco	ording to				
			-		1/2		
		mw x ($\mathbf{Qstd} + \mathbf{bw} = [\mathbf{\Delta W} \ \mathbf{x}]$	(Pa/760) x (29	98/Ta)] ^{1/2}		
Therefore, Se	et Point; W = (m	nw x Qstd + bw)	² x (760 / Pa) x (7	Га / 298) =	4.14		
Remarks:							
					<u> </u>		
Conducted by:	Wong St	ning Kwai	Signature:	X	} \	Date:	11-Jan-22
	,, ong bi	2 - 2	· Signaturo.				11 (411 22
Checked by	Henry	Leung	Signature:	1-Pa	Mon	Date:	11-Jan-22

APPENDIX D WEATHER INFORMATION

Appendix D - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature $(^{\circ}C)^{1}$	Mean Relative Humidity $(\%)^2$	Precipitation (mm) ³
1-Jan-22	17.6	76	0.0
2-Jan-22	18.4	77	0.0
3-Jan-22	18.3	79	0.0
4-Jan-22	19.1	75	0.0
5-Jan-22	20.4	75	Trace
6-Jan-22	20.3	80	0.0
7-Jan-22	18.6	79	0.0
8-Jan-22	17.8	75	0.0
9-Jan-22	18.0	79	0.0
10-Jan-22	18.4	76	0.0
11-Jan-22	15.8	70	1.2
12-Jan-22	16.1	72	0.0
13-Jan-22	17.0	64	Trace
14-Jan-22	16.6	75	0.0
15-Jan-22	17.9	82	0.0
16-Jan-22	18.8	82	0.0
17-Jan-22	17.8	84	0.0
18-Jan-22	17.3	82	0.2
19-Jan-22	17.1	70	0.0
20-Jan-22	17.6	73	0.0
21-Jan-22	17.9	80	0.0
22-Jan-22	17.3	91	1.5
23-Jan-22	19.4	84	0.1
24-Jan-22	19.7	88	1.0
25-Jan-22	18.6	82	0.0
26-Jan-22	19.2	83	Trace
27-Jan-22	19.8	84	Trace
28-Jan-22	18.8	86	Trace
29-Jan-22	18.1	81	0.1
30-Jan-22	16.0	64	0.0
31-Jan-22	14.6	70	Trace

(Reporting Month: January 2022)

Remarks:

Source - Hong Kong Observatory

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

January 2022								
		and Directions						
Date	Time	Wind Speed m-s	Direction					
1 Jan 2022	12:00 AM	0.5	W					
1 Jan 2022	1:00 AM	1.9	NNW					
1 Jan 2022	2:00 AM	1.9	NNW					
1 Jan 2022	3:00 AM	1.9	NNW					
1 Jan 2022	4:00 AM	1.4	WNW					
1 Jan 2022	5:00 AM	1.0	NNW					
1 Jan 2022	6:00 AM	1.4	WNW					
1 Jan 2022	7:00 AM	1.4	NW					
1 Jan 2022	8:00 AM	1.4	NNW					
1 Jan 2022	9:00 AM	1.4	NNW					
1 Jan 2022	10:00 AM	1.9	NNW					
1 Jan 2022	11:00 AM	1.0	NNW					
1 Jan 2022	12:00 PM	1.4	NNW					
1 Jan 2022	1:00 PM	1.0	NW					
1 Jan 2022	2:00 PM	1.0	WNW					
1 Jan 2022	3:00 PM	0.5	NNW					
1 Jan 2022	4:00 PM	1.0	NW					
1 Jan 2022	5:00 PM	0.5	ENE					
1 Jan 2022	6:00 PM	0.5	NW					
1 Jan 2022	7:00 PM	0.5	ESE					
1 Jan 2022	8:00 PM	0.1	NNW					
1 Jan 2022	9:00 PM	0.1	NW					
1 Jan 2022	10:00 PM	0.5	N					
1 Jan 2022	11:00 PM	0.5	N					
2 Jan 2022	12:00 AM	1.0	NNW					
2 Jan 2022	1:00 AM	1.4	NNW					
2 Jan 2022	2:00 AM	1.4	NW					
2 Jan 2022	3:00 AM	1.0	NNW					
2 Jan 2022	4:00 AM	1.0	NNE					
2 Jan 2022	5:00 AM	1.0	NNE					
2 Jan 2022	6:00 AM	1.0	NNW					
2 Jan 2022	7:00 AM	0.5	ENE					
2 Jan 2022	8:00 AM	0.5	NNW					
2 Jan 2022	9:00 AM	0.1	NNW					
2 Jan 2022	10:00 AM	0.5	NNW					
2 Jan 2022	11:00 AM	0.1	NNW					
2 Jan 2022	12:00 PM	0.5	NNW					
2 Jan 2022	1:00 PM	0.5	N					
2 Jan 2022	2:00 PM	0.1	NNW					
2 Jan 2022	3:00 PM	0.1	NNW					
2 Jan 2022	4:00 PM	0.5	NE					
2 Jan 2022	5:00 PM	0.5	NE					
2 Jan 2022	6:00 PM	0.5	Е					
2 Jan 2022	7:00 PM	0.5	NNW					
2 Jan 2022	8:00 PM	1.0	NNW					
2 Jan 2022	9:00 PM	1.9	NNW					
2 Jan 2022	10:00 PM	2.8	NW					
2 Jan 2022	11:00 PM	3.2	WNW					
3 Jan 2022	12:00 AM	1.9	NNW					
3 Jan 2022	1:00 AM	1.4	NW					
3 Jan 2022	2:00 AM	1.9	ENE					
3 Jan 2022	3:00 AM	1.9	WNW					
3 Jan 2022	4:00 AM	1.4	WNW					
3 Jan 2022	5:00 AM	1.9	NNW					
3 Jan 2022	6:00 AM	1.4	NNW					
3 Jan 2022	7:00 AM	1.4	WNW					
3 Jan 2022	8:00 AM	1.0	WNW					

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
3 Jan 2022	9:00 AM	1.4	NNW	
3 Jan 2022	10:00 AM	1.9	NNW	
3 Jan 2022	11:00 AM	1.9	NNW	
3 Jan 2022	12:00 PM	2.3	NNW	
3 Jan 2022	1:00 PM	1.0	WNW	
3 Jan 2022	2:00 PM	1.0	NW	
3 Jan 2022	3:00 PM	1.4	NNW	
3 Jan 2022	4:00 PM	1.0	NNW	
3 Jan 2022	5:00 PM	0.5	S	
3 Jan 2022	6:00 PM	0.5	S	
3 Jan 2022	7:00 PM	0.5	S S	
3 Jan 2022 3 Jan 2022	8:00 PM 9:00 PM	0.5 0.5	S	
3 Jan 2022	10:00 PM	0.5	S	
3 Jan 2022	11:00 PM	1.0	WNW	
4 Jan 2022	12:00 AM	1.4	NNW	
4 Jan 2022	1:00 AM	1.9	NNW	
4 Jan 2022	2:00 AM	1.9	NNW	
4 Jan 2022	3:00 AM	1.4	NNW	
4 Jan 2022	4:00 AM	1.9	WNW	
4 Jan 2022	5:00 AM	1.9	NNW	
4 Jan 2022	6:00 AM	1.0	WNW	
4 Jan 2022	7:00 AM	1.9	NNW	
4 Jan 2022	8:00 AM	1.4	WNW	
4 Jan 2022	9:00 AM	1.4	WNW	
4 Jan 2022	10:00 AM	1.0	WNW	
4 Jan 2022	11:00 AM	1.0	WNW	
4 Jan 2022	12:00 PM	1.4	WNW	
4 Jan 2022	1:00 PM	1.9	WNW	
4 Jan 2022	2:00 PM	0.5	NW	
4 Jan 2022	3:00 PM	0.5	WNW	
4 Jan 2022	4:00 PM	1.0	NNW	
4 Jan 2022	5:00 PM	1.0	NW	
4 Jan 2022	6:00 PM	1.0	NW	
4 Jan 2022	7:00 PM	1.4	NNW	
4 Jan 2022	8:00 PM	1.9	NNW	
4 Jan 2022	9:00 PM	1.9	NNW	
4 Jan 2022	10:00 PM	2.8	NNW	
4 Jan 2022	11:00 PM	2.8	NNW	
5 Jan 2022	12:00 AM	2.8	NNW	
5 Jan 2022	1:00 AM	2.3	NNW	
5 Jan 2022	2:00 AM	2.8	NNW	
5 Jan 2022	3:00 AM	2.3	NNW	
5 Jan 2022	4:00 AM	2.3	NNW	
5 Jan 2022	5:00 AM	2.8	NNW	
5 Jan 2022	6:00 AM	1.9	NNW	
5 Jan 2022	7:00 AM	1.9	NNW	
5 Jan 2022	8:00 AM	1.4	NNW	
5 Jan 2022	9:00 AM	1.0	NNW	
5 Jan 2022 5 Jan 2022	10:00 AM	1.0	NW	
	11:00 AM	1.0 0.5	NW	
5 Jan 2022 5 Jan 2022	12:00 PM 1:00 PM	1.0	NW NW	
5 Jan 2022 5 Jan 2022	2:00 PM	0.5	WNW	
5 Jan 2022 5 Jan 2022	3:00 PM	0.5	WNW	
5 Jan 2022 5 Jan 2022	4:00 PM	0.5	WNW	
5 Jan 2022	5:00 PM	1.0	WNW	
5 Jan 2022	6:00 PM	1.0	WNW	
5 Jan 2022	7:00 PM	1.0	WNW	
5 Jan 2022	8:00 PM	1.4	NNW	
5 Juli 2022	0.001141	1.7	7 17 1 11	

January 2022			
Wind Speed and Directions			
Date	Time	Wind Speed m-s	Direction
5 Jan 2022	9:00 PM	1.9	NNW
5 Jan 2022	10:00 PM	2.8	NNW
5 Jan 2022	11:00 PM	3.7	NNW
6 Jan 2022	12:00 AM	2.3	NNW
6 Jan 2022	1:00 AM	2.3	NNW
6 Jan 2022	2:00 AM	1.9	NNW
6 Jan 2022	3:00 AM	1.4	NNW
6 Jan 2022	4:00 AM	1.0	SE
6 Jan 2022	5:00 AM	0.5	SE
6 Jan 2022	6:00 AM	0.5	ESE
6 Jan 2022	7:00 AM	0.5	ESE
6 Jan 2022	8:00 AM	1.0	SE
6 Jan 2022	9:00 AM	1.0	SE
6 Jan 2022	10:00 AM	1.4	ESE
6 Jan 2022	11:00 AM	1.0	ESE
6 Jan 2022	12:00 PM	1.4	ESE
6 Jan 2022	1:00 PM	1.4	SE
6 Jan 2022	2:00 PM	1.0	ESE
6 Jan 2022	3:00 PM	1.4	ESE
6 Jan 2022	4:00 PM	1.9	ESE
6 Jan 2022	5:00 PM	1.9	NNW
6 Jan 2022	6:00 PM	1.4	NNW
6 Jan 2022	7:00 PM	2.8	NNW
6 Jan 2022	8:00 PM	1.9	NW
6 Jan 2022	9:00 PM	1.9	WNW
6 Jan 2022	10:00 PM	2.3	NNW
6 Jan 2022	11:00 PM	1.9	NW
7 Jan 2022	12:00 AM	2.3	ENE
7 Jan 2022	1:00 AM	1.4	SE
7 Jan 2022	2:00 AM	1.9	NNW
7 Jan 2022	3:00 AM	1.9	NNW
7 Jan 2022	4:00 AM	0.5	WNW
7 Jan 2022	5:00 AM	0.5	SE
7 Jan 2022	6:00 AM	0.5	NW
7 Jan 2022	7:00 AM	1.0	NNW
7 Jan 2022	8:00 AM	0.5	WNW
7 Jan 2022	9:00 AM	0.5	WNW
7 Jan 2022	10:00 AM	0.5	SE
7 Jan 2022	11:00 AM	0.5	ESE
7 Jan 2022	12:00 PM	0.5	W
7 Jan 2022 7 Jan 2022	1:00 PM 2:00 PM	0.5 0.1	SE WNW
7 Jan 2022	3:00 PM		SE
7 Jan 2022 7 Jan 2022		1.0	
7 Jan 2022	4:00 PM 5:00 PM	0.5 0.5	SE SSE
7 Jan 2022	6:00 PM	0.5	E
7 Jan 2022	7:00 PM	1.0	E
7 Jan 2022	8:00 PM	1.0	NNW
7 Jan 2022	9:00 PM	1.0	WNW
7 Jan 2022	10:00 PM	1.0	ESE
7 Jan 2022	11:00 PM	1.4	NNW
8 Jan 2022	12:00 AM	1.4	NNW
8 Jan 2022	1:00 AM	1.4	NNW
8 Jan 2022	2:00 AM	1.9	NNW
8 Jan 2022	3:00 AM	1.0	WNW
8 Jan 2022	4:00 AM	1.0	WNW
8 Jan 2022	5:00 AM	1.0	WNW
8 Jan 2022	6:00 AM	1.0	WNW
8 Jan 2022	7:00 AM	0.5	NW
8 Jan 2022	8:00 AM	0.5	NW
0 Juli 2022	0.0071171	0.5	1177

Wind Speed and Directions	January 2022				
8 Jan 2022	Wind Speed and Directions				
8 Jan 2022 10:00 AM 1.4 NNW 8 Jan 2022 11:00 AM 1.0 NNW 8 Jan 2022 12:00 PM 0.5 WNW 8 Jan 2022 1:00 PM 0.5 WNW 8 Jan 2022 2:00 PM 0.5 NNW 8 Jan 2022 3:00 PM 0.5 WNW 8 Jan 2022 5:00 PM 0.5 NW 8 Jan 2022 6:00 PM 0.5 NW 8 Jan 2022 6:00 PM 0.5 NW 8 Jan 2022 7:00 PM 1.9 NNW 8 Jan 2022 9:00 PM 1.0 NNW 8 Jan 2022 19:00 PM 1.0 WNW 8 Jan 2022 11:00 PM 1.0 WNW 9 Jan 2022 11:00 AM 2.3 NNW 9 Jan 2022 1:00 AM 2.3 NNW 9 Jan 2022 1:00 AM 1.4 NW 9 Jan 2022 1:00 AM 1.4 NNW 9 Jan 2022 1:00 AM 1.4 NNW	Date	Time	Wind Speed m-s	Direction	
8 Jan 2022	8 Jan 2022	9:00 AM	0.5	WNW	
8 Jan 2022 12:00 PM 0.5 WNW 8 Jan 2022 1:00 PM 0.5 WNW 8 Jan 2022 2:00 PM 0.5 NNW 8 Jan 2022 3:00 PM 0.5 WNW 8 Jan 2022 4:00 PM 0.5 WNW 8 Jan 2022 5:00 PM 0.5 NW 8 Jan 2022 5:00 PM 0.5 NW 8 Jan 2022 7:00 PM 1.9 NNW 8 Jan 2022 8:00 PM 1.0 NNW 8 Jan 2022 10:00 PM 1.0 WNW 8 Jan 2022 10:00 PM 1.0 WNW 8 Jan 2022 11:00 PM 1.4 NW 9 Jan 2022 12:00 AM 1.0 WNW 8 Jan 2022 10:00 AM 2.3 NNW 9 Jan 2022 1:00 AM 2.3 NNW 9 Jan 2022 1:00 AM 1.4 NNW 9 Jan 2022 3:00 AM 1.4 NNW 9 Jan 2022 5:00 AM 1.9 NNW		10:00 AM	1.4	NNW	
8 Jan 2022 1:00 PM 0.5 WNW 8 Jan 2022 2:00 PM 0.5 NNW 8 Jan 2022 3:00 PM 0.5 WNW 8 Jan 2022 4:00 PM 0.5 WNW 8 Jan 2022 5:00 PM 0.5 NW 8 Jan 2022 6:00 PM 0.5 NW 8 Jan 2022 7:00 PM 1.9 NNW 8 Jan 2022 9:00 PM 1.0 WNW 8 Jan 2022 10:00 PM 1.0 WNW 8 Jan 2022 11:00 PM 1.4 NW 9 Jan 2022 12:00 AM 1.0 WNW 9 Jan 2022 1:00 AM 2.3 NNW 9 Jan 2022 1:00 AM 2.3 NNW 9 Jan 2022 3:00 AM 1.4 NW 9 Jan 2022 3:00 AM 1.4 NW 9 Jan 2022 3:00 AM 1.4 NNW 9 Jan 2022 5:00 AM 1.9 NNW 9 Jan 2022 5:00 AM 1.4 NNW					
8 Jan 2022 2:00 PM 0.5 NNW 8 Jan 2022 3:00 PM 0.5 WNW 8 Jan 2022 4:00 PM 0.5 WNW 8 Jan 2022 4:00 PM 0.5 NW 8 Jan 2022 5:00 PM 0.5 NW 8 Jan 2022 6:00 PM 0.5 NW 8 Jan 2022 7:00 PM 1.9 NNW 8 Jan 2022 7:00 PM 1.9 NNW 8 Jan 2022 9:00 PM 1.0 WNW 8 Jan 2022 10:00 PM 1.0 WNW 8 Jan 2022 10:00 PM 1.0 WNW 9 Jan 2022 11:00 PM 1.4 NW 9 Jan 2022 11:00 AM 1.0 WNW 9 Jan 2022 1:00 AM 1.4 NW 9 Jan 2022 2:00 AM 1.4 NW 9 Jan 2022 2:00 AM 1.4 NW 9 Jan 2022 5:00 AM 1.9 NNW 9 Jan 2022 5:00 AM 1.9 NNW 9 Jan 2022 5:00 AM 1.9 NNW 9 Jan 2022 5:00 AM 1.4 NNW 9 Jan 2022 5:00 PM 1.4 NNW 9 Jan 2022 5:00 PM 1.4 NNW 9 Jan 2022 11:00 AM 1.0 NNW 9 Jan 2022 11:00 AM 1.0 NNW 9 Jan 2022 12:00 PM 1.9 WNW 9 Jan 2022 1:00 PM 1.9 WNW 9 Jan 2022 1:00 PM 1.9 NW 9 Jan 2022 1:00 PM 1.0 WNW 9 Jan 2022 1:00 PM 1.0 WNW 10 Jan 2022 1:00 PM 1.4 NW 10 Jan 2022 1:00 PM 1.4 NW 10 Jan 2022 1:00 AM 1.9 NW 10 Jan 2022 1:00 AM 1.4 NW 10 Jan 2022 1:00 AM 1.0 NW 10 Jan 2022 1:00 AM 1.0 NW 10 Jan 2022 1:00 AM 1.0				WNW	
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9 Jan 2022 9:00 PM 1.0 WNW 9 Jan 2022 10:00 PM 1.9 WNW 9 Jan 2022 11:00 PM 1.4 NW 10 Jan 2022 12:00 AM 2.3 NNW 10 Jan 2022 1:00 AM 1.9 WNW 10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1	9 Jan 2022	7:00 PM	0.5	W	
9 Jan 2022 10:00 PM 1.9 WNW 9 Jan 2022 11:00 PM 1.4 NW 10 Jan 2022 12:00 AM 2.3 NNW 10 Jan 2022 1:00 AM 1.9 WNW 10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1	9 Jan 2022	8:00 PM	0.5	WNW	
9 Jan 2022 11:00 PM 1.4 NW 10 Jan 2022 12:00 AM 2.3 NNW 10 Jan 2022 1:00 AM 1.9 WNW 10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1	9 Jan 2022	9:00 PM	1.0	WNW	
10 Jan 2022 12:00 AM 2.3 NNW 10 Jan 2022 1:00 AM 1.9 WNW 10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1	9 Jan 2022	10:00 PM	1.9	WNW	
10 Jan 2022 12:00 AM 2.3 NNW 10 Jan 2022 1:00 AM 1.9 WNW 10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1	9 Jan 2022	11:00 PM	1.4	NW	
10 Jan 2022 2:00 AM 1.9 NNW 10 Jan 2022 3:00 AM 1.4 NW 10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1 SW					
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10 Jan 2022 4:00 AM 1.4 NNW 10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 SW	10 Jan 2022	2:00 AM	1.9	NNW	
10 Jan 2022 5:00 AM 1.4 NNW 10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 SW	10 Jan 2022	3:00 AM	1.4	NW	
10 Jan 2022 6:00 AM 1.0 WNW 10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 SSW 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 SW	10 Jan 2022	4:00 AM	1.4	NNW	
10 Jan 2022 7:00 AM 1.4 WNW 10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	5:00 AM	1.4	NNW	
10 Jan 2022 8:00 AM 1.0 WNW 10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	6:00 AM	1.0	WNW	
10 Jan 2022 9:00 AM 1.0 WNW 10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	7:00 AM	1.4	WNW	
10 Jan 2022 10:00 AM 1.4 WNW 10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	8:00 AM	1.0	WNW	
10 Jan 2022 11:00 AM 0.1 SSW 10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	9:00 AM	1.0	WNW	
10 Jan 2022 12:00 PM 0.1 SSW 10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	10:00 AM	1.4	WNW	
10 Jan 2022 1:00 PM 0.1 SSW 10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	11:00 AM	0.1	SSW	
10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	12:00 PM	0.1	SSW	
10 Jan 2022 2:00 PM 0.1 S 10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW	10 Jan 2022	1:00 PM	0.1	SSW	
10 Jan 2022 3:00 PM 0.1 SSW 10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW		2:00 PM	0.1	S	
10 Jan 2022 4:00 PM 0.1 SSW 10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW			0.1	SSW	
10 Jan 2022 5:00 PM 0.1 NW 10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW			0.1		
10 Jan 2022 6:00 PM 0.1 WSW 10 Jan 2022 7:00 PM 0.1 SW					
10 Jan 2022 7:00 PM 0.1 SW					
	10 Jan 2022	8:00 PM	0.5	WNW	

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
10 Jan 2022	9:00 PM	0.1	W	
10 Jan 2022	10:00 PM	0.5	W	
10 Jan 2022	11:00 PM	0.5	W	
11 Jan 2022	12:00 AM	0.5	SW	
11 Jan 2022	1:00 AM	1.0	WNW	
11 Jan 2022	2:00 AM	1.0	WNW	
11 Jan 2022	3:00 AM	1.0	WNW	
11 Jan 2022	4:00 AM	1.0	WNW	
11 Jan 2022	5:00 AM	0.5	WNW	
11 Jan 2022	6:00 AM	1.0	WNW	
11 Jan 2022	7:00 AM	1.0	NW	
11 Jan 2022	8:00 AM	0.1	WNW	
11 Jan 2022	9:00 AM	0.1	WNW	
11 Jan 2022	10:00 AM	0.1	WNW	
11 Jan 2022	11:00 AM	0.1	WNW	
11 Jan 2022	12:00 PM	0.1	WNW	
11 Jan 2022	1:00 PM	0.1	WNW	
11 Jan 2022	2:00 PM	0.1	WSW	
11 Jan 2022	3:00 PM	0.1	W	
11 Jan 2022	4:00 PM	0.1	WNW	
11 Jan 2022	5:00 PM	0.1	W	
11 Jan 2022	6:00 PM	0.1	SSW	
11 Jan 2022	7:00 PM	0.1	WSW	
11 Jan 2022	8:00 PM	0.1	S	
11 Jan 2022	9:00 PM	0.1	WSW	
11 Jan 2022	10:00 PM	0.1	WNW	
11 Jan 2022	11:00 PM	0.1	SSW	
12 Jan 2022	12:00 AM	0.1	SW	
12 Jan 2022	1:00 AM	0.1	SW	
12 Jan 2022	2:00 AM	0.1	WSW	
12 Jan 2022	3:00 AM	0.1	WSW	
12 Jan 2022	4:00 AM	0.1	WNW	
12 Jan 2022 12 Jan 2022	5:00 AM 6:00 AM	0.1	WNW S	
12 Jan 2022		0.1	ESE	
12 Jan 2022	7:00 AM 8:00 AM	0.1	SE	
12 Jan 2022	9:00 AM	0.1	SE	
12 Jan 2022	10:00 AM	0.1	SSW	
12 Jan 2022	11:00 AM	0.1	SSW	
12 Jan 2022	12:00 PM	0.1	SSE	
12 Jan 2022	1:00 PM	0.1	SSE	
12 Jan 2022	2:00 PM	0.1		
12 Jan 2022	3:00 PM	0.1	SSE	
12 Jan 2022	4:00 PM	0.1	SSW	
12 Jan 2022	5:00 PM	0.1	SSW	
12 Jan 2022	6:00 PM	0.1	SSW	
12 Jan 2022	7:00 PM	0.1	SSW	
12 Jan 2022	8:00 PM	0.1	SSW	
12 Jan 2022	9:00 PM	0.1	WNW	
12 Jan 2022	10:00 PM	0.1	WNW	
12 Jan 2022	11:00 PM	0.5	WNW	
13 Jan 2022	12:00 AM	1.0	WNW	
13 Jan 2022	1:00 AM	0.5	SW	
13 Jan 2022	2:00 AM	1.0	WNW	
13 Jan 2022	3:00 AM	0.5	SSW	
13 Jan 2022	4:00 AM	0.1	SSW	
13 Jan 2022	5:00 AM	0.1	SSW	
13 Jan 2022	6:00 AM	0.1	NNW	
13 Jan 2022	7:00 AM	0.1	NNW	
13 Jan 2022	8:00 AM	0.1	NNW	
	1	1		

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
13 Jan 2022	9:00 AM	0.5	NW	
13 Jan 2022	10:00 AM	0.5	WNW	
13 Jan 2022	11:00 AM	0.5	NNW	
13 Jan 2022	12:00 PM	1.9	NW	
13 Jan 2022	1:00 PM	1.0	ENE	
13 Jan 2022	2:00 PM	0.1	SW	
13 Jan 2022	3:00 PM	1.4	SW	
13 Jan 2022	4:00 PM	1.9	SW	
13 Jan 2022	5:00 PM	0.5	NW	
13 Jan 2022	6:00 PM	1.0	NW	
13 Jan 2022	7:00 PM	1.4	NW	
13 Jan 2022	8:00 PM	1.0	NW NW	
13 Jan 2022	9:00 PM	1.0	+	
13 Jan 2022 13 Jan 2022	10:00 PM 11:00 PM	1.0	NW	
13 Jan 2022 14 Jan 2022	12:00 AM	1.4	NW NW	
14 Jan 2022	1:00 AM	2.3	WNW	
14 Jan 2022	2:00 AM	1.4	NW	
14 Jan 2022	3:00 AM	1.0	NW	
14 Jan 2022	4:00 AM	0.5	SSW	
14 Jan 2022	5:00 AM	1.4	SW	
14 Jan 2022	6:00 AM	1.4	SE	
14 Jan 2022	7:00 AM	1.4	SE	
14 Jan 2022	8:00 AM	0.5	SE	
14 Jan 2022	9:00 AM	0.5	SSE	
14 Jan 2022	10:00 AM	0.1	SSW	
14 Jan 2022	11:00 AM	0.1	SSW	
14 Jan 2022	12:00 PM	0.1	SW	
14 Jan 2022	1:00 PM	0.1	SW	
14 Jan 2022	2:00 PM	0.1	WNW	
14 Jan 2022	3:00 PM	0.1	WNW	
14 Jan 2022	4:00 PM	0.1	W	
14 Jan 2022	5:00 PM	0.1	W	
14 Jan 2022	6:00 PM	0.1	W	
14 Jan 2022	7:00 PM	0.1	W	
14 Jan 2022	8:00 PM	0.1	W	
14 Jan 2022	9:00 PM	0.1	W	
14 Jan 2022	10:00 PM	0.5	WNW	
14 Jan 2022	11:00 PM	0.5	WNW	
15 Jan 2022	12:00 AM	0.5	WNW	
15 Jan 2022	1:00 AM	0.5	WSW	
15 Jan 2022	2:00 AM	1.0	WNW	
15 Jan 2022	3:00 AM	1.0	WNW	
15 Jan 2022	4:00 AM	0.5	WNW	
15 Jan 2022	5:00 AM	0.5	NW	
15 Jan 2022	6:00 AM	0.1	W	
15 Jan 2022	7:00 AM	0.1	W	
15 Jan 2022	8:00 AM	0.1		
15 Jan 2022	9:00 AM	0.1		
15 Jan 2022	10:00 AM	0.1	W	
15 Jan 2022	11:00 AM	0.1	W	
15 Jan 2022	12:00 PM	0.1	W	
15 Jan 2022	1:00 PM	0.1		
15 Jan 2022	2:00 PM	0.1	 W	
15 Jan 2022	3:00 PM	0.1	NNW	
15 Jan 2022 15 Jan 2022	4:00 PM 5:00 PM	0.1	NNW	
15 Jan 2022 15 Jan 2022	6:00 PM	0.1	NNW NNW	
15 Jan 2022	7:00 PM	0.1	NW	
15 Jan 2022	8:00 PM	0.1	WNW	
15 Jan 2022	0.00 T WI	0.1	AATAAA	

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
15 Jan 2022	9:00 PM	0.1	NNW	
15 Jan 2022	10:00 PM	0.5	NW	
15 Jan 2022	11:00 PM	0.5	ENE	
16 Jan 2022	12:00 AM	0.5	SSW	
16 Jan 2022	1:00 AM	0.5	SSW	
16 Jan 2022	2:00 AM	0.5	SSW	
16 Jan 2022	3:00 AM	0.1	SW	
16 Jan 2022	4:00 AM	1.0	WNW	
16 Jan 2022	5:00 AM	1.9	WNW	
16 Jan 2022	6:00 AM	1.0	WNW	
16 Jan 2022	7:00 AM	1.4	W	
16 Jan 2022	8:00 AM	1.0	WSW	
16 Jan 2022	9:00 AM	1.0	WSW	
16 Jan 2022	10:00 AM	1.0	WSW	
16 Jan 2022	11:00 AM	1.4	WNW	
16 Jan 2022	12:00 PM	1.0	ENE	
16 Jan 2022	1:00 PM	1.0	WNW	
16 Jan 2022	2:00 PM	2.3	WNW	
16 Jan 2022	3:00 PM	0.5	WNW	
16 Jan 2022	4:00 PM	0.5	WNW	
16 Jan 2022 16 Jan 2022	5:00 PM 6:00 PM	1.0	WNW	
16 Jan 2022	7:00 PM	1.0	WNW WNW	
16 Jan 2022	8:00 PM	0.5	NNE	
16 Jan 2022	9:00 PM	1.0	WNW	
16 Jan 2022	10:00 PM	1.0	WNW	
16 Jan 2022	11:00 PM	1.0	WNW	
17 Jan 2022	12:00 AM	1.4	WNW	
17 Jan 2022	1:00 AM	1.4	WNW	
17 Jan 2022	2:00 AM	3.7	WNW	
17 Jan 2022	3:00 AM	3.7	WNW	
17 Jan 2022	4:00 AM	3.7	WNW	
17 Jan 2022	5:00 AM	3.7	WNW	
17 Jan 2022	6:00 AM	2.3	WNW	
17 Jan 2022	7:00 AM	1.9	WNW	
17 Jan 2022	8:00 AM	1.4	WNW	
17 Jan 2022	9:00 AM	1.0	WNW	
17 Jan 2022	10:00 AM	1.9	WNW	
17 Jan 2022	11:00 AM	1.0	WNW	
17 Jan 2022	12:00 PM	0.5	W	
17 Jan 2022	1:00 PM	1.0	WNW	
17 Jan 2022	2:00 PM	0.5	WNW	
17 Jan 2022	3:00 PM	0.5	WNW	
17 Jan 2022	4:00 PM	0.5	WNW	
17 Jan 2022	5:00 PM	0.5	NW	
17 Jan 2022	6:00 PM	0.5	ESE	
17 Jan 2022	7:00 PM	0.1	ESE	
17 Jan 2022	8:00 PM	0.5	NW	
17 Jan 2022	9:00 PM	1.4	WNW	
17 Jan 2022	10:00 PM	1.4	WNW	
17 Jan 2022	11:00 PM	2.3	WNW	
18 Jan 2022	12:00 AM	2.8	WNW	
18 Jan 2022	1:00 AM	5.5	WNW	
18 Jan 2022	2:00 AM	5.9	WNW	
18 Jan 2022	3:00 AM	5.5	WNW	
18 Jan 2022	4:00 AM	4.6	WNW	
18 Jan 2022	5:00 AM	3.2	WNW	
18 Jan 2022	6:00 AM	1.0	WSW	
18 Jan 2022	7:00 AM	0.5	WSW	
18 Jan 2022	8:00 AM	1.0	WNW	

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
18 Jan 2022	9:00 AM	0.5	WNW	
18 Jan 2022	10:00 AM	1.4	WNW	
18 Jan 2022	11:00 AM	0.5	WSW	
18 Jan 2022	12:00 PM	1.0	W	
18 Jan 2022	1:00 PM	0.5	WNW	
18 Jan 2022	2:00 PM	1.0	W	
18 Jan 2022	3:00 PM	0.1	WNW	
18 Jan 2022	4:00 PM	0.1	NNE	
18 Jan 2022	5:00 PM	0.5	W	
18 Jan 2022	6:00 PM	1.0	WNW	
18 Jan 2022	7:00 PM	1.0	WNW	
18 Jan 2022 18 Jan 2022	8:00 PM 9:00 PM	1.4	WNW	
18 Jan 2022 18 Jan 2022	10:00 PM	1.9	WNW	
19 Jan 2022	11:00 PM 12:00 AM	2.3	WNW	
19 Jan 2022	1:00 AM	4.1	WNW	
19 Jan 2022	2:00 AM	2.8	WNW	
19 Jan 2022	3:00 AM	2.3	WNW	
19 Jan 2022	4:00 AM	1.0	WSW	
19 Jan 2022	5:00 AM	1.0	WSW	
19 Jan 2022	6:00 AM	1.4	WSW	
19 Jan 2022	7:00 AM	1.0	WSW	
19 Jan 2022	8:00 AM	1.0	W	
19 Jan 2022	9:00 AM	0.5	NE	
19 Jan 2022	10:00 AM	0.5	ENE	
19 Jan 2022	11:00 AM	0.5	NE	
19 Jan 2022	12:00 PM	1.0	NE	
19 Jan 2022	1:00 PM	0.5	WSW	
19 Jan 2022	2:00 PM	1.0	W	
19 Jan 2022	3:00 PM	1.0	WSW	
19 Jan 2022	4:00 PM	0.5	WSW	
19 Jan 2022	5:00 PM	1.0	WSW	
19 Jan 2022	6:00 PM	1.0	WSW	
19 Jan 2022	7:00 PM	1.0	WNW	
19 Jan 2022	8:00 PM	1.4	WNW	
19 Jan 2022	9:00 PM	0.5	WSW	
19 Jan 2022	10:00 PM	1.9	WNW	
19 Jan 2022	11:00 PM	1.0	WSW	
20 Jan 2022	12:00 AM	1.4	WNW	
20 Jan 2022	1:00 AM	1.9	WNW	
20 Jan 2022	2:00 AM	2.3	WNW	
20 Jan 2022	3:00 AM	1.9	WNW	
20 Jan 2022	4:00 AM	1.0	WNW	
20 Jan 2022	5:00 AM	1.0	ENE	
20 Jan 2022	6:00 AM	1.0	WSW	
20 Jan 2022	7:00 AM	1.0	WSW	
20 Jan 2022	8:00 AM	0.5	SW	
20 Jan 2022	9:00 AM	0.5	E	
20 Jan 2022	10:00 AM	1.0	ENE ENE	
20 Jan 2022 20 Jan 2022	11:00 AM 12:00 PM	1.4	ENE	
20 Jan 2022 20 Jan 2022	1:00 PM	1.0	ENE	
20 Jan 2022 20 Jan 2022	2:00 PM	1.9	ENE	
20 Jan 2022 20 Jan 2022	3:00 PM	1.4	ENE	
20 Jan 2022 20 Jan 2022	4:00 PM	1.4	ENE	
20 Jan 2022 20 Jan 2022	5:00 PM	1.4	ENE	
20 Jan 2022	6:00 PM	1.0	ENE	
20 Jan 2022	7:00 PM	1.0	ESE	
20 Jan 2022	8:00 PM	1.4	E	
	J.00 1 171	1		

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
20 Jan 2022	9:00 PM	1.9	ENE	
20 Jan 2022	10:00 PM	1.9	ESE	
20 Jan 2022	11:00 PM	1.4	ENE	
21 Jan 2022	12:00 AM	1.4	ESE	
21 Jan 2022	1:00 AM	1.9	E	
21 Jan 2022 21 Jan 2022	2:00 AM 3:00 AM	1.9 1.9	ENE ESE	
21 Jan 2022	4:00 AM	1.9	ENE	
21 Jan 2022	5:00 AM	1.4	SE	
21 Jan 2022	6:00 AM	1.9	ENE	
21 Jan 2022	7:00 AM	1.4	ENE	
21 Jan 2022	8:00 AM	1.0	ESE	
21 Jan 2022	9:00 AM	1.0	Е	
21 Jan 2022	10:00 AM	1.0	ENE	
21 Jan 2022	11:00 AM	1.0	ENE	
21 Jan 2022	12:00 PM	0.5	ESE	
21 Jan 2022	1:00 PM	1.0	SE	
21 Jan 2022	2:00 PM	1.4	ENE	
21 Jan 2022	3:00 PM	1.0	SW	
21 Jan 2022	4:00 PM	1.0	ENE	
21 Jan 2022	5:00 PM	1.0	E	
21 Jan 2022	6:00 PM	0.5	SW	
21 Jan 2022	7:00 PM	1.0	ENE	
21 Jan 2022	8:00 PM	1.0	ENE	
21 Jan 2022	9:00 PM	1.9	SW	
21 Jan 2022	10:00 PM	0.5	SW	
21 Jan 2022	11:00 PM	1.0	SSW	
22 Jan 2022	12:00 AM	1.0	SW	
22 Jan 2022 22 Jan 2022	1:00 AM 2:00 AM	1.0	SW SW	
22 Jan 2022	3:00 AM	1.0	SW	
22 Jan 2022	4:00 AM	0.5	SW	
22 Jan 2022	5:00 AM	0.1	SSE	
22 Jan 2022	6:00 AM	1.0	NE	
22 Jan 2022	7:00 AM	0.5	NE	
22 Jan 2022	8:00 AM	1.0	NE	
22 Jan 2022	9:00 AM	1.0	NE	
22 Jan 2022	10:00 AM	1.4	SE	
22 Jan 2022	11:00 AM	2.8	ENE	
22 Jan 2022	12:00 PM	2.3	ENE	
22 Jan 2022	1:00 PM	2.8	ENE	
22 Jan 2022	2:00 PM	3.2	ENE	
22 Jan 2022	3:00 PM	2.3	ENE	
22 Jan 2022	4:00 PM	1.4	ENE	
22 Jan 2022 22 Jan 2022	5:00 PM	2.3	ENE	
22 Jan 2022 22 Jan 2022	6:00 PM 7:00 PM	2.3	ENE ENE	
22 Jan 2022 22 Jan 2022	8:00 PM	3.2	ENE	
22 Jan 2022	9:00 PM	3.2	ENE	
22 Jan 2022	10:00 PM	3.7	ENE	
22 Jan 2022	11:00 PM	2.8	ENE	
23 Jan 2022	12:00 AM	2.3	ENE	
23 Jan 2022	1:00 AM	2.3	ENE	
23 Jan 2022	2:00 AM	2.3	ENE	
23 Jan 2022	3:00 AM	1.4	ENE	
23 Jan 2022	4:00 AM	1.4	ENE	
23 Jan 2022	5:00 AM	2.3	ENE	
23 Jan 2022	6:00 AM	2.8	ENE	
23 Jan 2022	7:00 AM	1.4	E	
23 Jan 2022	8:00 AM	1.4	ESE	

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
23 Jan 2022	9:00 AM	1.4	ENE	
23 Jan 2022	10:00 AM	1.9	ENE	
23 Jan 2022	11:00 AM	1.4	E	
23 Jan 2022	12:00 PM	1.4	SE	
23 Jan 2022	1:00 PM	1.9	ESE	
23 Jan 2022 23 Jan 2022	2:00 PM 3:00 PM	1.4	E ESE	
23 Jan 2022	4:00 PM	1.0	ESE	
23 Jan 2022	5:00 PM	1.0	ESE	
23 Jan 2022	6:00 PM	1.4	ENE	
23 Jan 2022	7:00 PM	2.3	ENE	
23 Jan 2022	8:00 PM	2.3	ENE	
23 Jan 2022	9:00 PM	2.3	ENE	
23 Jan 2022	10:00 PM	1.0	SW	
23 Jan 2022	11:00 PM	1.4	SW	
24 Jan 2022	12:00 AM	1.0	SW	
24 Jan 2022	1:00 AM	1.0	SW	
24 Jan 2022	2:00 AM	1.0	SSW	
24 Jan 2022	3:00 AM	1.0	SW	
24 Jan 2022	4:00 AM	0.5	ENE	
24 Jan 2022	5:00 AM	0.1	NE	
24 Jan 2022	6:00 AM	1.0	SSW	
24 Jan 2022	7:00 AM	1.0	SSW	
24 Jan 2022	8:00 AM	1.4	NNW	
24 Jan 2022	9:00 AM	1.0	NNW	
24 Jan 2022	10:00 AM	1.0	NNW	
24 Jan 2022	11:00 AM	3.7	NW	
24 Jan 2022	12:00 PM	2.3	WNW	
24 Jan 2022 24 Jan 2022	1:00 PM 2:00 PM	1.4 2.3	NNW NW	
24 Jan 2022	3:00 PM	1.9	ENE	
24 Jan 2022	4:00 PM	2.3	SW	
24 Jan 2022	5:00 PM	2.8	SW	
24 Jan 2022	6:00 PM	1.9	SW	
24 Jan 2022	7:00 PM	1.0	SSW	
24 Jan 2022	8:00 PM	1.0	SSW	
24 Jan 2022	9:00 PM	1.4	SW	
24 Jan 2022	10:00 PM	1.4	SW	
24 Jan 2022	11:00 PM	1.0	SW	
25 Jan 2022	12:00 AM	1.0	SW	
25 Jan 2022	1:00 AM	1.4	SW	
25 Jan 2022	2:00 AM	1.9	ENE	
25 Jan 2022	3:00 AM	1.0	ESE	
25 Jan 2022	4:00 AM	1.9	Е	
25 Jan 2022 25 Jan 2022	5:00 AM	1.4	E ESE	
25 Jan 2022 25 Jan 2022	6:00 AM 7:00 AM	1.4	ESE	
25 Jan 2022	8:00 AM	1.4	E	
25 Jan 2022	9:00 AM	1.4	ENE	
25 Jan 2022	10:00 AM	1.0	ENE	
25 Jan 2022	11:00 AM	1.0	NNE	
25 Jan 2022	12:00 PM	1.9	ENE	
25 Jan 2022	1:00 PM	1.9	ENE	
25 Jan 2022	2:00 PM	1.4	ENE	
25 Jan 2022	3:00 PM	1.0	ENE	
25 Jan 2022	4:00 PM	0.5	WNW	
25 Jan 2022	5:00 PM	0.5	Е	
25 Jan 2022	6:00 PM	0.1	ENE	
25 Jan 2022	7:00 PM	1.0	Е	
25 Jan 2022	8:00 PM	1.4	E	

January 2022				
Wind Speed and Directions				
Date	Time	Wind Speed m-s	Direction	
25 Jan 2022	9:00 PM	1.0	Е	
25 Jan 2022	10:00 PM	1.0	NW	
25 Jan 2022	11:00 PM	1.0	W	
26 Jan 2022	12:00 AM	1.4	W	
26 Jan 2022	1:00 AM	2.3	NW	
26 Jan 2022	2:00 AM	2.8	NW	
26 Jan 2022	3:00 AM	1.9	NW	
26 Jan 2022	4:00 AM	1.4	WNW	
26 Jan 2022	5:00 AM	1.4	NW	
26 Jan 2022	6:00 AM	0.5	W	
26 Jan 2022	7:00 AM	1.0	ESE	
26 Jan 2022	8:00 AM	0.5	Е	
26 Jan 2022	9:00 AM	0.5	WSW	
26 Jan 2022	10:00 AM	0.5	Е	
26 Jan 2022	11:00 AM	0.5	ESE	
26 Jan 2022	12:00 PM	0.5	W	
26 Jan 2022	1:00 PM	0.5	WSW	
26 Jan 2022	2:00 PM	0.5	W	
26 Jan 2022	3:00 PM	0.5	ESE	
26 Jan 2022	4:00 PM	0.5	ENE	
26 Jan 2022	5:00 PM	0.5	NNE	
26 Jan 2022	6:00 PM	0.5	ENE	
26 Jan 2022	7:00 PM	0.5	NNW	
26 Jan 2022	8:00 PM	1.0	W	
26 Jan 2022	9:00 PM	1.4	W	
26 Jan 2022	10:00 PM	1.9	NW	
26 Jan 2022	11:00 PM	1.9	NW	
27 Jan 2022	12:00 AM	2.8	NW	
27 Jan 2022 27 Jan 2022	1:00 AM	1.9 1.4	NW W	
27 Jan 2022	2:00 AM 3:00 AM	1.9	NW	
27 Jan 2022	4:00 AM	1.9	NW	
27 Jan 2022	5:00 AM	1.4	W	
27 Jan 2022	6:00 AM	1.0	W	
27 Jan 2022	7:00 AM	1.0	NW	
27 Jan 2022	8:00 AM	1.0	NW	
27 Jan 2022	9:00 AM	0.5	NW	
27 Jan 2022	10:00 AM	0.5	NW	
27 Jan 2022	11:00 AM	1.0	NW	
27 Jan 2022	12:00 PM	1.4	W	
27 Jan 2022	1:00 PM	1.0	W	
27 Jan 2022	2:00 PM	1.0	W	
27 Jan 2022	3:00 PM	1.4	W	
27 Jan 2022	4:00 PM	1.4	WSW	
27 Jan 2022	5:00 PM	1.0	ESE	
27 Jan 2022	6:00 PM	0.5	W	
27 Jan 2022	7:00 PM	1.0	NE	
27 Jan 2022	8:00 PM	0.5	NW	
27 Jan 2022	9:00 PM	1.0	WNW	
27 Jan 2022	10:00 PM	1.0	W	
27 Jan 2022	11:00 PM	1.4	W	
28 Jan 2022	12:00 AM	1.4	NW	
28 Jan 2022	1:00 AM	1.0	WNW	
28 Jan 2022	2:00 AM	1.4	WNW	
28 Jan 2022	3:00 AM	1.4	NW	
28 Jan 2022	4:00 AM	1.4	W	
28 Jan 2022	5:00 AM	1.4	NW	
28 Jan 2022	6:00 AM	1.0	WNW	
28 Jan 2022	7:00 AM	1.0	WNW	
28 Jan 2022	8:00 AM	1.4	WNW	

January 2022								
	Wind Speed	and Directions						
Date	Time	Wind Speed m-s	Direction					
28 Jan 2022	9:00 AM	1.4	WNW					
28 Jan 2022	10:00 AM	0.5	NE					
28 Jan 2022	11:00 AM	1.0	ENE					
28 Jan 2022	12:00 PM	0.5	ENE					
28 Jan 2022	1:00 PM	1.0	WNW					
28 Jan 2022	2:00 PM	1.0	WSW					
28 Jan 2022	3:00 PM	1.0	W					
28 Jan 2022	4:00 PM	0.5	WSW					
28 Jan 2022	5:00 PM	0.5	WNW					
28 Jan 2022	6:00 PM	1.4	WNW					
28 Jan 2022	7:00 PM	0.5	ESE					
28 Jan 2022	8:00 PM	0.5	Е					
28 Jan 2022	9:00 PM	0.5	WNW					
28 Jan 2022	10:00 PM	1.9	NW					
28 Jan 2022	11:00 PM	1.0	W					
29 Jan 2022	12:00 AM	1.4	W					
29 Jan 2022	1:00 AM	1.0	NW					
29 Jan 2022	2:00 AM	1.4	WNW					
29 Jan 2022	3:00 AM	1.0	ENE					
29 Jan 2022	4:00 AM	1.0	ENE					
29 Jan 2022	5:00 AM	0.5	ESE					
29 Jan 2022	6:00 AM	1.0	SE					
29 Jan 2022	7:00 AM	1.4	ENE					
29 Jan 2022	8:00 AM	1.0	SW					
29 Jan 2022	9:00 AM	1.0	ENE					
29 Jan 2022	10:00 AM	1.0	E					
29 Jan 2022	11:00 AM	0.5	SW					
29 Jan 2022	12:00 PM	1.0	ENE					
29 Jan 2022 29 Jan 2022	1:00 PM	1.0	ENE SW					
29 Jan 2022 29 Jan 2022	2:00 PM 3:00 PM	0.5	SW					
29 Jan 2022	4:00 PM	1.0						
29 Jan 2022 29 Jan 2022	5:00 PM	1.0	SSW SW					
29 Jan 2022	6:00 PM	1.0	SW					
29 Jan 2022	7:00 PM	1.9	SW					
29 Jan 2022	8:00 PM	1.0	SW					
29 Jan 2022	9:00 PM	0.5	SW					
29 Jan 2022	10:00 PM	0.1	SSE					
29 Jan 2022	11:00 PM	1.0	NE					
30 Jan 2022	12:00 AM	0.5	NE					
30 Jan 2022	1:00 AM	1.0	NE					
30 Jan 2022	2:00 AM	1.0	NE					
30 Jan 2022	3:00 AM	1.4	SE					
30 Jan 2022	4:00 AM	2.8	ENE					
30 Jan 2022	5:00 AM	2.3	ENE					
30 Jan 2022	6:00 AM	2.8	ENE					
30 Jan 2022	7:00 AM	3.2	ENE					
30 Jan 2022	8:00 AM	2.3	ENE					
30 Jan 2022	9:00 AM	1.4	ENE					
30 Jan 2022	10:00 AM	2.3	ENE					
30 Jan 2022	11:00 AM	1.9	ENE					
30 Jan 2022	12:00 PM	2.3	ENE					
30 Jan 2022	1:00 PM	3.2	ENE					
30 Jan 2022	2:00 PM	1.0	ENE					
30 Jan 2022	3:00 PM	1.0	ENE					
30 Jan 2022	4:00 PM	0.5	ESE					
30 Jan 2022	5:00 PM	1.0	SE					
30 Jan 2022	6:00 PM	1.4	ENE					
30 Jan 2022	7:00 PM	1.0	SW					
30 Jan 2022	8:00 PM	1.0	ENE					

	Tomuos	ry 2022	
		and Directions	
Date	Time	Wind Speed m-s	Direction
30 Jan 2022	9:00 PM	1.0	Е
30 Jan 2022	10:00 PM	0.5	SW
30 Jan 2022	11:00 PM	1.0	ENE
31 Jan 2022	12:00 AM	1.0	ENE
31 Jan 2022	1:00 AM	1.9	SW
31 Jan 2022	2:00 AM	0.5	SW
31 Jan 2022	3:00 AM	1.0	SSW
31 Jan 2022	4:00 AM	1.0	SW
31 Jan 2022	5:00 AM	1.0	SW
31 Jan 2022	6:00 AM	1.9	SW
31 Jan 2022	7:00 AM	1.0	SW
31 Jan 2022	8:00 AM	0.5	SW
31 Jan 2022	9:00 AM	0.1	SSE
31 Jan 2022	10:00 AM	1.0	NE
31 Jan 2022	11:00 AM	0.5	NE
31 Jan 2022	12:00 PM	1.0	NE
31 Jan 2022	1:00 PM	1.0	NE
31 Jan 2022	2:00 PM	1.4	SE
31 Jan 2022	3:00 PM	2.8	ENE
31 Jan 2022	4:00 PM	2.3	ENE
31 Jan 2022	5:00 PM	2.8	ENE
31 Jan 2022	6:00 PM	3.2	ENE
31 Jan 2022	7:00 PM	2.3	ENE
31 Jan 2022	8:00 PM	1.4	ENE
31 Jan 2022	9:00 PM	0.9	NNE
31 Jan 2022	10:00 PM	0.9	Е
31 Jan 2022	11:00 PM	0.4	ENE

APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(μg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Jan-22	Sunny	291.7	766.3	3.3233	3.4933	0.1701	3606.9	3630.9	24.0	1.24	1.23	1.24	1779.6	95.6		
8-Jan-22	Sunny	290.9	765.5	3.3162	3.4816	0.1655	3678.9	3702.9	24.0	1.22	1.22	1.22	1761.9	93.9		
13-Jan-22	Sunny	289.8	766.8	3.3454	3.5814	0.2360	3702.9	3726.9	24.0	1.23	1.23	1.23	1765.8	133.6	191.0	260.0
19-Jan-22	Sunny	290.4	765.1	3.3347	3.5429	0.2082	3726.0	3750.0	24.0	1.22	1.22	1.22	1762.9	118.1	191.0	200.0
25-Jan-22	Fine	291.9	763.7	3.3100	3.5628	0.2528	3750.9	3774.9	24.0	1.22	1.22	1.22	1757.8	143.8		
29-Jan-22	Cloudy	290.1	763.0	3.3149	3.5091	0.1942	3774.9	3798.9	24.0	1.22	1.23	1.22	1762.4	110.2		
Note:	Bold Italic means A	ction Level exce	edance				-		-			-	Min	93.9		-
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	143.8		
													Average	115.9		

Location CKL2 - Flat 103 Cha Kwo Ling Village

	Weather	Air Tomp	Atmoonharia Draggura	Filter W	eight (g)	Dortioulata	Elapse	e Time	Compling	Flow Rate	(m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Initial	Final	Particulate weight (g)	Initial	Final	Sampling Time (hrs.)	Initial	Final	(m ³ /min)		(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Jan-22	Sunny	291.7	766.3	3.3048	3.4881	0.1833	15775.2	15799.2	24.0	1.24	1.24	1.24	1782.8	102.8		
8-Jan-22	Sunny	290.9	765.5	3.3086	3.5960	0.2874	15847.2	15871.2	24.0	1.23	1.22	1.23	1764.8	162.9		
13-Jan-22	Sunny	289.8	766.8	3.3141	3.4980	0.1838	15871.2	15895.2	24.0	1.23	1.23	1.23	1769.2	103.9	183.0	260.0
19-Jan-22	Sunny	290.4	765.1	3.3292	3.4874	0.1582	15895.0	15919.0	24.0	1.23	1.23	1.23	1765.9	89.6	103.0	200.0
25-Jan-22	Fine	291.9	763.7	3.3183	3.4957	0.1774	15919.2	15943.2	24.0	1.22	1.22	1.22	1760.3	100.8		
29-Jan-22	Cloudy	290.1	763.0	3.3133	3.4654	0.1521	15943.2	15967.2	24.0	1.22	1.23	1.23	1764.5	86.2		
Note:	Bold Italic means A	ction Level exce	edance										Min	86.2		
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	162.9		
													Average	107.7		

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

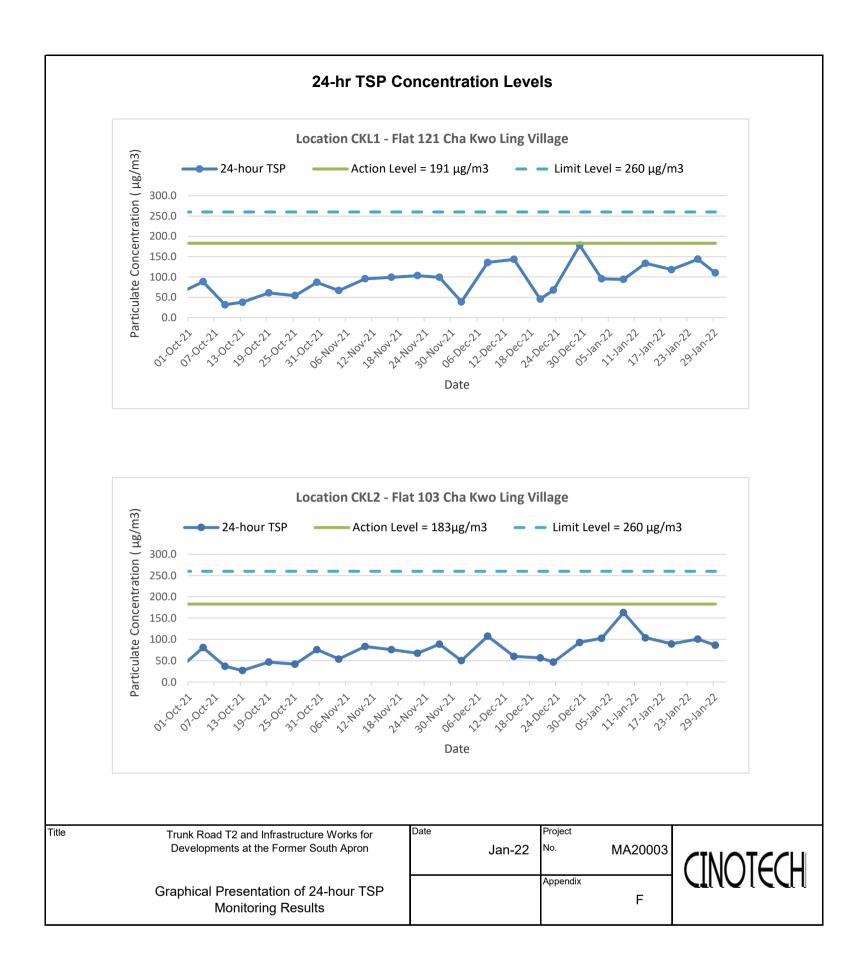
	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	Time	Sampling	Flow Rate	e (m³/min.)	Av. Flow	Total vol	Conc.	Action	Limit
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(μg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Jan-22	Sunny	291.7	766.3	3.2800	3.4177	0.1377	15175.5	15199.5	24.0	1.22	1.21	1.22	1750.2	78.7		
8-Jan-22	Sunny	290.9	765.5	3.3180	3.4352	0.1172	15199.5	15223.5	24.0	1.22	1.22	1.22	1751.5	66.9		
13-Jan-22	Sunny	289.8	766.8	3.3296	3.4696	0.1401	15223.5	15247.5	24.0	1.23	1.23	1.23	1766.6	79.3	177.0	260.0
19-Jan-22	Sunny	290.4	765.1	3.3133	3.4654	0.1521	15247.5	15271.5	24.0	1.23	1.22	1.22	1763.6	86.2	177.0	200.0
25-Jan-22	Sunny	291.9	763.7	3.3619	3.4718	0.1099	15271.5	15295.5	24.0	1.22	1.22	1.22	1758.2	62.5		
29-Jan-22	Cloudy	290.1	763.0	3.3948	3.4842	0.0894	15295.5	15319.5	24.0	1.22	1.23	1.22	1762.2	50.7		
Note:	Bold Italic means A	Action Level exce	edance										Min	50.7		
	Bold Italic with und	<u>derline</u> means L	imit Level exceedance										Max	86.2		
													Average	70.7		

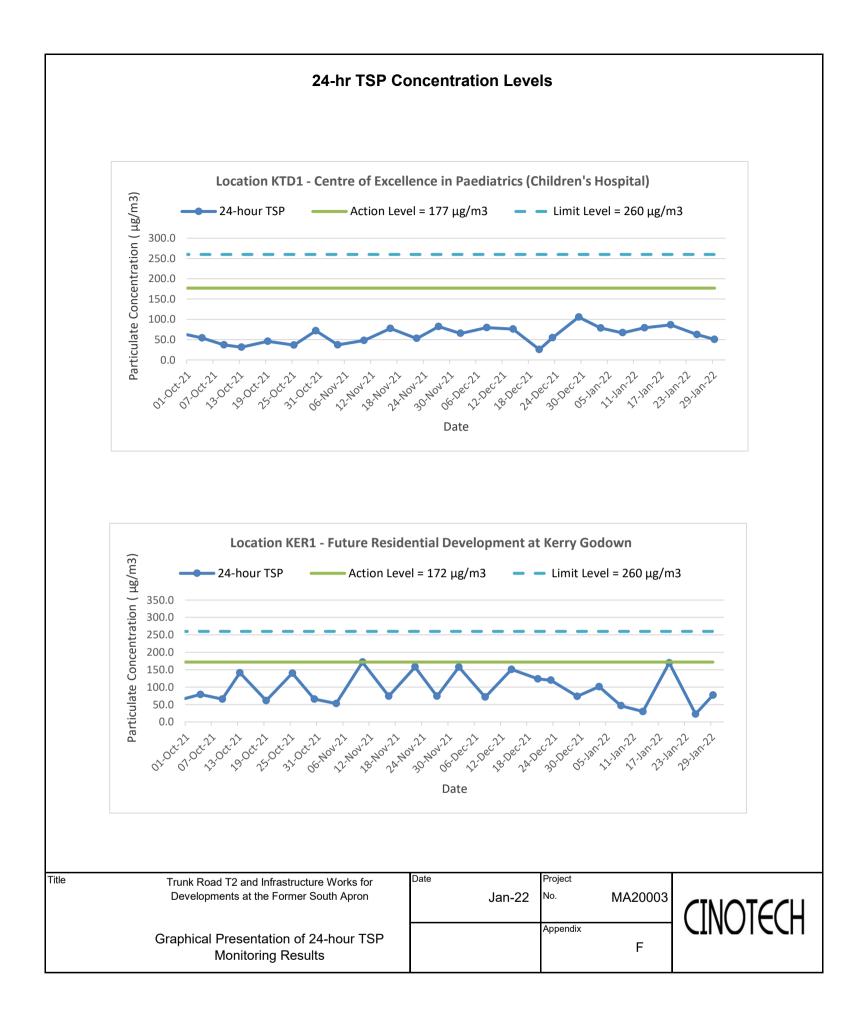
Location KER1 - Future Residential Development at Kerry Godown

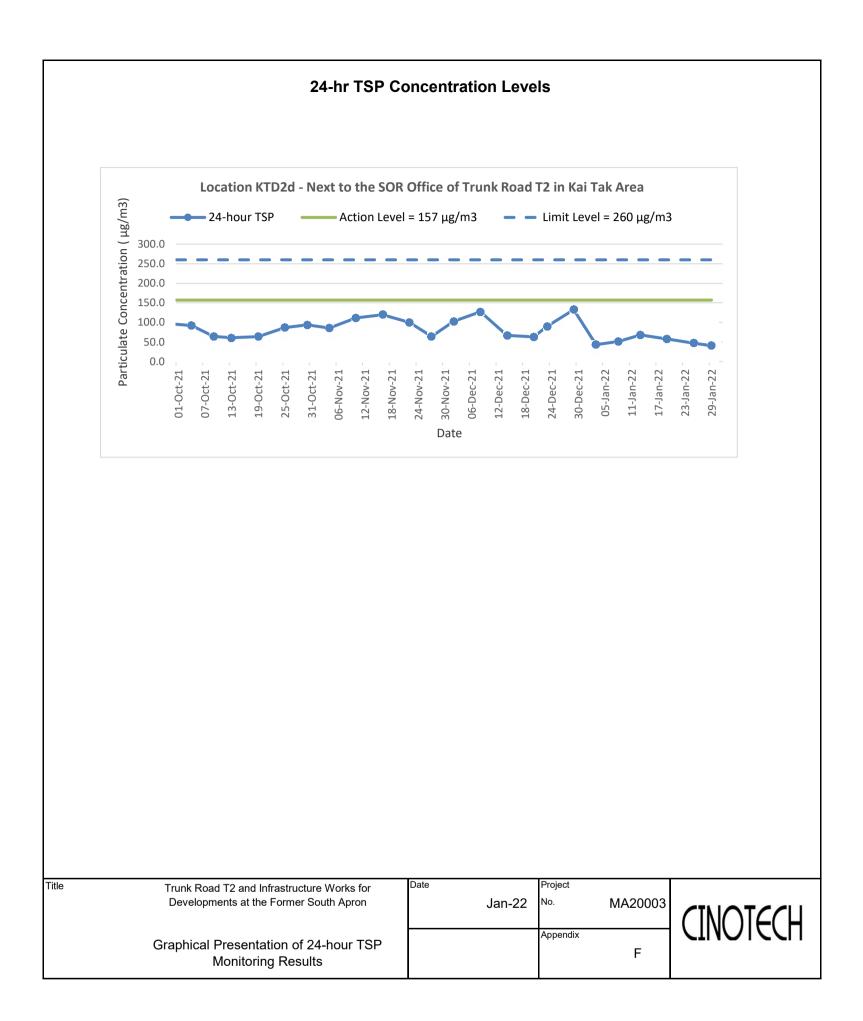
	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Jan-22	Sunny	291.7	766.3	3.3673	3.5441	0.1769	12840.3	12864.3	24.0	1.21	1.21	1.21	1746.1	101.3		
8-Jan-22	Sunny	290.9	765.5	3.3167	3.3980	0.0813	12864.5	12888.5	24.0	1.21	1.21	1.21	1747.6	46.5		
13-Jan-22	Sunny	289.8	766.8	3.3659	3.4185	0.0526	12893.1	12917.1	24.0	1.23	1.23	1.23	1765.2	29.8	172.0	260.0
19-Jan-22	Sunny	290.4	765.1	3.3824	3.6813	0.2989	12917.1	12941.1	24.0	1.22	1.22	1.22	1761.8	169.7	172.0	200.0
25-Jan-22	Sunny	291.9	763.7	3.3842	3.4241	0.0398	12941.1	12965.1	24.0	1.22	1.22	1.22	1755.6	22.7		
29-Jan-22	Cloudy	290.1	763.0	3.3949	3.5305	0.1356	12965.1	12989.1	24.0	1.22	1.23	1.22	1760.2	77.1		
Note:	Bold Italic means A	Action Level exce	edance										Min	22.7		
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	169.7		
													Average	74.5	1	

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

	Weather	Air Temp.	Atmospheric Pressure,	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	(m³/min.)	Av Flow	Total vol.	Conc.	Action	Limit
Start Date	Condition	(K)	Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time (hrs.)	Initial	Final	(m ³ /min)	(m ³)	(μg/m ³)	Level (µg/m3)	Level (µg/m3)
3-Jan-22	Sunny	291.7	766.3	3.3158	3.3918	0.0761	13593.8	13617.8	24.0	1.23	1.22	1.22	1762.6	43.2		
8-Jan-22	Sunny	290.9	765.5	3.3243	3.4145	0.0902	13617.8	13641.8	24.0	1.23	1.22	1.23	1764.3	51.1		
13-Jan-22	Sunny	289.8	766.8	3.3929	3.5130	0.1201	13641.8	13665.8	24.0	1.23	1.23	1.23	1766.6	68.0	172.0	260.0
19-Jan-22	Sunny	290.4	765.1	3.3313	3.4327	0.1014	13671.8	13695.8	24.0	1.22	1.22	1.22	1762.6	57.5	172.0	200.0
25-Jan-22	Sunny	291.9	763.7	3.3168	3.3990	0.0822	13695.8	13719.8	24.0	1.22	1.22	1.22	1755.7	46.8		
29-Jan-22	Cloudy	290.1	763.0	3.3755	3.4470	0.0715	13719.2	13743.2	24.0	1.22	1.23	1.22	1760.9	40.6		
Note:	Bold Italic means A	Action Level exce	edance										Min	40.6		_
	Bold Italic with und	<i>lerline</i> means L	imit Level exceedance										Max	68.0		
													Average	51.2		







APPENDIX G COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING



Calibration Certificate

0025914

Object 1: SVAN957 SLM Customer: Cinotech Consultants Limited Serial No. /Ref. No. : 23851 / N-08-12 RM 1710, Technology Park, Object 2: Microphone Serial No. /Ref. No. : 18 On Lai Street, Shatin, N.T. 43676 Hong Kong Customer Code: Manufacturer: SVEC09005 Svantek 0025914 Date of calibration: 22/01/2021 Certificate No.: Date of the recommended re-calibration: 22/01/2022 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.6dB	-0.4dB	+/- 1.5dB	1
114.0dB	113.5dB	-0.5dB	+/- 1.5dB	1

Measuring equipment

index	Calibrator / Master	Traceability
1	Master Sound Meter, SVAN949,sn:8571	IEC61672
2	Sound Calibrator, SV30A sn:32580	IEC60942

Ambient conditions

Temperature (20...26)°C

Humidity (20...60)%RH

Measuring procedure

Calibrated by Type 1 Sound Calibrator with Master Sound Level Meter under 1kHz Frequency.

Uncertainty

+/- 0.2 dB for probability not less than 95%.

Conformity

- 1.The resulted values were those obtained at the time of test and applies only to the item calibrated.
- 2. The measurement uncertainty was calculated according to the regulations of GUM with the coverage factor k=2 and contains the uncertainty of the measuring procedure and the uncertainty of the measuring system.
- 3. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC17025.
- 4.HKAS has accredited this laboratory (HOKLAS 267) for specific calibration activities as listed in the HOKLAS directory of accredited laboratories.
- 5. The calibrations certificate may not be reproduced.

Measured value(s)	within	the allowable deviation.
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Performed by

Approved by

Calibration Technician

Quality Manager

Appleone Calibration Laboratory Ltd.

Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR

Tel: +852 2370 4437 Fax: +852 2114 0393

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



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

Application No. : HP00034

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-01

Manufacturer: : BSWA Technology

Other information : Mo

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

Date Received : 10 Nov 2021

Test Period : 10 Nov 2021 to 17 Nov 2021

Test Requested : Performance checking for Sound Level Meter

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

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00152 Issue Date : 19 Nov 2021

Application No. : HP00034

Certificate of Calibration

Measuring equipment

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

Test Result :

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 1.5
114.0	114.0	0.0	± 1.5

Note

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

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00145 Issue Date : 04 Nov 2021

Application No. : HP00029

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-03

Manufacturer: : BSWA Technology

Other information : Mo

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

Date Received : 26 Oct 2021

Test Period : 26 Oct 2021 to 02 Nov 2021

Test Requested : Performance checking for Sound Level Meter

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

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00145 | Issue Date : 04 Nov 2021

Application No. : HP00029

Certificate of Calibration

Measuring equipment

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

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	93.9	-0.1	± 1.5
114.0	114.0	0.0	± 1.5

Note

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

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00149 Issue Date : 16 Nov 2021

Application No. : HP00031

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Sample Description : Submitted equipment stated to be Integrating Sound Level Meter.

Equipment No.: : N-12-04

Manufacturer: : BSWA Technology

Other information

Model No.	BSWA 308
Serial No.	580238
Microphone No.	590073

Date Received : 05 Nov 2021

Test Period : 08 Nov 2021 to 12 Nov 2021

Test Requested : Performance checking for Sound Level Meter

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

documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00149 | Issue Date : 16 Nov 2021

Application No. : HP00031

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	93.7	-0.3	± 1.5
114.0	114.0	0.0	± 1.5

Note

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

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00150 Issue Date : 16 Nov 2021

Application No. : HP00032

Certificate of Calibration

Applicant : Cinotech Consultants Limited

RM 1710, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

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

Equipment No.: : N-13-01

Manufacturer: : SOUNDTEK

Other information : Model No. ST-120

Serial No. 181001608

Date Received : 05 Nov 2021

Test Period : 08 Nov 2021 to 12 Nov 2021

Test Requested : Performance checking for Sound Level Calibrator

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

the documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



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

Application No. : HP00032

Certificate of Calibration

Measuring equipment

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

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608
Equipment No.	N-12-03

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.1	+0.1	± 0.3
114.0	114.0	0.0	± 0.5

Note

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

- End of report -

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00161 | Issue Date : 16 Nov 2021

Application No. : HP00041

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 : 05 Nov 2021

Test Period : 08 Nov 2021 to 12 Nov 2021

Test Requested : Performance checking for Sound Level Calibrator

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

the documented procedures and using standard and instrument which are

recommended by the manufacturer, or equivalent.

Test conditions : Room Temperature: 22-25 degree Celsius

Relative Humidity: 35-70%

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

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

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

For and on behalf of HIGH PRECISION CHEMICAL TESTING LIMITED

Lee Wai Kit Laboratory Manager

Rm 1904, Technology Park 18 On Lai Street, Shatin

NT, Hong Kong

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



Report No. : 00161 | Issue Date : 16 Nov 2021

Application No. : HP00041

Certificate of Calibration

Measuring equipment

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

Description	Sound Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	570188
Microphone No.	570608
Equipment No.	N-12-03

Test Result

Reference value, dB	Indication value, dB	Deviation, dB	Allowed deviation, dB
94.0	94.2	+0.2	± 0.3
114.0	114.4	+0.4	± 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 -

APPENDIX H NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Appendix H - Noise Monitoring Results

(0700-1900 hrs on Normal Weekdays)

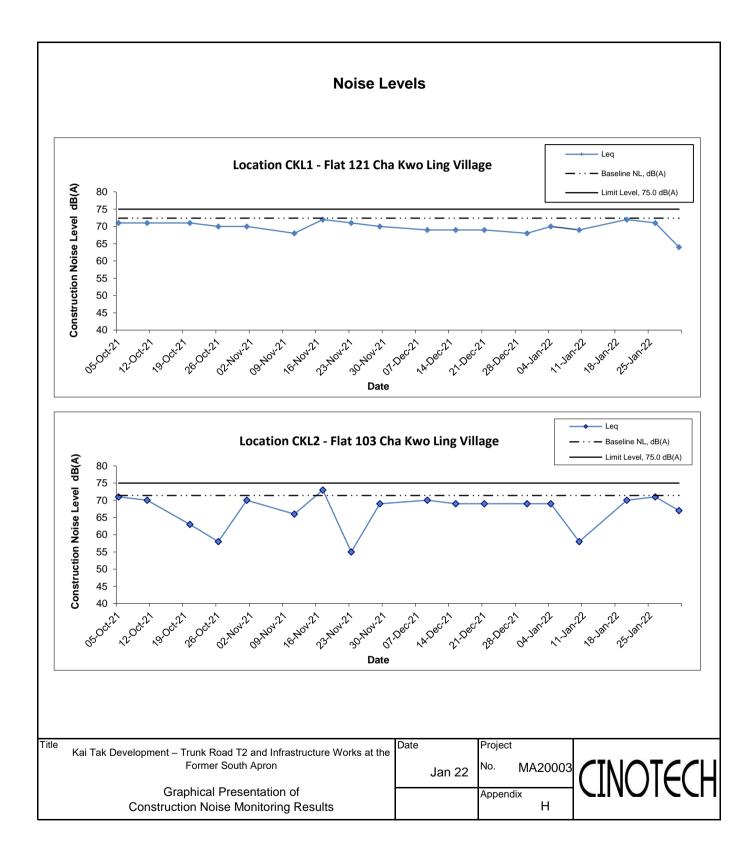
Location CKL1 - Flat 121 Cha Kwo Ling Village								
				Unit: dB	(A) (30-min)			
Date	Time Weather		Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Time vveatilei	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Jan-22	13:30	Fine	69.7	73.2	59.9	72.4	69.7 Measured ≦ Baseline	
10-Jan-22	10:30	Sunny	68.8	72.7	57.5	72.4	68.8 Measured ≦ Baseline	
20-Jan-22	9:30	Sunny	72.4	76.1	64.7	72.4	72.4 Measured ≦ Baseline	
26-Jan-22	15:15	Fine	71.3	74.1	61.7	72.4	71.3 Measured ≦ Baseline	
31-Jan-22	10:45	Fine	64.4	67.5	55.9	72.4	64.4 Measured ≦ Baseline	

·								
Location CKL2 - Flat 103 Cha Kwo Ling Village								
				Unit: dB	(A) (30-min)			
Date	Date Time Weather		Measured Noise Level			Baseline Level	Construction Noise Level	
Date	Tillic	vvcatrici						
			L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}	
4-Jan-22	13:00	Fine	68.5	71.7	62.2	71.4	68.5 Measured ≦ Baseline	
10-Jan-22	10:00	Sunny	71.6	74.9	61.0	71.4	58	
20-Jan-22	10:00	Sunny	73.6	76.9	63.8	71.4	70	
26-Jan-22	15:50	Fine	70.7	73.2	61.4	71.4	70.7 Measured ≦ Baseline	
31-Jan-22	10:10	Fine	66.8	70.4	56.3	71.4	66.8 Measured ≦ Baseline	

Location KTD1	Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)									
	Unit: dB (A) (30-min)									
Date	Time	Weather	Measured Noise Level			Baseline Level	Construction Noise Level			
Duic	11110	Wedner	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}			
4-Jan-22	13:30	Sunny	64.5	67.7	62.1	78.0	64.5 Measured ≦ Baseline			
10-Jan-22	15:00	Sunny	70.2	73.4	67.9	78.0	70.2 Measured ≦ Baseline			
20-Jan-22	16:08	Sunny	69.3	72.4	66.4	78.0	69.3 Measured ≦ Baseline			
26-Jan-22	13:45	Sunny	71.2	74.5	68.3	78.0	71.2 Measured ≦ Baseline			
31-Jan-22	11:30	Cloudy	69.1	71.8	67.5	78.0	69.1 Measured ≦ Baseline			

Location KER1 - Future Residential Development at Kerry Godown									
				Unit: dB (A) (30-min)					
Date	Time	Time Weather	Measured Noise Level		Baseline Level	Construction Noise Level			
Duic	Time	Wedner	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}		
4-Jan-22	14:30	Sunny	70.6	73.4	68.1	65.0	69		
10-Jan-22	13:00	Sunny	74.3	77.9	70.9	65.0	74		
20-Jan-22	15:05	Sunny	73.1	76.2	70.9	65.0	72		
26-Jan-22	13:00	Sunny	73.2	76.4	70.1	65.0	72		
31-Jan-22	10:50	Cloudy	66.9	68.6	63.1	65.0	62		

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area								
			Unit: dB (A) (30-min)					
Date	Time	Weather	Meas	sured Noise I	_evel	Baseline Level	Construction Noise Level	
Date	Time Weather	Weather	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}	
4-Jan-22	12:30	Sunny	67.2	68.9	65.7	64.0	64	
10-Jan-22	16:37	Sunny	68.7	71.3	63.1	64.0	67	
20-Jan-22	13:00	Sunny	68.4	70.3	63.3	64.0	66	
26-Jan-22	11:30	Sunny	67.0	69.3	63.1	64.0	64	
31-Jan-22	13:30	Cloudy	59.6	61.7	54.3	64.0	60 Measured ≦ Baseline	



Noise Levels Location KTD1 - Centre of Excellence in Paediatrics Baseline NL. dB(A) (Children's Hospital) Limit Level, 75.0 dB(A) Construction Noise Level dB(A) 80 75 70 65 60 55 50 45 40 26.001.22 ~2.00t2¹ 19.00t.21 of Dec.21 Date Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area Construction Noise Level dB(A) Limit Level, 75.0 dB(A) 80 75 70 65 60 55 50 45 40 Ok Jan 22 Parlacin, Date **Location KER1 - Future Residential Development at Kerry** Baseline NL. dB(A) Godown Limit Level, 75.0 dB(A) Construction Noise Level dB(A) 80 75 70 65 60 55 50 45 40 Date Project Kai Tak Development - Trunk Road T2 and Infrastructure Works at the Former South Apron MA20003 Jan 22 Graphical Presentation of Appendix Н Construction Noise Monitoring Results

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 Weekly Site Inspection Record Summary

Checklist Reference Number	220107
Date	07 January 2022 (Friday)
Time	09:30 – 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.:211230), item 211230-R1 has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	07 January 2022
Checked by	Karina Chan	Zalle	07 January 2022

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

Weekly Site Inspection Record Summary Weekly Site Inspection Record Summary

Checklist Reference Number	220111
Date	11 January 2022 (Tuesday)
Time	09:30 – 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.:220107), no major environmental deficiency was	
	identified on the previous session.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	11 January 2022
Checked by	Karina Chan	Zalle	11 January 2022

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

Weekly Site Inspection Record Summary Weekly Site Inspection Record Summary

Checklist Reference Number	220120
Date	20 January 2022 (Thursday)
Time	09:30 – 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. 	
220120 – R1	 E. Waste/Chemical Management Chemical/ fuels should be stored in designated area with adequate bund capacity and provided with locks. 	<i>E3</i>
	 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.:220111), no major environmental deficiency was identified on the previous session. 	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	20 January 2022
Checked by	Karina Chan	Zalle	20 January 2022

Contract No. ED/2018/04

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

Weekly Site Inspection Record Summary Weekly Site Inspection Record Summary

Checklist Reference Number	220127
Date	27 January 2022 (Thursday)
Time	09:30 – 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.:220120), item 220120 – R1 has been rectified.	

	Name	Signature	Date
Recorded by	Tim Lui	Cyli	27 January 2022
Checked by	Karina Chan	Zall	27 January 2022

APPENDIX J EVENT AND ACTION PLANS

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

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

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

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

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

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

T4	Action			
Event	ET	IEC	ER	Contractor
	procedures to determine	ER accordingly;	problem;	3. Implement the agreed
	possible mitigation to be	3. Supervise the	4. Ensure remedial measures	proposals;
	implemented;	implementation of remedial	properly implemented;	4. Resubmit proposals if
	5. Record the causes and action	measures.	5. If exceedance continues,	problem still not under
	taken for the exceedances;		consider what portion of the	control;
	6. Increase the monitoring		work is responsible and	5. Stop the relevant portion of
	frequency;		instruct the Contractor to stop	works as determined by the
	7. Assess the effectiveness of		that portion of work until the	ER until the exceedance is
	the Contractor's remedial		exceedance is abated.	abated.
	action with the ER and keep			
	the IEC informed of the			
	results;			
	8. If exceedance stops, cease			
	additional monitoring.			

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

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

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

APPENDIX K ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			n Stages	Status
						D	С	0	
Air Quality Imp	act			•					
S2.3.1.1	The specific mitigation comprises the following: watering of the construction areas 12 times per day to reduce dust emissions by 91.7%, with reference to the "Control of Open Fugitive Dust Sources" (USEPA AP-42). The amount of water to be applied would be 0.91L/m² for the respective watering frequency;		All relevant works sites, conveyor belts and stockpiles	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)
	3-sided barriers around the stockpiling areas WA3 and WA4.								٨
S2.3.1.2	The dust control measures detailed below shall also be incorporated into the Contract Specification where practicable as an integral part of good construction practice: Use of regular watering to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather;	To minimize dust emission during construction works	All relevant works sites	Contractor and Sub- contractors	APCO / EIAO	Y	Y		۸
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								۸
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement			Implementation Stages		Implementation Stages	
						D	С	О			
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								۸		
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^		
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								۸		
	Imposition of speed controls for vehicles on unpaved site roads, 8 km per hour is the recommended limit;								N/A(1)		
	Routing of vehicles and position of construction plant should be at the maximum possible distance from ASRs;								۸		
	Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;								۸		
	Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; and								N/A(1)		
	Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system.								N/A(1)		

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
Noise Impact									
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		^
S3.4.1.1	Use of temporary or fixed noise barriers with a surface density of at least 10kg/m^2 to screen noise from movable and stationary plant.	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
S3.4.1.1	Use of enclosures with covers at top and three sides and a surface density of at least 10kg/m^2 to screen noise from generally static noisy plant such as air compressors.	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		۸
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Implementation of good site practice: Only well-maintained plant should be operated on-site and plants should be serviced regularly during the construction period;	To minimise airborne noise impacts	All relevant works sites	Contractor and Sub- contractors	NCO / EIAO		Y		۸
	Mobile plant, if any, should be sited as far from NSRs as possible;								۸
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implem	nentatio	n Stages	Status
						D	С	0	
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								۸
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								۸
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								٨
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality									
S4.2.1.1	Surface run-off from the construction site, including all Works Areas, will be		All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^
	Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas and Works Areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap;								۸

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

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address		Implementation Agent	Relevant Standard or Requirement	-			Status
						D	C	0	
S4.2.1.1 and 4.3.1.5	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. Minimum distances of 100m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc, can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the WPCO license	To control water quality impact from effluent discharge from construction site	All works sites	Contractor and Sub- contractors	Water Pollution Control Ordinance		Y		N/A(1)
S4.2.1.1	Specific mitigation measures for the tunnelling works using TBM, soft ground and mechanical excavation techniques should include the following: The cut-and-cover tunnelling works should be conducted sequentially as far as practicable to limit the amount of construction wastewater generated from the exposed areas during the wet season (April to September);	To minimize construction water quality impact from tunnelling and excavation works	All tunnelling and excavation portion	Contractor and Sub- contractors	TMEIA TMwater ProPECC PN 1/94 WPCO		Y		N/A
	Uncontaminated discharge should pass through settlement tanks prior to discharge; If contaminated groundwater is found during the course of the works, no direct discharge of groundwater from contaminated areas should be adopted. Any contaminated groundwater should be properly treated in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit should deploy suitable treatment processes (e.g. oil interceptor/activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as TPH) to an undetectable range;								N/A N/A
	If groundwater recharging wells are deployed, recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in the Section 2.3 of TM-DSS;								N/A

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Impler	nentatio	n Stages	Status
						D	С	0	
	The baseline groundwater quality shall be determined prior to the selection of the recharge wells, and submit a working plan (including the laboratory analytical results showing the quality of groundwater at the proposed recharge location(s) as well as the pollutant levels of groundwater to be recharged) to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Prior to recharge, any prohibited substances such as TPH products should be removed as necessary by installing the petrol interceptor;								N/A
	The wastewater with high concentrations of SS should be treated such as by settlement in tanks with sufficient retention time before discharge. Oil interceptors would also be required to remove the oil, lubricants and grease from the wastewater.								N/A
S4.2.1.1	In order to prevent any accidental release of bentonite slurry from getting into the surrounding environment, the following specific control measures shall be followed to reduce the risk and impacts of accidental spillage: All bentonite slurry should be stored in a container that resistant to corrosion, maintained in good conditions and securely closed; The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only; The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;		All relevant works sites	Contractor and Sub- contractors	WPCO		Y		^ N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary); An emergency clean up kit shall be readily available where bentonite fluid will be stored or used; and								N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implen	nentation	n Stages	Status
						D	C	0	
	The handling and disposal of bentonite slurries should be undertaken in accordance within ProPECC PN 1/94. Surplus bentonite slurries used in construction works shall be reconditioned and reused wherever practicable. Residual bentonite slurry shall be disposed of from the site as soon as possible as stipulated in Clause 8.56 of the General Specification for Civil Engineering Works. The Contractor should explore alternative disposal outlets for the residual bentonite slurry (dewatered bentonite slurry to be disposed to a public filling area and liquid bentonite slurry, if mixed with inert fill material, to be disposed to a public filling area) and disposal at landfill should be the last resort.								N/A(1)
S4.2.1.1	The proposed barging point at South Apron will not involve marine works like dredging or modifying the submerged portion of the existing seawall. As such, no direct adverse water quality impacts are anticipated during its construction or operation. However, mitigation measures as outlined above should be applied to minimise water quality impacts from site run-off and temporary open stockpiles of spoil at the proposed barging point, where appropriate. Other good site practices include:		Barging Point	Contractor and Sub- contractors	EIAO-TM WPCO		Y		N/A(1)
	All vessels should be sized so that adequate clearance is maintained between vessels and the seabed in all tide conditions, to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash:								
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								۸
	Construction activities should not cause foam, oil, grease, scum, litter or other objectionable matter to be present on the water within the site; and								N/A(1)
	Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water. Barges or hoppers should not be filled to a level that will cause the overflow of materials or polluted water during loading or transportation.								N/A
S4.2.1.1	If chemical toilets and sewage holding tanks are required for handling sewage generated by the construction workforce, a licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	To minimize construction water quality impact from sewage and effluent	All works sites	Contractor	WPCO		Y		۸

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	ded Agent o	Relevant Standard or Requirement	Implementation Stages			Status	
						D	С	0	
S4.2.1.1	In order to protect against impacts to the surrounding marine waters of the KTTS and Victoria Harbour in the event of an accidental spillage of fuel or oil, the Contractor will be required to prepare a spill response plan to the satisfaction of AFCD, EPD, FSD, Police, TD and WSD to define procedures for the control, containment and clean-up of any spillage that could occur on the construction site.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	The Contractor must, also, register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation should be observed and complied with for control of chemical wastes.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges.	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
S4.2.1.1	Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows:	quality impact from accidental chemical	All works sites	Contractor	EIAO-TM WPCO WDO		Y		*
	Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;								
	Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents; and								N/A(1)
	Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.								*

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages		Status	
						D	С	0	
S4.2.1.1	The road drainage in the tunnel should pass through oil interceptors to remove oil, and grease before being discharged into the public storm water drainage system;	To mitigate runoff from tunnel during the operational phase	Tunnel	CEDD	WPCO			Y	N/A
	Silt traps and oil interceptors should be cleaned and maintained regularly; and								N/A
	The oily contents of oil interceptors should be transferred to an appropriate disposal facility, or to be collected for reuse, if possible.								N/A
Marine Ecology		N.C		W. 1 C.			1 37	ı	37/4/1)
S5.3.1.1	Good construction practice measures have been recommended to be implemented as follows:	Minimize waste generation during construction	Contractor	Work Sites	Construction phase of Main Works Stage 1, Stage 2 and Stage 3		Y		N/A(1)
	Avoid damage and disturbance to the remaining and surrounding natural habitat;								
	Placement of equipment in designated areas within the existing disturbed land;								N/A(1)
	Spoil heaps should be covered at all times;								N/A(1)
	Construction activities should be restricted to the designated works areas; and								N/A(1)
	Disturbed areas to be reinstated immediately after completion of the works.								N/A(1)
Fisheries				•			,	,	
S6.2.1.2	No fisheries specific mitigation measures.								

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

EM&A Ref.	Recommended Mitigation Measures				Relevant Standard or Requirement	Impler	nentation	Status	
						D	С	0	
S7.2.1.2	Compensatory tree planting shall be incorporated by the Project. The required numbers of compensatory trees shall follow the requirements of ETWB TCW No. 3/2006. Loss of amenity area adjacent to the Kwun Tong By-pass and planting areas in KTD South Apron will be mitigated by the creation of the Kai Tak South Apron: Amenity Area, which will be equal to or larger than the current provision.	To reinstate and maximise compensatory tree	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)
S7.2.1.2	Trees and shrubs and climbers etc. shall be planted to soften and screen proposed roads, central strip and associated structure, and to enhance streetscape greening effect where appropriate.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works area, excavated area and disturbed area for tunnel construction and temporary road diversion or any other proposed works shall be reinstated to former conditions or better, with reasonable landscape treatment and to the satisfaction of the relevant Government departments.	To reinstate and maximise hard and soft landscape areas to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Tunnel portals and all above ground structures shall be sensitively designed to ensure the element with colour, texture and tonal quality being compatible to the existing urban context. Trees and shrub planting to minimize the potential adverse landscape and visual impacts shall be included where space permits. Roof top greening and vertical greening shall also be provided.	To mitigate hard surfaces and hard standing landscape areas and to soften and enhance proposed design features	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
\$7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritag	e			•	•				
S8.2.1.1 and 8.2.1.2	No culture heritage specific mitigation measures								

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

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

EM&A Ref.	Recommended Mitigation Measures	Recommended Mitigation Measures Objectives of the Recommended Measures & Main Concern to Address Concern to Address				Implen	nentatio	Status	
						D	С	0	
S9.2.1.2	No waste is allowed to be burnt on site.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		٨
S9.2.1.2	Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate.	To implement good site practice for handling, sorting reuse and recycling of wastes	Detailed Design	Design Consultant	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010	Y			N/A(1)
S9.2.1.2	Prohibit the future contractor to dispose of C&D materials at any sensitive locations e.g. natural habitat, etc. The future contractor should propose the final disposal sites in the WMP for approval before implementation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		N/A(1)
S9.2.1.2	Stockpiled C&D materials should be covered by tarpaulin and/or watered as appropriate to prevent windblown dust and surface run off.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated C&D materials in trucks should be covered by tarpaulins to reduce the potential for spillage and dust generation.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Wheel washing facilities should be used by all trucks leaving the site to prevent transferring mud trails onto public roads.	To implement good site practice for handling, sorting reuse and recycling of wastes	All areas / throughout construction period	Contractor	WDO, Land (Miscellaneous Provisions) Ordinance, DevB TC(W) No. 6/2010		Y		۸
S9.2.1.2	Excavated marine deposit (sediment) should be disposed of in a gazetted marine disposal ground under the requirements of the DASO or treated for backfilling.	To ensure proper disposal of marine sediment	All areas / throughout construction period	Contractor	ETWB TC(W) No.34/2002		Y		N/A(1)

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

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

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

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

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

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

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

Reporting Month: January 2022

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

Remarks:

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

APPENDIX M SUMMARY OF EXCEEDANCE

Environmental Permit No.: EP-451/2013 Environmental Team for Trunk Road T2

Appendix M – Summary of Exceedance

Reporting Month: January 2022

(A) Exceedance Report for Air Quality

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

(B) Exceedance Report for Construction Noise

Action Level for Construction Noise

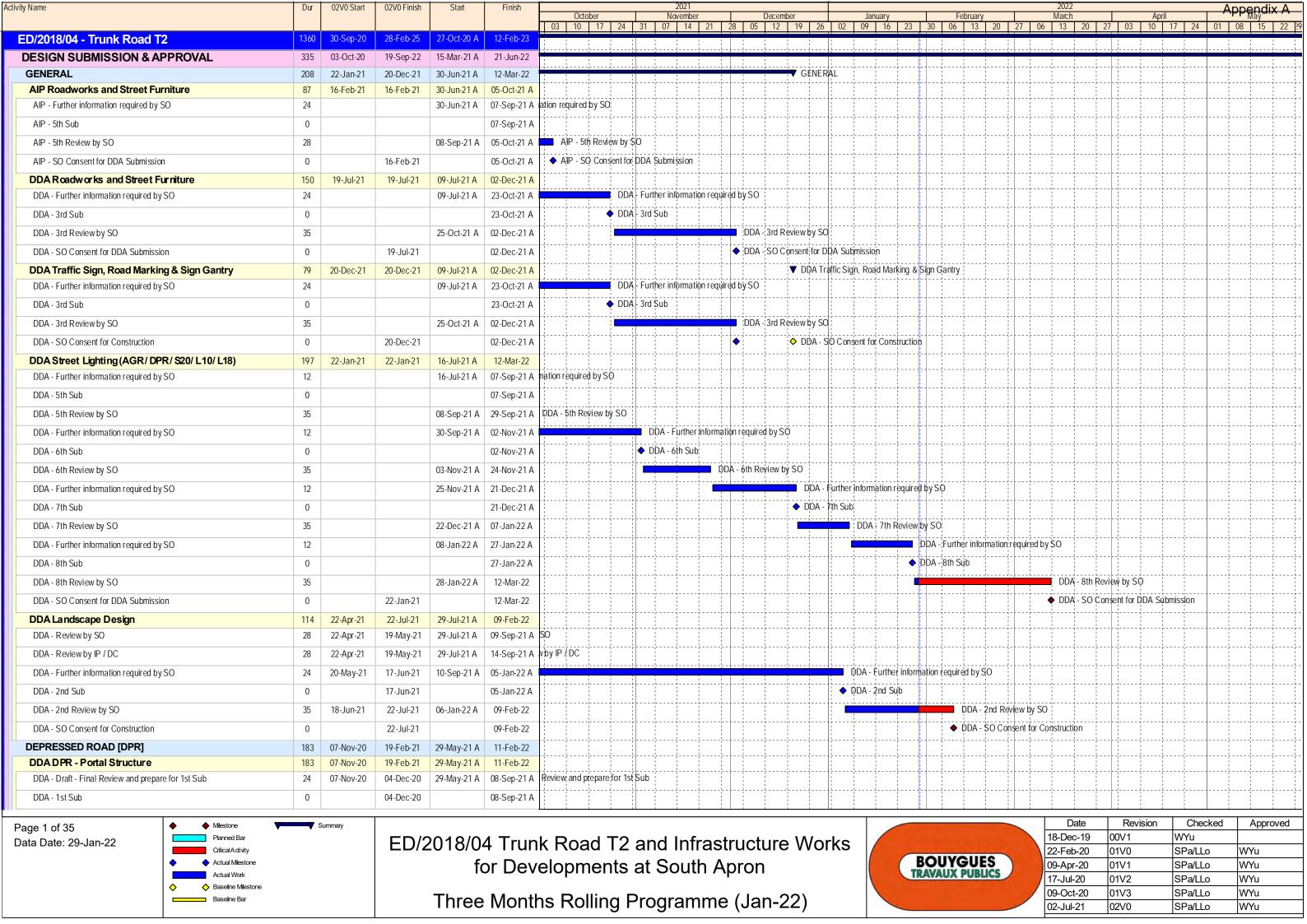
No Action Level exceedance was recorded in this reporting month.

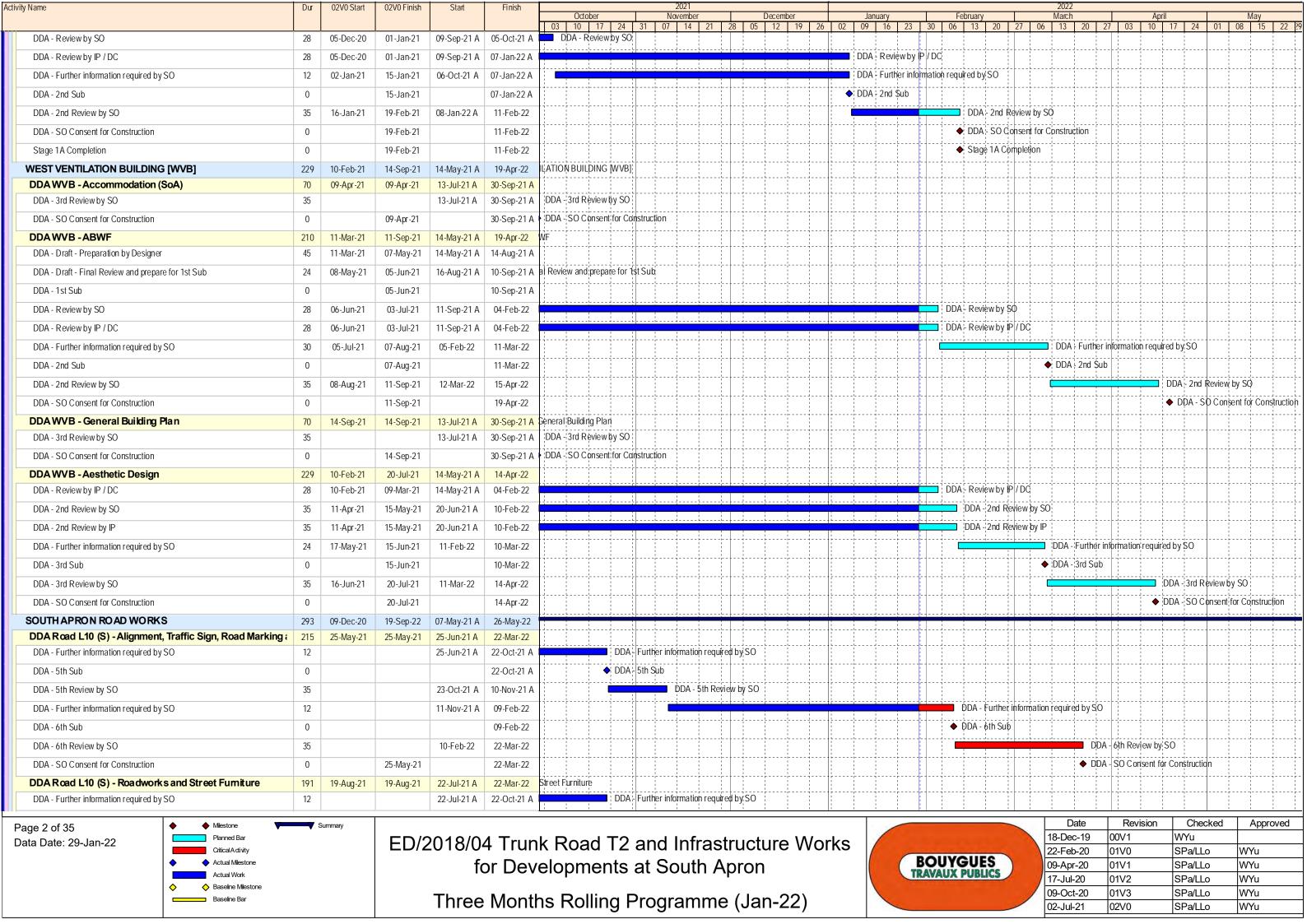
Limit Level for Construction Noise

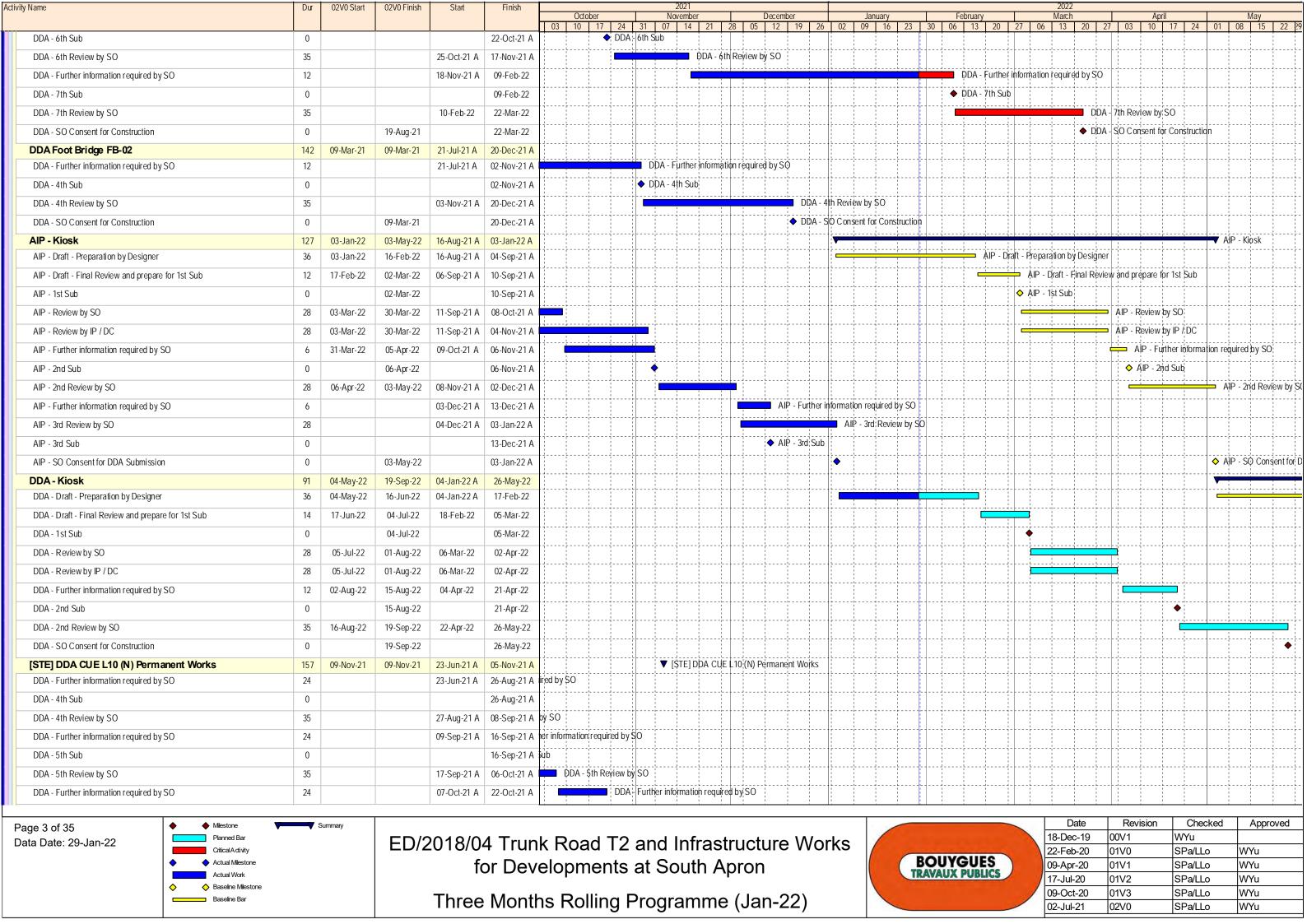
No Limit Level exceedance for daytime construction noise monitoring was recorded in the reporting month.

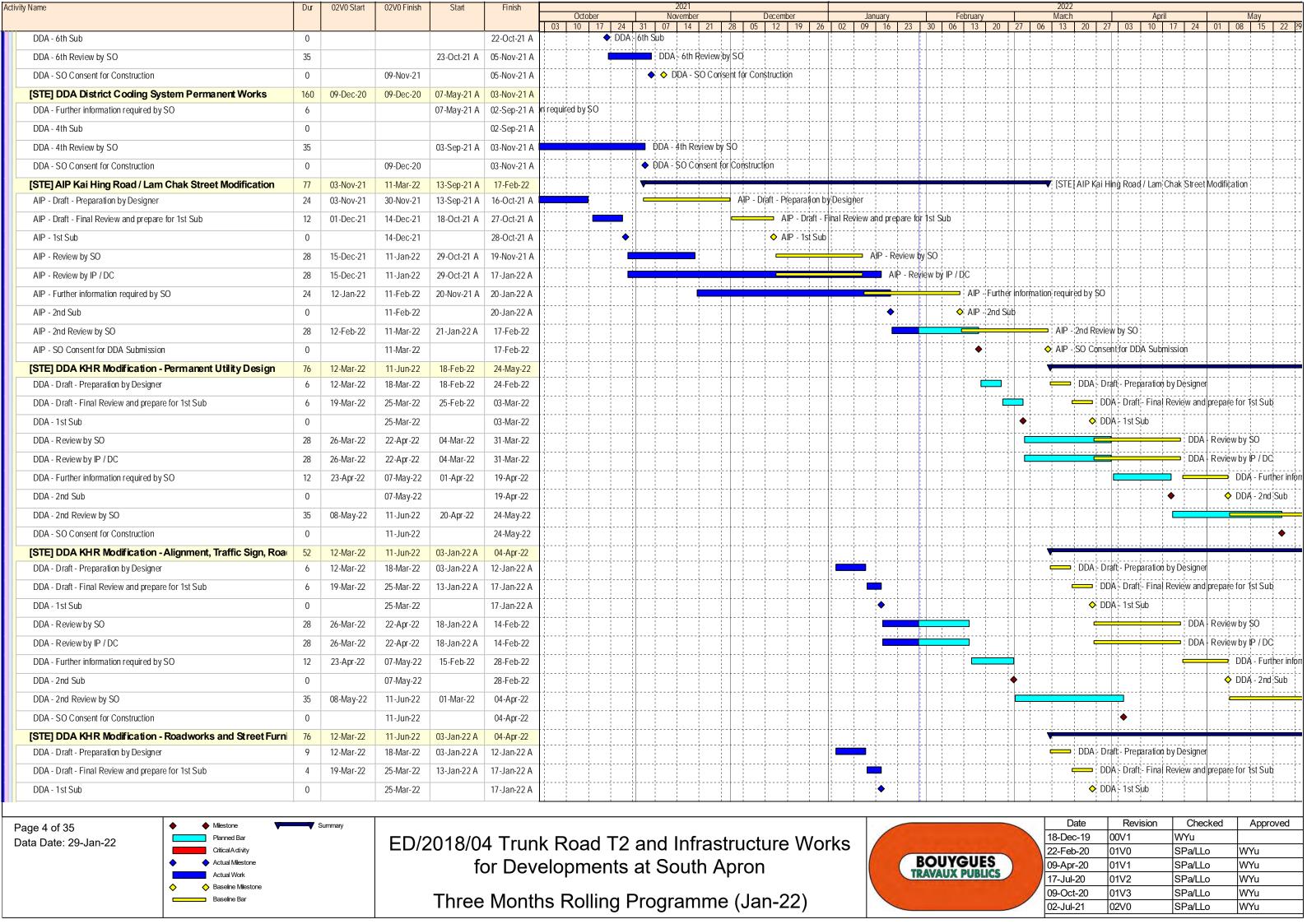
(C) Summary of Landscape and Visual Non-Conformity (NIL in the reporting month)

APPENDIX N TENTATIVE CONSTRUCTION PROGRAMME



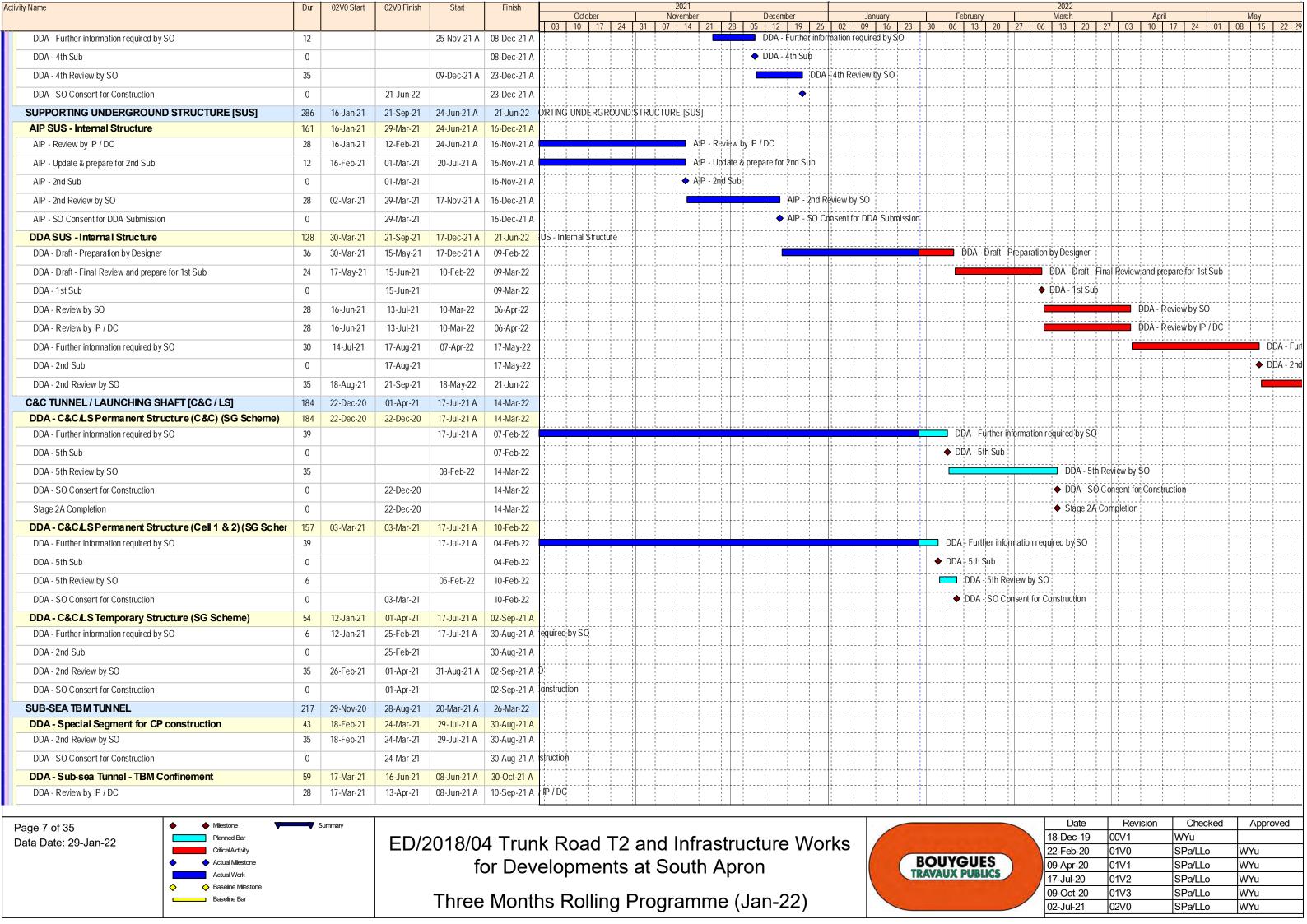


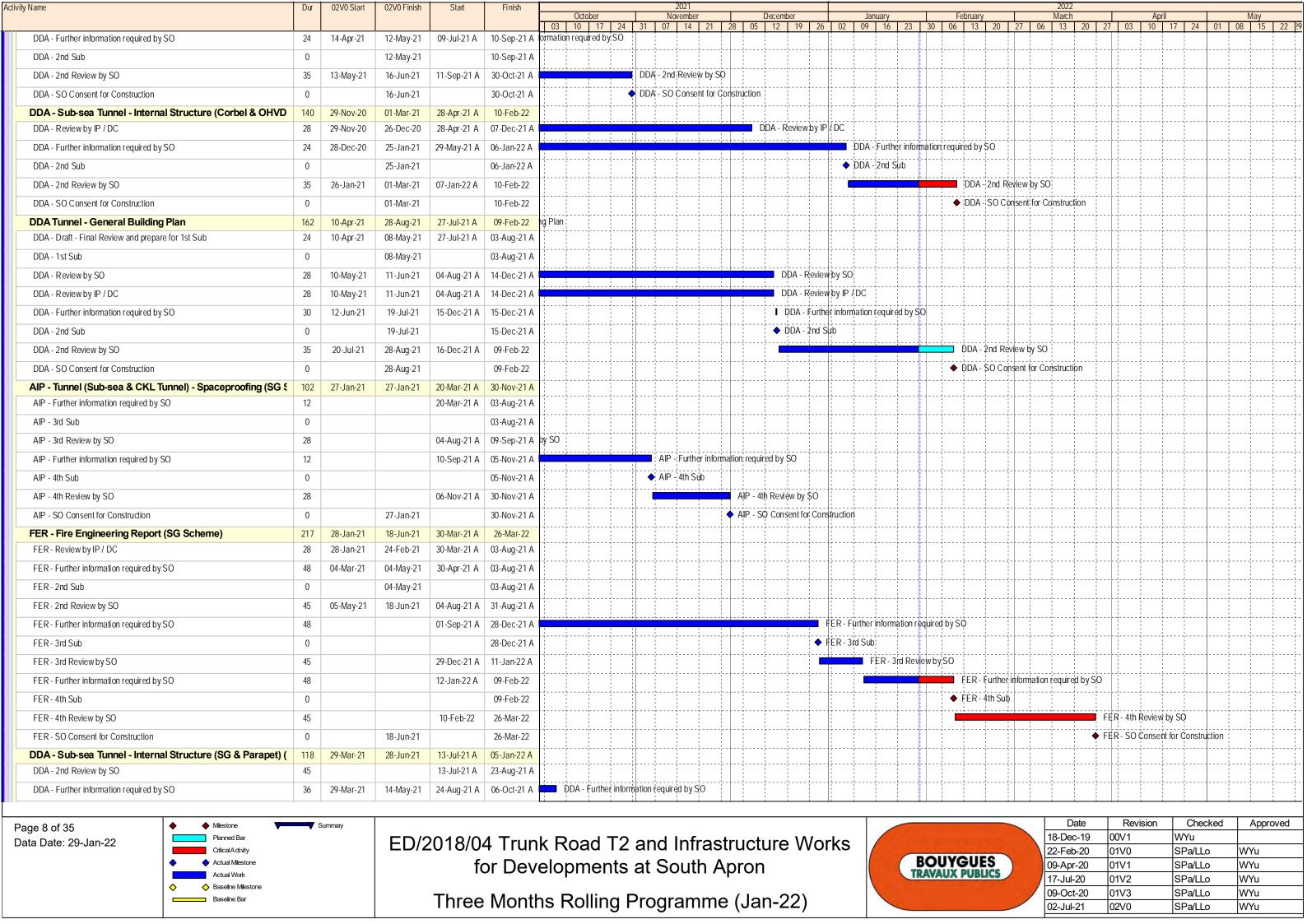


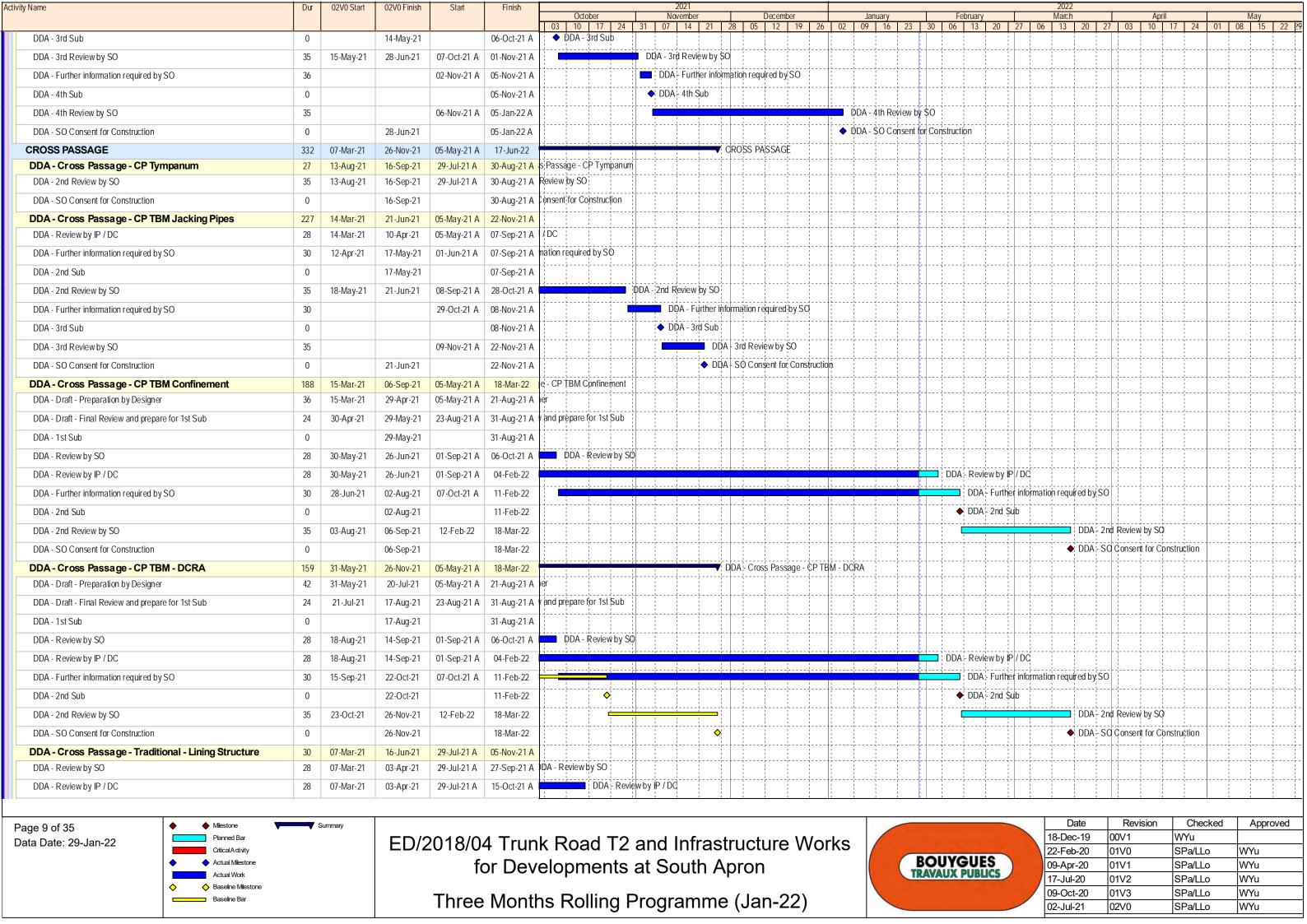


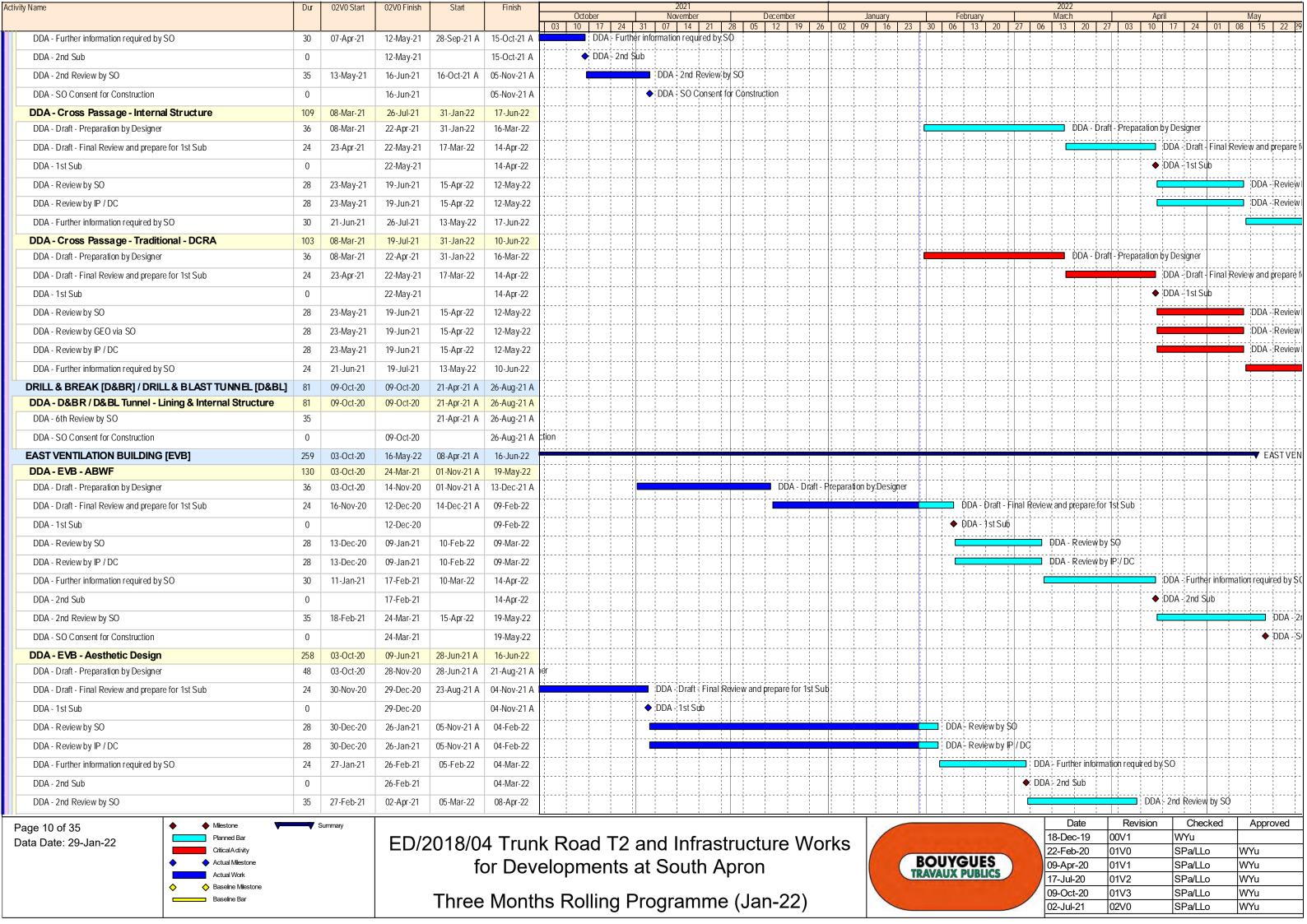
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	October	2021 November	December		January		February		202 Marc			April		Mav
						03 10 17 24		<u> </u>	02	09 16	23 30		20 27	06 13		7 03	10 1		08 15 22 29
DDA - Review by SO	28	26-Mar-22	22-Apr-22	18-Jan-22 A	14-Feb-22									<u> </u>			ļ		view by \$O
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	18-Jan-22 A	14-Feb-22													⊐ ¡ DDA ∤ Re	view by (P / DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	15-Feb-22	28-Feb-22														DDA - Further inform
DDA - 2nd Sub	0		07-May-22		28-Feb-22								•						ODA - 2nd Sub
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	01-Mar-22	04-Apr-22									1 1	1 1				
DDA - SO Consent for Construction	0		11-Jun-22		04-Apr-22											•			
[STE] DDA KHR Modification - Street Lighting	76	12-Mar-22	11-Jun-22	18-Feb-22	24-May-22									—					
DDA - Draft - Preparation by Designer	6	12-Mar-22	18-Mar-22	18-Feb-22	24-Feb-22										DDA D		1		
DDA - Draft - Final Review and prepare for 1st Sub	6	19-Mar-22	25-Mar-22	25-Feb-22	03-Mar-22					1 1					_ i i		<u> </u>	eview and prep	pare for 1st Sub
DDA - 1st Sub	0		25-Mar-22		03-Mar-22								•		◇ D	DA - 1st S	Sub		
DDA - Review by SO	28	26-Mar-22	22-Apr-22	04-Mar-22	31-Mar-22								_	1 1	1 1			⊐ DDA Re	view by SO
DDA - Review by IP / DC	28	26-Mar-22	22-Apr-22	04-Mar-22	31-Mar-22								_			+	1 1		view by IP / DC
DDA - Further information required by SO	12	23-Apr-22	07-May-22	01-Apr-22	19-Apr-22														DDA - Further inform
DDA - 2nd Sub	0		07-May-22		19-Apr-22												4	• [DDA - 2nd Sub
DDA - 2nd Review by SO	35	08-May-22	11-Jun-22	20-Apr-22	24-May-22													!	
DDA - SO Consent for Construction	0		11-Jun-22		24-May-22]		•
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	71	22-Dec-20	22-Dec-20	27-Jul-21 A	27-Aug-21 A	+		-+	+					;; 		-			
DDA - Further information required by SO	12			27-Jul-21 A	05-Aug-21 A									, , , , , , , , , , , , , , , , , , ,					
DDA - 5th Sub	0				05-Aug-21 A														
DDA - 5th Review by SO	35			06-Aug-21 A	27-Aug-21 A														
DDA - SO Consent for Construction	0		22-Dec-20		27-Aug-21 A	uction													
[STE] AIP Road L10 (N)	59	21-Jan-22	21-Mar-22	22-Jul-21 A	17-Sep-21 A					V		·		 	[STE]	AIP Roa	d L10 (N)		
AIP - Further information required by SO	24	21-Jan-22	21-Feb-22	22-Jul-21 A	10-Aug-21 A					. =			■ AIP Fui	ther informa	atlon requir	ed by SO		:	
AIP - 3rd Sub	0		21-Feb-22		10-Aug-21 A								AIP - 3rd	1 1				-	
AIP - 3rd Review by SO	28	22-Feb-22	21-Mar-22	11-Aug-21 A	24-Aug-21 A	+								 	AIP -	3rd Revie	w by SO		
AIP - Further information required by SO	24			25-Aug-21 A	07-Sep-21 A	ation required by SO													
AIP - 4th Sub	0				07-Sep-21 A														
AIP - 4th Review by SO	28			08-Sep-21 A	17-Sep-21 A	Review by SO						·					ii		
AIP - SO Consent for DDA Submission	0		21-Mar-22		17-Sep-21 A							· 			♦ AIP -	SO Cons	ent for DD	A Submission	
[STE] DDA Road L10 (N) - Permanent Utility Design	163	05-Apr-22	21-Jun-22	29-Jul-21 A	25-Feb-22											_			
DDA - Review by SO	28	05-Apr-22	02-May-22	29-Jul-21 A	28-Aug-21 A												 		DDA - Review by SO
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	29-Jul-21 A	19-Oct-21 A											-	1 1	;	DDA - Review by IP / DC
DDA - Further information required by SO	12	03-May-22	17-May-22	30-Aug-21 A	19-Oct-21 A														DDA - Furl
DDA - 2nd Sub	0		17-May-22		19-Oct-21 A	•													♦ DDA - 2nd
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DDA - Further information required by SO	12			03-Nov-21 A	17-Dec-21 A			DDA - Fui	ther inforn	nation requ	red by SO					-			
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DDA - 3rd Review by SO	35			18-Dec-21 A	05-Jan-22 A	+			DE	A - 3rd Re	view by SO					+			;;
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DDA - 4th Sub	0				21-Jan-22 A					•	DDA - 4th	Sub		} <u>-</u>		-			
DDA - 4th Review by SO	35			22-Jan-22 A	25-Feb-22							<u> </u>	DDA	4th Revie	w by SO	++			
DDA - SO Consent for Construction	0		21-Jun-22		25-Feb-22									L		++			
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Page 5 of 35 ◆ Milestone	S	Summary													Date		rision	Checked	d Approved
Data Date: 29-Jan-22			ED/2	2018/0	4 Trun	k Road T2	and Infrast	ructure Wo	rks					18-De		00V1 01V0		WYu SPa/LLo	WYu
◆ Actual Milestone				f	or Dev	elopments	at South A	pron			BO	UYGUE AUX PUBL	S	09-A		01V1		SPa/LLo	WYu
Actual Work ♦ Baseline Miestone				10			at Codii / t	P1011			TRAV	AUX PUBL	CS	17-Ju	ıl-20	01V2		SPa/LLo	WYu
Baseline Bar				Three	Mont	hs Rolling F	Programme	(Jan-22)					1	09-O		01V3 02V0		SPa/LLo SPa/LLo	WYu WYu
														UZ-JL	µ-∠ I	JUZ V U		UF a/LLU	vvru

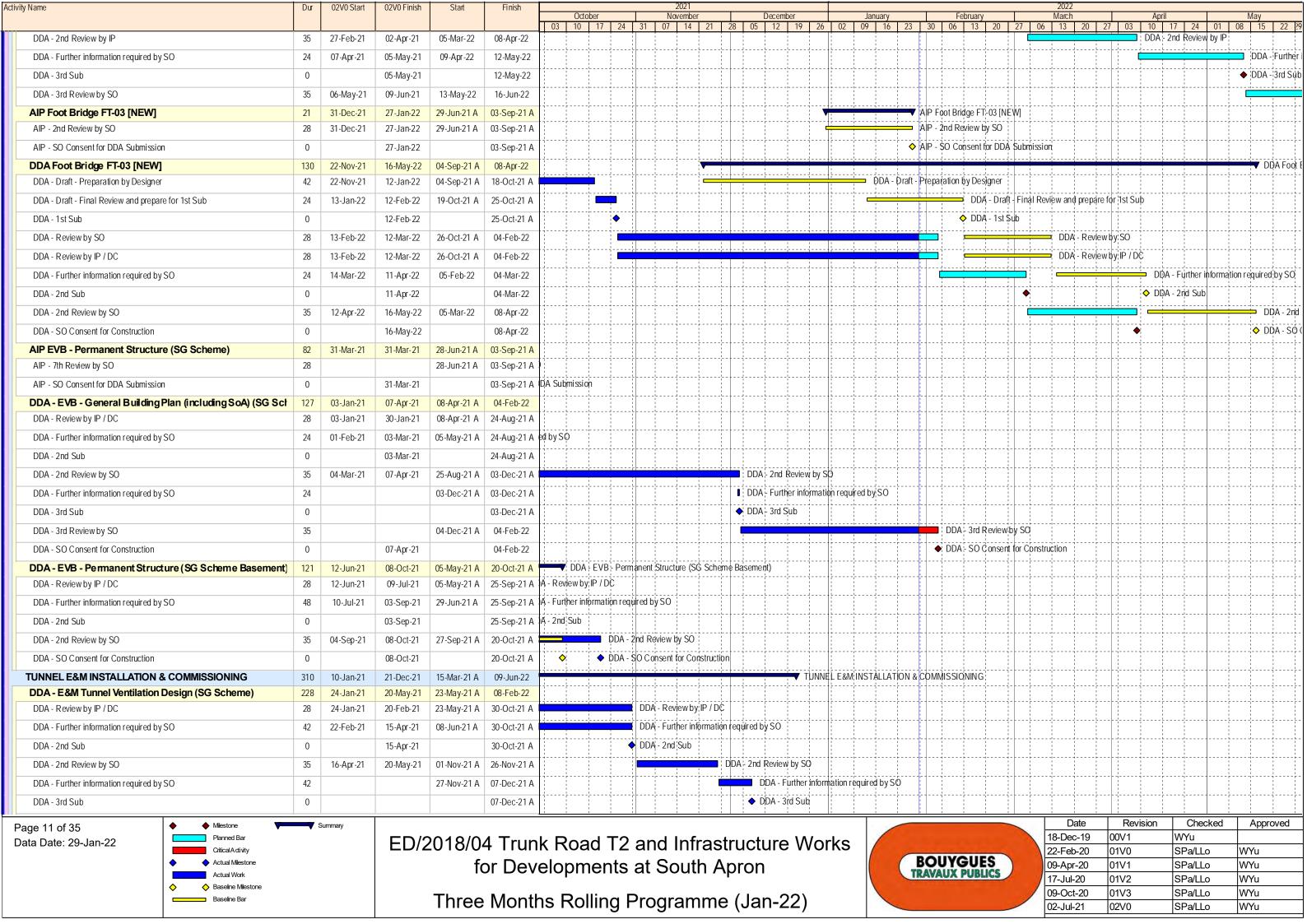
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
						03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Ma	157	,	21-Jun-22	27-Jul-21 A	16-Mar-22	
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22		05-Aug-21 A	
DDA - Further information required by SO	12			06-Aug-21 A		A mation required by SO
DDA - 3rd Sub	0				07-Sep-21 A	
DDA - 3rd Review by SO	35					A 3rd Review by SO
DDA - Further information required by SO	12			21-Sep-21 A	08-Oct-21 A	
DDA - 4th Sub	0				08-Oct-21 A	
DDA - 4th Review by SO	35				26-Oct-21 A	
DDA - Further information required by SO	12			27-Oct-21 A	10-Nov-21 A	
DDA - 5th Sub	0				10-Nov-21 A	
DDA - 5th Review by SO	35			11-Nov-21 A	01-Dec-21 A	
DDA - Further information required by SO	12			02-Dec-21 A	09-Feb-22	
DDA - 6th Sub	0				09-Feb-22	◆ ĎDA - 6th Suβ
DDA - 6th Review by SO	35			10-Feb-22	16-Mar-22	DDA - 6th Review by SO
DDA - SO Consent for Construction	0		21-Jun-22		16-Mar-22	
[STE] DDA Road L10 (N) - Roadworks and Street Furniture	157	,	21-Jun-22	22-Jul-21 A	16-Mar-22	
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	22-Jul-21 A		
DDA - Further information required by SO	12			19-Aug-21 A	25-Aug-21 A	A red by SO
DDA - 3rd Sub	0				25-Aug-21 A	
DDA - 3rd Review by SO	35				07-Sep-21 A	
DDA - Further information required by SO	12			08-Sep-21 A	14-Sep-21 A	A ranformation required by SC
DDA - 4th Sub	0				14-Sep-21 A	
DDA - 4th Review by SO	35			15-Sep-21 A	23-Sep-21 A	A -:4th Review by SO
DDA - Further information required by SO	12			24-Sep-21 A	08-Oct-21 A	A DDA - Further information required by SO
DDA - 5th Sub	0				08-Oct-21 A	
DDA - 5th Review by SO	35			09-Oct-21 A	26-Oct-21 A	
DDA - Further information required by SO	12			27-Oct-21 A	23-Nov-21 A	DDA - Further information required by SO
DDA - 6th Sub	0				23-Nov-21 A	A DDA - 6th Sub;
DDA - 6th Review by SO	35			24-Nov-21 A	06-Dec-21 A	A DDA - 6th Review by \$0
DDA - Further information required by SO	12			07-Dec-21 A	09-Feb-22	DDA - Further information required by SO
DDA - 7th Sub	0				09-Feb-22	◆ DDA - 7th Sub
DDA - 7th Review by SO	35			10-Feb-22	16-Mar-22	DDA - 7th Review by SO
DDA - SO Consent for Construction	0		21-Jun-22		16-Mar-22	
[STE] DDA Road L10 (N) - Street Lighting	125	05-Apr-22	21-Jun-22	21-Jul-21 A	23-Dec-21 A	A
DDA - Review by SO	28	05-Apr-22	02-May-22	21-Jul-21 A	16-Aug-21 A	A DĎA - Ręview by
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	21-Jul-21 A	16-Sep-21 A	A DDA - Réview by
DDA - Further information required by SO	12	03-May-22	17-May-22	17-Aug-21 A	16-Sep-21 A	A DD,
DDA - 2nd Sub	0		17-May-22		16-Sep-21 A	
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	17-Sep-21 A	29-Sep-21 A	
DDA - Further information required by SO	12			30-Sep-21 A	02-Nov-21 A	DDA - Further information required by SO
DDA - 3rd Sub	0				02-Nov-21 A	A DDA - 3fd Sub
DDA - 3rd Review by SO	35			03-Nov-21 A	24-Nov-21 A	DDA - 3rd Review bý SO
						Date Revision Checked Approv
Page 6 of 35	S	Summary		04070	/ T	40 D 40 00 14 140 1
Data Date: 29-Jan-22			⊏ ∪/2			nk Road 12 and initastructure works
♦ Actual Milestone Actual Work				fo	or Dev	velopments at South Apron BOUYGUES 17- lul-20 01V1 SPa/LLo WYU 17- lul-20 01V2 SPa/L o WYU
♦ Baseline Milestone				- .	N.A	100 of 20 101 10 101 101 101 101 101 101 101 1
Baseline Bar				Ihree	Mont	ths Rolling Programme (Jan-22)

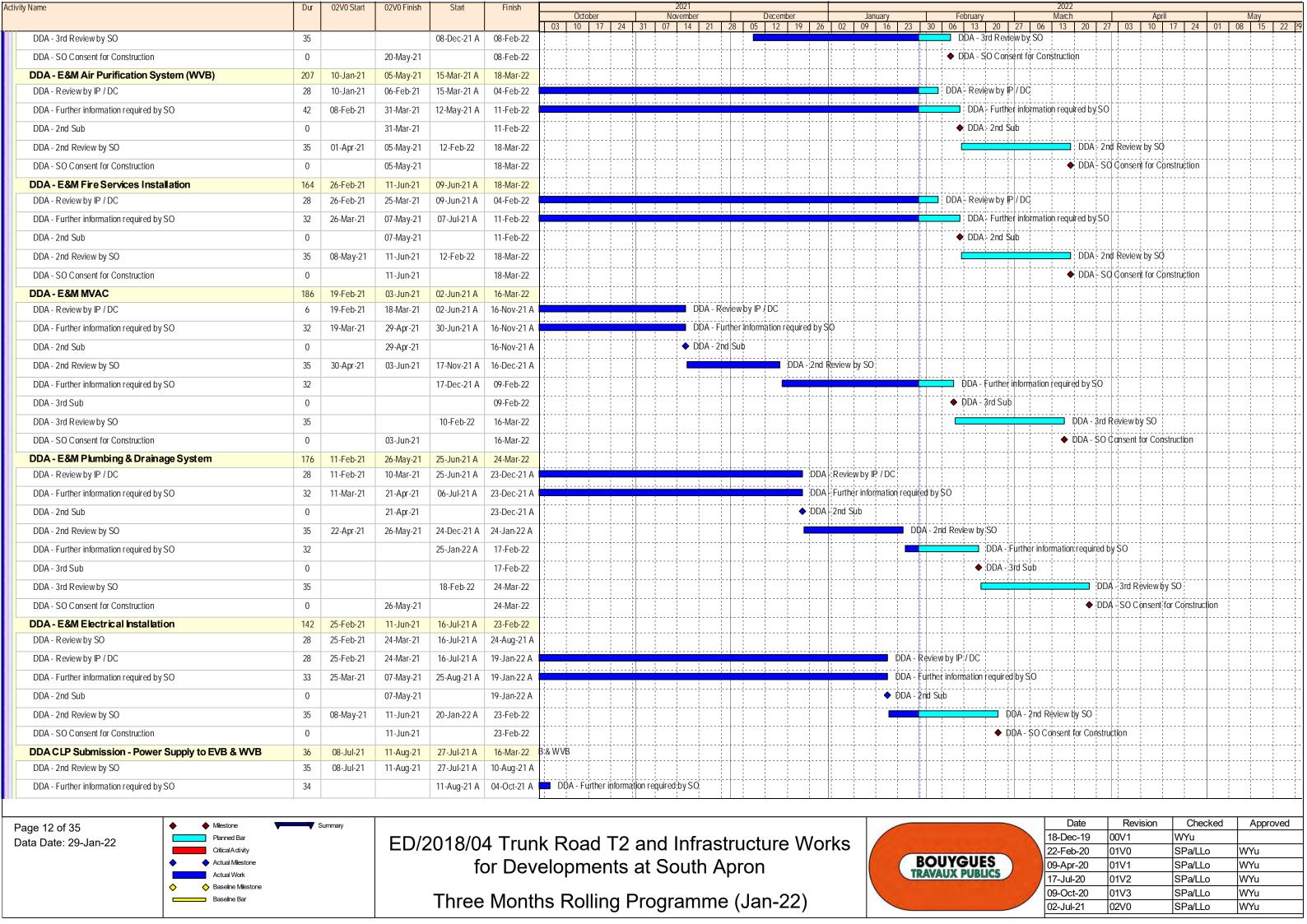


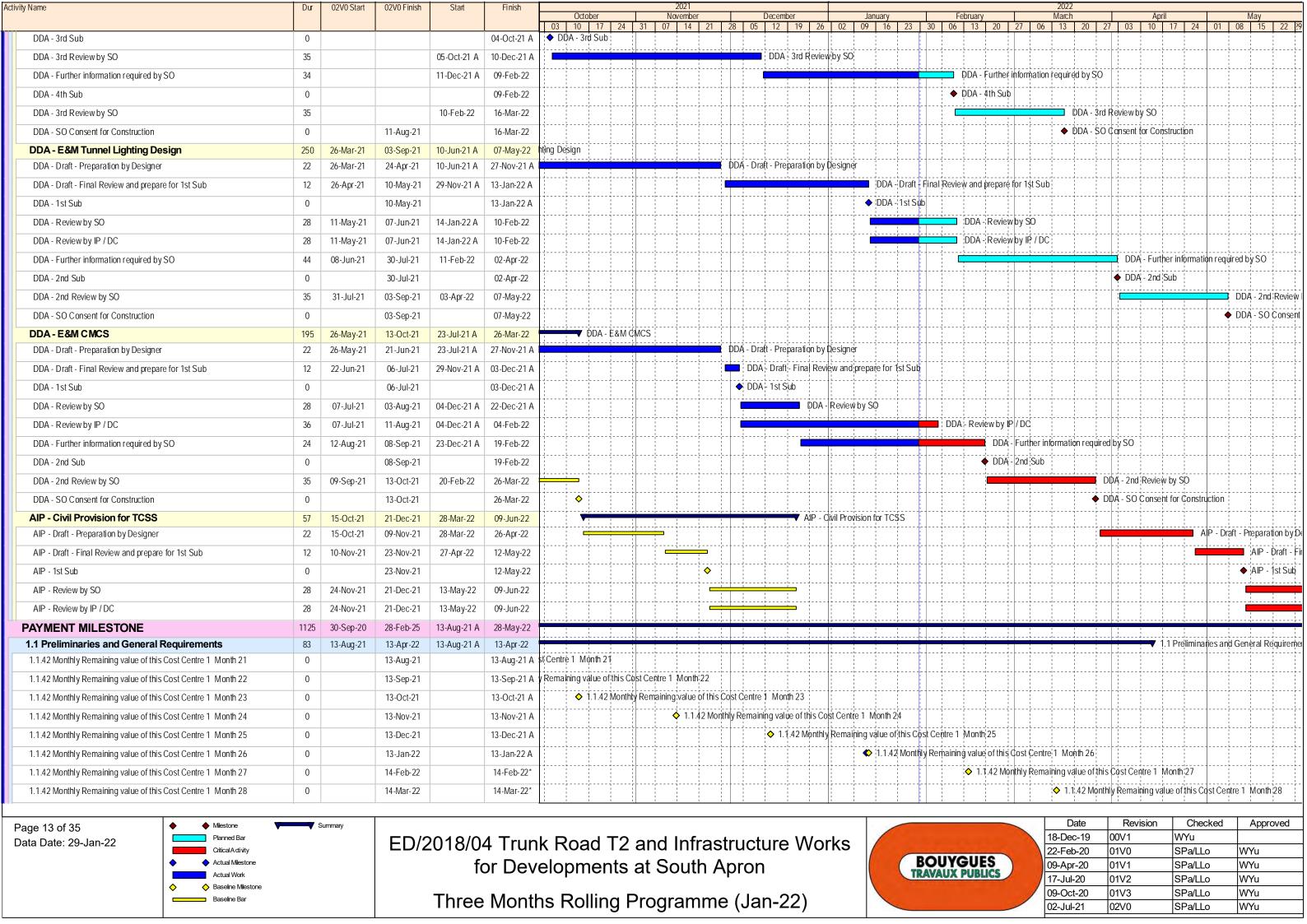










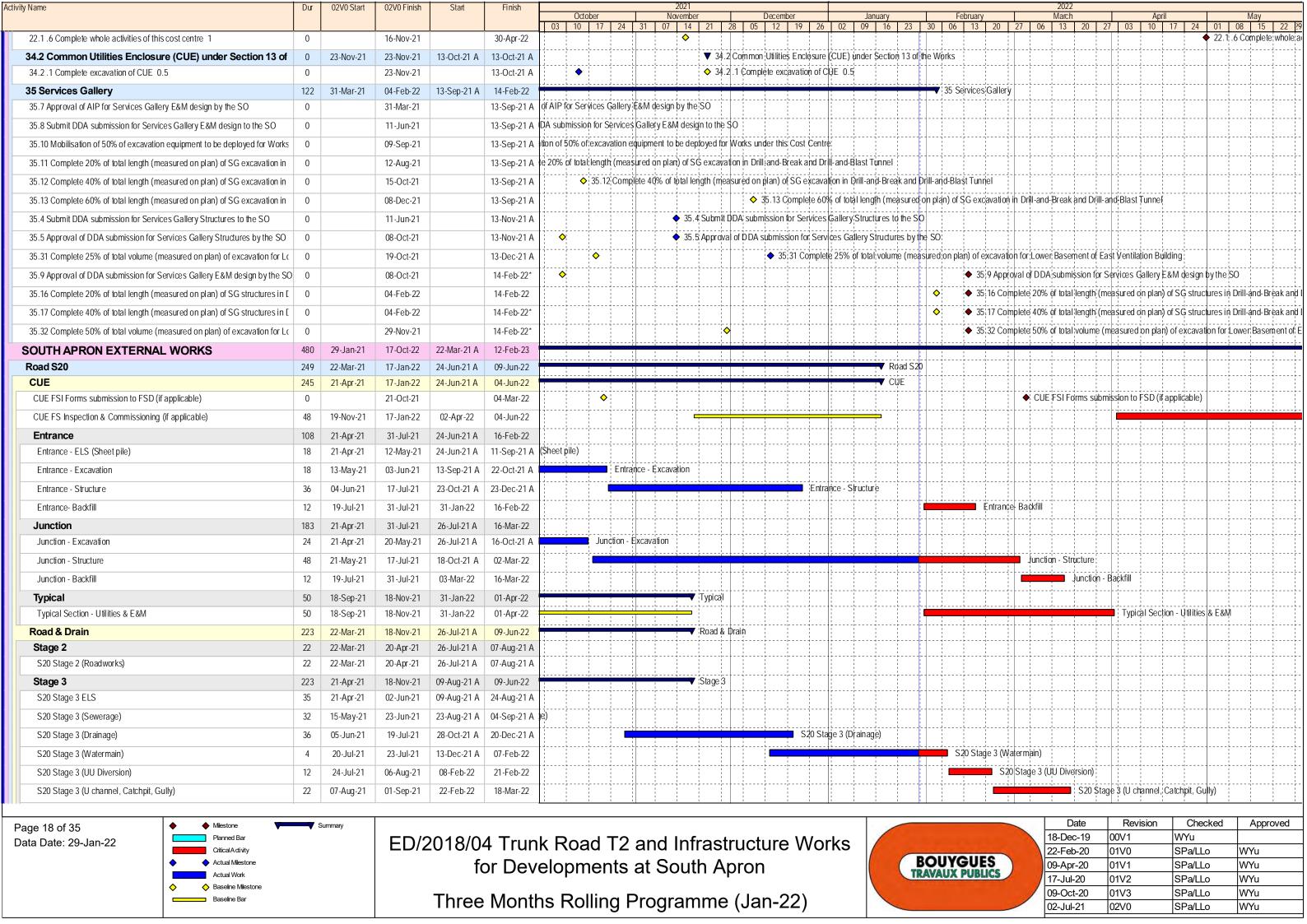


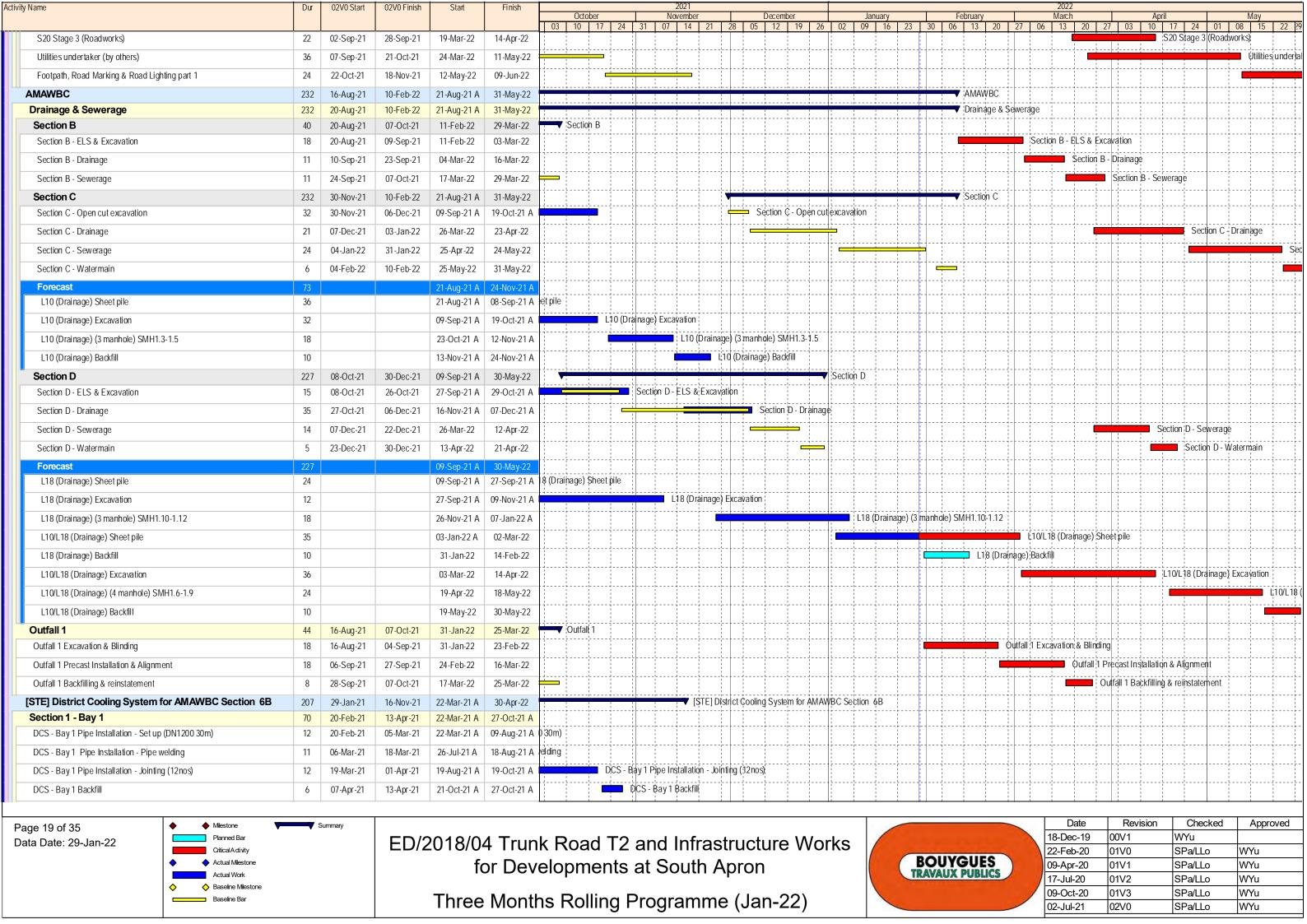
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
						October November December January February March April May 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 03 10 17 24 01 08 15 22
1.1.42 Monthly Remaining value of this Cost Centre 1 Month 29	0		13-Apr-22		13-Apr-22*	♦ 1.1.42 Monthly Remaining value of thi
3.1 for Trunk Road T2	24	30-Sep-20	17-Jun-21	13-Aug-21 A	13-Jan-22 A	
3.1 .44 Approval DDA for WVB	0		17-Jun-21		13-Aug-21 A	
3.1.20 Approval DDA for cut-and-cover tunnel	0		30-Sep-20		13-Sep-21 A	val DDA/for cut-and-cover tunnel
3.1 .46 Approval AIP for EVB	0		30-Sep-20		13-Oct-21 A	◆ 3.1.46/Approval AIP for EVB
3.1 .40 Approval DDA for Drill-and-blast Tunnel	0		09-Oct-20		13-Nov-21 A	♦ 3.1.40 Approval DDA for Drill-and-blast Tunnel
3.1 .48 Approval DDA for EVB	0		30-Sep-20		13-Nov-21 A	♦ 3.1.48 Approval DDA for EVB
3.1.50 Approval AIP for completion of SUS	0		29-Mar-21		13-Jan-22 A	◆ 3.1.50 Approval AIP for completion of \$US
3.2 for Road S20 and Associated Infrastructure Works for C	0	30-Sep-20	30-Sep-20	13-Sep-21 A	13-Dec-21 A	
3.2.24 Approval DDA for landscape works	0	00 00p 20	30-Sep-20	10 00р 2111		val DDA/for landscape works
3.2.27 Complete whole activities of this cost centre	0		30-Sep-20		13-Dec-21 A	◆ 3.2 .27 Complete whole activities of this cost centre
3.3 for the Remaining Stage 5 Infrastructure Works - Road I	24	26-Feb-21	03-Jun-21	13-Dec-21 A	13-lan-22 A	┪┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊┼╌┊╌╌┊╌┈┊╌┈┊╌┈┊╌╌┊╌╌┊╌╌┊┼╌┊╌╌┆╌╌┆┼╌┊╌╌┊╌╌┊╌╌┆╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌
3.3.23 Submit DDA for landscape works	0	20 1 00 21	03-Jun-21	10 000 2111	13-Dec-21 A	◆ 3.3 .23 Submit DDA for landscape works
3.3 .16 Approval DDA for waterworks	0		26-Feb-21		13-Jan-22 A	◆ 3.3.16 Approval DDA for waterworks
3.4 for the Remaining Stage 5 Infrastructure Works - FT02	24	30-Sep-20	09-Mar-21	13-Sep-21 A		
3.4.9 Submit AIP for modification of existing footbridge	0	30 36p-20	30-Sep-20	13 3cp-21 A		AIP for modification of existing footbridge
3.4 .8 Approval DDA for Landscaped elevated walkway	0		09-Mar-21		13-Oct-21 A	◆ 3.4.8 Approval DDA for Landscaped elevated walkway
3.4 .11 Submit Demolition plan for existing footbridge	0		22-Dec-20		13-Nov-21 A	
	0					
3.4.10 Approval DDA for modification of existing footbridge	0		09-Mar-21		13-Jan-22 A	
3.4 .12 Approval Demolition plan for existing footbridge	0		09-Mar-21		29-Jan-22*	♦ 3.412 Approval Demolition plan for existing footbridge
3.4.13 Complete whole activities of this cost centre	0		09-Mar-21		29-Jan-22*	♦ 3.4.13 Complete whole activities of this cost centre
3.5 for Lam Chak Street and Kai Hing Road	113	14-Dec-21	11-Jun-22	13-Dec-21 A	24-May-22	▼
3.5 .5 Submit AIP for roadworks	0		14-Dec-21		13-Dec-21 A	◆ 3.5.5 Submit AIP for roadworks
3.5 .9 Submit AIP for stormwater drainage works	0		14-Dec-21		13-Dec-21 A	
3.5 .13 Submit AIP for waterworks	0		14-Dec-21		13-Dec-21 A	
3.5 .17 Submit AIP for sewage works	0		14-Dec-21		13-Dec-21 A	
3.5.21 Submit AIP for landscape works	0		14-Dec-21		13-Dec-21 A	
3.5 .8 Approval DDA for roadworks	0		11-Jun-22		04-Apr-22	
3.5 .24 Approval DDA for landscape works	0		11-Jun-22		04-Apr-22	
3.5 .25 Complete whole activities of this cost centre	0		11-Jun-22		04-Apr-22	
3.5.12 Approval DDA for stormwater drainage works	0		11-Jun-22		24-May-22	
3.5 .16 Approval DDA for waterworks	0		11-Jun-22		24-May-22	
3.5 .20 Approval DDA for sewage works	0		11-Jun-22		24-May-22	
3.6 for Road L10 (Northern Section)	33	21-Mar-22	21-Jun-22	13-Oct-21 A	14-Feb-22	
3.6.6 Approval AIP for Road L10 (northern section)	0		21-Mar-22	30. 21 71	13-Oct-21 A	♦ 3.6 .6 Approval AIP for Road L10 (northern section)
3.6.8 Approval DDA for Road L10 (northern section)	0		21-Jun-22		14-Feb-22*	
3.6.9 Complete whole activities of this cost centre	0		21-Jun-22		14-Feb-22*	╂┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊╌╌┊┼╌┊╌╌┊╌╌┊╌╌╟╌╌┊╌╌┊╌╌╠┦╌┊╌╌┊╬╌╌┊╌┼┊╌┈┊╌╌┊╌┼┼╌╌┊╌╌┊╌╌┆╌╌┆╌╌┆╌╌┆╌╌
3.8 for Improvement Works at the Junction of Hoi Bun Road	0	03-Dec-20	03-Dec-20	13-Nov-21 A	13-Nov-21 A	┫┇╌╌┇╌╌┇╌╌┇╌╌┇╌╌┇╌╌┇╌╌┇┼╌┇╌╌┇╌╌┇╌╌┇╌╌┇╌╌┇
3.8.9 Complete whole activities of this cost centre	0		03-Dec-20		13-Nov-21 A	♦ 3.8.9 Complete whole activities of this cost centre
3.9 for the Pipelines for District Cooling System for Commis	24	30-Sep-20	30-Sep-20	13-Nov-21 A	29-Jan-22	
3.9.5 Submit GI report for pipelines of DCS for AMAWBC	0	'	30-Sep-20		13-Nov-21 A	♦ 3.9.5 Submit GI report for pipelines of DCS for AMAWBC
3.9.6 Approval G1 report for pipelines of DCS for AMAWBC	0		30-Sep-20		13-Nov-21 A	♦ 3.9.6 Approval Gt report for pipelines of DCS for AMAWBC
3.9.10 Approval DDA for pipelines of DCS	0		30-Sep-20		13-Nov-21 A	
			1 -			
Page 14 of 35	S	Summary	 /-	04015	. —	Date Revision Checked Approved
Data Date: 29-Jan-22			∟ D/2	.'U18/0	4 Irun	IK ROAD 12 and initiastructure vvorks
♦ Actual Miestone				fo	or Dev	velopments at South Apron BOUYGUES 09-Apr-20 01V1 SPa/LL0 WYu
Actual Work Baseline Milestone					• •	17-Jul-20 O1V2 SPa/LLo WYu
Baseline Bar				Three	Montl	hs Rolling Programme (Jan-22)
						02-30F21 02-70 GF4/LLO WTU

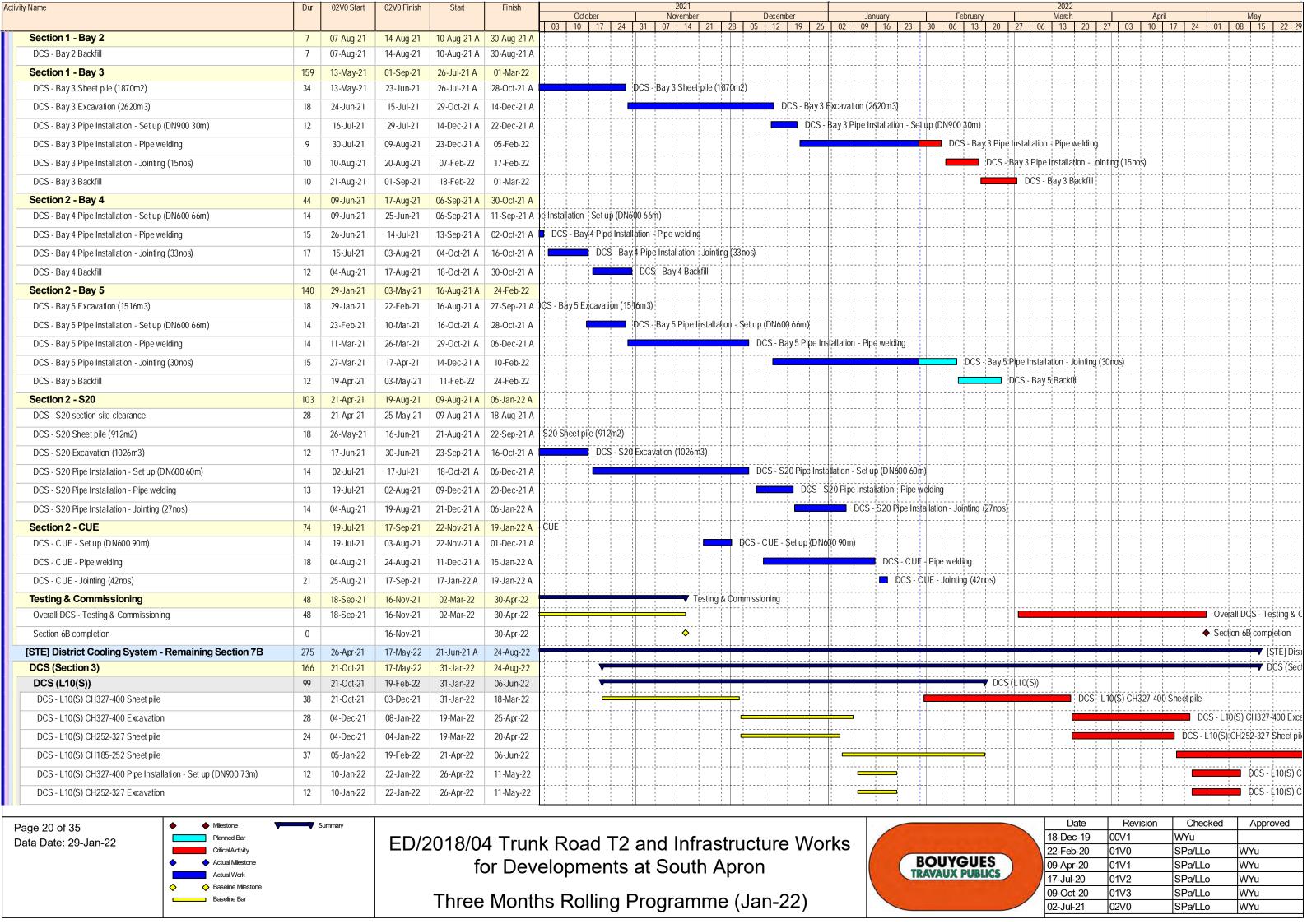
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
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3.9.11 Submit O&M manual for DCS pipelines	0		30-Sep-20		29-Jan-22	♦ 3.9.11 Submit O&M manual for DCS pipelines
3.10 for the Remaining Pipelines for District Cooling Systen 3.10.5 Submit GI report for remaining pipelines of DCS for AMAWBC	0	30-Sep-20	09-Dec-20 30-Sep-20	13-Nov-21 A	13-Nov-21 A 13-Nov-21 A	♦ 3.10,5 Submit GI report for remaining pipelines of DCS for AMAWBC
	0				13-Nov-21 A	3.10,6 Approval GI report for remaining pipelines of DCS for AMAWBC
3.10.6 Approval GI report for remaining pipelines of DCS for AMAWBC			30-Sep-20			
3.10.10 Approval DDA for remaining pipelines of DCS	0	20.0	09-Dec-20	40.0.1.04.4	13-Nov-21 A	♦ 3.10.10 Approval DDA for remaining pipelines of DCS
3.12 for Improvement Works at Junctions of Cha Kwo Ling 3.12.9 Complete whole activities of this cost centre	0	30-Sep-20	30-Sep-20 30-Sep-20	13-Oct-21 A	13-Oct-21 A 13-Oct-21 A	◆ 3.12.9 Complete whole activities of this cost centre
4.2 Depressed Road and Remaining Ventilation Adits at the	24	20-Apr-21	14-Sep-21	13-Aug-21 A	29-Jan-22	d Road and Remaining Ventilation Adits; at the South Apron
4.2.12 Complete excavation of South Apron Adist 1	0	20-Apr-21	14-Sep-21 16-Jun-21	13-Aug-21 A	13-Aug-21 A	
4.2 .13 Complete South Apron Adist permanent structure 0.2	0		28-May-21			rient structure 0.2
4.2 .14 Complete South Apron Adist permanent structure 0.4	0		22-Jun-21		•	ețe South Apron Adist permanent structure 0.4
4.2 .15 Complete South Apron Adist permanent structure 0.6	0		16-Jul-21		13-Oct-21 A	◆ 4.2 .15 Complete South Apron Adlist permanent structure 0.6
4.2 .24 Complete foundation of Depressed Road by length 0.9	0		20-Apr-21		13-Nov-21 A	◆ 4.2 .24 Complete foundation of Depressed Road by length 0.9
			·			◆ 4.2.25 Complete permanent structure of Depressed Road by length 0.4
4.2 .25 Complete permanent structure of Depressed Road by length 0.4	0		15-Jun-21		13-Nov-21 A	◆ 4.2 .26 Complete: permanent structure of Depressed Road by length 0.5
4.2 .26 Complete permanent structure of Depressed Road by length 0.5	0		29-Jun-21		13-Nov-21 A	
4.2 .27 Complete permanent structure of Depressed Road by length 0.6	0		29-Jun-21		13-Nov-21 A	♦ 4.2 .27 Complete: permanent structure of Depressed Road by length 0.6
4.2 .28 Complete permanent structure of Depressed Road by length 0.7	0		19-Jul-21		13-Nov-21 A	♦ 4.2.28 Complete permanent structure of Depressed Road by length 0.7
4.2 .29 Complete permanent structure of Depressed Road by length 0.8	0		16-Aug-21		13-Nov-21 A	♦ 4.2 .29 Complete: permanent structure of Depressed Road by length 0.8
4.2 .30 Complete permanent structure of Depressed Road by length 0.9	0		14-Sep-21		13-Nov-21 A	♦ 4.2 .30 Complete: permanent structure of Depressed Road by length 0.9
4.2 .16 Complete South Apron Adist permanent structure 0.8	0		09-Aug-21		13-Dec-21 A	◆ 4.2 .16 Complete South Apron Adist permanent structure 0.8
4.2 .17 Complete South Apron Adist permanent structure 1	0		31-Aug-21		29-Jan-22*	◆ 4.2 .17 Complete South Apron Adist permanent structure 1
4.2 .23 Complete foundation of Depressed Road by length 1	0		20-Apr-21		29-Jan-22*	◆ 4.2.23 Complete: foundation of Depressed Road by length 1
4.2 .31 Complete permanent structure of Depressed Road by length 1	0		14-Sep-21		29-Jan-22*	◆ 4.2.31 Complete: permanent structure of Depressed Road by length 1
5.1 Cut-and-Cover Tunnel at South Apron	96	07-Sep-21	07-Sep-21	13-Oct-21 A	13-Oct-21 A	Tunnel at South Apron
5.1.18 Complete base slab of Cut-and-cover Tunnel by length 0.1	0		07-Sep-21		13-Oct-21 A	♦ 5.1.18 Complete base slab of Cut-and-cover Tunnel by length 0.1
5.1.19 Complete base slab of Cut-and-cover Tunnel by length 0.2	0		07-Sep-21		13-Oct-21 A	♦ 5.1.19 Complete base slab of Cut-and-cover Tunnel by length 0.2
5.1.20 Complete base slab of Cut-and-cover Tunnel by length 0.3	0		07-Sep-21		13-Oct-21 A	♦ 5.1.20 Complete base slab of Cut-and-cover Tunnel by length 0.3
5.1.21 Complete base slab of Cut-and-cover Tunnel by length 0.4	0		07-Sep-21		13-Oct-21 A	◆ 5.1.21 Complete base slab of Cut-and-cover Tunnel by length 0.4
5.1.22 Complete base slab of Cut-and-cover Tunnel by length 0.5	0		07-Sep-21		13-Oct-21 A	♦ 5.1.22 Complete base slab of Cut-and-cover Tunnel by length 0.5
5.1.23 Complete base slab of Cut-and-cover Tunnel by length 0.6	0		07-Sep-21		13-Oct-21 A	◆ 5.1.23 Complete base slab of Cut-and-cover Tunnel by length 0.6
5.1 .24 Complete base slab of Cut-and-cover Tunnel by length 0.7	0		07-Sep-21		13-Oct-21 A	♦ 5.1.24 Complete base slab of Cut-and-cover Tunnel by length 0.7
5.1 .25 Complete base slab of Cut-and-cover Tunnel by length 0.8	0		07-Sep-21		13-Oct-21 A	♦ 5.1.25 Complete base slab of Cut-and-cover Tunnel by length 0.8
5.1 .26 Complete base slab of Cut-and-cover Tunnel by length 0.9	0		07-Sep-21		13-Oct-21 A	♦ 5.1.26 Complete base slab of Cut-and-cover Tunnel by length 0.9
5.2 Completion of SUS	0	17-Nov-21	17-Nov-21	18-May-22	18-May-22	▼ 5.2 Completion of SUS
5.2 .29 Complete remaining works in SUS by length 0.5	0		17-Nov-21		18-May-22	◆ 5.2.29 Ca
6.1 Tunnel Boring Machine and Back-up Equipment	0	29-Mar-21	26-May-21	13-Aug-21 A	13-Dec-21 A	
6.1 .14 Complete establishment on site of Slurry Treatment Plant	0		26-May-21		13-Aug-21 A	Slurry Treatment Plant
6.1 .6 Approval design of hyperbaric intervention facilities	0		26-May-21		13-Sep-21 A	al design of hyperbaric intervention facilities
6.1 .11 Complete establishment on site of TBMs 0.5	0		29-Mar-21		13-Sep-21 A	ete establishment on site of TBMs 0.5
6.1.15 Complete establishment on Site of hyperbaric intervention facilities 0	0		29-Mar-21		13-Sep-21 A	ete establishment on Site of hyperbaric intervention facilities 0.5
6.1 .12 Complete establishment on site of TBMs 1	0		26-May-21		13-Dec-21 A	♦ 6.1.12 Complete establishment on site of TBMs:1
6.1 .16 Complete establishment on Site of hyperbaric intervention facilities 1	0		26-May-21		13-Dec-21 A	♦ 6.1 .16 Complete establishment on Site of hyperbaric intervention facilities 1
1						
Page 15 of 35 ♦ Milestone	Sun	mmary				Date Revision Checked Approved
Data Date: 29-Jan-22			FD/2	018/04	4 Trun	k Road T2 and Infrastructure Works
Critical Activity						elopments at South Apron BOUYGUES 122-Feb-20 01V0 SPa/LLo WYu 120-Feb-20 01V1 SPa/LLo WYu 120-Feb-20 01V1 SPa/LLo WYu 120-Feb-20 01V1 SPa/LLo WYu
Actual Milestone				16	11 1 1 0 10 10	PRINTING PROPERTY OF A CONTROL
Actual Work				1		TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu
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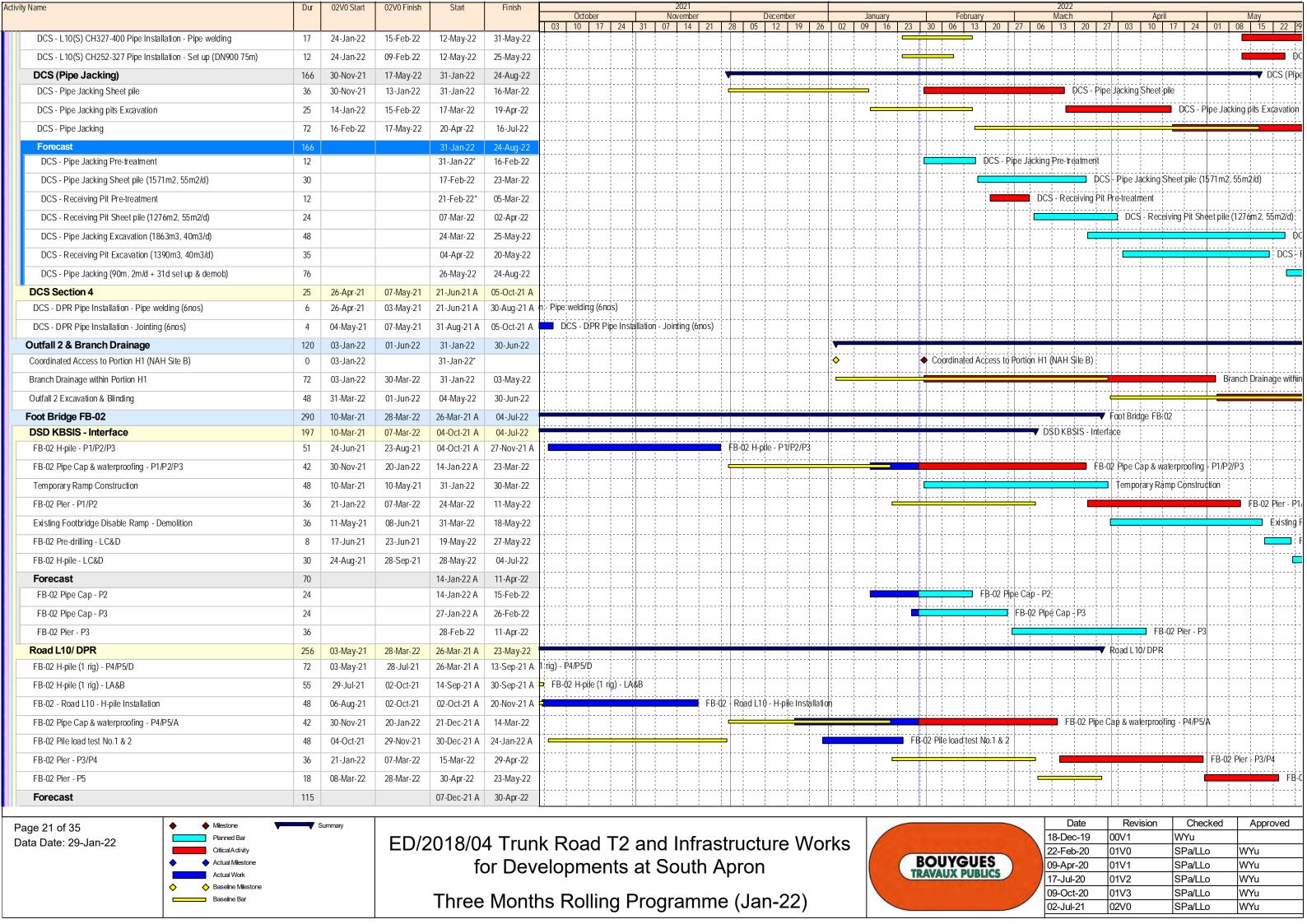
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
						03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 2
6.1.17 Complete whole activities of this cost centre	0		26-May-21		13-Dec-21 A	A : : : :
7.1 Western Ventilation Building	0	21-Jul-21	09-Sep-21	13-Aug-21 A		4 ilation Building
7.1.1 Complete mobilization of excavation equipment 0.5	0		21-Jul-21			A equipment 0.5
7.1 .3 Complete excavation for WVB 0.5	0		09-Sep-21		13-Dec-21 A	
9.1 Launching Shaft	65	14-Jul-21	13-Aug-21	13-Sep-21 A	13-Oct-21 A	
9.1.13 Complete bottom slab for Launching Shaft by area 0.2	0		14-Jul-21		13-Sep-21 A	
9.1.14 Complete bottom slab for Launching Shaft by area 0.4	0		14-Jul-21		13-Oct-21 A	
9.1.15 Complete bottom slab for Launching Shaft by area 0.6	0		26-Jul-21		13-Oct-21 A	
9.1.16 Complete bottom slab for Launching Shaft by area 0.8	0		04-Aug-21		13-Oct-21 A	
9.1.17 Complete bottomslab for Launching Shaft by area 1	0		13-Aug-21		13-Oct-21 A	
11.1 Drill and Break Tunnel	33	13-Jul-21	21-Dec-21	13-Dec-21 A	14-Feb-22	▼ 11.1 Drll and Break Tunnel
11.1.2 Complete tunnel excavation 0.2 by length	0		13-Jul-21		13-Dec-21 A	
11.1.2 Complete tunnel excavation 0.5 by length	0		19-Oct-21		29-Jan-22*	♦ 11.1.2 Complete tunnel excavation 0.5 by length
11.1.2 Complete tunnel excavation 0.3 by length	0		13-Aug-21		29-Jan-22*	♦ 11.1;2 Complete Junnel excavation 0;3 by length
11.1.2 Complete tunnel excavation 0.4 by length	0		14-Sep-21		29-Jan-22*	♦ 11.1;2 Complete Junnel excavation 0;4 by length
11.1.3 Complete tunnel excavation 0.6 by length	0		19-Nov-21		14-Feb-22*	◆ 11 1.3 Complete tunnel excavation 0.6 by length
11.1.5 Complete tunnel excavation 0.7 by length	0		21-Dec-21		14-Feb-22*	♦ 11:1.5 Cdmplete tunnel excavation 0.7 by length
12.1 Drill and Blast Tunnel	80	16-Sep-21	14-Feb-22	13-Oct-21 A	29-Jan-22	▼ 12:1 Drill and Blast Tunnel
12.1.7 Complete tunnel excavation 0.6 by length	0		16-Sep-21		13-Oct-21 A	A
12.1.8 Complete tunnel excavation 0.7 by length	0		05-Nov-21		13-Oct-21 A	A
12.1.9 Complete tunnel excavation 0.8 by length	0		22-Dec-21		13-Dec-21 A	A ♦ ♦ 12.1.9 Compléte tunnel excavation 0.8 by length
12.1.10 Complete tunnel excavation 0.9 by length	0		14-Feb-22		29-Jan-22*	♦ 12 1.10 Çomplete tunnel excavation 0.9 by length
12.2 Cross Passages for Drill and Blast Tunnel	0	12-Apr-22	12-Apr-22	24-May-22	24-May-22	▼ 12.2 Cross Passages for Drill and Bla
12.2.4 Complete cross passages structure by length 0.4	0		12-Apr-22	,	24-May-22	<u> </u>
15.0 E&M Design Works	215	02-Jan-21	03-Sep-21	13-Aug-21 A	07-May-22	
15.0.9 Submit DDA for electrical system (power supply)	0		28-Apr-21		13-Aug-21 A	A jawer supply)
15.0 .12 Approval AIP for Tunnel extra low voltage system	0		02-Jan-21		13-Aug-21 A	A voltage:system
15.0 .21 Submit DDA for Tunnel plumbing & drainage	0		10-Feb-21		13-Aug-21 A	A &idrainage
15.0 .29 Submit DDA for remaining tunnel and at-grade E&M systems	0		06-Jul-21		13-Aug-21 A	A and at-grade E&M systems
15.0 .33 Submit DDA for E&M in WVB	0		24-Feb-21		13-Aug-21 A	
15.0.37 Submit DDA for E&M in EVB	0		11-Jun-21		13-Aug-21 A	
15.0.25 Submit DDA for Tunnel lighting system	0		10-May-21		14-Feb-22*	◆ 15;0 .25 \$ubmit DDA for Tunnel lighting system
15.0 .26 Approval DDA for Tunnel lighting system	0		03-Sep-21		07-May-22	
17.1 Works under Sections 6A, 6C and 12 and Associated L	33	23-Dec-20	04-Oct-21	13-Aug-21 A		
17.1 .42 Complete watermain installation 0.25	0	20 000 20	23-Dec-20	10 May 21 A	13-Aug-21 A	
17.1.46 Complete anchor blocks, thrust block etc for waterworks 0.25	0		23-Dec-20			A p¢k etc for waterworks 0.25
17.1.3 Complete excavation and disposal of material works 0.8	0		23-Jun-21		13-Oct-21 A	
17.1.13 Complete footpath 0.25	0		21-Sep-21		14-Feb-22*	
17.1.17 Complete street furnitures of at-grade roads 0.25	0		04-Oct-21		14-Feb-22*	
17.4 Remaining Stage 5 Infrastructure Works - Road L10 (S	0	02-Aug-22	04-Oct-21	29-Jan-22	14-Feb-22	→ 17.1.7 yempiya sayat danjimasiya a gade iyadis 4.25
17.4 Remaining stage 5 infrastructure works - Road LT0 (S	0	02-Aug-22	17-Feb-23	27-Jail-22	29-Jan-22	┦ ┊╌┊╌┊╌┊╌┊╌┊╌┊╌┊╌┊┼┊╌┊╌┊╌┆╌┆╌┆╌┆╌┆╌┆╌┆╌┆╌
17.4.2 Complete excavation and disposal of material works 0.5	0		04-Mar-23		14-Feb-22*	
17.4 .21 Complete drainage installation 0.2	0		18-Oct-22		14-Feb-22*	
17.4.21 complete transage installation 0.2	U U		10-061-22		17-1 CD-22	
Page 16 of 35 ◆ Milestone ▼	s	ummary				Date Revision Checked Approve
Data Date: 29-Jan-22			ED/2	018/04	4 Trun	nk Road T2 and Infrastructure Works
◆ Actual Miestone	♦ Actual Milestone					BOUYGUES 09-Apr-20 01V1 SPa/Lo WYU
Actual Work ♦ Baseline Milestone				10	DUV	TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu
Baseline Bar				Three	Montl	ths Rolling Programme (Jan-22)
						uris Rolling Programme (Jan-22)

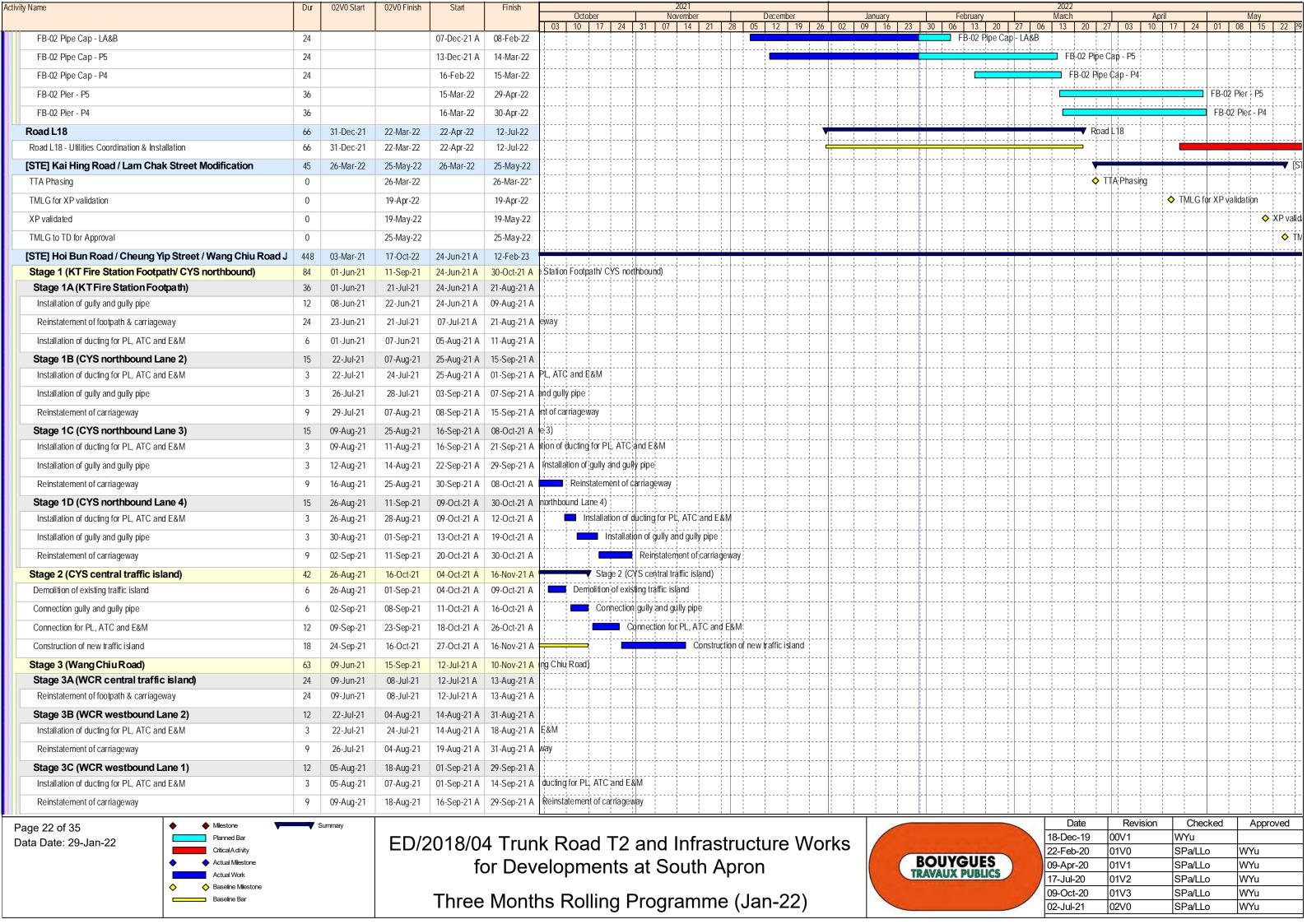
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
47.4.05.0			10.0 : 5		44.5 1.551	03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22 29
17.4.25 Complete manhole for drainage 0.25	0		18-Oct-22		14-Feb-22*	
17.4 .31 Complete sewerage installation 0.25	0		02-Aug-22		14-Feb-22*	
17.4 .35 Complete manhole for sewerage 0.25	0		02-Aug-22		14-Feb-22*	
17.5 Remaining Stage 5 Infrastructure Works - Landscaped	112	05-Jun-21	28-Mar-22	13-Sep-21 A	23-May-22	▼ 17:5 Remaining Stage 5 Infrastructure Works - Landscap
17.5 .5 Complete piled foundations of FB02 0.25	0		05-Jun-21		·	ete pilled foundations of FB02 0.25
17.5 .6 Complete piled foundations of FB02 0.5	0		15-Jul-21		13-Oct-21 A	
17.5 .16 Complete concrete works of piers 0.25	0		07-Mar-22		14-Feb-22*	◆ 17,5.16 Complete concrete works of piers 0.25
17.5 .11 Complete concrete works of pile caps 0.5	0		23-Dec-21		17-Feb-22	♦ 17.5.11 Complete concrete works of pile caps 0.5
17.5.12 Complete concrete works of pile caps 0.8	0		08-Jan-22		02-Mar-22	◆ 17.5.12 Complete concreté works of pile caps 0.8
17.5.13 Complete concrete works of pile caps 1	0		20-Jan-22		14-Mar-22	♦ 17:5.13 Complete concrete works of pile caps 1
17.5.18 Complete concrete works of piers 0.8	0		07-Mar-22		29-Apr-22	◆ 17.5:18 Complete concrete
17.5 .17 Complete concrete works of piers 0.5	0		07-Mar-22		11-May-22	◆ 17.5.17 Compk
17.5 .19 Complete concrete works of piers 1	0		28-Mar-22		23-May-22	17;5
21.1 Improvement Works at the Junction of Hoi Bun Road/C	0	08-Jun-21	15-Sep-21	13-Aug-21 A	13-Dec-21 A	ement Works at the Junction of Hoi Bun Road/Cheung Yip Street
21.1 .4 Complete sub-base and roadbase works 0.25	0		23-Jun-21		13-Aug-21 A	vorks 0.25
21.1.2 Complete drainage installation 0.5	0		14-Aug-21		13-Nov-21 A	◆ 21.1 .2 Complete drainage installation 0.5
21.1 .3 Complete drainage installation 1	0		08-Sep-21		13-Nov-21 A	♦ 21.1.3 Complete drainage installation 1
21.1.5 Complete sub-base and roadbase works 0.5	0		22-Jul-21		13-Nov-21 A	♦ 21.1, 5 Complete sub-base and roadbase works 0.5
21.1 .6 Complete sub-base and roadbase works 0.8	0		19-Aug-21		13-Nov-21 A	♦ 21.1.6 Complete sub-base and roadbase works 0.8
21.1.7 Complete sub-base and roadbase works 1	0		15-Sep-21		13-Nov-21 A	◆ 21.1.7 Complete sub-base and roadbase works 1
21.1.8 Complete kerb line modification and pavement 0.25	0		08-Jun-21		13-Dec-21 A	◆ 21.1.8 Complete kerb line modification and pavement 0.25
21.2 Irrigation System for Improvement Works at the Juncti	1049	31-Dec-24	28-Feb-25	13-Nov-21 A		
21.2 .1 Complete irrigation system 0.3	0	0. 500 2.	31-Dec-24	10 1107 2 1 1 1	13-Nov-21 A	<u></u>
21.2.2 Complete irrigation system 0.6	0		01-Feb-25		13-Nov-21 A	
21.2 .3 Complete irrigation system 1	0		28-Feb-25		13-Nov-21 A	
21.2 .4 Complete whole activities of this cost centre 1	0		28-Feb-25		13-Nov-21 A	
21.4 Improvement Works at the Junctions of Cha Kwo Ling	12	12-Jan-21	31-May-21	13-Aug-21 A	13-Nov-21 A	 -
21.4 .11 Complete kerb line modification and pavement 1	0	12 341121	22-Apr-21	13 / tug 2 1 / t		nd pavement 1
21.4.14 Complete light posts, lamps, lanterns, ducting and cabling	0		23-Apr-21			plete light posts, lamps, lanterns, ducting and cabling
21.4.1 Complete temporary traffic diversion 1	0		12-Jan-21		13-Nov-21 A	♦ 21.4.1 Complete temporary traffic diversion 1
21.4.12 Complete road marking, traffic sign and traffic signal installation	0		23-Apr-21		13-Nov-21 A	♦ 21.4.12 Complete road marking, traffic sign and traffic signal installation
21.4 .13 Complete roadside planter	0		23-Apr-21		13-Nov-21 A	
21.4 .15 Complete T&C of drainage and waterworks system	0		31-May-21		13-Nov-21 A	◆ 21.4 .15 Complete T&C of drainage and waterworks system
21.4 .16 Complete whole activities of this cost centre	0		31-May-21		13-Nov-21 A	
21.4.16 Complete whole activities of this cost centre 21.5 Establishment Works for Improvement Works at the Ju	-	31-May-21	20-Nov-21	13-Nov-21 A	28-May-22	21.5 Establishment Works for Improvement:Works at the Junctions of Cha Kwo Ling Road
21.5 .1 Complete establishment works for 3 mths completion of softworks	105	31-IVIdY-21	31-May-21	13-11UV-Z I A	28-May-22 13-Nov-21 A	
21.5 .3 Complete establishment works for 9 mths completion of softworks	0		20-Nov-21		28-May-22	
21.5 .4 Complete whole activities of this cost centre	0		20-Nov-21		28-May-22	
22.1 Pipelines for District Cooling System for Commissionia	7/1	17-Apr-21	16-Nov-21	13-Aug-21 A	30-Apr-22	22.1 Pipelines for District Cooling System for Commissioning of AMAWBC
22.1.1 Complete DCS installation length 0.2	0	17-Mp1-21	17-Apr-21	13-Aug-21 A	13-Aug-21 A	
22.1 .3 Complete DCS installation length 0.8	0		17-Jul-21		13-Jan-22 A	◆ 22.1.3 Complete DCS installation length 0.8
22.1 .5 Complete T&C of DCS system 1	0		16-Nov-21		30-Apr-22	♦ 22.1;.5 Complete;T&C of I
22.1.0 OSIMPICIO 180 OI DOS 3731GIII 1	J		IO INOV-Z I		50 Apr-22	
						Date Revision Checked Approved
Page 17 of 35	Sı	ummary		040/0	/ T	10 D 10 10014
Data Date: 29-Jan-22 Critical Activity			 			1K ROAU 12 and initiastructure vvorks
♦ Actual Milestone Actual Work				fo	or Dev	relopments at South Apron BOUYGUES 109-Apr-20 01V1 SPa/LL0 WYU 17 Ivi 20 01V2 SPa/L 0 WYU
♦ ♦ Baseline Milestone						17-Jul-20 01V2 SPA/LLO WYU
Baseline Bar				Three	Month	hs Rolling Programme (Jan-22)

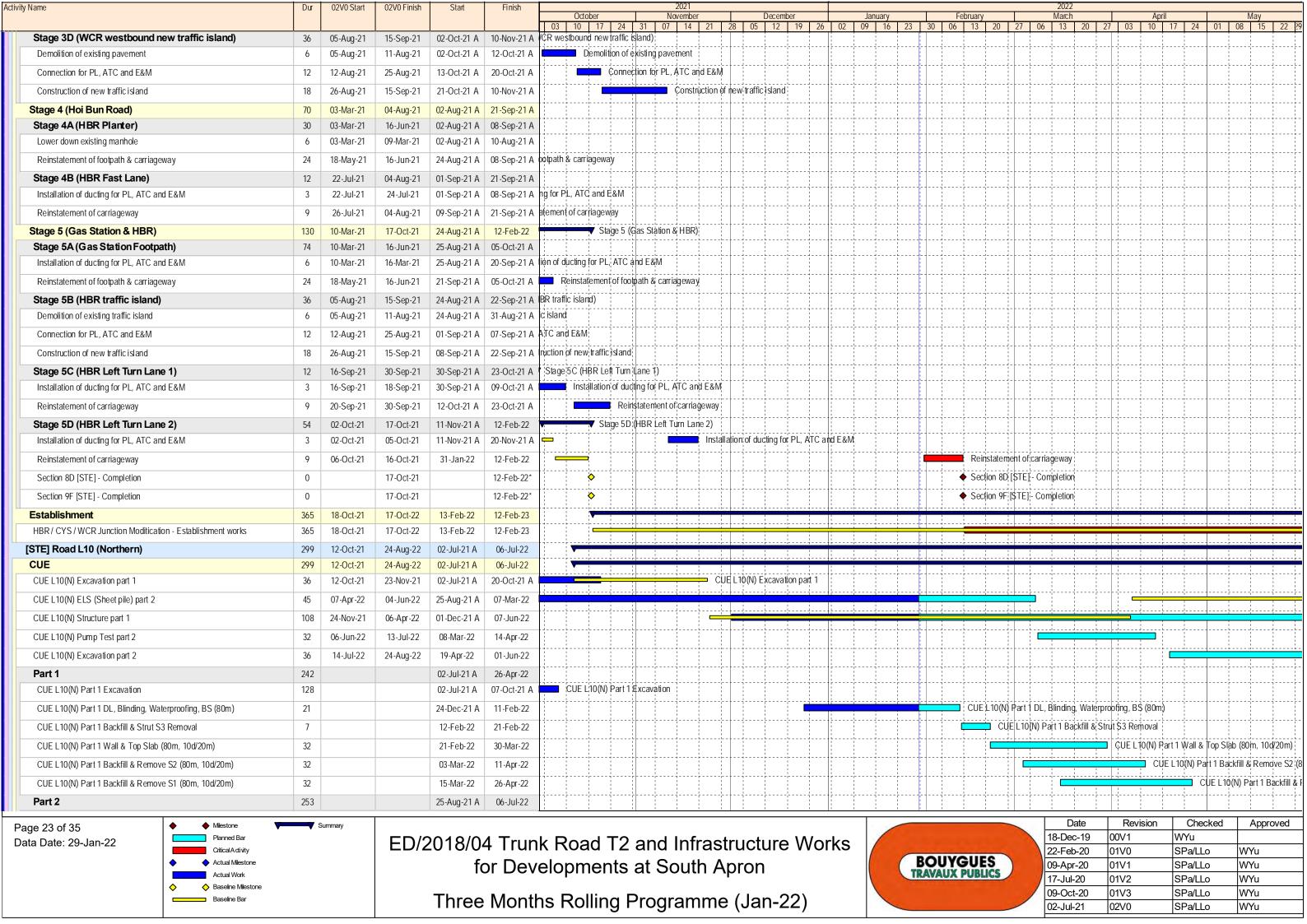


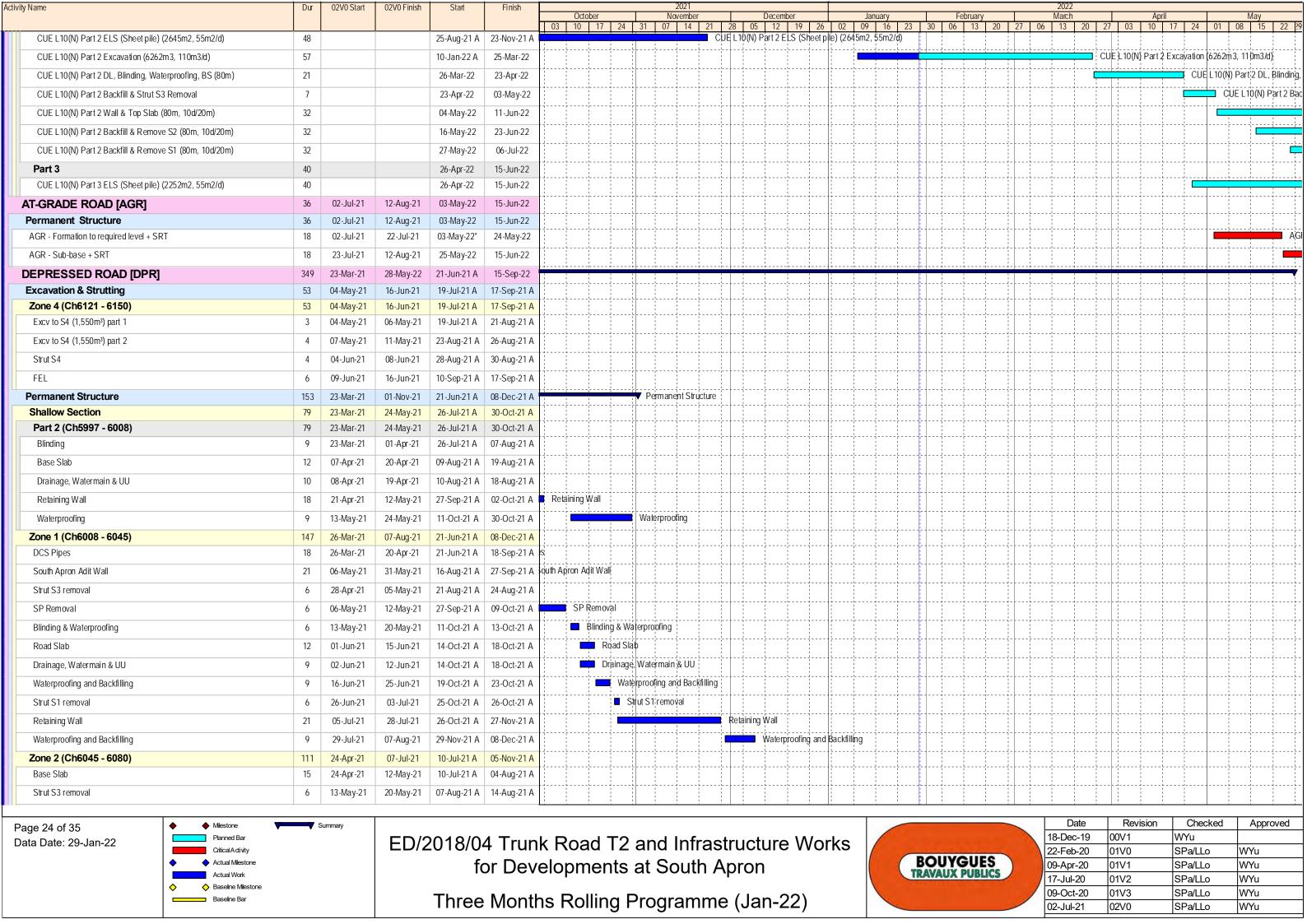


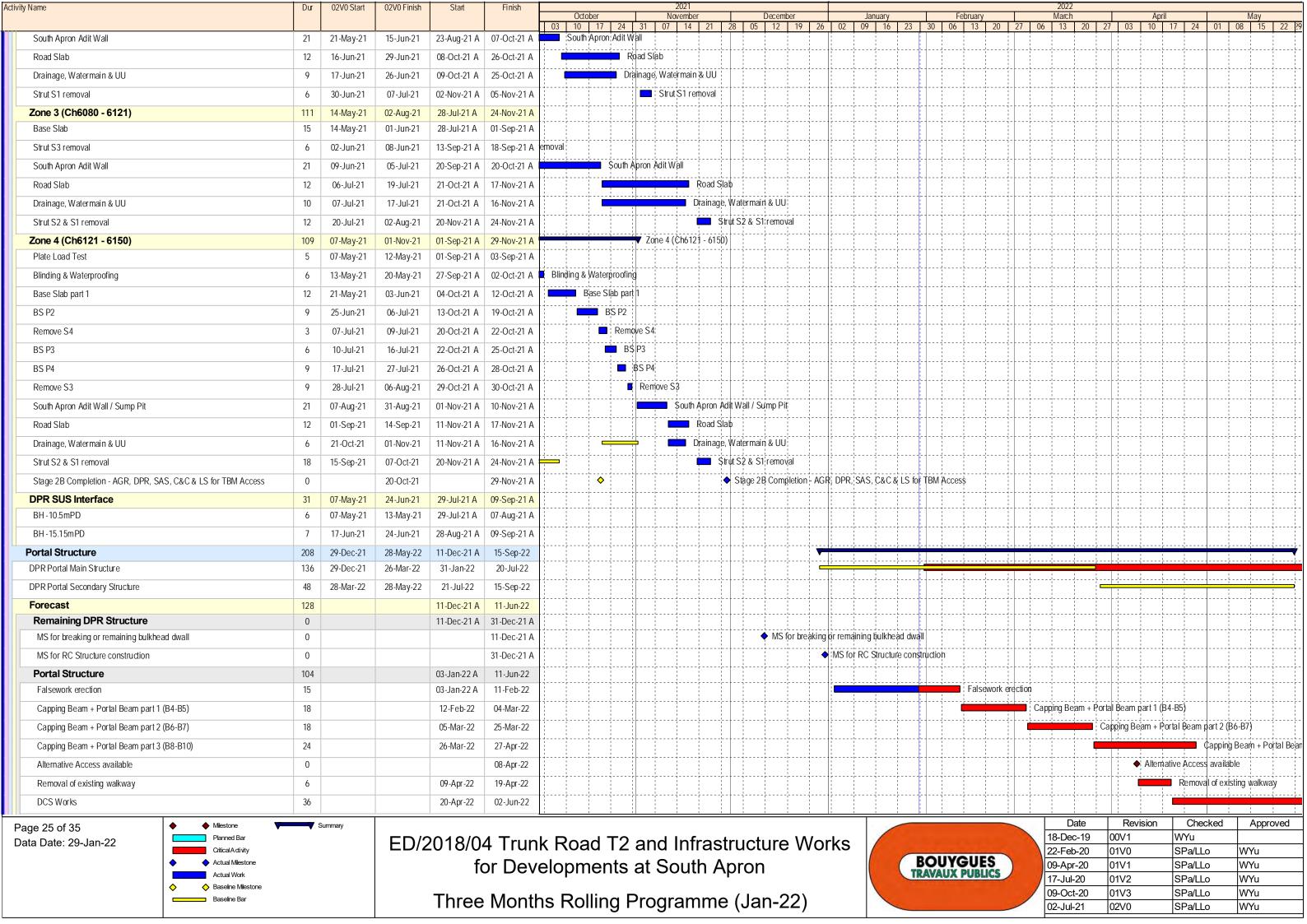






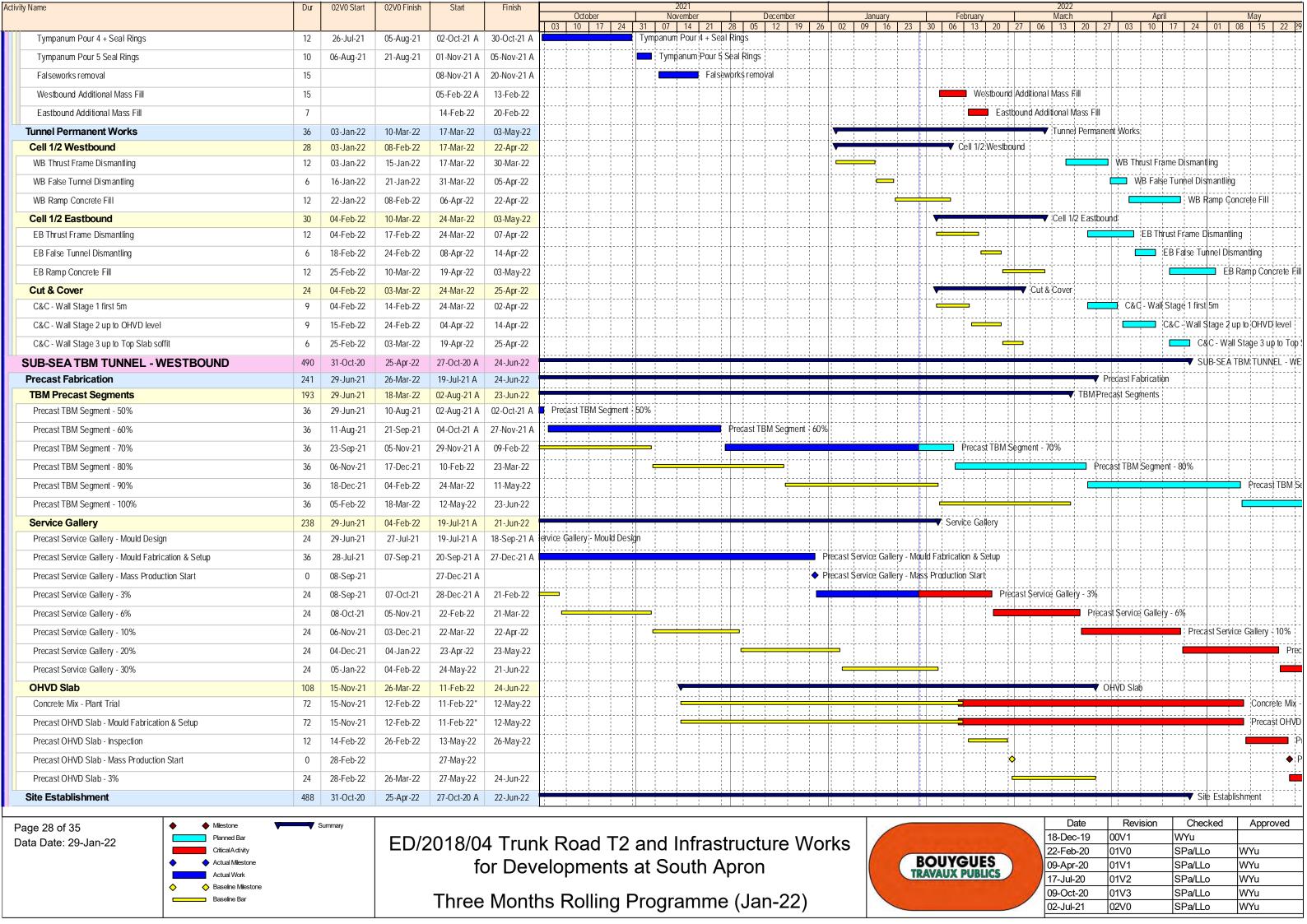




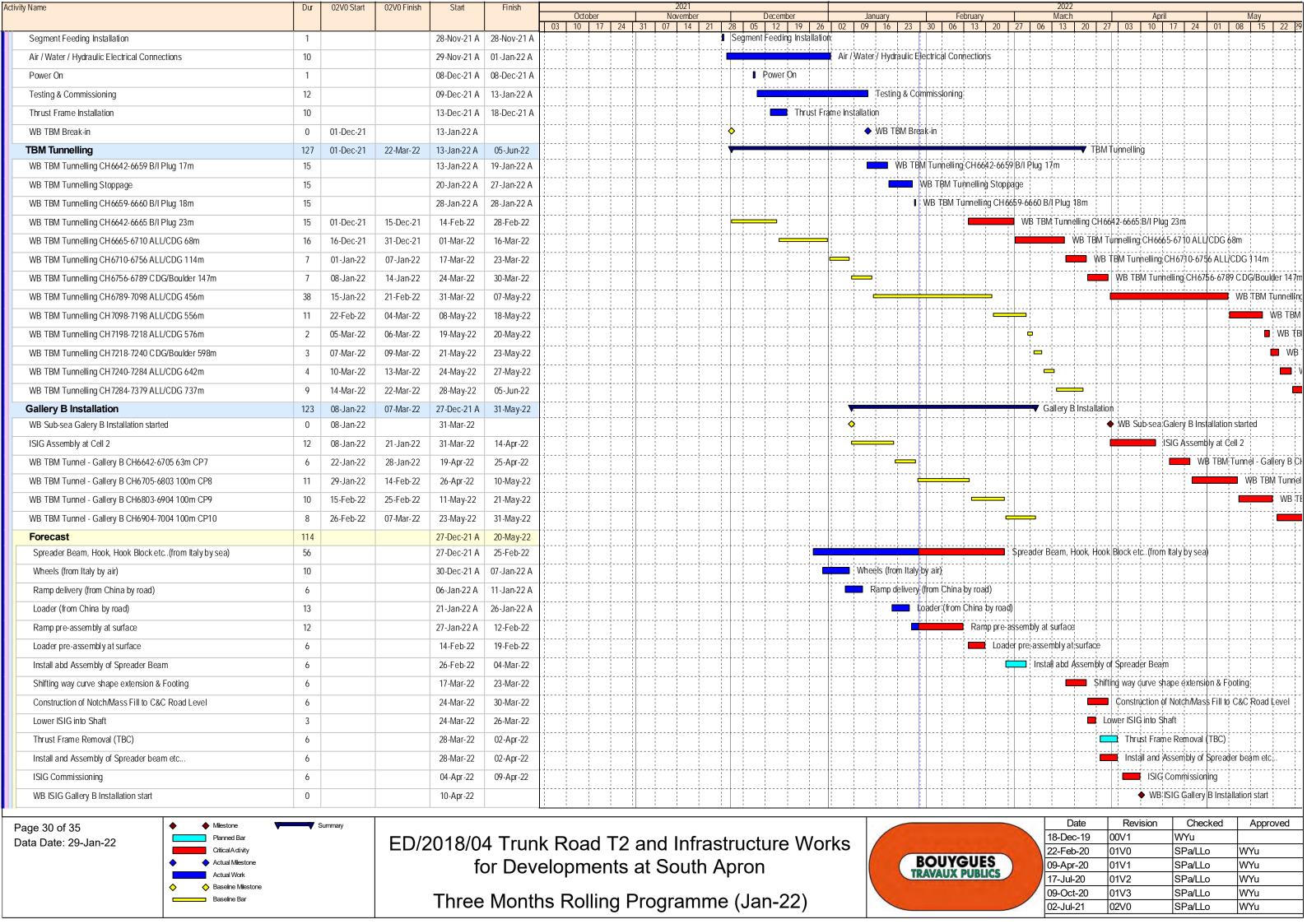


Activity Name	Dur	02V0 Start	02V0 Finish											2022											
						03 10 17 24 31 0		28 05 12 19	26 0		23	30 06 13	0 27 0	March 06 13		03	April 10	17 24	May 01 08 15 22 29						
Capping Beam + Portal Beam part (B11-12)	18			28-Apr-22	20-May-22													_	Cappin						
Portal secondary structure - Wall part 1 (B4-B10)	9			28-Apr-22	10-May-22														Portal secondary						
Portal secondary structure - Slab part 1 (B4-B10)	15			11-May-22	27-May-22					1 1									F						
Portal secondary structure - Wall part 2 (B11-B12)	12			21-May-22	04-Jun-22						-														
Steel Portal Beam installation (B1-B3)	12			28-May-22	11-Jun-22				1						1 1										
WEST VENTILATION BUILDING [WVB]	285	21-May-21	26-Feb-22	21-Jun-21 A	20-Jun-22	 		1 1 1	1 1		·	<u> </u>	WE\$T	VEŅTILA	TION BUILE	JŅG [W	VB]								
ELS system & Foundation	117	21-May-21	19-Jul-21	21-Jun-21 A	20-Oct-21 A																				
King Post	117	02-Jun-21	19-Jul-21	21-Jun-21 A	20-Oct-21 A		1 1 1																		
Steel Platform Location	117	02-Jun-21			20-Oct-21 A																				
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21		21-Jun-21 A													ļļ.								
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Jul-21 A	14-Aug-21 A	D:																			
Steel Deck Erection	18	28-Jun-21	19-Jul-21		20-Oct-21 A	Steel Deck Erecti	on		j)	.]]	<u> </u>								
Wells Installation	15	21-May-21	08-Jul-21	26-Jul-21 A	•												ļļ.								
North Dispuise Well hestelleten (pee v 2 dec (7epe 2)	7	21-May-21	16-Jun-21	26-Jul-21 A	•	10.2)			ļ																
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21														ļļ.								
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	-		nos x 2 rigs (Zone 1)			ļļ																
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	30-Aug-21 A		h!- 7 nos x 2 rigs (Zone 2)										<u> </u>	ļļ.								
South	15	28-May-21	08-Jul-21	12-Aug-21 A	•																				
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21			lon - 3 nos x 2 rigs (Zone 6)											 								
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Jul-21	08-Jul-21			s x 2 rigs (Zone 5)			j						.]]	<u> </u>								
Steel Platform Location	8	24-Jun-21		11-Aug-21 A				.	ļļ								ļļ.								
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)	8	24-Jun-21	03-Jul-21	-	18-Aug-21 A	rigs (Zone 4)									.]										
Excavation & Strutting	140	09-Jul-21	11-Dec-21	06-Sep-21 A	23-Mar-22			Excavation	n & Struttin	g							ļļ.								
Pumping Test	12	09-Jul-21	20-Jul-21	06-Sep-21 A		lest																			
Excavation to below Strut S1 10,010m³	17	21-Jul-21	09-Aug-21	20-Sep-21 A			Excavation to	below Strut S1 10,010	m³								ļļ.								
Bulk Excavation Start	0	21-Jul-21		20-Sep-21 A		cavation Start																			
Strut S1 Installation	20	26-Jul-21	17-Aug-21	30-Sep-21 A	16-Nov-21 A		Strut S1 I	nstallation							.]		<u> </u>								
Strut S1 Pre-loading	2	18-Aug-21	19-Aug-21	17-Nov-21 A	18-Nov-21 A		■ Strut \$1	Pre-loading						-											
Excavation to below Strut S2 11,076m ³	18	20-Aug-21	09-Sep-21	19-Nov-21 A	07-Dec-21 A			Excavation to	below Str	ut \$2 11,076m	3														
Strut S2 Installation	20	26-Aug-21	17-Sep-21	29-Nov-21 A	16-Dec-21 A			Strut	S2 Installa	ion															
Strut S2 Pre-loading	2	18-Sep-21	20-Sep-21	17-Dec-21 A	18-Dec-21 A			■ Str	ut S2 Pre-lo	pading															
Excavation to below Strut S3 11,905m ³	20	21-Sep-21	16-Oct-21	20-Dec-21 A	12-Jan-22 A					Excav		below Strut \$3 11,90	im³												
Strut S3 Installation	24	28-Sep-21	22-Oct-21	03-Jan-22 A	19-Jan-22 A						\$trut S	3 Installation													
Strut S3 Pre-loading	2	23-Oct-21	25-Oct-21	20-Jan-22 A	21-Jan-22 A						Strut	S3 Pre-loading													
Excavation to below Strut S4 8,930m³	15	26-Oct-21	11-Nov-21	22-Jan-22 A	19-Feb-22				 				xcavation to	below S	trut S4 8,930	¦)m¦³									
Strut S4 Installation	20	30-Oct-21	22-Nov-21	31-Jan-22	25-Feb-22				i				■ \$trut S4	I Installation	on :										
Strut S4 Pre-loading	2	23-Nov-21	24-Nov-21	26-Feb-22	28-Feb-22	 							■ Strut		1										
Excavation to FEL 9,230m³	20	25-Nov-21	11-Dec-21	01-Mar-22	23-Mar-22			<u> </u>					1 1	1		vation to	FEL 9,2	30m³							
Building Structure	69	13-Dec-21	26-Feb-22	24-Mar-22	20-Jun-22				ļ				Buildin	g Structur											
WVB - Earth Mat Installation	24	13-Dec-21	31-Dec-21	24-Mar-22	20-Juli-22 25-Apr-22			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u> </u>				- Joungin	9 Squbiul			<u> </u>		B - Earth Mat Installation						
WVB - Base Slab	45	03-Jan-22	26-Feb-22	26-Apr-22	20-Jun-22								<u></u> i- i												
Forecast	64	541122		24-Mar-22	14-Jun-22																				
WVB - Earth Mat Installation	24			24-Mar-22	25-Apr-22				i								<u> </u>		'B - Earth Mat Installation						
				22	p. 22		<u> </u>		<u> </u>	<u> </u>	1		- <u> </u>	<u> </u>	1 1	1	1 1								
Page 26 of 35 ♦ Milestone	Sı	ummary								70.00					Date	Rev	rision	Chec	ked Approved						
Data Date: 29-Jan-22	•		FD/2	018/0 ₄	4 Trun	k Road T2 and	Infract	ructure V	Vork	\sim				18-De		00V1		WYu							
Critical A divity ◆ Actual Milestone			_0/2						4 OI IV			BOILVEILE	,	22-Fe		01V0		SPa/LLo							
Actual Work				TC	or Dev	elopments at S	outh A	pron			T	BOUYGUES RAVAUX PUBLIC	5	09-Ap		01V1 01V2		SPa/LLo							
♦ Baseline Milestone Baseline Bar				These	112:21	aa Dalling Dras	ro 60 100 -	/ lan 00'						09-Oc		01V3		SPa/LL							
Daseirie Dari				rnree	ivionti	is Rolling Prog	ramme	: (Jan-22 ₎								02V0		SPa/LLo) WYu						
<u>'</u>														Three Months Rolling Programme (Jan-22)											

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022
						October November December January February March April May 03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22
Base Slab Construction pour 1 + Strength gain (TC Location)	20			26-Apr-22	20-May-22	Base
Tower Crane Erection	7			21-May-22	28-May-22	
Base Slab remaining construction	20			21-May-22	14-Jun-22	
Tower Crane Operation	0				28-May-22	
SUPPORTING UNDERGROUND STRUCTURE [SUS	30	20-Oct-21	07-Dec-21	03-May-22	08-Jun-22	▼ Supporting underground structure [SUS]
Permanent Structure	30	20-Oct-21	07-Dec-21	03-May-22	08-Jun-22	▼ Permanent Structure
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	03-May-22*	31-May-22	
SUS - EB Partition Wall CH6150-6260	30	03-Nov-21	07-Dec-21	03-May-22*	08-Jun-22	
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	246	20-May-21	10-Mar-22	08-Jun-21 A	03-May-22	C&C TUNNEL / LAUNCHING SHAFT [C&C /LS]
Delay Events	18	,			27-Aug-21 A	
C1-15 Zone 4 Pour 2 Remedial works	18				05-Aug-21 A	<u> </u>
C1-15 Zone 4 Pour 3 Remedial works	18			06-Aug-21 A	11-Aug-21 A	
C1-15 Strengthening Wall Strength Gain	18				15-Aug-21 A	
Cross Wall X1 Breaking	18			·	27-Aug-21 A	
ů	10	20 M 01	20 May 21			
Shaft Excavation & Strutting Cell 1	9	20-May-21 20-May-21	29-May-21 29-May-21	08-Jun-21 A	07-Aug-21 A 07-Aug-21 A	
Excavation (6,809 m³) to FEL -33.75mPD	9	20-May-21 20-May-21	29-May-21		07-Aug-21 A	
Civil Works for TBM Assembly	165	02-Jun-21	15-Oct-21	03-Jul-21 A	20-Feb-22	Civil Works for TBM Assembly
Cut & Cover	88	24-Jul-21	15-Oct-21		26-Oct-21 A	
Blinding & Waterproofing Pour 15	9	24-Jul-21	03-Aug-21	22-Jul-21 A		
Base Slab Pour 5 [1,740m³)	30	04-Aug-21	07-Sep-21			, p Pour 5 [1,740m³)
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21		12-Oct-21 A	
	12		·	·		
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	23-Sep-21	04-Oct-21		21-Oct-21 A	
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	05-Oct-21	15-Oct-21		26-Oct-21 A	EB SUS BH removal (145m² / 8.4m²/shiff x 2 shiff)
Cell 1 & 2	165	02-Jun-21	09-Sep-21	03-Jul-21 A	20-Feb-22	
VSL Gantry Crane Setup	12	30-Jun-21	14-Jul-21	03-Jul-21 A	24-Aug-21 A	
Cell 1 & 2 Excavation completion	0		02-Jun-21		07-Aug-21 A	
VSL Gantry Crane Load Test	3	15-Jul-21	17-Jul-21	25-Aug-21 A	28-Aug-21 A	
Base Slab	118	03-Jun-21	09-Sep-21	29-Jul-21 A		
Base Slab Pour 1 [1,292m³)	22	18-Jun-21	14-Jul-21		21-Aug-21 A	
Plate Load Test	6	03-Jun-21	09-Jun-21	16-Aug-21 A	21-Aug-21 A	
Blinding & Waterproofing Pour 2	9	18-Jun-21	28-Jun-21	28-Aug-21 A	07-Sep-21 A	vidfing Pour 2
Blinding & Waterproofing Pour 3 & 4	9	29-Jun-21	09-Jul-21	30-Aug-21 A	20-Sep-21 A	3 & Waterproofing Pour 3 & 4
Base Slab Pour 2 [883m³)	16	15-Jul-21	26-Jul-21	13-Sep-21 A	07-Oct-21 A	Base \$lab Pour 2 [883m³):
Base Slab Pour 3 & 4 [910m³)	17	27-Jul-21	04-Aug-21	27-Sep-21 A	16-Oct-21 A	Base Slab (Pour 3 & 4 [910m³)
Temp. & Perm. Side Wall part 1	12	14-Aug-21	24-Aug-21		23-Oct-21 A	
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21		13-Nov-21 A	
Tympanum	159	03-Jun-21	21-Aug-21	26-Jul-21 A	20-Feb-22	
Blinding & Waterproofing	9	03-Jun-21	12-Aug-21	26-Jul-21 A		
Tympanum Pour 1 + Seal Rings (353m³)	12	15-Jun-21	28-Jun-21		-	Rings [353m³):
Tympanum Pour 2 + Seal Rings	6	07-Jul-21	13-Jul-21	-		2 + Seal Rings
	2	07-Jul-∠1	19-Jul-7 I	'	· .	
TYmpanum Mass Fill	3	44.1.6.	04.1.5		14-Sep-21 A	
Tympanum Pour 3 + Seal Rings	12	14-Jul-21	24-Jul-21	15-Sep-21 A	30-Sep-21 A	Tympanum Pour 3 + Seal Rings
D 07 (05		Nummer:				Date Revision Checked Approved
Page 27 of 35 ◆ Milestone Planned Bar	- S	Summary		004070	/ T	10 P 10 10011
Data Date: 29-Jan-22						IK ROAD 12 and initiastructure vvorks
♦ Actual Miestone Actual Work				fo	or Dev	/elopments at South Apron BOUYGUES 109-Apr-20 01V1 SPa/LL0 WYU 17 Jul 20 01V2 SPa/LL0 WYU
Actual vvoik Baseline Miestone						17-Jul-20 01V2 SPa/LL0 WYU
Baseline Bar				Three	Mont	ths Rolling Programme (Jan-22)
L						J J , , D J J J J J J J J J J J J J J J J J J

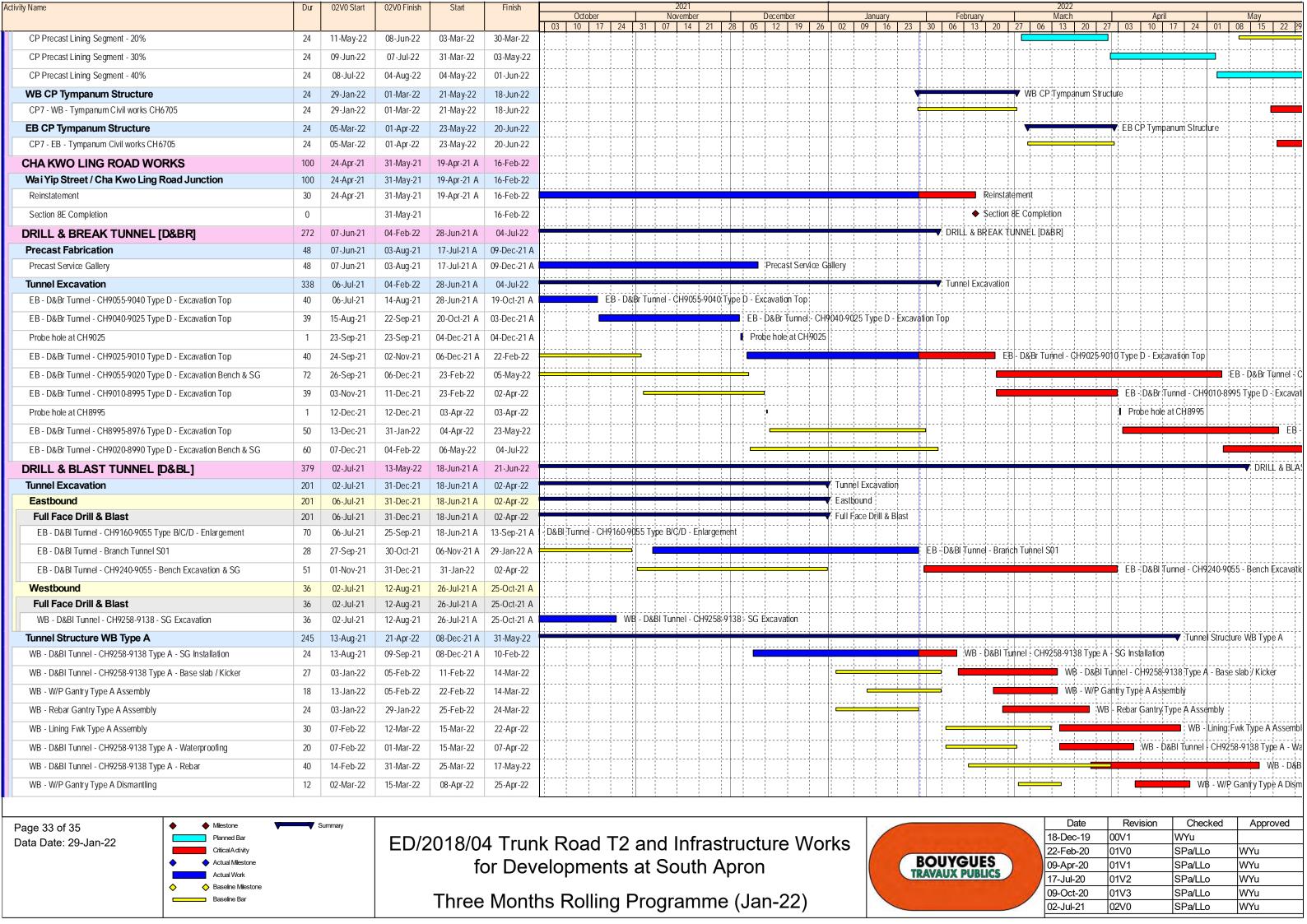


Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
Towns and CI D 40012/ Only desired	070	04.0.100	04 1 104	07.0.1.00.4	04.4.04.4	03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 2
Temporary CLP 132kV Substation Temp CLP 132kV Substation - CLP Transformer Setup & Final Fix	278 192	31-Oct-20 31-Oct-20	31-Jul-21 26-Jun-21	27-Oct-20 A	-	up & Final Fix
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	03-Aug-21 A		lion - FSD / WSD Inspection
Temp CLP 132kV Substation - Power On	0		31-Jul-21	-		lion - Power On
Precast Elements Storage Yard	94	30-Nov-20	20-Jan-21	02-Aug-21 A		
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21 A		
Precast Storage - Commissioning & Load Test	6	14-Jan-21	20-Jan-21	08-Nov-21 A		
Gantry Crane Setup for TBM Assembly	239	01-Apr-21	25-Apr-22	28-Jun-21 A	22-Jun-22	▼ Gantry Crane Setup for T
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21		24-Aug-21 A	
Gantry Crane - Commissioning & Load Test	6	20-May-21	26-May-21			∖ ng & Loạd Test
Gantry Crane - Dismantling	48	24-Feb-22	25-Apr-22	25-Apr-22	22-Jun-22	
Slurry Treatment Plant	159	04-Mar-21	10-Sep-21		30-Nov-21 A	
Slurry Treatment Plant - Civil works	36	04-Mar-21	19-Apr-21		04-Sep-21 A	
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	20-Sep-21 A	reatment Plant - Delivery & Assembly
Slurry Treatment Plant - Installation	48	20-May-21	16-Jul-21	20-May-21 A	25-Oct-21 A	Siurry Treatment Plant - Installation
Slurry Treatment Plant - Commissioning	24	17-Jul-21	13-Aug-21	11-Oct-21 A	30-Nov-21 A	Sturry Treatment Plant - Commissioning
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	15-Nov-21 A	30-Nov-21 A	Slurry Treatment Plant - CNP Application
Mortar Plant	106	18-Jan-21	02-Jun-21	15-Jul-21 A	12-Jan-22 A	
Mortar Plant - Civil works	36	18-Jan-21	04-Mar-21	15-Jul-21 A	18-Sep-21 A	Nant - Civil works
Mortar Plant - Installation	48	04-Mar-21	04-May-21	02-Aug-21 A	25-Sep-21 A	rtar Plant - Installation
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	27-Sep-21 A	12-Jan-22 A	
DG Store / Medical Lock	156	01-Dec-20	27-Oct-21	01-Dec-20 A	23-Dec-21 A	DG Store / Medical Łock
Hyperbaric Intervention - LD consultation & Approval	144	01-Dec-20	31-May-21	01-Dec-20 A	06-Sep-21 A	on - LD consultation & Approval
DG Store / Medical Lock Installation	48	02-Aug-21	27-Sep-21	07-Sep-21 A	23-Dec-21 A	
DG Store / Medical Lock - FSD Approval	24	28-Sep-21	27-Oct-21	15-Nov-21 A	29-Nov-21 A	DG Store / Medical Lock - F\$D Approval
TBMAssembly	130	01-Dec-21	01-Dec-21	30-Aug-21 A	13-Jan-22 A	▼ T:BM Assembly
Lifting S5/S6/S4/Cross Beam	3			30-Aug-21 A	01-Sep-21 A	, eam
Main Drive with displacement Cylinder	4			02-Sep-21 A	04-Sep-21 A	ement Cylinder
Lifting S3/S7/S2/S8 & S1 Installation	5			05-Sep-21 A	11-Sep-21 A	S8 & S1 Installation
Shield Bolts torquing & Interior Shiled Joint Welding	8			12-Sep-21 A	01-Oct-21 A	Shield Bolts forquing & Inferior Shiled Joint Welding
Cutterhead Installation	1				02-Oct-21 A	
Cutterhead Connection to Shield	12				12-Oct-21 A	
Shield Shifting	2				14-Oct-21 A	
1st Shifting of TBM	2				14-Oct-21 A	
	2				17-Oct-21 A	
Erector Preparation & Installation						
Final Shield Joint Welding	5				21-Oct-21 A	
Installation Welding Plate on Top S1	2				22-Oct-21 A	
Lifting & Welding of Tailskin to Shield	26			22-Oct-21 A		
Gantry Rail Wall Installation	9				17-Nov-21 A	Gantry Rail Wall Installation
Gantry 4 Assembly	3				19-Nov-21 A	
Gantry 3 Assembly	3			20-Nov-21 A	21-Nov-21 A	■ Gantry 3 Assembly
Gantry 2 Assembly	3			22-Nov-21 A	23-Nov-21 A	■ Gantry 2 Assembly
Gantry 1 Assembly	3			26-Nov-21 A	27-Nov-21 A	Gantry 1 Assembly
Page 29 of 35 ♦ Milestone ▼	s	Summary				Date Revision Checked Approve
Data Date: 29-Jan-22	• -	-	FD/2	018/n	4 Trun	ok Road T2 and Infrastructure Works
Critical A divity ◆ Actual Milestone						1//
Actual Work				10	or Dev	/elopments at South Apron BOUYGUES TRAVAUX PUBLICS 09-Apr-20 01V1 SPa/LLo WYu 17-Jul-20 01V2 SPa/LLo WYu
♦ Baseline Milestone				TL	N / a	177-04-20 01/2 01-41-5 140/4
Baseline Bar				ınree	ivionti	ths Rolling Programme (Jan-22)
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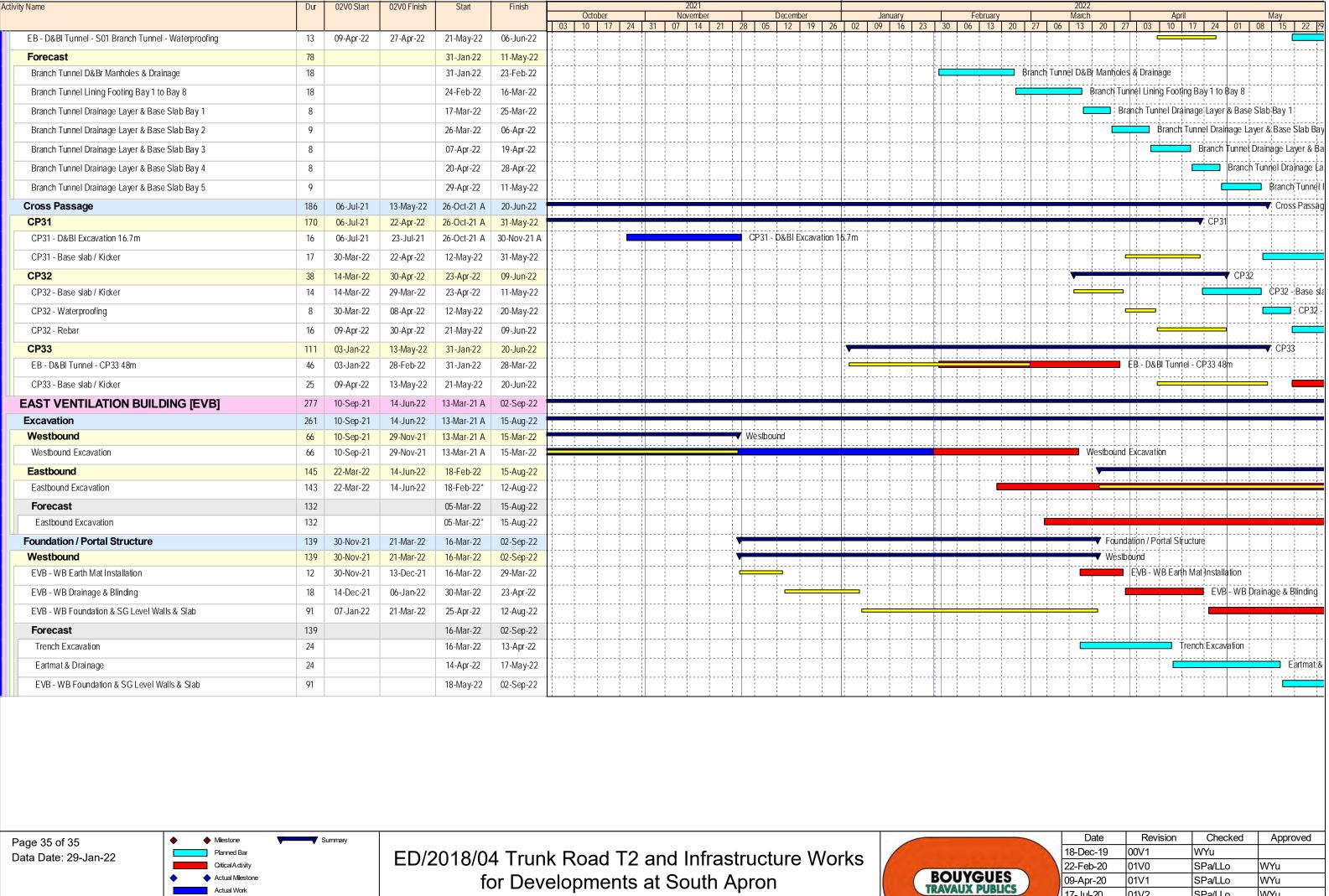


Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021 2022 October November December January February March April May
						03 10 17 24 31 07 14 21 28 05 12 19 26 02 09 16 23 30 06 13 20 27 06 13 20 27 03 10 17 24 01 08 15 22
Gallery G-W1 to W5 by crawler crane @ 1 no/d	2			11-Apr-22	12-Apr-22	
Gallery EMVD installation by crawler crane	1			13-Apr-22	13-Apr-22	
Gallery G-W6 to G-W12 installation by ISIG @ 3nos/d	2			14-Apr-22	19-Apr-22	Gallery G-W6 to G-W12 installation
Gallery B installation inside FT @ 6nos/d	1			20-Apr-22	20-Apr-22	■ Gallery B installation inside FT @
Steel Bridge Installation	1			21-Apr-22	21-Apr-22	I Steel Bridge Installation
WB Sub-sea Galery B Installation started	0			22-Apr-22		◆ WB Sub-sea Galery B Installati
WB Gallery B CH6642-6742 100m @4nos/day	13			22-Apr-22	07-May-22	WB Gallery B CF
WB Gallery B CH6742-6855 113m @6nos/day	10			10-May-22	20-May-22	wB o
SUB-SEA TBM TUNNEL - EASTBOUND	197	19-Aug-21	08-Apr-22	06-Sep-21 A	06-Jun-22	SUB-SEA TBM TUNNEL - EASTBOUND
TBMAssembly	113	19-Aug-21	19-Aug-21	06-Sep-21 A	20-Feb-22	
EB TBM 2nd Delivery	0		19-Aug-21		06-Sep-21 A	
Lifting S5/S6/S4/Cross Beam	3			15-Sep-21 A	18-Sep-21 A	A S6/S4/Cross Beam
Main Drive with displacement Cylinder	4			22-Sep-21 A	25-Sep-21 A	A In Drive with displacement Cylinder
Lifting S3/S7/S2/S8 & S1 Installation	6			27-Sep-21 A	12-Oct-21 A	Lifting S3/S7/S2/S8 & S1 Installation
Shield Bolts torquing & Interior Shiled Joint Welding	8			13-Oct-21 A	21-Oct-21 A	Shield Bolts forquing & Interior Shilled Joint Welding
Cutterhead Installation	1			26-Oct-21 A	26-Oct-21 A	A ☐ Cutterhead Installation
Cutterhead Connection to Shield	12			27-Oct-21 A	28-Oct-21 A	A Cutterhead Connection to Shield
Shield Shifting	2			29-Oct-21 A	29-Oct-21 A	A I Shield Shifting
Erector Preparation & Installation	4			30-Oct-21 A	01-Nov-21 A	A Erector Preparation & Installation
Final Shield Joint Welding	5				04-Nov-21 A	
Installation Welding Plate on Top S1	2				06-Nov-21 A	
Lifting & Welding of Tailskin to Shield	28				18-Nov-21 A	
Gantry Rail Wall Installation C&C/SUS	10				29-Nov-21 A	
Lifting & Welding of Tailskin to Shield	28				13-Dec-21 A	
	Z0 E				13-Dec-21 A	
Gantry Rail Wall Installation Cell 2	0					<u></u>
Shifting of TBM to B/I Location	2				15-Dec-21 A	
Lifting & Welding of Tailskin to Shield	28				06-Jan-22 A	
Gantry 4 Assembly	2				16-Dec-21 A	
Gantry 3 Assembly	2				17-Dec-21 A	
Gantry 2 Assembly	2				20-Dec-21 A	
Air / Water / Hydraulic Electrical Connections	10			20-Dec-21 A		
Testing & Commissioning	12			26-Dec-21 A		
Segment Feeding Installation	1				28-Dec-21 A	
Gantry 1 Assembly	3				29-Dec-21 A	
Thrust Frame Installation	10				06-Jan-22 A	
Power On	1			07-Jan-22 A	07-Jan-22 A	
S1282 EB TBM Break-in	0				20-Feb-22	
TBM Tunnelling	100	03-Jan-22	08-Apr-22	21-Feb-22	31-May-22	▼ TBM:Tunnelling
EB TBM Tunnelling CH6640-6665 B/I Plug 25m	16	03-Jan-22	18-Jan-22	21-Feb-22	08-Mar-22	EB TBM Tunnelling CH6640-6665 B/I Plug 25m
EB TBM Tunnelling CH6665-6710 ALL/CDG 70m	15	19-Jan-22	02-Feb-22	09-Mar-22	23-Mar-22	EB TBM Tunnelling CH6665-6710 ALL/CDG 70m
EB TBM Tunnelling CH6710-6756 ALL/CDG 116m	7	03-Feb-22	09-Feb-22	24-Mar-22	30-Mar-22	EB TBM Tunnelling CH67 10-6756 ALL/CDG 116m
EB TBM Tunnelling CH6756-6789 CDG/Boulder 149m	7	10-Feb-22	16-Feb-22	31-Mar-22	06-Apr-22	EB TBM Tunnelling CH67\$6-6789 CDG/Bould
Page 31 of 35 ♦ Milestone ▼		Summary				Date Revision Checked Approved
Data Date: 29-Jan-22	•	,	ED/2	n18/n	1 Trun	nk Road T2 and Infrastructure Works
CriticalA divity						1/2-Feb-20 101V0 15P8/110 1VYU
Actual Work				10	or Dev	velopments at South Apron BOUYGUES 109-Apr-20 01V1 SPa/LLo WYu 17-Jul-20 01V2 SPa/LLo WYu
♦ Baseline Milestone Baseline Bar				Thras	Mast	00.0 4.00 00.00 00.00
Dascill re Dal				111166	IVIONU	ths Rolling Programme (Jan-22)
Baseline Bar				Three	Mont	

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	2021	December	lanuaru	Fohrung	2022 March	April	May
						October November 03 10 17 24 31 07 14 21	December 28 05 12 19 26	January 02 09 16	February	13 20 27	03 10 17 24 01	May 08 15 22 29
EB TBM Tunnelling CH6789-7098 ALL/CDG 458m	38	17-Feb-22	26-Mar-22	07-Apr-22	14-May-22					JJ		EB TBM Tuni
EB TBM Tunnelling CH7098-7198 ALL/CDG 558m	11	27-Mar-22	06-Apr-22	19-May-22	29-May-22							
EB TBM Tunnelling CH7198-7218 ALL/CDG 578m	2	07-Apr-22	08-Apr-22	30-May-22	31-May-22							•
Gallery B Installation	127	10-Feb-22	04-Apr-22	28-Jan-22 A	06-Jun-22				▼	1 1 1	Gallery B Installation	
EB Sub-sea Galery B Installation started	0	10-Feb-22		07-Apr-22					♦	1 1 1	◆ EB Sub-sea Galery B Inst	allation started
ISIG Assembly at Cell 2	12	10-Feb-22	23-Feb-22	07-Apr-22	23-Apr-22						ISIG Assen	nbly at Cell 2
EB TBM Tunnel - Gallery B CH6642-6705 63m CP7	8	24-Feb-22	04-Mar-22	25-Apr-22	04-May-22					<u> </u>		B TBM Tunnel - Gall
EB TBM Tunnel - Gallery B CH6705-6803 100m CP8	10	05-Mar-22	16-Mar-22	05-May-22	17-May-22						-	EB TBM T
EB TBM Tunnel - Gallery B CH6803-6904 100m CP9	9	17-Mar-22	26-Mar-22	18-May-22	27-May-22							E E
EB TBM Tunnel - Gallery B CH6904-7004 100m CP10	7	28-Mar-22	04-Apr-22	28-May-22	06-Jun-22							
Forecast	147			28-Jan-22 A	22-May-22							
Spreader Beam, Hook, Hook Block etc(from Italy by sea)	56			28-Jan-22 A	01-Mar-22				Spread	er Beam, Hook, Ho	ook Block etc. (from Italy by sea)	
Front Ramp (from China by road)	9			11-Feb-22*	19-Feb-22				Front Ramp (fron	China by road)		
Mild and Rear Ramp + Loader (from China by road)	9			14-Feb-22*	22-Feb-22				Mild and Rea	Ramp + Loader (f	rom China by road)	
Ramp pre-assembly at surface	10			27-Mar-22	05-Apr-22						Ramp pre-assembly at surfa	ice
Shifting way curve shape extension & Footing	6			05-Apr-22	10-Apr-22						Shifting way curve shap	be extension & Footin
Loader pre-asembly	5			06-Apr-22	10-Apr-22						Loader pre-asembly	
Construction of Notch/Mass Fill to C&C Road Level	6			11-Apr-22	16-Apr-22			}			Construction of N	otch/Mass Fill to C&C
Lower ISIG into Shaft	2			11-Apr-22	12-Apr-22						Lower I\$1G into Shaf	
Thrust Frame Removal (TBC)	6			11-Apr-22	16-Apr-22					· · · · · · · · · · · · · · · · · · ·	Thrust Frame Re	moval (TBC)
Install and Assembly of Spreader beam etc	6			13-Apr-22	18-Apr-22						Install and Asse	mbly of Spreader bea
ISIG Commissioning	6			19-Apr-22	24-Apr-22						ISIG Comi	missioning
EB ISIG Gallery B Installation start	0			25-Apr-22	'			}				Gallery B Installation s
Gallery G-E1 to E5 by crawler crane @ 1 no/d	2			25-Apr-22	26-Apr-22						LJJJJJ	G-E1 to E5 by crawler
Gallery EMVD installation by crawler	1			27-Apr-22	27-Apr-22			ļļ				EMVD installation by
Gallery G-E6 to G-E12 installation by ISIG @ 3nos/d	3			28-Apr-22	30-Apr-22							ery G-E6 to G-E12 ins
Gallery B installation inside FT @ 6nos/d	2			01-May-22	03-May-22			ļ			<u> </u>	allery B installation in:
	1			04-May-22	03-May-22			}		<u> </u>		Steel Bridge Installatic
Steel Bridge Installation	11			·	,							
EB Gallery B CH6642-6742 100m @4nos/day	11			05-May-22	15-May-22			ļ ļ ļ				EB Gallery E
EB Gallery B CH6742-6855 113m @6nos/day	/			16-May-22	22-May-22							EB G
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	144	31-Jul-21	04-Aug-22	10-May-21 A	20-Jun-22						NA Docion / Echricotion / EAT / Dol	
CP TBM Design / Fabrication / FAT / Delivery Fabrication / Refurbishment	144	31-Jul-21 31-Jul-21	22-Mar-22 21-Jan-22	10-May-21 A 10-May-21 A	31-Mar-22 31-Jan-22				Fabrication / Refurbishment		M Design / Fabrication / FAT / Def	tery
FAT	24		22-Feb-22	_	03-Mar-22				- Lancation / Republication /			
	24	22-Jan-22		04-Feb-22					FAT		Delivery of TBM components to	tha Sith
Delivery of TBM components to the Site CP Precast Lining Fabrication	120	23-Feb-22	22-Mar-22	04-Mar-22	31-Mar-22 01-Jun-22			<u> </u>		1 1 1	Delivery of Tolvi components to	นเซ
CP Precast Lining Fabrication Concrete Mix - Plant Trial	120	26-Nov-21 26-Nov-21	04-Aug-22 14-Jan-22	26-Oct-21 A	29-Nov-21 A	- <u> </u> <mark>-</mark>		: Co	ncrete Mix - Plant Trial			
CP Precast Lining Segment - Mould Fabrication & Setup	24	15-Jan-22	15-Feb-22	30-Nov-21 A				1 1 1	CP Precast Lining S	egment - Mould Fa	brication & Setup	
CP Precast Lining Segment - Mound Path Cation & Setup CP Precast Lining Segment - Master Ring Erection & Inspection	4	16-Feb-22	22-Feb-22		16-Dec-21 A					1.5	aster Ring Erection & Inspection	
	10								- G I Teçast.	1	Lining Segment - 3%	
CP Precest Lining Segment - 3%	18	23-Feb-22	15-Mar-22		15-Jan-22 A				<u> </u>	- OF FIEGASI I	CP Precast Lining Segment	ht 60/
CP Proceet Lining Segment - 6%	18	16-Mar-22	06-Apr-22	17-Jan-22 A	29-Jan-22 A			ļ			CP Precast Lining Segmen	
CP Precast Lining Segment - 10%	24	07-Apr-22	10-May-22	31-Jan-22	02-Mar-22			<u> </u>				— CP Precast Linin
Page 32 of 35		Summon						I		Date	Revision Checked	Approved
Page 32 of 35 Data Date: 29-Jan-22	s	Summary	ED/2	0010/0	1 Trus			00V1 WYu	. ipplotou			
CriticalActivity						k Road T2 and Infras		V2			01V0 SPa/LLo	WYu
Actual Milestone Actual Work				fo	or Dev	elopments at South <i>F</i>	Apron				01V1 SPa/LLo 01V2 SPa/LLo	WYu WYu
♦ Baseline Miestone				T .	R.A. (1	D. III.	- (- 00 \				01V3 SPa/LLo	WYu
Baseline Bar			Three Months Rolling Programme (Jan-22)								WYu	
			ı					<u> </u>				



Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish	October	2021 November	December	lar	2022 January February March April May							
						03 10 17 24 31 07			1,	16 23 30 06 13 20 27	06 13 20 27 03 10 17 24 01 08 15 22						
WB - D&BI Tunnel - CH9258-9138 Type A - Lining Structure	30	14-Mar-22	21-Apr-22	23-Apr-22	30-May-22												
WB - OHVD Slab Fwk Type A Assembly	30	14-Mar-22	21-Apr-22	23-Apr-22	30-May-22												
WB - Rebar Gantry Type A Dismantling	12	01-Apr-22	19-Apr-22	18-May-22	31-May-22												
Forecast	185			21-Jan-22 A	15-Mar-22												
WB - Rock Plug Excavation	36			21-Jan-22 A	21-Feb-22						k Plug Excavation						
WB Access available	0			22-Feb-22						◆ WB Acces							
WB - CP side Lining Footing	9			22-Feb-22	03-Mar-22						VB - CP side Lining Footing						
WB - CP side Drainage Layer & Pavement Slabs	10			04-Mar-22	15-Mar-22						WB - CP side Drainage Layer & Pavement Slabs						
Tunnel Structure EB Type A	222	06-Dec-21	06-Apr-22	05-Jan-22 A	02-Jun-22			V			▼ Tunnel Structure EB Type A						
EB - D&Bl Tunnel - CH9240-9170 Type A - SG Installation	24	06-Dec-21	05-Jan-22	11-Feb-22	10-Mar-22						EB - D&Bl Tunne - CH9240-9170 Typę A - SG Installation						
EB - D&Bl Tunnel - CH9170-9110 Type A - SG Installation	24	06-Jan-22	05-Feb-22	11-Mar-22	08-Apr-22						EB - D&Bl Tunnel - CH9170-9110 Type A -						
EB - D&Bl Tunnel - CH9240-9139 Type A - Base slab / Kicker	30	07-Feb-22	12-Mar-22	15-Mar-22	22-Apr-22						EB - D&BI Tunnel - CH9240-91						
EB - W/P Gantry Type A Assembly	18	16-Mar-22	06-Apr-22	13-May-22	02-Jun-22												
Forecast	218			05-Jan-22 A	08-Apr-22												
Blast Door	218			05-Jan-22 A	31-Mar-22												
East Bound New Blast Door Installation	12			05-Jan-22 A	15-Feb-22						v Blast Door Installation						
East Bound New Blast Door CNP Application	16			16-Feb-22	05-Mar-22						East Bound New Blast Door CNP Application						
Removal of old Blast Door	22			07-Mar-22	31-Mar-22						Removal of old Blast Door						
Earth Mat	214			24-Jan-22 A	01-Mar-22												
EB - Earth Mat drilling	12			24-Jan-22 A	19-Feb-22					EB - Earth N	/lat drilling						
EB - Earth Mat Installation & Testing	8			21-Feb-22	01-Mar-22					EB	B - Earth Mat Installation & Testing						
Vertical Blinding	20			02-Mar-22	24-Mar-22												
EB - Type A vertical blinding Bay 1 Ch9140-9155	5			02-Mar-22	07-Mar-22						BB - Type A vertical blinding Bay 1 Ch9140-9155						
EB - Type A vertical blinding Bay 2 Ch9155-9170	3			08-Mar-22	10-Mar-22						EB - Type A vertical blinding Bay 2 Ch9155-9170						
EB - Type A vertical blinding Bay 3 Ch9170-9185	3			11-Mar-22	14-Mar-22						EB - Type A vertical blinding Bay 3 Ch9170-9185						
EB - Type A vertical blinding Bay 4 Ch9185-9200	3			15-Mar-22	17-Mar-22						EB - Type A vertical blinding Bay 4 Ch 9185-9200						
EB - Type A vertical blinding Bay 5 Ch9200-9215	3			18-Mar-22	21-Mar-22						EB - Type A vertical blinding Bay 5 Ch9200-9215						
EB - Type A vertical blinding Bay 6 Ch9215-9233	3			22-Mar-22	24-Mar-22						EB - Type A vertical blinding Bay 6 Ch9215-9233						
SG Installation	27			08-Mar-22	08-Apr-22												
EB - Type A SG Installation Bay 1 Ch9140-9155	4			08-Mar-22	11-Mar-22						EB - Type A SG Installation Bay 1 Ch9140-9155						
EB - Type A SG Installation Bay 2 Ch9155-9170	4			12-Mar-22	16-Mar-22						EB - Type A \$G Installation Bay 2 Ch9155-9170						
EB - Type A SG Installation Bay 3 Ch9170-9185	4			17-Mar-22	21-Mar-22						EB - Type A SG Installation Bay 3 Ch9170-9185						
EB - Type A SG Installation Bay 4 Ch9185-9200	4			22-Mar-22	25-Mar-22						EB - Type A SG Installation Bay 4 Ch 9185-9200						
EB - Type A SG Installation Bay 5 Ch9200-9215	4			26-Mar-22	30-Mar-22	 					EB - Type A \$G Installation Bay 5 Ch9200-9215						
EB - Type A SG Installation Bay 6 Ch9215-9233	7			31-Mar-22	08-Apr-22						EB - Type A SG Installation Bay 6 Ch9215-						
Tunnel Structure EB Type C	57	07-Feb-22	14-Apr-22	09-Apr-22	21-Jun-22						▼ Tunnel Structure EB Type C						
EB - D&Bl Tunnel - CH9110-9055 Type C - SG Installation	24	07-Feb-22	05-Mar-22	09-Apr-22	12-May-22						EB - D&BIT						
EB - D&Bl Tunnel - CH9139-9088 Type C - Base slab / Kicker	33	07-Mar-22	14-Apr-22	13-May-22	21-Jun-22												
EB - W/P Gantry Type C Assembly	30	07-Mar-22	11-Apr-22	13-May-22	17-Jun-22												
Tunnel Structure S01 Branch Tunnel	106	14-Mar-22	06-May-22	31-Jan-22	17-Jun-22						Tunnel Structure						
EB - D&BI Tunnel - S01 Branch Tunnel - Base Slab & Kicker	22	14-Mar-22	08-Apr-22	23-Apr-22	20-May-22						▼ rumproutpute.						
EB - W/P Gantry S01 Branch Tunnel Assembly	18	14-Mar-22	02-Apr-22	23-Apr-22	16-May-22				-		EB-WF						
EB - Rebar Gantry S01 Branch Tunnel Assembly	24	04-Apr-22	06-May-22	17-May-22	14-Jun-22												
LD - Nebal Galilly So I Didlich Fulliet Assettibly	Z4	υ 4 -Αμι-22	UU-IVIAY-ZZ	11-IVIay-22	14-Juil-22												
Page 34 of 35 ♦ Milestone	S	Summary									Date Revision Checked Approved						
Data Date: 29-Jan-22			FD/2	018/04	4 Trun	k Road T2 and	Infrast	ructure Wo	rks		18-Dec-19 00V1 WYu						
CriticalA divity ♦ Actual Milestone			,						BOUYGUES 09-Apr-20 01V1 SPa/LL0 WYu								
Actual Work				10	ט וע	elopments at S	oulli A	ρισπ	TRAVAUX PUBLICS 17-Jul-20 01V2 SPa/LLo WYu								
♦ Baseline Milestone Baseline Bar				Three	Monti	ns Rolling Prog	ramma	(lan_22)			09-Oct-20 01V3 SPa/LLo WYu						
				111166	IVIUITU	is rolling Flog	amme	(Jaii-22)			02-Jul-21 02V0 SPa/LLo WYu						



Three Months Rolling Programme (Jan-22)

| BOUYGUES | 10-Dec-19 | 00V1 | W1U | 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 | 02-Jul-21 | 02

APPENDIX O WASTE GENERATED IN THE REPORTING MONTH



Name of Department: CEDD

Monthly Summary Waste Flow Table for 2022 (KT)

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	f C&D Waste	s Generated I	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	9.643	0.000	0.000	9.628	0.015	0.000	173.190	0.200	0.000	11.000	0.040
February											
March											
April											
May											
June											
Sub-total	9.643	0.000	0.000	9.628	0.015	0.000	173.190	0.200	0.000	11.000	0.040
July											
August											
September											
October											
November											
December											
Total	9.643	0.000	0.000	9.628	0.015	0.000	173.190	0.200	0.000	11.000	0.040

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).