Civil Engineering and Development Department

Trunk Road T2

Monthly Environmental Monitoring and Audit Report

(under EP-451/2013)

July 2021

(Version 1.0)

Approved By

(Environmental Team Leader:
Mr. KS Lee)

REMARKS:

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

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

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

RAMBOLL

Ref.: CEDKTDT2EM00_0_0235L.21

13 August 2021

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

By Post and Email

Attention: Mr. Edwin Ching

Dear Mr. Ching,

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

Monthly EM&A Report (July 2021) for EP-451/2013

Reference is made to the Environmental Team's submission of the Monthly EM&A Report for July 2021 (Version 1.0) certified by the ET Leader and provided to us via email on 13 August 2021.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 3.4 of EP-451/2013.

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

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

Y H Hui
Independent Environmental Checker

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

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Ramboll Hong Kong Limited 英環香港有限公司
21/F, BEA Harbour View Centre, 56 Gloucester Road, Wan Chai, Hong Kong Tel: 852.3465 2888 Fax: 852.3465 2899
www.ramboll.com

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EXECUTIVE SUMMARY

Introduction

1. This is the 17th 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 July 2021.

Summary of Main Works Undertaken and Key Measures Implemented

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

Kai Tak:

- Depressed Road – Capping Beam
- Depressed Road – Excavation
- Depressed Road – Strut Installation
- Depressed Road- Base Slab
- Depressed Road – Drainage Installation
- Depressed Road – DCS Pipes Installation
- SUS Bulkhead Removal
- SUS Remedial Works
- West Ventilation Building – Sheet Pile
- West Ventilation Building – King Post Installation
- West Ventilation Building – Wells Installation
- Launching Shaft – VSL Gantry Crane Setup
- Launching Shaft – Excavation
- Launching Shaft- Cell1/2 Base Slab
- Westbound TBM delivery
- C&C Bulk Excavation
- Road S20 / AMAWBC – Road & Drain
- Section 6A Junction & Entrance Sheet Pile
- Road L10 (North) Excavation and ELS
- Road L18 – Sheet Pile
- District Cooling System (DCS) Section 6B
- Foot Bridge (FT-02) H Pile Installation
- Hoi Bun Road Junction Improvement
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Amenities Assembly
- Segment Yard Civil Works
- STP Trenches
- STP Civil Works
- STP Tanks Erection
- STP 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.
- Wrapping up the breaker with acoustic insulation sheets.

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 (July 2021) 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

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

Reporting Changes

5. No reporting change in this reporting month.

Future Key Issues

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

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

Site Activities (August 2021)	Key Environmental Issues
1. Depressed Road- Road Slab 2. Westbound TBM Assembly 3. Eastbound TBM Delivery and Assembly 4. C&C Permanent Base Slab 5. Road L10- RC Structure 6. Mortar Plant - Aggregates Wall Construction 7. Foot Bridge (FT-02) - Temp Ramp Construction 8. Segment Yard Gantry Crane Erection 9. Workshop Assembly	(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 between February and March 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 2c	ET has reviewed the status and location of KTD 2c. To conclude, the location of the present station cannot accurately represent how the sensitive receivers (SR) are being affected by the construction activities, as the construction of such SR is still in progress.	The relocation of KTD 2c to the nearest NSR/ASR is proposed until the SR is built. The proposal has been submitted to EPD in March 2021 and approved on 3 May 2021. The relocation of monitoring station KTD2c to KTD2d was completed on 24 May 2021.
KER1	ET has reviewed the status and location of KER1, KTD 1, CKL1 and CKL2. To conclude, the environmental monitoring conducted at KER1, KTD 1, CKL 1 and CKL 2 are appropriate, and the monitoring results reflect how the sensitive receiver(s) is/are impacted by the construction activities of the Project.	N/A
KTD 1		
CKL 1		
CKL 2		

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	*Trunk Road T2* • 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 17th Monthly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period in July 2021.

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	Mr. Joe Nam	5183 0830
Cinotech	Environmental Team	Mr. KS Lee (ETL)	2151 2091
		Ms. Karina Chan	2157 3880

Party	Role	Contact Person	Phone No.
Ramboll	Independent Environmental Checker	Mr. YH Hui	3465 2850
BTP	Contractor	Ms. Ality Chan (From 16 July 2021)	5185 4462
		Mr. Bryan Lee (Until 15 July 2021)	5588 3891

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:

- Depressed Road – Capping Beam
- Depressed Road – Excavation
- Depressed Road – Strut Installation
- Depressed Road- Base Slab
- Depressed Road – Drainage Installation
- Depressed Road – DCS Pipes Installation
- SUS Bulkhead Removal
- SUS Remedial Works
- West Ventilation Building – Sheet Pile
- West Ventilation Building – King Post Installation
- West Ventilation Building – Wells Installation
- Launching Shaft – VSL Gantry Crane Setup
- Launching Shaft – Excavation
- Launching Shaft- Cell1/2 Base Slab
- Westbound TBM delivery
- C&C Bulk Excavation
- Road S20 / AMAWBC – Road & Drain
- Section 6A Junction & Entrance Sheet Pile
- Road L10 (North) Excavation and ELS
- Road L18 – Sheet Pile
- District Cooling System (DCS) Section 6B
- Foot Bridge (FT-02) H Pile Installation
- Hoi Bun Road Junction Improvement
- Mortar Plant Civil Works
- Mortal Plant Assembly
- Amenities Assembly
- Segment Yard Civil Works
- STP Trenches
- STP Civil Works
- STP Tanks Erection
- STP 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 July 2021.

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

Permit / License No.	Valid Period		Status
	From	To	
Environmental Permit (EP)			
EP-451/2013	19 Sep 2013	N/A	Valid
Notification pursuant to Air Pollution (Construction Dust) Regulation			
Ref. No.: 451120	20 Nov 2019	N/A	Valid
Billing Account for Construction Waste Disposal			
A/C No.: 7036016	09 Dec 2019	N/A	Valid
Billing Account for Vessel Disposal			
A/C No.:7037747 (Application No.: CEDD01100)	21 Apr 2021	22 Jul 2021	Expired on 22 July 2021
A/C No.:7037747 (Application No.: CEDD01108)	29 Jun 2021	25 Oct 2021	Valid
Construction Noise Permit			
CNP No.(For Junction of Hoi Bun Road, Wang Chiu Road and Cheung Yip Street): GW-RE0168-21	28 Feb 2021	22 Aug 2021	Valid
CNP No. (For Portion Depressed Road): PP-RE0004-21	5 Feb 2021	3 Aug 2021	Valid
CNP No. (For Launching Shaft and Barging Point): GW-RE0342-21	28 Apr 2021	27 Oct 2021	Valid

Permit / License No.	Valid Period		Status
	From	To	
CNP No. (For Site Office and Support Area): GW-RE0534-21	16 Jun 2021	14 Dec 2021	Valid
CNP No. (For Launching Shaft): GW-RE0602-21	1 Jul 2021	30 Nov 2021	Valid
Wastewater Discharge License			
WT00036183-2020 (For Depressed Road Area)	28 Jul 2020	31 Jul 2025	Valid
WT00036228-2020 (For Launching Shaft)	28 Jul 2020	31 Jul 2025	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 re-calibrated 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 m^3/min. and 1.7 m^3/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 0.3μm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (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, sheet piling, crushing of material); • Vehicle movement in the site; • 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.
KER 1 – Future Residential Development at Kerry Godown	
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); and, • Vehicle movement in the site;
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 (July 2021), µg/m^3
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD3	126	38.8
KTD 2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A(1)	N/A(1)	119.2
KER 1 – Future Residential Development at Kerry Godown	KTD6	169	161.8
CKL1 - Flat 121 Cha Kwo Ling Village	N/A(1)	N/A(1)	121.4
CKL2 - Flat 103 Cha Kwo Ling Village	N/A(1)	N/A(1)	62.1

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

2.20 In the reporting month the 24-hour TSP concentration at KER1 and KTD1were lower than the prediction in the EIA Report, AEIAR-174/2013 (as approved in 2013). No Action and Limit level exceedance for 24-hour TSP was recorded in the reporting period.

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**.

Table 3.2 Frequency and Parameters of Noise Monitoring

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

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
Integrating Sound Level Meter	SVAN 957 (Serial no. 23851)	1
	BSWA 308 (Serial no. 580156, 570188)	2
Calibrator	ST-120 (Serial no. 181001608, 181001636)	2

Monitoring Methodology and QA/QC Procedure

3.6 The monitoring procedures are as follows:

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

measurement would be required after re-calibration or repair of the equipment.

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

Maintenance and Calibration

3.7 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); and, • Vehicle movement in the site
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	75
KTD2d	64	
KER1	65	
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 (July 2021), Leq (30min) dB(A)
KTD 1 - Centre of Excellence in Paediatrics (Children's Hospital)	KTD1	74	72.8
KTD2d – Next to the SOR Office of Trunk Road T2 in Kai Tak Area	N/A(1)	N/A(1)	74.7
KER 1 – Future Residential Development at Kerry Godown	KER1	75	74.4
CKL1 - Flat 121 Cha Kwo Ling Village	CKL4	71	73.9
CKL2 - Flat 103 Cha Kwo Ling Village	CKL5	69	75.6

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 KER1 and KTD1 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 08, 15, 23 and 29 July 2021 in the reporting month. Site inspection of the IEC was conducted on 15 July 2021. 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	29 July 2021	Contractor is reminded to control the loading of barges to prevent splashing of material into surrounding water body.	To be followed up in the next reporting period.
Ecology	N/A	There was no observation in the reporting period.	N/A
Landscape and Visual	N/A	There was no observation in the reporting period.	N/A
Waste / Chemical Management	N/A	There was no observation in the reporting period.	N/A
Permits /Licences	N/A	There was no observation in the reporting period.	N/A

Implementation Status of Event and Action Plans

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 (June 2021)	14 July 2021

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- Road Slab
- Westbound TBM Assembly
- Eastbound TBM Delivery and Assembly
- C&C Permanent Base Slab
- Road L10- RC Structure
- Mortar Plant - Aggregates Wall Construction
- Foot Bridge (FT-02) - Temp Ramp Construction
- Segment Yard Gantry Crane Erection
- Workshop Assembly

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 17th 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.

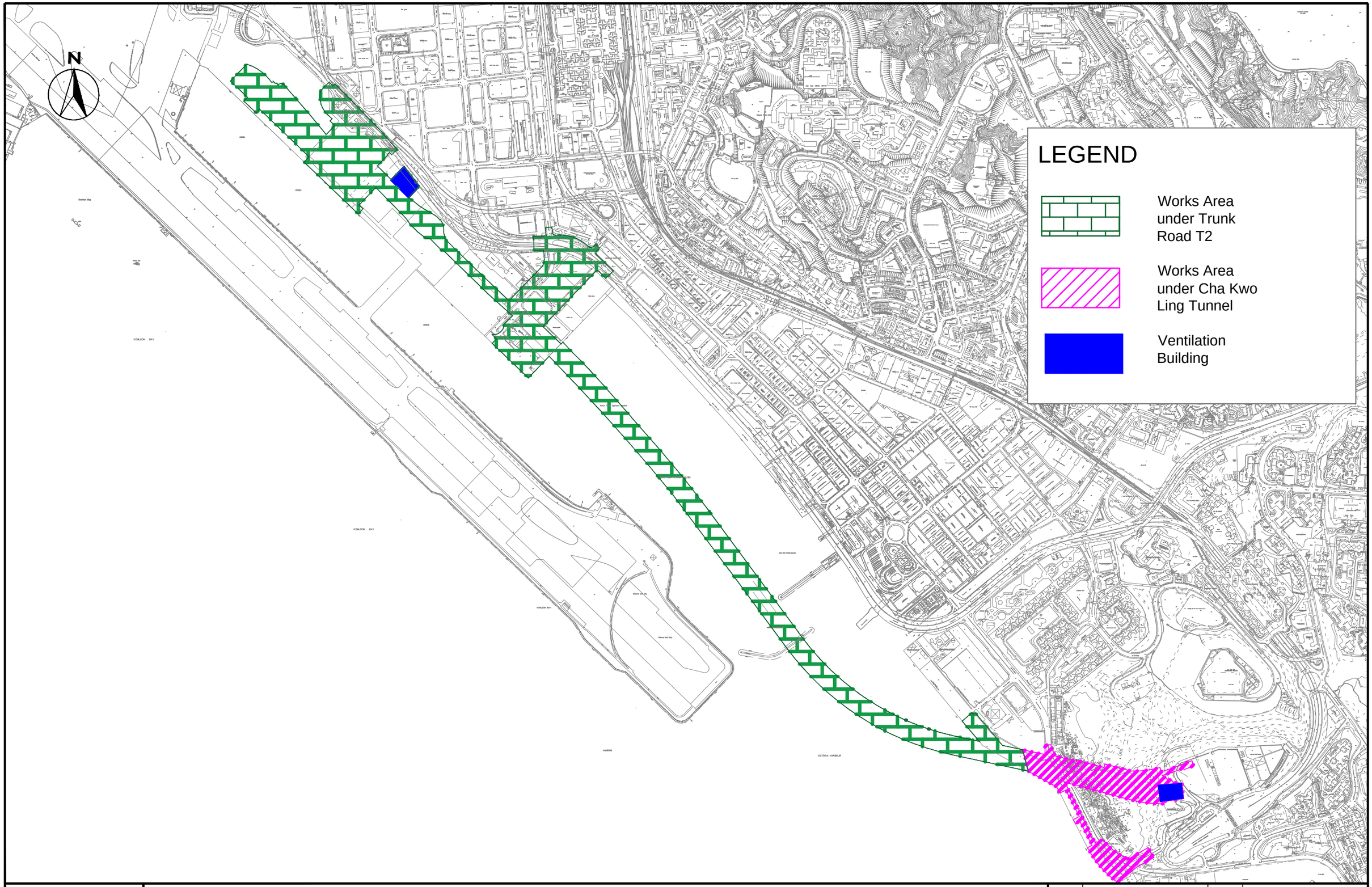
Recommendations

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

Water Quality

- Loading of barges and hoppers should be controlled to prevent splashing of material into the surrounding water.

FIGURES

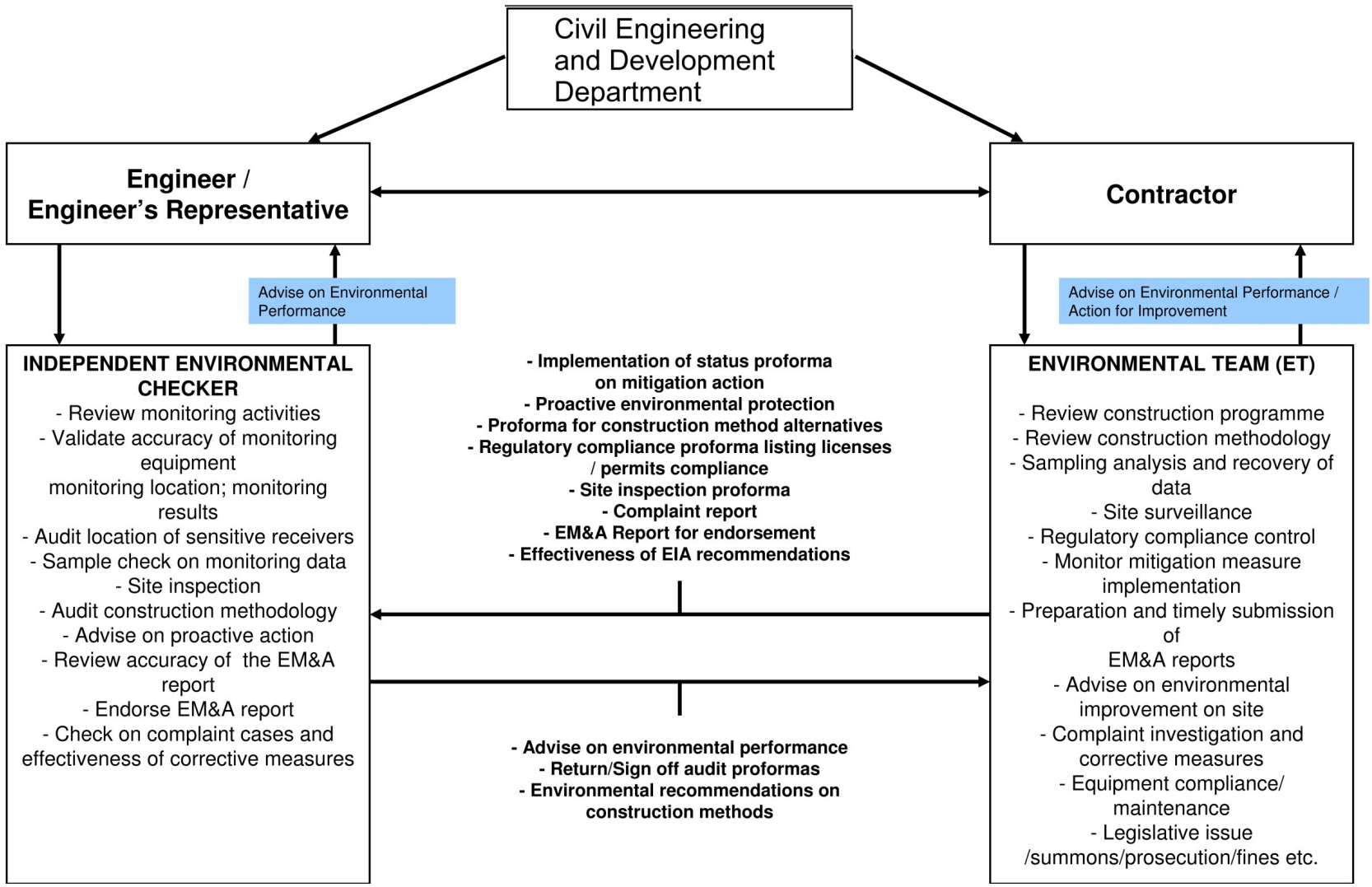


CINOTECH
Cinotech Consultants Limited

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

Site Layout Plan

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



Rev.	Description	Date

Drawing title

PROJECT ORGANISATION AND LINES OF COMMUNICATION

Original Size A3

Scale N.T.S

Date 18/JAN/2013

File name

Drawing No. FIGURE 1.2

Rev. –

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

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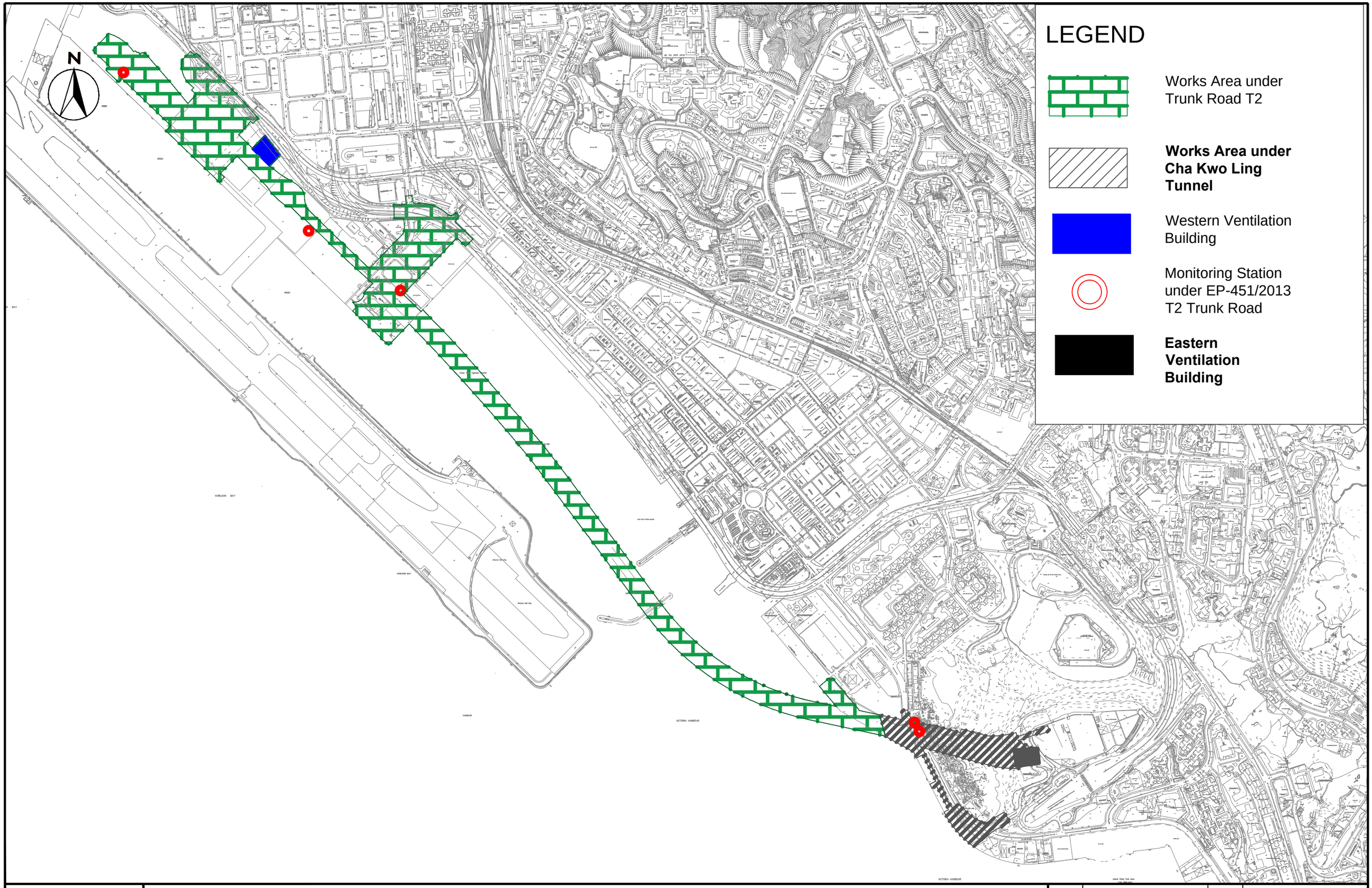

CINOTECH
Cinotech Consultants Limited

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

Monitoring Station of the Project

SCALE	1:10000@A3	DATE	June 21
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No. Fig 2	REV -

N

KTD2d

Western
Ventilation
Building

KTD1

KER1

LEGEND

- Works Area under Trunk Road T2
- Western Ventilation Building
- Impact Monitoring Station under EP-451/2013 Trunk Road T2

CINOTECH
Cinotech Consultants Limited

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

Monitoring Station at South Apron of Former Kai Tak Airport

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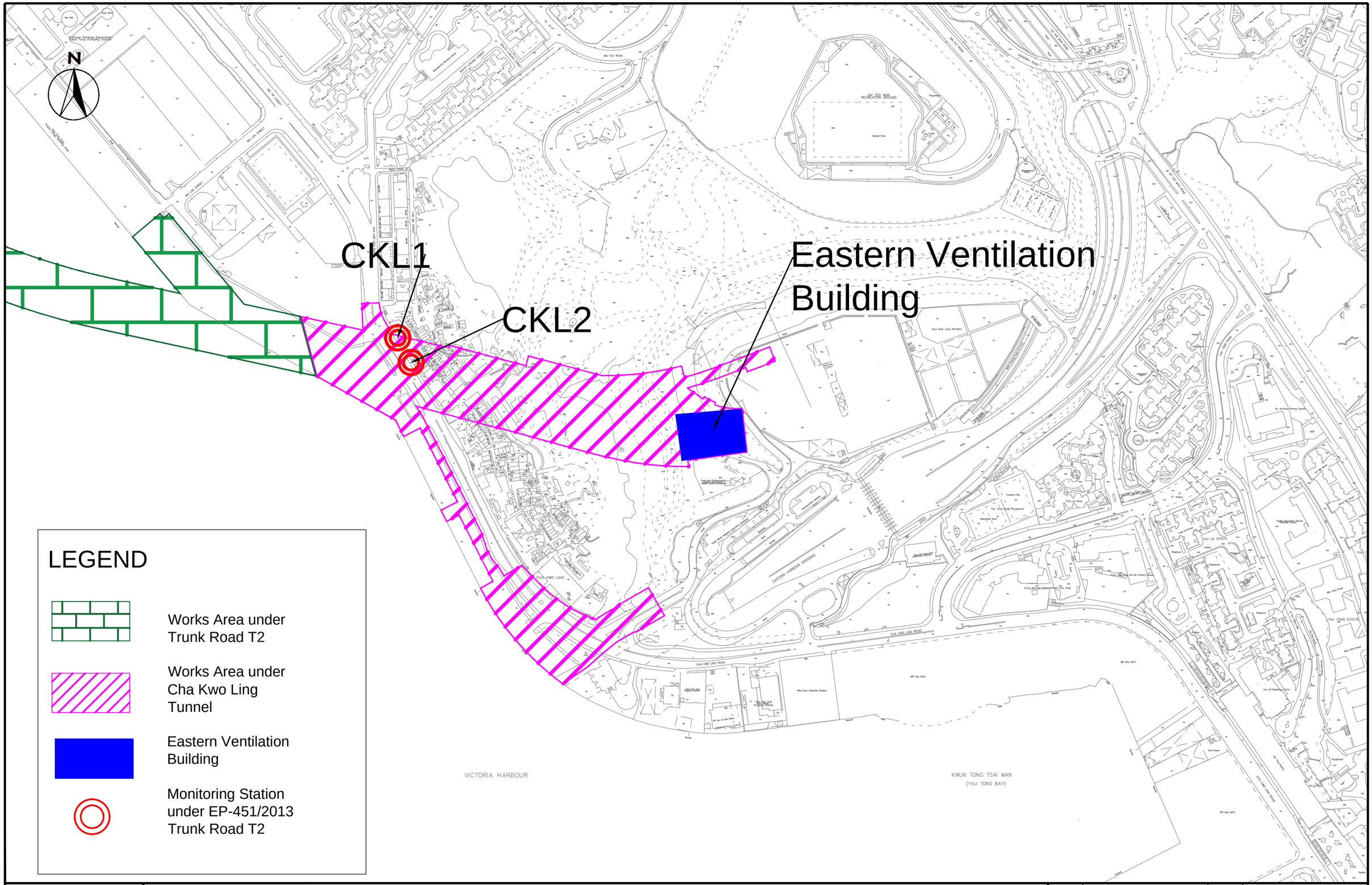
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2a
		REV	-



LEGEND

- Works Area under Trunk Road T2
- Works Area under Cha Kwo Ling Tunnel
- Eastern Ventilation Building
- Monitoring Station under EP-451/2013 Trunk Road T2

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

Monitoring Station at Cha Kwo Ling

SCALE	1:4000@A3	DATE	March 20
CHECK	KC	DRAWN	TL
JOB No.	MA20003	FIGURE No.	Fig 2b
		REV	-

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	500
KTD2d	279	
KER1	295	
CKL1	323	
CKL2	327	

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

Location	Action Level, µg/m^3	Limit Level, µg/m^3
KTD1	177	260
KTD2d	157	
KER1	172	
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 (July 2021)

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

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

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
CKL2 - Flat 103 Cha Kwo Ling Village

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Impact Air and Noise Monitoring Schedule (August 2021)

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

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

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
CKL2 - Flat 103 Cha Kwo Ling Village

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (September 2021)

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

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

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
CKL2 - Flat 103 Cha Kwo Ling Village

Contract No. ED/2018/04
Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron
Tentative Impact Air and Noise Monitoring Schedule (October 2021)

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

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

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
CKL2 - Flat 103 Cha Kwo Ling Village

APPENDIX C
COPIES OF CALIBRATION CERTIFICATES FOR AIR QUALITY MONITORING

Certificate of Calibration - Wind Monitoring Station

Description:	Yau Lai Estate, Bik Lai House
Manufacturer:	Davis Instruments
Model No.:	Davis7440
Serial No.:	MC01010A44
Equipment No.:	SA-03-04
Date of Calibration	20-Feb-2021
Next Due Date	20-Aug-2021

1. Performance check of Wind Speed

Wind Speed, m/s		Difference D (m/s)
Wind Speed Reading (V1)	Anemometer Value (V2)	D = V1 – V2
0.0	0.0	0.0
1.5	1.6	-0.1
2.5	2.5	0.0
3.5	3.4	0.1

2. Performance check of Wind Direction

Wind Direction (^{o})		Difference D (^{o})
Wind Direction Reading (W1)	Marine Compass Value (W2)	D = W1 - W2
0	0	0.0
90	90	0.0
180	180	0.0
270	270	0.0

Test Specification:

1. Performance Wind Speed Test - The wind meter was on-site calibrated against the anemometer

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

Calibrated by: _____ Wong Shing Kwai

Approved by: _____ Henry Leung

TISCH Environmental

RECALIBRATION DUE DATE:
January 11, 2022

Certificate of Calibration

Calibration Certification Information				
Cal. Date:	January 11, 2021	**Rootsmeter S/N:** 438320	**Ta:** 297	°K
Operator:	Jim Tisch		**Pa:** 750.1	mm Hg
Calibration Model #:	TE-5025A	**Calibrator S/N:** **3864**		

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

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
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
QSTD	**m=**	**2.06566**	**QA**	**m=**	**1.29348**
	b=	**0.00315**		**b=**	**0.00199**
	r=	**0.99996**		**r=**	**0.99996**

Calculations

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

For subsequent flow rate calculations:

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

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

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

RECALIBRATION

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

isch Environmental, Inc.
45 South Miami Avenue
illage of Cleves, OH 45002

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

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0007

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Date: 26-Jul-21 Next Due Date: 26-Sep-21 Operator: SK

Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	302	Pressure, Pa (mmHg)	751

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.7	3.65	62.57	8.8	2.93
2	11.5	3.35	57.33	7.0	2.61
3	8.2	2.83	48.42	5.5	2.32
4	5.8	2.38	40.73	4.1	2.00
5	2.9	1.68	28.82	2.3	1.50

By Linear Regression of Y on X

Slope , mw = **0.0412** **Intercept, bw =** **0.3131**

Correlation coefficient* = **0.9978**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.45**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 26-Jul-21

Checked by: Henry Leung Signature: Date: 26-Jul-21

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/0009

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

Date: 6-Jul-21 Next Due Date: 6-Sep-21 Operator: SK

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

Ambient Condition			
Temperature, Ta (K)	302.4	Pressure, Pa (mmHg)	754.7

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.5	3.63	62.23	9.6	3.07
2	11.3	3.33	56.94	7.5	2.71
3	8.3	2.85	48.80	5.9	2.40
4	5.2	2.26	38.64	3.5	1.85
5	3.0	1.71	29.36	1.9	1.36

By Linear Regression of Y on X

Slope , mw = **0.0506** **Intercept, bw =** **-0.1120**

Correlation coefficient* = **0.9982**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.36**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 6-Jul-21

Checked by: Henry Leung Signature: Date: 6-Jul-21

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/0009

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village

Date: 6-Jul-21 Next Due Date: 6-Sep-21 Operator: SK

Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	302.4	Pressure, Pa (mmHg)	754.7

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	11-Jan-22	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

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Calibration of TSP Sampler					
Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	13.2	3.59	61.53	10.6	3.22
2	11.2	3.31	56.68	8.0	2.80
3	8.3	2.85	48.80	6.1	2.44
4	6.2	2.46	42.19	3.9	1.95
5	3.4	1.82	31.26	1.9	1.36

By Linear Regression of Y on X

Slope , mw = 0.0603 **Intercept, bw =** -0.5439

Correlation coefficient* = 0.9968

*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

$$mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$$

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.29**

Remarks:

Conducted by: Wong Shing Kwai Signature: Date: 6-Jul-21

Checked by: Henry Leung Signature: Date: 6-Jul-21

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/44/0007

Project No. KTD1 - Centre of Excellence in Paediatrics (Children's Hospital)

Date: 1-Jun-21 Next Due Date: 1-Aug-21 Operator: SK

Equipment No.: A-01-44 Model No.: TE-5170 Serial No. 1316

Ambient Condition			
Temperature, Ta (K)	299.5	Pressure, Pa (mmHg)	754.8

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.7	3.68	62.99	9.0	2.98
2	11.0	3.30	56.45	6.8	2.59
3	8.3	2.86	49.04	5.3	2.29
4	6.2	2.48	42.39	3.4	1.83
5	3.2	1.78	30.47	1.8	1.33

.

By Linear Regression of Y on X

Slope , mw = **0.0509** **Intercept, bw =** **-0.2524**

Correlation coefficient* = **0.9970**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.80**

Remarks:

Conducted by: SK Wong Signature: Date: 1 June 2021

Checked by: Henry Leung Signature: Date: 1 June 2021

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/04/0006

Project No. KER 1 - Future Residential Development at Kerry Godown

Date: 1-Jun-21 Next Due Date: 1-Aug-21 Operator: SK

Equipment No.: A-01-04 Model No.: TE 5170 Serial No. 10595

Ambient Condition			
Temperature, Ta (K)	299.5	Pressure, Pa (mmHg)	754.8

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

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Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.8	3.69	63.22	8.8	2.95
2	11.3	3.34	57.21	6.9	2.61
3	8.6	2.92	49.92	5.3	2.29
4	5.0	2.22	38.08	3.1	1.75
5	3.0	1.72	29.51	2.1	1.44

By Linear Regression of Y on X

Slope , mw = **0.0446** **Intercept, bw =** **0.0861**

Correlation coefficient* = **0.9981**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.06**

Remarks:

Conducted by: SK Wong Signature: Date: 1 June 2021

Checked by: Henry Leung Signature: Date: 1 June 2021

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/41/0006

Project No. KTD 2D - Next to the SOR Office of Trunk Road T2 in Kai Tak Area

Date: 26-May-21 Next Due Date: 26-Jul-21 Operator: SK

Equipment No.: A-01-41 Model No.: TE 5170 Serial No. 5280

Ambient Condition			
Temperature, Ta (K)	299.3	Pressure, Pa (mmHg)	755

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.9	3.71	63.48	8.7	2.93
2	11.3	3.34	57.24	6.9	2.61
3	8.1	2.83	48.47	5.4	2.31
4	5.7	2.37	40.67	4.1	2.01
5	2.7	1.63	28.01	2.3	1.51

By Linear Regression of Y on X

Slope , mw = **0.0393** **Intercept, bw =** **0.4057**

Correlation coefficient* = **0.9987**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.44**

Remarks:

Conducted by: SK Wong Signature: Date: 1 June 2021

Checked by: Henry Leung Signature: Date: 1 June 2021

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/55/0008

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

Date: 6-May-21 Next Due Date: 6-Jul-21 Operator: SK

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

Ambient Condition			
Temperature, Ta (K)	298.2	Pressure, Pa (mmHg)	761.4

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.6	3.69	63.17	9.6	3.10
2	11.4	3.38	57.84	7.5	2.74
3	8.4	2.90	49.66	5.9	2.43
4	5.2	2.28	39.08	3.5	1.87
5	2.8	1.67	28.69	1.9	1.38

By Linear Regression of Y on X

Slope , mw = 0.0490 **Intercept, bw =** -0.0320

Correlation coefficient* = 0.9984

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.30**

Remarks:

Conducted by: SK Wong Signature: Date: 6 May 2021

Checked by: Henry Leung Signature: Date: 6 May 2021

High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. MA20003/18/0008

Project No. CKL 1 - Flat 121 Cha Kwo Ling Village

Date: 6-May-21 Next Due Date: 6-Jul-21 Operator: SK

Equipment No.: A-01-18 Model No.: TE 5170 Serial No. 0723

Ambient Condition			
Temperature, Ta (K)	298.2	Pressure, Pa (mmHg)	761.4

Orifice Transfer Standard Information					
Serial No.	3864	Slope, mc	0.05846	Intercept, bc	-0.00313
Last Calibration Date:	11-Jan-21	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	11-Jan-22	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.4	3.66	62.71	10.3	3.21
2	11.3	3.36	57.59	7.8	2.79
3	8.4	2.90	49.66	6.1	2.47
4	5.4	2.33	39.83	3.3	1.82
5	3.1	1.76	30.19	1.8	1.34

By Linear Regression of Y on X

Slope , mw = 0.0567 **Intercept, bw = -0.3951**

Correlation coefficient* = 0.9970

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.17**

Remarks:

Conducted by: SK Wong Signature: Date: 6 May 2021

Checked by: Henry Leung Signature: Date: 6 May 2021

APPENDIX D
WEATHER INFORMATION

Appendix D - Weather Conditions During Impact Monitoring Period

Date	Mean Air Temperature (°C)[1]	Mean Relative Humidity (%)[2]	Precipitation (mm)[3]
1-Jul-21	30.3	78	Trace
2-Jul-21	30.6	77	0.0
3-Jul-21	30.4	79	Trace
4-Jul-21	30.4	79	0.0
5-Jul-21	30.2	79	2.3
6-Jul-21	29.4	80	18.4
7-Jul-21	29.4	81	11.7
8-Jul-21	29.8	79	1.5
9-Jul-21	30.5	76	0.0
10-Jul-21	30.5	76	0.0
11-Jul-21	30.6	77	Trace
12-Jul-21	30.9	75	0.1
13-Jul-21	31.1	72	0.0
14-Jul-21	30.7	75	1.5
15-Jul-21	31.3	71	0.0
16-Jul-21	29.6	78	Trace
17-Jul-21	28.8	80	0.2
18-Jul-21	26.9	90	42.4
19-Jul-21	26.5	93	117.2
20-Jul-21	26.2	94	87.8
21-Jul-21	26.8	94	28.4
22-Jul-21	29.3	80	0.0
23-Jul-21	30.3	77	0.0
24-Jul-21	29.8	82	26.5
25-Jul-21	29.6	81	8.9
26-Jul-21	30.7	78	0.0
27-Jul-21	31.3	75	Trace
28-Jul-21	30.8	79	Trace
29-Jul-21	29.5	82	7.8
30-Jul-21	28.8	83	7.9
31-Jul-21	29.7	84	16.9

(Reporting Month: July 2021)

Remarks:

Source - Hong Kong Observatory

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

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
1 Jul 2021	12:00 AM	N	0.6
1 Jul 2021	1:00 AM	NNE	0.6
1 Jul 2021	2:00 AM	ENE	0.6
1 Jul 2021	3:00 AM	ENE	0.6
1 Jul 2021	4:00 AM	ENE	0.6
1 Jul 2021	5:00 AM	ENE	1.1
1 Jul 2021	6:00 AM	W	0.2
1 Jul 2021	7:00 AM	WSW	0.2
1 Jul 2021	8:00 AM	N	0.6
1 Jul 2021	9:00 AM	NE	1.5
1 Jul 2021	10:00 AM	ENE	1.5
1 Jul 2021	11:00 AM	ENE	1.1
1 Jul 2021	12:00 PM	ENE	1.1
1 Jul 2021	1:00 PM	NE	0.6
1 Jul 2021	2:00 PM	ENE	1.1
1 Jul 2021	3:00 PM	ENE	1.5
1 Jul 2021	4:00 PM	ENE	1.1
1 Jul 2021	5:00 PM	NNE	0.6
1 Jul 2021	6:00 PM	NNE	0.6
1 Jul 2021	7:00 PM	SSE	0.6
1 Jul 2021	8:00 PM	NNE	0.6
1 Jul 2021	9:00 PM	NE	1.1
1 Jul 2021	10:00 PM	NE	0.6
1 Jul 2021	11:00 PM	ENE	1.5
2 Jul 2021	12:00 AM	ENE	2.4
2 Jul 2021	1:00 AM	ENE	2.0
2 Jul 2021	2:00 AM	NNE	1.1
2 Jul 2021	3:00 AM	ENE	0.6
2 Jul 2021	4:00 AM	ENE	2.0
2 Jul 2021	5:00 AM	ENE	1.5
2 Jul 2021	6:00 AM	ENE	1.1
2 Jul 2021	7:00 AM	ENE	1.5
2 Jul 2021	8:00 AM	ENE	2.0
2 Jul 2021	9:00 AM	ENE	2.4
2 Jul 2021	10:00 AM	ENE	3.3
2 Jul 2021	11:00 AM	ENE	2.9
2 Jul 2021	12:00 PM	ENE	2.9
2 Jul 2021	1:00 PM	ENE	3.3
2 Jul 2021	2:00 PM	ENE	3.8
2 Jul 2021	3:00 PM	ENE	3.8
2 Jul 2021	4:00 PM	ENE	3.3
2 Jul 2021	5:00 PM	ENE	2.0
2 Jul 2021	6:00 PM	ENE	2.4

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
2 Jul 2021	7:00 PM	ENE	2.9
2 Jul 2021	8:00 PM	ENE	2.0
2 Jul 2021	9:00 PM	ENE	2.0
2 Jul 2021	10:00 PM	ENE	1.1
2 Jul 2021	11:00 PM	SW	1.1
3 Jul 2021	12:00 AM	NNE	1.1
3 Jul 2021	1:00 AM	ENE	2.0
3 Jul 2021	2:00 AM	ENE	2.0
3 Jul 2021	3:00 AM	ENE	2.0
3 Jul 2021	4:00 AM	ENE	3.3
3 Jul 2021	5:00 AM	NNE	0.6
3 Jul 2021	6:00 AM	WSW	0.2
3 Jul 2021	7:00 AM	ESE	0.6
3 Jul 2021	8:00 AM	SW	1.1
3 Jul 2021	9:00 AM	SW	1.5
3 Jul 2021	10:00 AM	NE	1.1
3 Jul 2021	11:00 AM	E	1.5
3 Jul 2021	12:00 PM	ENE	1.5
3 Jul 2021	1:00 PM	SW	2.0
3 Jul 2021	2:00 PM	E	1.5
3 Jul 2021	3:00 PM	ESE	1.5
3 Jul 2021	4:00 PM	SW	1.5
3 Jul 2021	5:00 PM	SW	1.5
3 Jul 2021	6:00 PM	SW	1.1
3 Jul 2021	7:00 PM	SW	0.6
3 Jul 2021	8:00 PM	ESE	1.1
3 Jul 2021	9:00 PM	ESE	1.1
3 Jul 2021	10:00 PM	SW	1.1
3 Jul 2021	11:00 PM	SW	1.1
4 Jul 2021	12:00 AM	ENE	1.1
4 Jul 2021	1:00 AM	ENE	2.0
4 Jul 2021	2:00 AM	ENE	2.0
4 Jul 2021	3:00 AM	E	1.1
4 Jul 2021	4:00 AM	ENE	1.1
4 Jul 2021	5:00 AM	ENE	1.5
4 Jul 2021	6:00 AM	ENE	1.1
4 Jul 2021	7:00 AM	SE	0.6
4 Jul 2021	8:00 AM	SW	1.1
4 Jul 2021	9:00 AM	ENE	1.5
4 Jul 2021	10:00 AM	ESE	1.5
4 Jul 2021	11:00 AM	E	1.5
4 Jul 2021	12:00 PM	ESE	2.0
4 Jul 2021	1:00 PM	ESE	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
4 Jul 2021	2:00 PM	S	1.5
4 Jul 2021	3:00 PM	SW	1.5
4 Jul 2021	4:00 PM	SW	1.1
4 Jul 2021	5:00 PM	ENE	1.5
4 Jul 2021	6:00 PM	ENE	1.5
4 Jul 2021	7:00 PM	ENE	1.1
4 Jul 2021	8:00 PM	NE	1.1
4 Jul 2021	9:00 PM	ENE	2.0
4 Jul 2021	10:00 PM	ENE	2.4
4 Jul 2021	11:00 PM	ENE	2.0
5 Jul 2021	12:00 AM	NNE	2.4
5 Jul 2021	1:00 AM	NNE	2.4
5 Jul 2021	2:00 AM	SSE	2.9
5 Jul 2021	3:00 AM	NNE	2.4
5 Jul 2021	4:00 AM	NE	2.4
5 Jul 2021	5:00 AM	ENE	2.4
5 Jul 2021	6:00 AM	ENE	2.4
5 Jul 2021	7:00 AM	ENE	2.0
5 Jul 2021	8:00 AM	ENE	2.0
5 Jul 2021	9:00 AM	ENE	2.4
5 Jul 2021	10:00 AM	ENE	2.4
5 Jul 2021	11:00 AM	ENE	1.5
5 Jul 2021	12:00 PM	ENE	1.5
5 Jul 2021	1:00 PM	ESE	1.5
5 Jul 2021	2:00 PM	ENE	1.5
5 Jul 2021	3:00 PM	ENE	2.0
5 Jul 2021	4:00 PM	ENE	2.0
5 Jul 2021	5:00 PM	ENE	2.4
5 Jul 2021	6:00 PM	ENE	2.0
5 Jul 2021	7:00 PM	ENE	2.0
5 Jul 2021	8:00 PM	ENE	2.0
5 Jul 2021	9:00 PM	ENE	2.4
5 Jul 2021	10:00 PM	ENE	2.0
5 Jul 2021	11:00 PM	ENE	2.0
6 Jul 2021	12:00 AM	ENE	2.9
6 Jul 2021	1:00 AM	ENE	2.4
6 Jul 2021	2:00 AM	ENE	2.9
6 Jul 2021	3:00 AM	ENE	2.9
6 Jul 2021	4:00 AM	ENE	2.9
6 Jul 2021	5:00 AM	ENE	2.4
6 Jul 2021	6:00 AM	ENE	2.0
6 Jul 2021	7:00 AM	ENE	2.0
6 Jul 2021	8:00 AM	ENE	2.0

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
6 Jul 2021	9:00 AM	ENE	2.9
6 Jul 2021	10:00 AM	ENE	2.4
6 Jul 2021	11:00 AM	ENE	1.5
6 Jul 2021	12:00 PM	ENE	3.3
6 Jul 2021	1:00 PM	ENE	2.9
6 Jul 2021	2:00 PM	ENE	1.5
6 Jul 2021	3:00 PM	ENE	2.9
6 Jul 2021	4:00 PM	ENE	2.9
6 Jul 2021	5:00 PM	ENE	3.3
6 Jul 2021	6:00 PM	ENE	1.5
6 Jul 2021	7:00 PM	ENE	2.9
6 Jul 2021	8:00 PM	ENE	2.9
6 Jul 2021	9:00 PM	ENE	2.9
6 Jul 2021	10:00 PM	ENE	2.9
6 Jul 2021	11:00 PM	ENE	3.3
7 Jul 2021	12:00 AM	ENE	3.8
7 Jul 2021	1:00 AM	ENE	2.4
7 Jul 2021	2:00 AM	ENE	2.4
7 Jul 2021	3:00 AM	ENE	2.4
7 Jul 2021	4:00 AM	ENE	2.4
7 Jul 2021	5:00 AM	NE	2.4
7 Jul 2021	6:00 AM	ENE	2.4
7 Jul 2021	7:00 AM	ENE	2.9
7 Jul 2021	8:00 AM	ENE	2.4
7 Jul 2021	9:00 AM	NNE	1.5
7 Jul 2021	10:00 AM	NNE	2.0
7 Jul 2021	11:00 AM	SSE	2.0
7 Jul 2021	12:00 PM	NNE	1.5
7 Jul 2021	1:00 PM	NE	1.5
7 Jul 2021	2:00 PM	E	2.0
7 Jul 2021	3:00 PM	ENE	2.0
7 Jul 2021	4:00 PM	ESE	2.0
7 Jul 2021	5:00 PM	ENE	2.0
7 Jul 2021	6:00 PM	SE	1.5
7 Jul 2021	7:00 PM	ENE	2.0
7 Jul 2021	8:00 PM	ENE	1.5
7 Jul 2021	9:00 PM	ESE	1.1
7 Jul 2021	10:00 PM	E	1.1
7 Jul 2021	11:00 PM	ENE	1.1
8 Jul 2021	12:00 AM	ENE	1.1
8 Jul 2021	1:00 AM	ESE	0.6
8 Jul 2021	2:00 AM	SE	1.1
8 Jul 2021	3:00 AM	ENE	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
8 Jul 2021	4:00 AM	SW	1.1
8 Jul 2021	5:00 AM	ENE	1.1
8 Jul 2021	6:00 AM	E	1.1
8 Jul 2021	7:00 AM	SW	0.6
8 Jul 2021	8:00 AM	ENE	1.1
8 Jul 2021	9:00 AM	ENE	1.1
8 Jul 2021	10:00 AM	SW	2.0
8 Jul 2021	11:00 AM	SW	0.6
8 Jul 2021	12:00 PM	SSW	1.1
8 Jul 2021	1:00 PM	SW	1.1
8 Jul 2021	2:00 PM	SW	1.1
8 Jul 2021	3:00 PM	SW	2.0
8 Jul 2021	4:00 PM	SW	1.1
8 Jul 2021	5:00 PM	SW	0.6
8 Jul 2021	6:00 PM	SSE	0.2
8 Jul 2021	7:00 PM	NE	1.1
8 Jul 2021	8:00 PM	NE	0.6
8 Jul 2021	9:00 PM	NE	1.1
8 Jul 2021	10:00 PM	NE	1.1
8 Jul 2021	11:00 PM	ENE	1.1
9 Jul 2021	12:00 AM	ENE	1.1
9 Jul 2021	1:00 AM	ENE	0.6
9 Jul 2021	2:00 AM	NE	1.1
9 Jul 2021	3:00 AM	ENE	0.2
9 Jul 2021	4:00 AM	ENE	0.6
9 Jul 2021	5:00 AM	ENE	0.6
9 Jul 2021	6:00 AM	NNE	1.1
9 Jul 2021	7:00 AM	NNE	0.2
9 Jul 2021	8:00 AM	SSE	0.2
9 Jul 2021	9:00 AM	NNE	1.1
9 Jul 2021	10:00 AM	NE	1.5
9 Jul 2021	11:00 AM	ENE	2.4
9 Jul 2021	12:00 PM	SW	2.0
9 Jul 2021	1:00 PM	ENE	1.1
9 Jul 2021	2:00 PM	ENE	3.3
9 Jul 2021	3:00 PM	ENE	2.9
9 Jul 2021	4:00 PM	ENE	2.4
9 Jul 2021	5:00 PM	ENE	2.4
9 Jul 2021	6:00 PM	ENE	2.4
9 Jul 2021	7:00 PM	ENE	1.1
9 Jul 2021	8:00 PM	SW	0.6
9 Jul 2021	9:00 PM	NNE	0.6
9 Jul 2021	10:00 PM	ENE	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
9 Jul 2021	11:00 PM	ENE	1.5
10 Jul 2021	12:00 AM	ENE	1.5
10 Jul 2021	1:00 AM	ENE	1.5
10 Jul 2021	2:00 AM	NE	1.5
10 Jul 2021	3:00 AM	ENE	1.5
10 Jul 2021	4:00 AM	ENE	1.1
10 Jul 2021	5:00 AM	ENE	1.5
10 Jul 2021	6:00 AM	ENE	1.5
10 Jul 2021	7:00 AM	ENE	2.0
10 Jul 2021	8:00 AM	ENE	2.9
10 Jul 2021	9:00 AM	ENE	3.3
10 Jul 2021	10:00 AM	ENE	3.3
10 Jul 2021	11:00 AM	ENE	2.9
10 Jul 2021	12:00 PM	ENE	2.0
10 Jul 2021	1:00 PM	SE	1.5
10 Jul 2021	2:00 PM	ENE	2.9
10 Jul 2021	3:00 PM	ENE	2.4
10 Jul 2021	4:00 PM	ENE	2.9
10 Jul 2021	5:00 PM	ENE	3.3
10 Jul 2021	6:00 PM	ENE	2.4
10 Jul 2021	7:00 PM	ENE	1.5
10 Jul 2021	8:00 PM	ENE	2.4
10 Jul 2021	9:00 PM	ENE	2.0
10 Jul 2021	10:00 PM	ENE	2.4
10 Jul 2021	11:00 PM	ENE	3.3
11 Jul 2021	12:00 AM	ENE	3.3
11 Jul 2021	1:00 AM	ENE	3.8
11 Jul 2021	2:00 AM	ENE	2.9
11 Jul 2021	3:00 AM	ENE	2.4
11 Jul 2021	4:00 AM	ENE	2.4
11 Jul 2021	5:00 AM	ENE	2.4
11 Jul 2021	6:00 AM	ENE	1.5
11 Jul 2021	7:00 AM	ENE	1.5
11 Jul 2021	8:00 AM	ENE	2.4
11 Jul 2021	9:00 AM	ENE	2.9
11 Jul 2021	10:00 AM	E	1.5
11 Jul 2021	11:00 AM	ESE	1.5
11 Jul 2021	12:00 PM	ENE	1.5
11 Jul 2021	1:00 PM	ENE	2.0
11 Jul 2021	2:00 PM	E	1.5
11 Jul 2021	3:00 PM	SE	1.5
11 Jul 2021	4:00 PM	ESE	2.0
11 Jul 2021	5:00 PM	E	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
11 Jul 2021	6:00 PM	ESE	1.1
11 Jul 2021	7:00 PM	ESE	1.1
11 Jul 2021	8:00 PM	ESE	1.1
11 Jul 2021	9:00 PM	ENE	1.5
11 Jul 2021	10:00 PM	ENE	2.4
11 Jul 2021	11:00 PM	ENE	2.4
12 Jul 2021	12:00 AM	ENE	2.4
12 Jul 2021	1:00 AM	ENE	2.4
12 Jul 2021	2:00 AM	ENE	2.9
12 Jul 2021	3:00 AM	ENE	2.9
12 Jul 2021	4:00 AM	ENE	2.0
12 Jul 2021	5:00 AM	ENE	1.5
12 Jul 2021	6:00 AM	ENE	2.4
12 Jul 2021	7:00 AM	ENE	2.0
12 Jul 2021	8:00 AM	ENE	2.0
12 Jul 2021	9:00 AM	ENE	2.0
12 Jul 2021	10:00 AM	ENE	1.1
12 Jul 2021	11:00 AM	ENE	1.5
12 Jul 2021	12:00 PM	ENE	2.0
12 Jul 2021	1:00 PM	ENE	2.0
12 Jul 2021	2:00 PM	E	1.5
12 Jul 2021	3:00 PM	ESE	1.5
12 Jul 2021	4:00 PM	ENE	1.5
12 Jul 2021	5:00 PM	ENE	1.5
12 Jul 2021	6:00 PM	E	1.1
12 Jul 2021	7:00 PM	E	1.1
12 Jul 2021	8:00 PM	ENE	0.6
12 Jul 2021	9:00 PM	SW	1.1
12 Jul 2021	10:00 PM	SW	0.6
12 Jul 2021	11:00 PM	ENE	1.5
13 Jul 2021	12:00 AM	NNE	1.5
13 Jul 2021	1:00 AM	NNE	1.1
13 Jul 2021	2:00 AM	NE	1.5
13 Jul 2021	3:00 AM	NNE	0.6
13 Jul 2021	4:00 AM	NE	0.6
13 Jul 2021	5:00 AM	NE	0.6
13 Jul 2021	6:00 AM	NNE	0.6
13 Jul 2021	7:00 AM	NE	1.1
13 Jul 2021	8:00 AM	ENE	2.0
13 Jul 2021	9:00 AM	ENE	2.0
13 Jul 2021	10:00 AM	SW	1.1
13 Jul 2021	11:00 AM	ENE	1.5
13 Jul 2021	12:00 PM	ENE	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
13 Jul 2021	1:00 PM	ENE	1.1
13 Jul 2021	2:00 PM	SW	1.5
13 Jul 2021	3:00 PM	ENE	2.0
13 Jul 2021	4:00 PM	ENE	3.8
13 Jul 2021	5:00 PM	ENE	3.3
13 Jul 2021	6:00 PM	ENE	3.3
13 Jul 2021	7:00 PM	ENE	2.9
13 Jul 2021	8:00 PM	ENE	1.5
13 Jul 2021	9:00 PM	ENE	1.5
13 Jul 2021	10:00 PM	ENE	1.1
13 Jul 2021	11:00 PM	ENE	1.5
14 Jul 2021	12:00 AM	ENE	1.5
14 Jul 2021	1:00 AM	ENE	1.1
14 Jul 2021	2:00 AM	ENE	0.6
14 Jul 2021	3:00 AM	NE	1.5
14 Jul 2021	4:00 AM	ENE	1.5
14 Jul 2021	5:00 AM	ENE	1.1
14 Jul 2021	6:00 AM	ENE	0.6
14 Jul 2021	7:00 AM	NNE	1.1
14 Jul 2021	8:00 AM	NNE	0.6
14 Jul 2021	9:00 AM	SSE	1.1
14 Jul 2021	10:00 AM	NNE	1.5
14 Jul 2021	11:00 AM	NE	2.4
14 Jul 2021	12:00 PM	ENE	2.0
14 Jul 2021	1:00 PM	ENE	2.0
14 Jul 2021	2:00 PM	SW	2.0
14 Jul 2021	3:00 PM	SW	1.5
14 Jul 2021	4:00 PM	SW	2.0
14 Jul 2021	5:00 PM	ENE	1.5
14 Jul 2021	6:00 PM	SW	1.5
14 Jul 2021	7:00 PM	SW	1.5
14 Jul 2021	8:00 PM	SSW	1.1
14 Jul 2021	9:00 PM	SW	2.0
14 Jul 2021	10:00 PM	SW	1.5
14 Jul 2021	11:00 PM	SW	2.0
15 Jul 2021	12:00 AM	SW	1.1
15 Jul 2021	1:00 AM	SW	1.5
15 Jul 2021	2:00 AM	SW	1.1
15 Jul 2021	3:00 AM	SW	1.1
15 Jul 2021	4:00 AM	SSW	1.1
15 Jul 2021	5:00 AM	SW	1.1
15 Jul 2021	6:00 AM	ENE	0.6
15 Jul 2021	7:00 AM	NE	0.2

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
15 Jul 2021	8:00 AM	SSW	1.1
15 Jul 2021	9:00 AM	SSW	1.1
15 Jul 2021	10:00 AM	S	1.5
15 Jul 2021	11:00 AM	ENE	1.1
15 Jul 2021	12:00 PM	ENE	1.1
15 Jul 2021	1:00 PM	ENE	3.8
15 Jul 2021	2:00 PM	ENE	2.4
15 Jul 2021	3:00 PM	ENE	1.5
15 Jul 2021	4:00 PM	SW	2.4
15 Jul 2021	5:00 PM	SW	2.0
15 Jul 2021	6:00 PM	SW	2.4
15 Jul 2021	7:00 PM	SW	2.9
15 Jul 2021	8:00 PM	SW	2.0
15 Jul 2021	9:00 PM	SSW	1.1
15 Jul 2021	10:00 PM	SSW	1.1
15 Jul 2021	11:00 PM	SW	1.5
16 Jul 2021	12:00 AM	SW	1.5
16 Jul 2021	1:00 AM	SW	1.1
16 Jul 2021	2:00 AM	SW	1.1
16 Jul 2021	3:00 AM	SW	1.5
16 Jul 2021	4:00 AM	WSW	0.6
16 Jul 2021	5:00 AM	ENE	1.1
16 Jul 2021	6:00 AM	SSE	0.6
16 Jul 2021	7:00 AM	ENE	1.1
16 Jul 2021	8:00 AM	ENE	1.1
16 Jul 2021	9:00 AM	ENE	1.1
16 Jul 2021	10:00 AM	ENE	2.4
16 Jul 2021	11:00 AM	ENE	4.2
16 Jul 2021	12:00 PM	ENE	4.7
16 Jul 2021	1:00 PM	ENE	4.2
16 Jul 2021	2:00 PM	ENE	3.8
16 Jul 2021	3:00 PM	ENE	2.9
16 Jul 2021	4:00 PM	ENE	1.5
16 Jul 2021	5:00 PM	SW	2.4
16 Jul 2021	6:00 PM	SW	3.8
16 Jul 2021	7:00 PM	SW	1.5
16 Jul 2021	8:00 PM	SW	1.1
16 Jul 2021	9:00 PM	SW	0.6
16 Jul 2021	10:00 PM	SW	0.6
16 Jul 2021	11:00 PM	SW	0.6
17 Jul 2021	12:00 AM	SW	2.0
17 Jul 2021	1:00 AM	SW	1.1
17 Jul 2021	2:00 AM	SW	0.2

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
17 Jul 2021	3:00 AM	SW	1.5
17 Jul 2021	4:00 AM	SW	2.0
17 Jul 2021	5:00 AM	SW	0.6
17 Jul 2021	6:00 AM	SW	1.1
17 Jul 2021	7:00 AM	SW	1.5
17 Jul 2021	8:00 AM	SW	1.1
17 Jul 2021	9:00 AM	SW	1.1
17 Jul 2021	10:00 AM	SW	1.1
17 Jul 2021	11:00 AM	SW	1.5
17 Jul 2021	12:00 PM	SW	1.5
17 Jul 2021	1:00 PM	SW	2.4
17 Jul 2021	2:00 PM	SW	1.5
17 Jul 2021	3:00 PM	NE	1.1
17 Jul 2021	4:00 PM	SW	0.6
17 Jul 2021	5:00 PM	SW	1.5
17 Jul 2021	6:00 PM	SW	1.5
17 Jul 2021	7:00 PM	SW	1.5
17 Jul 2021	8:00 PM	NNE	0.6
17 Jul 2021	9:00 PM	NNE	0.6
17 Jul 2021	10:00 PM	SW	0.6
17 Jul 2021	11:00 PM	SW	1.1
18 Jul 2021	12:00 AM	SW	0.6
18 Jul 2021	1:00 AM	SW	1.1
18 Jul 2021	2:00 AM	SW	1.1
18 Jul 2021	3:00 AM	SW	1.1
18 Jul 2021	4:00 AM	SSW	0.6
18 Jul 2021	5:00 AM	SW	0.6
18 Jul 2021	6:00 AM	SW	1.1
18 Jul 2021	7:00 AM	E	1.1
18 Jul 2021	8:00 AM	SW	0.6
18 Jul 2021	9:00 AM	SW	1.1
18 Jul 2021	10:00 AM	SW	1.5
18 Jul 2021	11:00 AM	SW	1.1
18 Jul 2021	12:00 PM	SW	1.5
18 Jul 2021	1:00 PM	SW	2.0
18 Jul 2021	2:00 PM	ENE	1.1
18 Jul 2021	3:00 PM	ENE	0.6
18 Jul 2021	4:00 PM	SW	0.6
18 Jul 2021	5:00 PM	SW	1.1
18 Jul 2021	6:00 PM	ENE	1.5
18 Jul 2021	7:00 PM	ENE	0.6
18 Jul 2021	8:00 PM	ENE	1.5
18 Jul 2021	9:00 PM	SW	1.1

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
18 Jul 2021	10:00 PM	SW	0.6
18 Jul 2021	11:00 PM	SW	0.6
19 Jul 2021	12:00 AM	SW	0.6
19 Jul 2021	1:00 AM	SW	1.1
19 Jul 2021	2:00 AM	SW	0.2
19 Jul 2021	3:00 AM	ENE	0.5
19 Jul 2021	4:00 AM	ENE	1.0
19 Jul 2021	5:00 AM	ENE	0.4
19 Jul 2021	6:00 AM	NE	0.2
19 Jul 2021	7:00 AM	ENE	1.1
19 Jul 2021	8:00 AM	NNE	0.6
19 Jul 2021	9:00 AM	SW	1.1
19 Jul 2021	10:00 AM	SW	1.5
19 Jul 2021	11:00 AM	NNE	0.6
19 Jul 2021	12:00 PM	ENE	1.1
19 Jul 2021	1:00 PM	SW	2.0
19 Jul 2021	2:00 PM	SW	2.4
19 Jul 2021	3:00 PM	SW	2.4
19 Jul 2021	4:00 PM	SW	2.4
19 Jul 2021	5:00 PM	SW	2.0
19 Jul 2021	6:00 PM	SW	2.0
19 Jul 2021	7:00 PM	SW	1.1
19 Jul 2021	8:00 PM	ENE	1.5
19 Jul 2021	9:00 PM	ENE	2.0
19 Jul 2021	10:00 PM	ENE	1.1
19 Jul 2021	11:00 PM	NE	1.1
20 Jul 2021	12:00 AM	ENE	0.6
20 Jul 2021	1:00 AM	ENE	0.2
20 Jul 2021	2:00 AM	ENE	0.6
20 Jul 2021	3:00 AM	NNE	0.6
20 Jul 2021	4:00 AM	NNE	0.6
20 Jul 2021	5:00 AM	SSE	1.1
20 Jul 2021	6:00 AM	NNE	1.5
20 Jul 2021	7:00 AM	NE	1.1
20 Jul 2021	8:00 AM	SW	1.5
20 Jul 2021	9:00 AM	SW	1.1
20 Jul 2021	10:00 AM	ENE	1.5
20 Jul 2021	11:00 AM	ENE	1.5
20 Jul 2021	12:00 PM	ENE	1.1
20 Jul 2021	1:00 PM	SW	1.5
20 Jul 2021	2:00 PM	ENE	2.0
20 Jul 2021	3:00 PM	ENE	2.4
20 Jul 2021	4:00 PM	ENE	3.3

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
20 Jul 2021	5:00 PM	ENE	3.3
20 Jul 2021	6:00 PM	ENE	3.3
20 Jul 2021	7:00 PM	ENE	2.9
20 Jul 2021	8:00 PM	ENE	1.1
20 Jul 2021	9:00 PM	SW	2.0
20 Jul 2021	10:00 PM	ENE	1.1
20 Jul 2021	11:00 PM	NNE	0.6
21 Jul 2021	12:00 AM	ENE	0.6
21 Jul 2021	1:00 AM	ENE	0.6
21 Jul 2021	2:00 AM	ENE	0.6
21 Jul 2021	3:00 AM	SE	0.6
21 Jul 2021	4:00 AM	ENE	1.1
21 Jul 2021	5:00 AM	ENE	1.5
21 Jul 2021	6:00 AM	ENE	1.5
21 Jul 2021	7:00 AM	ENE	1.1
21 Jul 2021	8:00 AM	ENE	1.5
21 Jul 2021	9:00 AM	ENE	1.5
21 Jul 2021	10:00 AM	ENE	2.0
21 Jul 2021	11:00 AM	ENE	2.4
21 Jul 2021	12:00 PM	ENE	3.3
21 Jul 2021	1:00 PM	ENE	2.9
21 Jul 2021	2:00 PM	ENE	3.3
21 Jul 2021	3:00 PM	ENE	4.7
21 Jul 2021	4:00 PM	ENE	4.2
21 Jul 2021	5:00 PM	ENE	4.2
21 Jul 2021	6:00 PM	ENE	4.2
21 Jul 2021	7:00 PM	ENE	2.9
21 Jul 2021	8:00 PM	ENE	2.9
21 Jul 2021	9:00 PM	ENE	2.9
21 Jul 2021	10:00 PM	ENE	2.0
21 Jul 2021	11:00 PM	ENE	1.5
22 Jul 2021	12:00 AM	ENE	2.0
22 Jul 2021	1:00 AM	ENE	1.5
22 Jul 2021	2:00 AM	ENE	1.1
22 Jul 2021	3:00 AM	ENE	1.1
22 Jul 2021	4:00 AM	ENE	1.1
22 Jul 2021	5:00 AM	ENE	1.1
22 Jul 2021	6:00 AM	ENE	0.6
22 Jul 2021	7:00 AM	ENE	1.1
22 Jul 2021	8:00 AM	ENE	1.1
22 Jul 2021	9:00 AM	ENE	2.4
22 Jul 2021	10:00 AM	ENE	3.3
22 Jul 2021	11:00 AM	NE	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
22 Jul 2021	12:00 PM	ENE	2.9
22 Jul 2021	1:00 PM	ENE	3.3
22 Jul 2021	2:00 PM	ENE	3.3
22 Jul 2021	3:00 PM	ENE	2.9
22 Jul 2021	4:00 PM	ENE	2.4
22 Jul 2021	5:00 PM	ENE	2.9
22 Jul 2021	6:00 PM	ENE	2.0
22 Jul 2021	7:00 PM	ENE	2.0
22 Jul 2021	8:00 PM	ENE	2.4
22 Jul 2021	9:00 PM	ENE	1.5
22 Jul 2021	10:00 PM	ENE	1.5
22 Jul 2021	11:00 PM	ENE	1.5
23 Jul 2021	12:00 AM	ENE	1.5
23 Jul 2021	1:00 AM	NE	1.1
23 Jul 2021	2:00 AM	ENE	1.1
23 Jul 2021	3:00 AM	ENE	1.1
23 Jul 2021	4:00 AM	ENE	1.1
23 Jul 2021	5:00 AM	ENE	0.6
23 Jul 2021	6:00 AM	NNE	0.6
23 Jul 2021	7:00 AM	NE	0.6
23 Jul 2021	8:00 AM	ENE	1.5
23 Jul 2021	9:00 AM	NE	1.5
23 Jul 2021	10:00 AM	NNE	1.1
23 Jul 2021	11:00 AM	ENE	1.5
23 Jul 2021	12:00 PM	SW	1.1
23 Jul 2021	1:00 PM	ENE	1.1
23 Jul 2021	2:00 PM	ENE	1.5
23 Jul 2021	3:00 PM	ESE	1.5
23 Jul 2021	4:00 PM	E	1.5
23 Jul 2021	5:00 PM	E	1.1
23 Jul 2021	6:00 PM	SW	1.5
23 Jul 2021	7:00 PM	SW	1.1
23 Jul 2021	8:00 PM	E	1.1
23 Jul 2021	9:00 PM	ENE	0.6
23 Jul 2021	10:00 PM	ENE	1.5
23 Jul 2021	11:00 PM	ENE	2.0
24 Jul 2021	12:00 AM	ENE	1.1
24 Jul 2021	1:00 AM	SW	1.1
24 Jul 2021	2:00 AM	SW	1.1
24 Jul 2021	3:00 AM	SW	0.6
24 Jul 2021	4:00 AM	SW	0.6
24 Jul 2021	5:00 AM	SW	1.1
24 Jul 2021	6:00 AM	SW	1.5

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
24 Jul 2021	7:00 AM	SW	1.5
24 Jul 2021	8:00 AM	SW	1.5
24 Jul 2021	9:00 AM	SW	1.1
24 Jul 2021	10:00 AM	SW	1.5
24 Jul 2021	11:00 AM	SW	3.3
24 Jul 2021	12:00 PM	SW	2.9
24 Jul 2021	1:00 PM	SW	3.3
24 Jul 2021	2:00 PM	SW	2.4
24 Jul 2021	3:00 PM	SW	2.9
24 Jul 2021	4:00 PM	SW	2.4
24 Jul 2021	5:00 PM	SW	2.4
24 Jul 2021	6:00 PM	SW	2.9
24 Jul 2021	7:00 PM	SW	1.1
24 Jul 2021	8:00 PM	ENE	1.5
24 Jul 2021	9:00 PM	ENE	1.5
24 Jul 2021	10:00 PM	ENE	1.1
24 Jul 2021	11:00 PM	SW	1.1
25 Jul 2021	12:00 AM	SW	2.0
25 Jul 2021	1:00 AM	SW	1.1
25 Jul 2021	2:00 AM	SW	1.1
25 Jul 2021	3:00 AM	SW	1.1
25 Jul 2021	4:00 AM	SW	1.1
25 Jul 2021	5:00 AM	SW	1.1
25 Jul 2021	6:00 AM	SW	1.1
25 Jul 2021	7:00 AM	SW	2.0
25 Jul 2021	8:00 AM	SW	2.0
25 Jul 2021	9:00 AM	SW	2.0
25 Jul 2021	10:00 AM	SW	2.4
25 Jul 2021	11:00 AM	ESE	1.1
25 Jul 2021	12:00 PM	ESE	1.5
25 Jul 2021	1:00 PM	ESE	1.5
25 Jul 2021	2:00 PM	SW	2.0
25 Jul 2021	3:00 PM	SW	2.4
25 Jul 2021	4:00 PM	SW	2.9
25 Jul 2021	5:00 PM	SW	2.9
25 Jul 2021	6:00 PM	SW	3.3
25 Jul 2021	7:00 PM	SW	2.9
25 Jul 2021	8:00 PM	ENE	1.1
25 Jul 2021	9:00 PM	ENE	1.1
25 Jul 2021	10:00 PM	ENE	1.5
25 Jul 2021	11:00 PM	ENE	1.1
26 Jul 2021	12:00 AM	NE	1.5
26 Jul 2021	1:00 AM	ENE	0.6

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
26 Jul 2021	2:00 AM	ENE	1.1
26 Jul 2021	3:00 AM	ENE	1.1
26 Jul 2021	4:00 AM	NNE	0.6
26 Jul 2021	5:00 AM	NNE	1.5
26 Jul 2021	6:00 AM	SSE	1.1
26 Jul 2021	7:00 AM	NNE	1.1
26 Jul 2021	8:00 AM	NE	1.5
26 Jul 2021	9:00 AM	SW	2.4
26 Jul 2021	10:00 AM	ENE	0.6
26 Jul 2021	11:00 AM	NE	0.6
26 Jul 2021	12:00 PM	ENE	0.6
26 Jul 2021	1:00 PM	ENE	1.1
26 Jul 2021	2:00 PM	ENE	2.0
26 Jul 2021	3:00 PM	SW	1.1
26 Jul 2021	4:00 PM	E	0.6
26 Jul 2021	5:00 PM	ENE	1.1
26 Jul 2021	6:00 PM	ENE	2.9
26 Jul 2021	7:00 PM	ENE	1.5
26 Jul 2021	8:00 PM	ENE	1.5
26 Jul 2021	9:00 PM	ENE	1.1
26 Jul 2021	10:00 PM	SSW	1.1
26 Jul 2021	11:00 PM	NNE	1.5
27 Jul 2021	12:00 AM	NNE	1.5
27 Jul 2021	1:00 AM	NNE	1.5
27 Jul 2021	2:00 AM	NNE	2.0
27 Jul 2021	3:00 AM	NNE	2.0
27 Jul 2021	4:00 AM	NNE	1.5
27 Jul 2021	5:00 AM	NE	2.0
27 Jul 2021	6:00 AM	NNE	2.0
27 Jul 2021	7:00 AM	NNE	2.0
27 Jul 2021	8:00 AM	NNE	2.4
27 Jul 2021	9:00 AM	NNE	2.4
27 Jul 2021	10:00 AM	NNE	2.4
27 Jul 2021	11:00 AM	NNE	2.0
27 Jul 2021	12:00 PM	NNE	2.4
27 Jul 2021	1:00 PM	NE	2.0
27 Jul 2021	2:00 PM	NNE	2.0
27 Jul 2021	3:00 PM	NNE	2.4
27 Jul 2021	4:00 PM	NNE	2.4
27 Jul 2021	5:00 PM	NNE	2.9
27 Jul 2021	6:00 PM	NE	2.9
27 Jul 2021	7:00 PM	NE	2.9
27 Jul 2021	8:00 PM	NNE	2.4

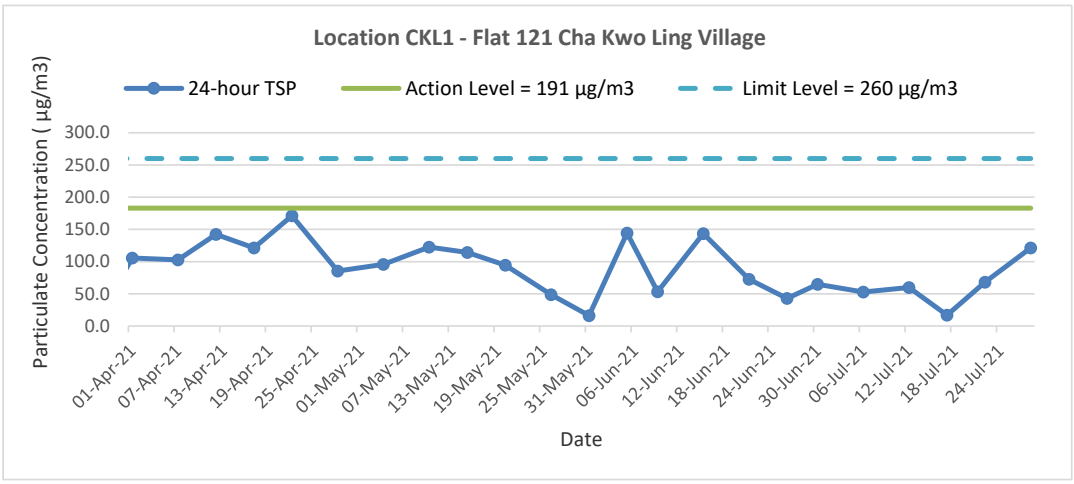
July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
27 Jul 2021	9:00 PM	NNE	2.9
27 Jul 2021	10:00 PM	NNE	2.9
27 Jul 2021	11:00 PM	NNE	2.4
28 Jul 2021	12:00 AM	NE	2.0
28 Jul 2021	1:00 AM	NNE	1.5
28 Jul 2021	2:00 AM	NNE	2.0
28 Jul 2021	3:00 AM	SSE	1.5
28 Jul 2021	4:00 AM	NNE	2.4
28 Jul 2021	5:00 AM	NNE	2.4
28 Jul 2021	6:00 AM	NNE	2.4
28 Jul 2021	7:00 AM	NNE	2.4
28 Jul 2021	8:00 AM	NE	2.0
28 Jul 2021	9:00 AM	SSW	2.0
28 Jul 2021	10:00 AM	NNE	2.9
28 Jul 2021	11:00 AM	SW	2.4
28 Jul 2021	12:00 PM	W	2.4
28 Jul 2021	1:00 PM	W	2.9
28 Jul 2021	2:00 PM	W	3.3
28 Jul 2021	3:00 PM	W	3.3
28 Jul 2021	4:00 PM	W	3.8
28 Jul 2021	5:00 PM	WNW	2.4
28 Jul 2021	6:00 PM	W	3.3
28 Jul 2021	7:00 PM	W	2.9
28 Jul 2021	8:00 PM	W	2.9
28 Jul 2021	9:00 PM	W	2.4
28 Jul 2021	10:00 PM	WNW	2.9
28 Jul 2021	11:00 PM	W	2.4
29 Jul 2021	12:00 AM	W	2.4
29 Jul 2021	1:00 AM	W	2.0
29 Jul 2021	2:00 AM	WNW	2.0
29 Jul 2021	3:00 AM	W	2.4
29 Jul 2021	4:00 AM	WNW	2.9
29 Jul 2021	5:00 AM	W	2.4
29 Jul 2021	6:00 AM	W	2.9
29 Jul 2021	7:00 AM	W	2.9
29 Jul 2021	8:00 AM	NW	3.8
29 Jul 2021	9:00 AM	WNW	2.4
29 Jul 2021	10:00 AM	W	2.4
29 Jul 2021	11:00 AM	W	2.9
29 Jul 2021	12:00 PM	WNW	2.4
29 Jul 2021	1:00 PM	---	0.2
29 Jul 2021	2:00 PM	ENE	2.0
29 Jul 2021	3:00 PM	NE	2.0

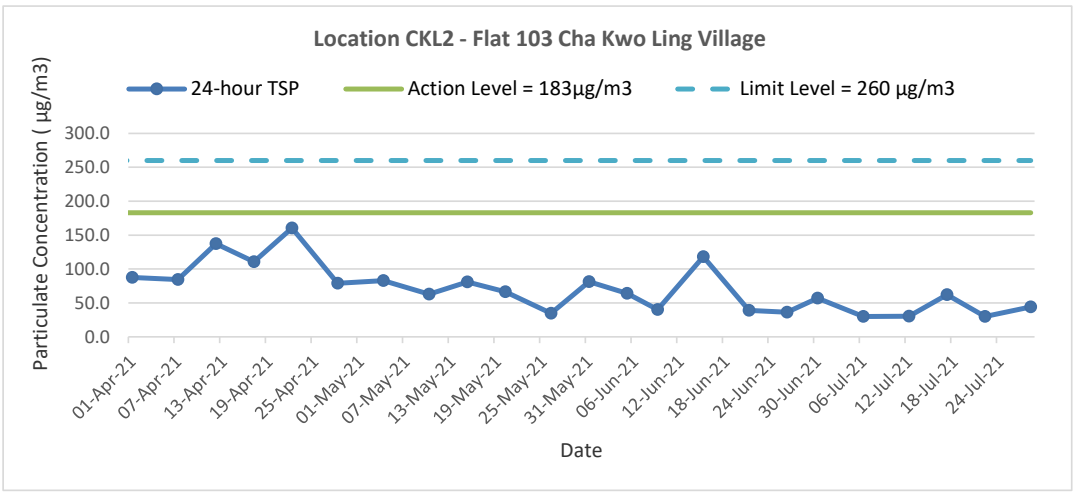
July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
29 Jul 2021	4:00 PM	NE	2.4
29 Jul 2021	5:00 PM	NE	2.4
29 Jul 2021	6:00 PM	NNE	2.9
29 Jul 2021	7:00 PM	N	2.9
29 Jul 2021	8:00 PM	NNE	2.9
29 Jul 2021	9:00 PM	NNE	2.4
29 Jul 2021	10:00 PM	NNE	2.9
29 Jul 2021	11:00 PM	NNE	2.9
30 Jul 2021	12:00 AM	NNE	2.4
30 Jul 2021	1:00 AM	NNE	2.0
30 Jul 2021	2:00 AM	NNE	1.5
30 Jul 2021	3:00 AM	N	2.0
30 Jul 2021	4:00 AM	NNE	1.5
30 Jul 2021	5:00 AM	NNE	2.4
30 Jul 2021	6:00 AM	NE	2.4
30 Jul 2021	7:00 AM	ENE	2.4
30 Jul 2021	8:00 AM	NE	2.4
30 Jul 2021	9:00 AM	NNE	2.0
30 Jul 2021	10:00 AM	NNE	2.0
30 Jul 2021	11:00 AM	NE	2.9
30 Jul 2021	12:00 PM	WNW	2.4
30 Jul 2021	1:00 PM	NE	2.4
30 Jul 2021	2:00 PM	NE	0.6
30 Jul 2021	3:00 PM	NE	1.1
30 Jul 2021	4:00 PM	NE	0.6
30 Jul 2021	5:00 PM	NNE	0.6
30 Jul 2021	6:00 PM	NNE	0.6
30 Jul 2021	7:00 PM	NNE	0.6
30 Jul 2021	8:00 PM	NE	0.6
30 Jul 2021	9:00 PM	ENE	0.2
30 Jul 2021	10:00 PM	NNE	0.6
30 Jul 2021	11:00 PM	ENE	0.2

July 2021			
Wind Speed and Directions			
Date	**Time**	**Wind Speed m-s**	**Direction**
31 Jul 2021	12:00 AM	NE	0.6
31 Jul 2021	1:00 AM	NE	0.6
31 Jul 2021	2:00 AM	NE	2.0
31 Jul 2021	3:00 AM	NE	2.4
31 Jul 2021	4:00 AM	NE	2.9
31 Jul 2021	5:00 AM	NNE	2.4
31 Jul 2021	6:00 AM	NNE	2.9
31 Jul 2021	7:00 AM	NNE	0.6
31 Jul 2021	8:00 AM	ENE	0.6
31 Jul 2021	9:00 AM	E	0.6
31 Jul 2021	10:00 AM	NNE	2.0
31 Jul 2021	11:00 AM	NE	0.6
31 Jul 2021	12:00 PM	NE	0.6
31 Jul 2021	1:00 PM	NE	0.6
31 Jul 2021	2:00 PM	NNE	0.6
31 Jul 2021	3:00 PM	NE	1.5
31 Jul 2021	4:00 PM	NNE	1.5
31 Jul 2021	5:00 PM	NNE	1.5
31 Jul 2021	6:00 PM	WSW	1.5
31 Jul 2021	7:00 PM	SSW	2.4
31 Jul 2021	8:00 PM	SW	2.4
31 Jul 2021	9:00 PM	WSW	2.4
31 Jul 2021	10:00 PM	NNE	2.8
31 Jul 2021	11:00 PM	NE	2.6

APPENDIX F
24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

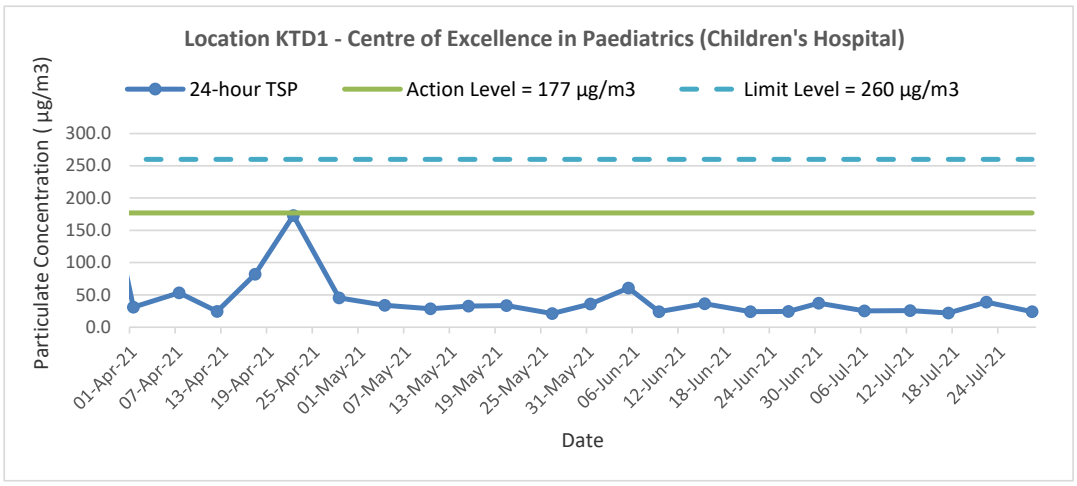
24-hr TSP Concentration Levels

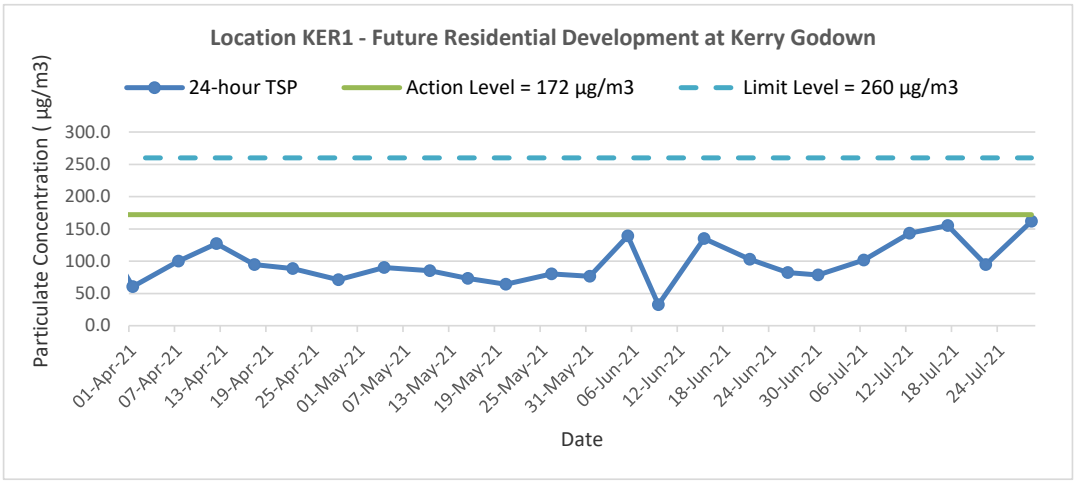




Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Date	Project No.	CINOTECH
		Jul-21	MA20003	
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix F	

24-hr TSP Concentration Levels

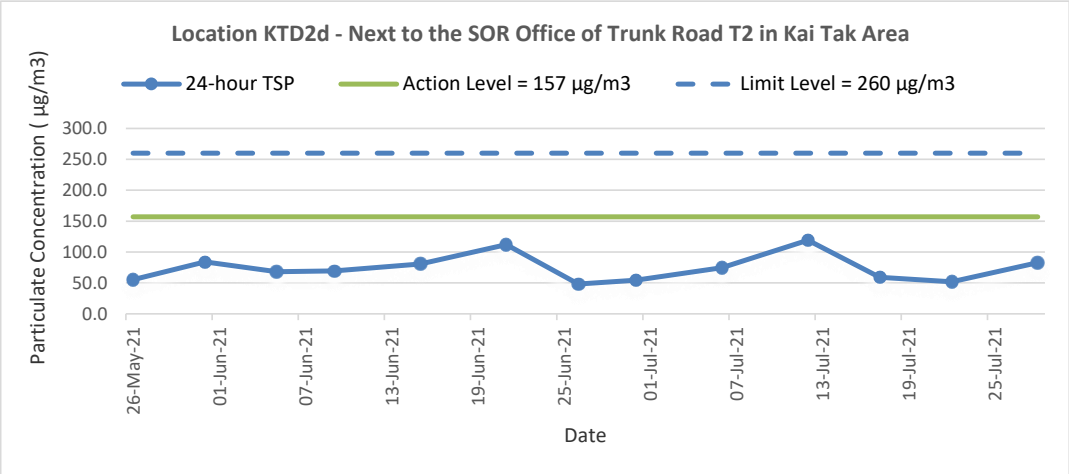




Title		Date	Project
	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron	Jul-21	No. MA20003
	Graphical Presentation of 24-hour TSP Monitoring Results		Appendix F

CINOTECH

24-hr TSP Concentration Levels



Title	Trunk Road T2 and Infrastructure Works for Developments at the Former South Apron Graphical Presentation of 24-hour TSP Monitoring Results	Date Jul-21	Project No. MA20003	CINOTECH
			Appendix F	

Appendix F - 24-hour TSP Impact Monitoring Results

Location CKL1 - Flat 121 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (µg/m^3)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
6-Jul-21	Sunny	302.4	756.8	3.6619	3.7534	0.0915	2608.0	2632.0	24.0	1.21	1.21	1.21	1737.9	52.6	191.0	260.0
12-Jul-21	Sunny	304.0	758.0	3.6679	3.7727	0.1048	2632.0	2656.0	24.0	1.22	1.22	1.22	1751.7	59.8		
17-Jul-21	Fine	300.9	754.4	3.7121	3.7418	0.0298	2656.0	2680.0	24.0	1.22	1.22	1.22	1755.6	17.0		
22-Jul-21	Sunny	302.8	750.7	3.6483	3.7674	0.1191	2686.3	2710.3	24.0	1.22	1.21	1.21	1747.7	68.1		
28-Jul-21	Sunny	303.2	750.1	3.6640	3.8760	0.2120	2710.3	2734.3	24.0	1.21	1.21	1.21	1746.3	121.4		
													Min	17.0		
													Max	121.4		
													Average	63.8		

Note: ***Bold Italic*** means Action Level exceedance

Bold Italic with underline means Limit Level exceedance

Location CKL2 - Flat 103 Cha Kwo Ling Village

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (µg/m^3)	Action Level (µg/m3)	Limit Level (µg/m3)
				Initial	Final		Initial	Final		Initial	Final					
6-Jul-21	Sunny	302.4	756.8	3.6636	3.7155	0.0519	14795.4	14819.4	24.0	1.20	1.21	1.20	1735.0	29.9	183.0	260.0
12-Jul-21	Sunny	304.0	758.0	3.6526	3.7059	0.0533	14819.4	14843.4	24.0	1.22	1.22	1.22	1753.0	30.4		
17-Jul-21	Fine	300.9	754.4	3.6578	3.7671	0.1092	14843.4	14867.4	24.0	1.22	1.22	1.22	1757.7	62.1		
22-Jul-21	Sunny	302.8	750.7	3.6784	3.7311	0.0527	14867.4	14891.4	24.0	1.22	1.21	1.21	1747.6	30.2		
28-Jul-21	Sunny	303.2	750.1	3.6579	3.7348	0.0770	14891.4	14915.4	24.0	1.21	1.21	1.21	1746.6	44.1		
													Min	29.9		
													Max	62.1		
													Average	39.3		

Note: ***Bold Italic*** means Action Level exceedance

Bold Italic with underline means Limit Level exceedance

Appendix F - 24-hour TSP Impact Monitoring Results

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

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (μg/m^3)	Action Level (μg/m3)	Limit Level (μg/m3)
				Initial	Final		Initial	Final		Initial	Final					
6-Jul-21	Sunny	302.4	756.8	3.7277	3.7718	0.0441	14343.0	14367.0	24.0	1.21	1.21	1.21	1748.1	25.2	177.0	260.0
12-Jul-21	Sunny	304.0	758.0	3.6748	3.7194	0.0447	14367.0	14391.0	24.0	1.21	1.21	1.21	1745.3	25.6		
17-Jul-21	Sunny	300.9	754.4	3.6882	3.7266	0.0383	14391.1	14415.1	24.0	1.21	1.22	1.22	1749.7	21.9		
22-Jul-21	Sunny	302.8	750.7	3.6978	3.7653	0.0675	14415.1	14439.1	24.0	1.21	1.21	1.21	1740.9	38.8		
28-Jul-21	Sunny	303.2	750.1	3.6856	3.7274	0.0418	14439.1	14463.1	24.0	1.21	1.21	1.21	1739.4	24.1		
													Min	21.9		
													Max	38.8		
													Average	27.1		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

Location KER1 - Future Residential Development at Kerry Godown

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (μg/m^3)	Action Level (μg/m3)	Limit Level (μg/m3)
				Initial	Final		Initial	Final		Initial	Final					
6-Jul-21	Sunny	302.4	756.8	3.6666	3.8442	0.1776	12023.7	12047.7	24.0	1.21	1.21	1.21	1744.6	101.8	172.0	260.0
12-Jul-21	Sunny	304.0	758.0	3.6581	3.9073	0.2491	12047.6	12071.6	24.0	1.21	1.21	1.21	1741.2	143.1		
17-Jul-21	Fine	300.9	754.4	3.6575	3.9288	0.2712	12071.6	12095.6	24.0	1.21	1.21	1.21	1746.4	155.3		
22-Jul-21	Sunny	302.8	750.7	3.6991	3.8633	0.1641	12095.6	12119.6	24.0	1.21	1.20	1.21	1736.1	94.5		
28-Jul-21	Sunny	303.2	750.1	3.7045	3.9850	0.2806	12119.6	12143.6	24.0	1.20	1.21	1.20	1734.2	161.8		
													Min	94.5		
													Max	161.8		
													Average	131.3		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

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

Start Date	Weather Condition	Air Temp. (K)	Atmospheric Pressure, Pa (mmHg)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time (hrs.)	Flow Rate (m^3/min.)		Av. Flow (m^3/min)	Total vol. (m^3)	Conc. (μg/m^3)	Action Level (μg/m3)	Limit Level (μg/m3)
				Initial	Final		Initial	Final		Initial	Final					
6-Jul-21	Sunny	302.4	756.8	3.6665	3.7970	0.1305	12780.8	12804.8	24.0	1.21	1.21	1.21	1743.8	74.8	172.0	260.0
12-Jul-21	Sunny	304.0	758.0	3.6302	3.8376	0.2074	12804.9	12828.9	24.0	1.21	1.21	1.21	1739.8	119.2		
17-Jul-21	Cloudy	300.9	754.4	3.6741	3.7772	0.1031	12828.9	12852.9	24.0	1.21	1.21	1.21	1745.9	59.1		
22-Jul-21	Sunny	302.8	750.7	3.6910	3.7808	0.0898	12852.9	12876.9	24.0	1.21	1.20	1.20	1733.6	51.8		
28-Jul-21	Sunny	303.2	750.1	3.6773	3.8215	0.1442	12876.9	12900.9	24.0	1.21	1.21	1.21	1745.5	82.6		
													Min	51.8		
													Max	119.2		
													Average	77.5		

Note: ***Bold Italic*** means Action Level exceedance
Bold Italic with underline means Limit Level exceedance

APPENDIX G
COPIES OF CALIBRATION CERTIFICATES FOR NOISE MONITORING

Equipment no.:N-13-02

Calibration Certificate

0025249

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001636 Object 2 : Serial No. /Ref. No. : Manufacturer : Soundtek
Date of calibration: 05/11/2020 Date of the recommended re-calibration: 05/11/2021	Certificate No.: 0025249 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	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 Level Meter and 1kHz Sound Source .

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.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Quality Manager

Equipment no.:N-13-01

Calibration Certificate

0025247

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : ST-120 sound calibrator Serial No. /Ref. No. : 181001608 Object 2 : Serial No. /Ref. No. : Manufacturer : Soundtek
Date of calibration: 05/11/2020 Date of the recommended re-calibration: 05/11/2021	Certificate No.: 0025247 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	93.7dB	-0.3dB	+/- 0.3dB	1
114.0dB	113.6dB	-0.4dB	+/- 0.5dB	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 Level Meter and 1kHz Sound Source .

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.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Quality Manager

Equipment no.: N-12-03

Calibration Certificate

0024996

Customer : Cinotech Consultants Limited RM 1710, Technology Park, 18 On Lai Street, Shatin, N.T. Hong Kong Customer Code : SVEC09005	Object 1 : BSWA 308 SLM Serial No. /Ref. No. : 570188 / 550850 Object 2 : Serial No. /Ref. No. : Manufacturer : BSWAtech
Date of calibration: 07/10/2020 Date of the recommended re-calibration: 07/10/2021	Certificate No.: 0024996 Handle by: E0002

Measuring results

Reference value	Indication value	Deviation	Allowed deviation	Object
94.0dB	92.9dB	-1.1dB	+/- 1.5dB	1
114.0dB	112.8dB	-1.2dB	+/- 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.**

Performed by

Calibration Technician Mr. K.L. Ng

Approved by

Mr. K.S. Ng

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

Calibration Certificate

0025914

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

Performed by

Calibration Technician

Approved by

Quality Manager

Appleone Calibration Laboratory Ltd. Rm1309, 13/F, No.77 Wing Hong St, Kln, HKSAR Tel: +852 2370 4437 Fax: +852 2114 0393

High Precision Chemical Testing Limited
Rm 1904, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong
Tel: (852) 3841 4388
Email: info@hpct.com.hk

APPLICANT: **Cinotech Consultants Limited**
RM 1710, Technology Park,
18 On Lai Street,

Test Report No.:	00122
Date of Issue:	2021-05-12
Date Received:	2021-05-07
Test Period	2021-05-10 to 2021-05-10
Next Due Date:	2022-05-10

ATTN: **Mr. Henry Leung**

Certificate of Calibration

Item for calibration

Description	Integrating Sound Level Meter
Manufacturer	BSWA Technology
Model No.	BSWA 308
Serial No.	580156
Microphone No.	580804
Equipment No.	N-12-06

Test conditions:

Room Temperature : 22-25 degree Celsius
Relative Humidity : 35-70%

Method reference:

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.

Measuring equipment：

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

****

High Precision Chemical Testing Limited
Rm 1904, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong
Tel: (852) 3841 4388
Email: info@hpct.com.hk

Test Report

Results:

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

REMARK:

1. The indication value was obtained from the average of ten replicated measurement.
2. The equipment being used in this calibration are regularly calibrated by laboratory according to ISO/IEC 17025.

----------**End of Report**----------

PREPARED AND CHECKED BY:
For and On Behalf of **High Precision Chemical Testing Limited**

Laboratory Director (CHAN Hon-Fai)

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							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
7-Jul-21	9:30	Sunny	70.2	74.0	60.3	72.4	70.2 Measured ≦ Baseline
13-Jul-21	15:00	Sunny	71.1	71.3	70.9	72.4	71.1 Measured ≦ Baseline
19-Jul-21	9:35	Cloudy	67.1	70.3	64.8	72.4	67.1 Measured ≦ Baseline
29-Jul-21	16:00	Sunny	73.9	77.6	61.5	72.4	69

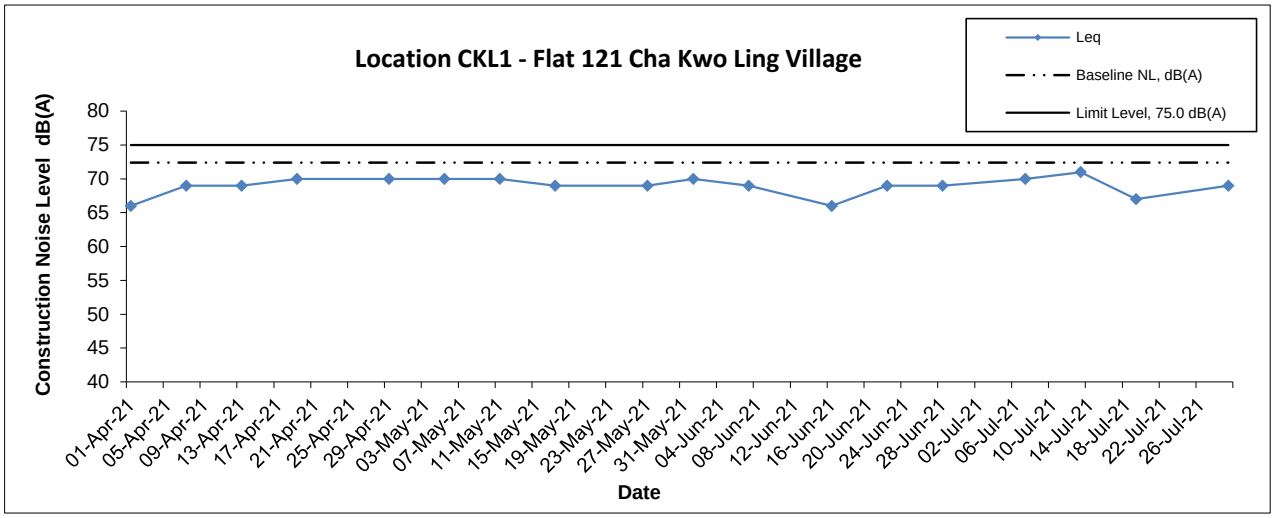
Location CKL2 - Flat 103 Cha Kwo Ling Village							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
7-Jul-21	10:10	Sunny	71.1	74.5	63.1	71.4	71.1 Measured ≦ Baseline
13-Jul-21	15:30	Sunny	73.1	75.3	65.5	71.4	68
19-Jul-21	9:00	Cloudy	70.3	73.4	67.2	71.4	70.3 Measured ≦ Baseline
29-Jul-21	15:00	Sunny	75.6	79.2	62.2	71.4	74

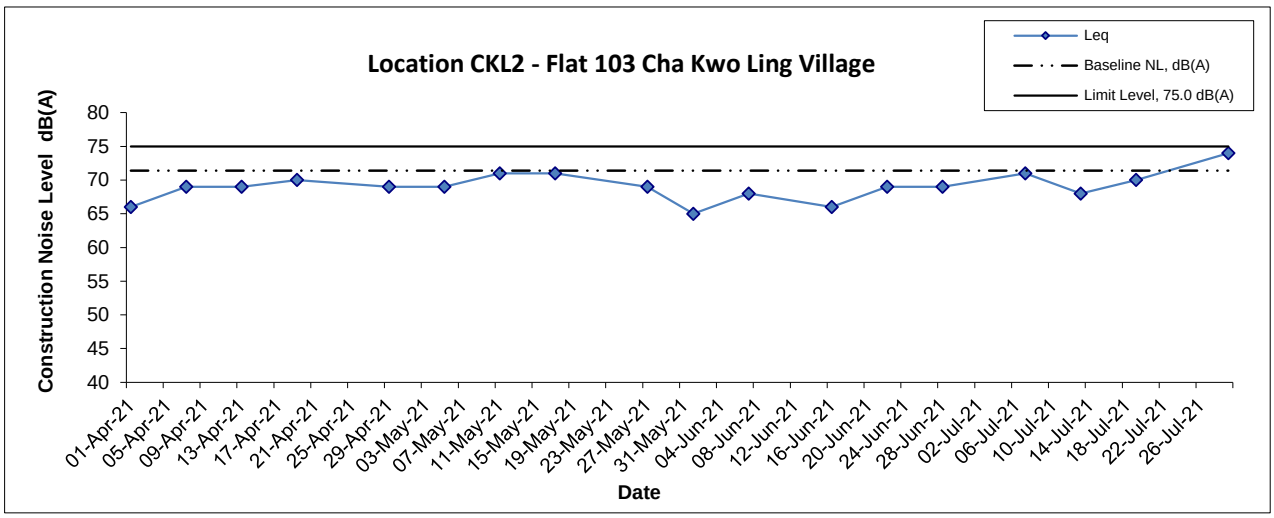
Location KTD1 - Centre of Excellence in Paediatrics (Rooftop of Children's Hospital)							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
7-Jul-21	11:59	Fine	68.1	69.2	66.8	78.0	68.1 Measured ≦ Baseline
13-Jul-21	11:30	Sunny	70.5	72.6	68.4	78.0	70.5 Measured ≦ Baseline
19-Jul-21	10:00	Sunny	70.8	72.5	69.1	78.0	70.8 Measured ≦ Baseline
29-Jul-21	10:00	Sunny	72.8	74.5	71.1	78.0	72.8 Measured ≦ Baseline

Location KER1 - Future Residential Development at Kerry Godown							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
7-Jul-21	11:00	Fine	74.4	75.1	70.3	65.0	74
13-Jul-21	12:30	Sunny	65.0	65.4	64.1	65.0	65 Measured ≦ Baseline
19-Jul-21	13:00	Sunny	74.2	76.1	70.4	65.0	74
29-Jul-21	9:00	Sunny	72.2	74.1	68.4	65.0	71

Location KTD2d - Next to the SOR Office of Trunk Road T2 in Kai Tak Area							
Date	Time	Weather	Unit: dB (A) (30-min)				
			Measured Noise Level			Baseline Level	Construction Noise Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
7-Jul-21	9:00	Fine	73.1	75.7	65.1	64.0	73
13-Jul-21	13:45	Sunny	64.2	66.4	60.7	64.0	51
19-Jul-21	9:00	Sunny	70.6	70.9	70.4	64.0	70
29-Jul-21	13:00	Sunny	74.7	77.2	61.1	64.0	74

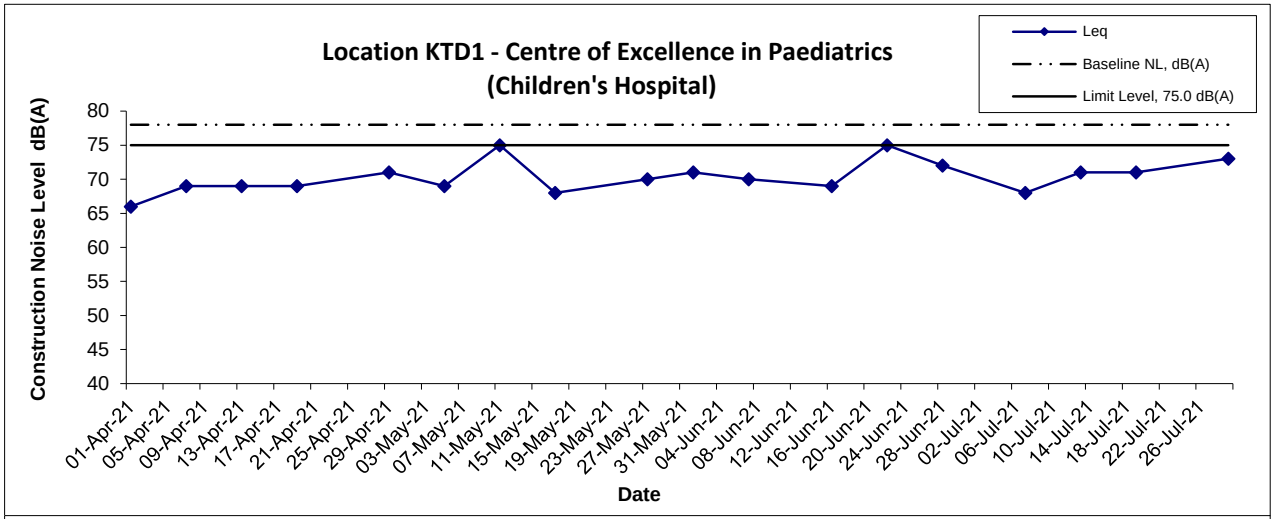
Noise Levels

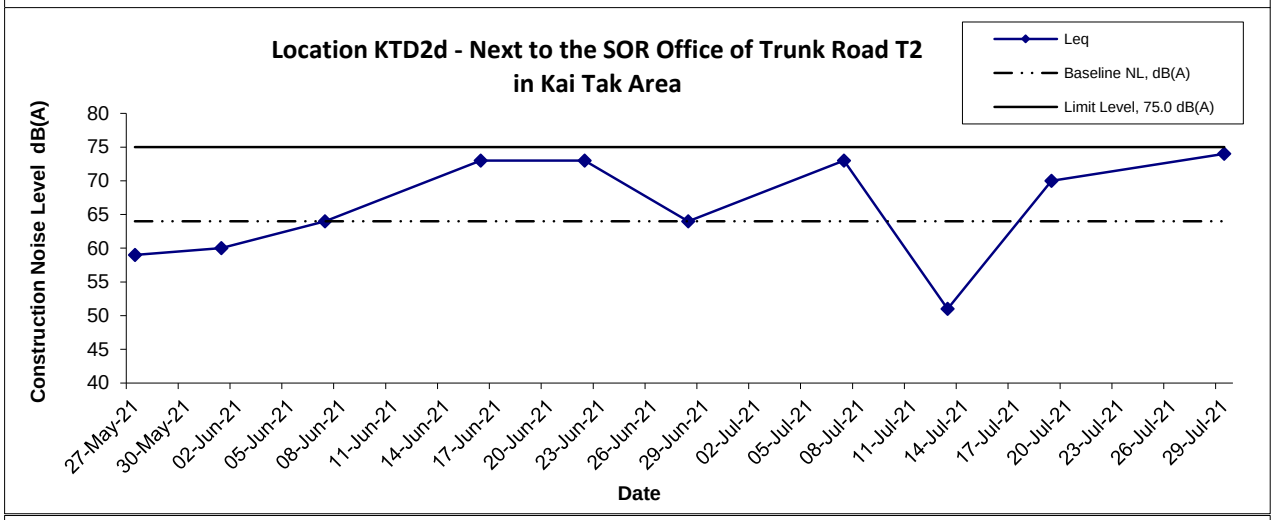


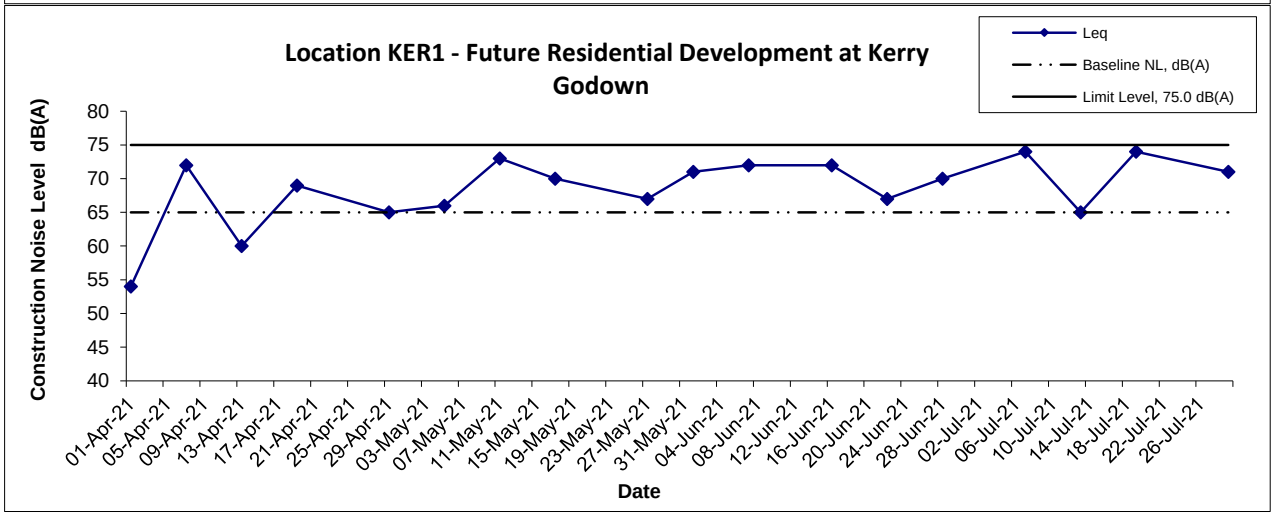


Title: Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Date: Jul 21	Project No. MA20003 Appendix H	CINOTECH

Noise Levels







Title: Kai Tak Development – Trunk Road T2 and Infrastructure Works at the Former South Apron Graphical Presentation of Construction Noise Monitoring Results	Date: Jul 21	Project No. MA20003 Appendix H	CINOTECH

APPENDIX I
SITE AUDIT SUMMARY

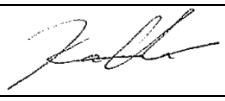
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	210708
Date	08 July 2021 (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.:210628), no major environmental deficiency was identified during previous session.	

	Name	Signature	Date
Recorded by	Tim Lui		08 July 2021
Checked by	Karina Chan		08 July 2021

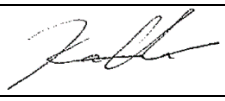
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	210715
Date	15 July 2021 (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.:210708), no major environmental deficiency was identified during previous session.	

	Name	Signature	Date
Recorded by	Tim Lui		15 July 2021
Checked by	Karina Chan		15 July 2021

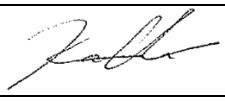
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	210723
Date	23 July 2021 (Friday)
Time	14:00 – 15:00

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.:210715), no major environmental deficiency was identified during previous session.	

	Name	Signature	Date
Recorded by	Tim Lui		23 July 2021
Checked by	Karina Chan		23 July 2021

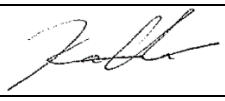
Weekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	210729
Date	29 July 2021 (Thursday)
Time	09:30 – 12:00

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

Ref. No.	Remarks/Observations	Related Item No.
210729 – R1	***B. Water Quality*** • Contractor is reminded to control the loading of barges to prevent splashing of material into surrounding water body.. ***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.:210723), no major environmental deficiency was identified during previous session.	*B19v*

	Name	Signature	Date
Recorded by	Tim Lui		29 July 2021
Checked by	Karina Chan		29 July 2021

APPENDIX J
EVENT AND ACTION PLANS

Appendix J - Event Action Plans

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

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

Appendix J - Event Action Plans

Event	Action			
	ET	**IEC**	**ER**	**Contractor**
	7. If exceedance continues, arrange meeting with IEC, Contractor and ER; 8. If exceedance stops, cease additional monitoring.			
Limit level				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform the IEC, ER, and Contractor; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to the ER and copy to the ET and IEC within three working days of notification; 3. Implement the agreed proposals; 4. Amend proposal if appropriate.
2. Exceedance for two or more consecutive	1. Notify IEC, ER and Contractor; 2. Identify source;	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;	1. Confirm receipt of notification of exceedance in writing;	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial

Appendix J - Event Action Plans

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

Appendix J - Event Action Plans

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

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

Appendix J - Event Action Plans

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

Appendix J - Event Action Plans

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

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

Appendix J - Event Action Plans

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

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	Implementation Stages			Status
						D	C	O	
Air Quality Impact									
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/m^2 for the respective watering frequency;	To minimize dust emission during construction works	All relevant works sites, conveyor belts and stockpiles	Contractor and Sub-contractors	APCO / EIAO	Y	Y		^
	Dust enclosures with watering would be provided along the loading ramps and conveyor belts for unloading the C&D materials to the barge for dust suppression; and								N/A(1)
	3-sided barriers around the stockpiling areas WA3 and WA4.								^
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		^
	Use of frequent watering for particularly dusty construction areas and areas close to ASRs;								^
	Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering shall be applied to aggregate fines;								^
	Open stockpiles shall be avoided or covered. Prevent placing dusty material storage piles near ASRs;								^
	Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations;								^

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	C	O	
	Establishment and use of vehicle wheel and body washing facilities at the exit points of the site;								^
	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;								^
	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;								^
	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	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
Noise Impact									
S3.4.1.1	The use of quieter plant, including Quality Powered Mechanical Equipment (QPME) is specified for the list of equipment: - Concrete lorry mixer - Dump Truck, 5.5 tonne < gross vehicle weight ≤ 38 tonne - Generator, Super Silenced, 70 dB(A) at 7m - Poker, vibratory, Hand-held (electric) - Water Pump, Submersible (Electric) - Mobile Crane - KOBELCO CKS900 - Excavator, wheeled/tracked - HYUNDAI R80CR-9	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
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 air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
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 air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
S3.4.1.1	Use of acoustic fabric for the silent piling system, drill rigs, rock drills etc.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
S3.4.1.1	Proper fitting of silencers and mufflers on the ventilation fans.	To minimise air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		N/A(1)
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 air-borne noise impacts	All relevant works sites	Contractor and Sub-contractors	NCO / EIAO		Y		^
	Mobile plant, if any, should be sited as far from NSRs as possible;								^
	Plant known to emit noise strongly in one direction should, wherever possible, be properly orientated so that the noise is directed away from the nearby NSRs;								^
	Use of site hoarding as a noise barrier to screen noise at low level NSRs;								^
	Machines and plant that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum; and								^

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	C	O	
	Any material stockpiles and other structures should be effectively utilised, wherever practicable, to screen the noise from on-site construction activities.								^
	The advancing speed of the TBM should be restricted to 2m/hr in order to ensure compliance with the daytime ground-borne noise limits.								N/A
Water Quality									
S4.2.1.1	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures shall include the following: Surface run-off from the construction site, including all Works Areas, will be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. At the establishment of works sites and works areas including the barging point, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the storm water to the silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction and the catch-pits and perimeter channels would be constructed in advance of site formation works and earthworks;	To control water quality impact from construction site runoff and general construction activities	All works sites	Contractor and Sub-contractors	Water Pollution Control Ordinance / ProPECC PN 1/94		Y		^
	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;								^
	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 $0.1m^3/s$, a sedimentation basin of $30m^3$ would be required and for a flow rate of $0.5m^3/s$ 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)

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	C	O	
	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;								^
	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;								^
	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;								^
	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;								^

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	C	O	
	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;								^
	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;								^
	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								^
	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.								^

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	C	O	
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;								N/A
	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
	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	Implementation Stages			Status
						D	C	O	
	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;	To control water quality impact from bentonite slurry	All relevant works sites	Contractor and Sub-contractors	WPCO		Y		^
	The container should be labelled in English and Chinese and note that the container is for storage of bentonite slurry only;								^
	The storage container should be placed on an area of impermeable flooring and bunded with capacity to accommodate 110% of the volume of the container size or 20% by volume stored in the area and enclosed with at least 3 sides;								N/A(1)
	The storage container should be sufficiently covered to prevent rainfall entering the container or bunded area (water collected within the bund must be tested and disposed of as chemical waste, if necessary);								^
	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	Implementation Stages			Status
						D	C	O	
	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: 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;	To minimize construction water quality impact from barging point	Barging Point	Contractor and Sub-contractors	EIAO-TM WPCO		Y		N/A(1)
	All hopper barges should be fitted with tight fitting seals to their bottom openings to prevent leakage of material;								^
	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.								#
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		^

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	C	O	
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: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport;	To control water quality impact from accidental chemical spillage	All works sites	Contractor	EIAO-TM WPCO WDO		Y		N/A(1)
	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.								N/A(1)

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

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
Landscape and Visual									
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y	Y		^
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
S7.2.1.2	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		^
S7.2.1.2	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		^
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		^
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		^
S7.2.1.2	Compensatory tree planting shall be incorporated along all roadside amenity areas affected by the construction works. The required numbers and locations of compensatory trees shall be determined and agreed with the Government during Tree Removal Application process under ETWB TCW No. 3/2006.	To reinstate and maximise compensatory tree numbers to equal or greater conditions	All relevant works sites	CEDD's Contractor	EIAO TM		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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
S7.2.1.2	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
S7.2.1.2	All works shall be carefully designed to minimize impacts on existing landscape resources and visually sensitive receivers. Existing trees within works area shall be retained and protected.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
S7.2.1.2	Existing trees of good quality and condition that are unavoidably affected by the works should be transplanted.	To minimise impact on existing trees	All relevant works sites	CEDD's Contractor	EIAO TM	Y		Y	N/A
Cultural Heritage									
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	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
Waste Management 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 generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	The waste management hierarchy should be strictly followed. This hierarchy should be adopted to evaluate the waste management options in order to maximise the extent of waste reduction and cost reduction. The records of quantities of waste generated, recycled and disposed (locations) should be properly documented.	To keep trace of the generation, minimization, reuse and disposal of C&D	All areas / throughout construction period	Contractor	ETWB TC(W) No.19/2005		Y		N/A(1)
S9.2.1.2	A trip-ticket system should be established in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation to monitor the disposal of public fill and solid wastes at public filling facilities and landfills, and to control fly-tipping. A trip-ticket system would be included as one of the contractual requirements for the future contractor to strictly implement. The Engineer would also regularly audit the effectiveness of the system.	To monitor disposal of waste and control fly-tipping	All areas / throughout construction period	Contractor	DEVB TC(W) No. 6/2010		Y		N/A(1)

EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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		^

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	C	O	
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		^
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		^
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		^
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		^
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	Implementation Stages			Status
						D	C	O	
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	Location/Timing	Implementation Agent	Relevant Standard or Requirement	Implementation Stages			Status
						D	C	O	
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.	To properly store the 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		N/A(1)
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		^

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	C	O	
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		^
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	Implementation Stages			Status
						D	C	O	
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
C	Construction
Y	Yes
O	Operation
^	Compliance of mitigation measure;
N/A N/A(1)	Not applicable at this stage; 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

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

Reporting Month: July 2021

Log Ref.	Location	Received Date	Details of Complaint/warning/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: July 2021

(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

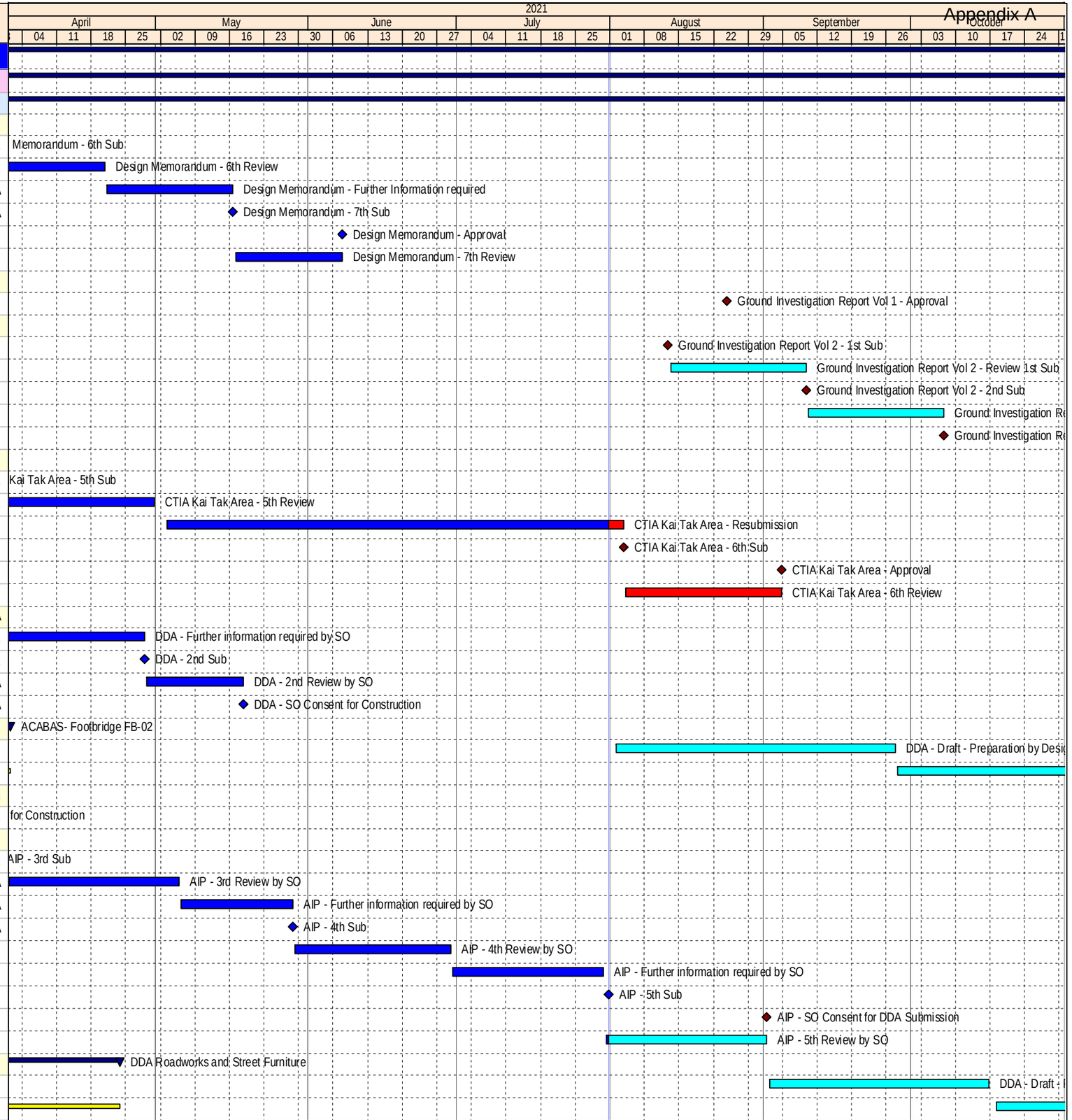
No Limit Level exceedance for daytime construction noise monitoring was recorded in the reporting month.

(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
ED/2018/04 - Trunk Road T2	513	23-Sep-20	21-Jun-22	01-Mar-21 A	31-Jan-22
DESIGN SUBMISSION & APPROVAL	513	23-Sep-20	21-Jun-22	01-Mar-21 A	01-Dec-21
GENERAL	359	06-Oct-20	20-Dec-21	02-Mar-21 A	06-Nov-21
Design Memorandum	0	06-Oct-20	06-Oct-20	23-Mar-21 A	07-Jun-21 A
Design Memorandum - 6th Sub	0				23-Mar-21 A
Design Memorandum - 6th Review	0			24-Mar-21 A	20-Apr-21 A
Design Memorandum - Further Information required	0			21-Apr-21 A	16-May-21 A
Design Memorandum - 7th Sub	0				16-May-21 A
Design Memorandum - Approval	0		06-Oct-20		07-Jun-21 A
Design Memorandum - 7th Review	0			17-May-21 A	07-Jun-21 A
Ground Investigation Report - Kai Tak Area	0	05-Jan-21	05-Jan-21	24-Aug-21	24-Aug-21
Ground Investigation Report Vol 1 - Approval	0		05-Jan-21		24-Aug-21
Ground Investigation Report - Tunnel	47	14-Oct-20	09-Dec-20	12-Aug-21	07-Oct-21
Ground Investigation Report Vol 2 - 1st Sub	0		14-Oct-20		12-Aug-21
Ground Investigation Report Vol 2 - Review 1st Sub	28	15-Oct-20	11-Nov-20	13-Aug-21	09-Sep-21
Ground Investigation Report Vol 2 - 2nd Sub	0		11-Nov-20		09-Sep-21
Ground Investigation Report Vol 2 - Review 2nd Sub	28	12-Nov-20	09-Dec-20	10-Sep-21	07-Oct-21
Ground Investigation Report Vol 2 - Approval	0		09-Dec-20		07-Oct-21
Construction Traffic Impact Assessment - Kai Tak Area	0	06-Oct-20	06-Oct-20	24-Mar-21 A	04-Sep-21
CTIA Kai Tak Area - 5th Sub	0				24-Mar-21 A
CTIA Kai Tak Area - 5th Review	0			25-Mar-21 A	30-Apr-21 A
CTIA Kai Tak Area - Resubmission	0			03-May-21 A	03-Aug-21
CTIA Kai Tak Area - 6th Sub	0				03-Aug-21
CTIA Kai Tak Area - Approval	0		06-Oct-20		04-Sep-21
CTIA Kai Tak Area - 6th Review	0			04-Aug-21	04-Sep-21
ACABAS - Western Tunnel Portal	52	24-Oct-20	24-Dec-20	17-Mar-21 A	18-May-21 A
DDA - Further information required by SO	22	24-Oct-20	19-Nov-20	17-Mar-21 A	28-Apr-21 A
DDA - 2nd Sub	0		19-Nov-20		28-Apr-21 A
DDA - 2nd Review by SO	35	20-Nov-20	24-Dec-20	29-Apr-21 A	18-May-21 A
DDA - SO Consent for Construction	0		24-Dec-20		18-May-21 A
ACABAS- Footbridge FB-02	78	28-Dec-20	01-Apr-21	02-Aug-21	03-Nov-21
DDA - Draft - Preparation by Designer	48	28-Dec-20	25-Feb-21	02-Aug-21	27-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	30	26-Feb-21	01-Apr-21	28-Sep-21	03-Nov-21
DDA Project Alignment	0	09-Oct-20	09-Oct-20	11-Mar-21 A	11-Mar-21 A
DDA - SO Consent for Construction	0		09-Oct-20		11-Mar-21 A
AIP Roadworks and Street Furniture	0	16-Feb-21	16-Feb-21	29-Mar-21 A	01-Sep-21
AIP - 3rd Sub	0				29-Mar-21 A
AIP - 3rd Review by SO	0			01-Apr-21 A	05-May-21 A
AIP - Further information required by SO	0			06-May-21 A	28-May-21 A
AIP - 4th Sub	0				28-May-21 A
AIP - 4th Review by SO	0			29-May-21 A	29-Jun-21 A
AIP - Further information required by SO	0			30-Jun-21 A	30-Jul-21 A
AIP - 5th Sub	0				31-Jul-21 A
AIP - SO Consent for DDA Submission	0		16-Feb-21		01-Sep-21
AIP - 5th Review by SO	0			31-Jul-21 A	01-Sep-21
DDA Roadworks and Street Furniture	54	16-Feb-21	23-Apr-21	02-Sep-21	06-Nov-21
DDA - Draft - Preparation by Designer	36	16-Feb-21	29-Mar-21	02-Sep-21	16-Oct-21
DDA - Draft - Final Review and prepare for 1st Sub	18	30-Mar-21	23-Apr-21	18-Oct-21	06-Nov-21



Milestone · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar · Summary

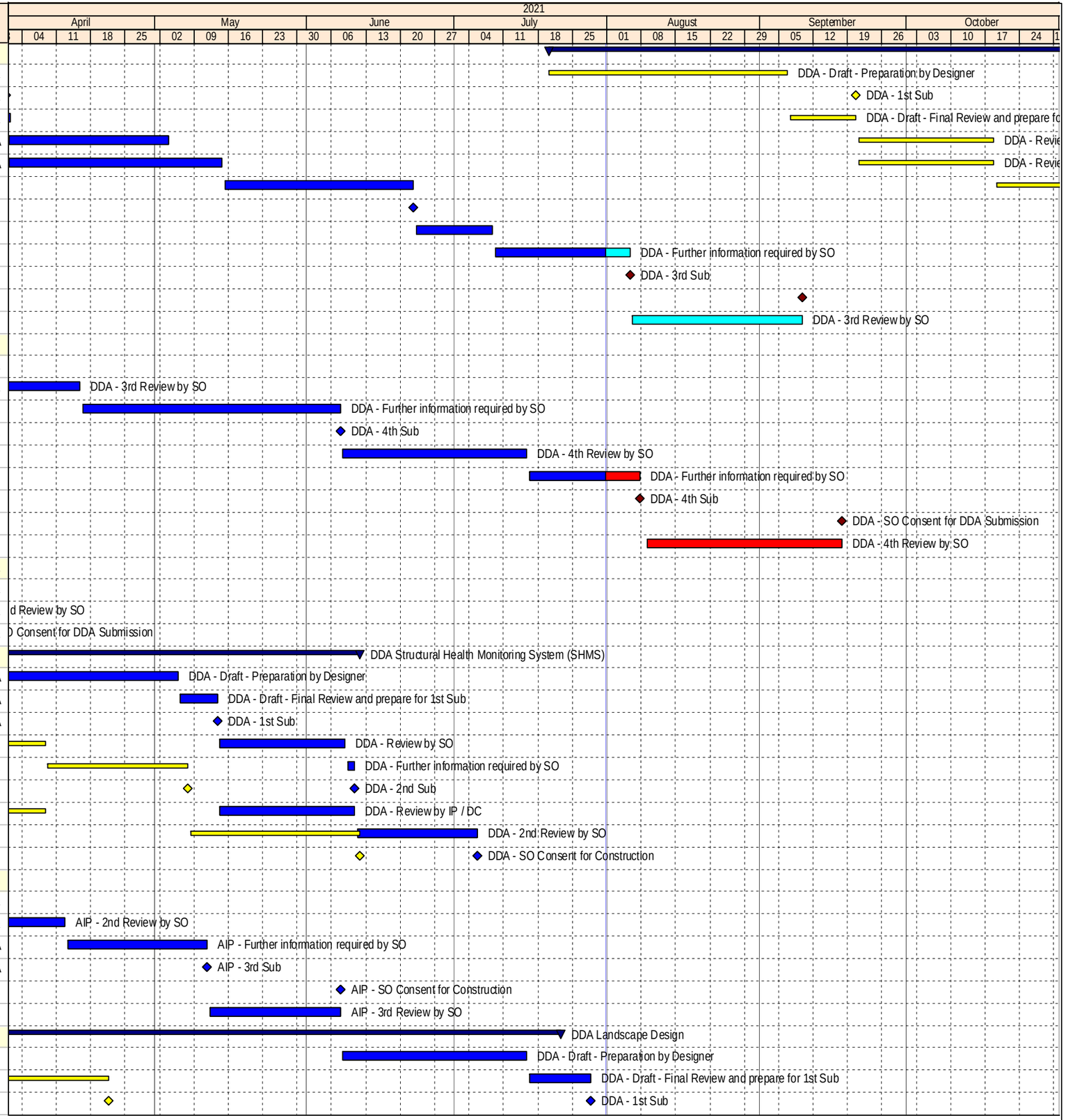
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul-21)

BOUYGUES TRAVAUX PUBLICS

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA Traffic Sign, Road Marking & Sign Gantry	129	20-Jul-21	20-Dec-21	02-Mar-21 A	09-Sep-21
DDA - Draft - Preparation by Designer	42	20-Jul-21	06-Sep-21	02-Mar-21 A	27-Mar-21 A
DDA - 1st Sub	0		20-Sep-21		31-Mar-21 A
DDA - Draft - Final Review and prepare for 1st Sub	12	07-Sep-21	20-Sep-21	29-Mar-21 A	01-Apr-21 A
DDA - Review by IP / DC	28	21-Sep-21	18-Oct-21	01-Apr-21 A	03-May-21 A
DDA - Review by SO	28	21-Sep-21	18-Oct-21	01-Apr-21 A	14-May-21 A
DDA - Further information required by SO	24	19-Oct-21	15-Nov-21	15-May-21 A	22-Jun-21 A
DDA - 2nd Sub	0		15-Nov-21		22-Jun-21 A
DDA - 2nd Review by SO	35	16-Nov-21	20-Dec-21	23-Jun-21 A	08-Jul-21 A
DDA - Further information required by SO	0			09-Jul-21 A	05-Aug-21
DDA - 3rd Sub	0				05-Aug-21
DDA - SO Consent for Construction	0		20-Dec-21		09-Sep-21
DDA - 3rd Review by SO	0			06-Aug-21	09-Sep-21
DDA Street Lighting (AGR/ DPR/ S20/ L10/ L18)	0	22-Jan-21	22-Jan-21	13-Mar-21 A	17-Sep-21
DDA - 3rd Sub	0				13-Mar-21 A
DDA - 3rd Review by SO	0			15-Mar-21 A	15-Apr-21 A
DDA - Further information required by SO	0			16-Apr-21 A	07-Jun-21 A
DDA - 4th Sub	0				07-Jun-21 A
DDA - 4th Review by SO	0			08-Jun-21 A	15-Jul-21 A
DDA - Further information required by SO	0			16-Jul-21 A	07-Aug-21
DDA - 4th Sub	0				07-Aug-21
DDA - SO Consent for DDA Submission	0		22-Jan-21		17-Sep-21
DDA - 4th Review by SO	0			09-Aug-21	17-Sep-21
AIP Structural Health Monitoring System (SHMS)	23	27-Nov-20	28-Dec-20	10-Mar-21 A	22-Mar-21 A
AIP - 2nd Sub	0		27-Nov-20		10-Mar-21 A
AIP - 2nd Review by SO	28	28-Nov-20	25-Dec-20	11-Mar-21 A	22-Mar-21 A
AIP - SO Consent for DDA Submission	0		28-Dec-20		22-Mar-21 A
DDA Structural Health Monitoring System (SHMS)	133	28-Dec-20	11-Jun-21	23-Mar-21 A	05-Jul-21 A
DDA - Draft - Preparation by Designer	36	28-Dec-20	08-Feb-21	23-Mar-21 A	05-May-21 A
DDA - Draft - Final Review and prepare for 1st Sub	24	09-Feb-21	11-Mar-21	06-May-21 A	13-May-21 A
DDA - 1st Sub	0		11-Mar-21		13-May-21 A
DDA - Review by SO	28	12-Mar-21	08-Apr-21	14-May-21 A	08-Jun-21 A
DDA - Further information required by SO	24	09-Apr-21	07-May-21	09-Jun-21 A	10-Jun-21 A
DDA - 2nd Sub	0		07-May-21		10-Jun-21 A
DDA - Review by IP / DC	28	12-Mar-21	08-Apr-21	14-May-21 A	10-Jun-21 A
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	11-Jun-21 A	05-Jul-21 A
DDA - SO Consent for Construction	0		11-Jun-21		05-Jul-21 A
AIP Landscape Design	23	29-Dec-20	26-Jan-21	10-Mar-21 A	07-Jun-21 A
AIP - 2nd Sub	0		29-Dec-20		10-Mar-21 A
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	11-Mar-21 A	12-Apr-21 A
AIP - Further information required by SO	0			13-Apr-21 A	11-May-21 A
AIP - 3rd Sub	0				11-May-21 A
AIP - SO Consent for Construction	0		26-Jan-21		07-Jun-21 A
AIP - 3rd Review by SO	0			12-May-21 A	07-Jun-21 A
DDA Landscape Design	141	27-Jan-21	22-Jul-21	08-Jun-21 A	28-Oct-21
DDA - Draft - Preparation by Designer	42	27-Jan-21	19-Mar-21	08-Jun-21 A	15-Jul-21 A
DDA - Draft - Final Review and prepare for 1st Sub	24	20-Mar-21	21-Apr-21	16-Jul-21 A	28-Jul-21 A
DDA - 1st Sub	0		21-Apr-21		28-Jul-21 A



Milestone · Planned Bar · Critical Activity · Actual Milestone · Actual Work · Baseline Milestone · Baseline Bar · Summary

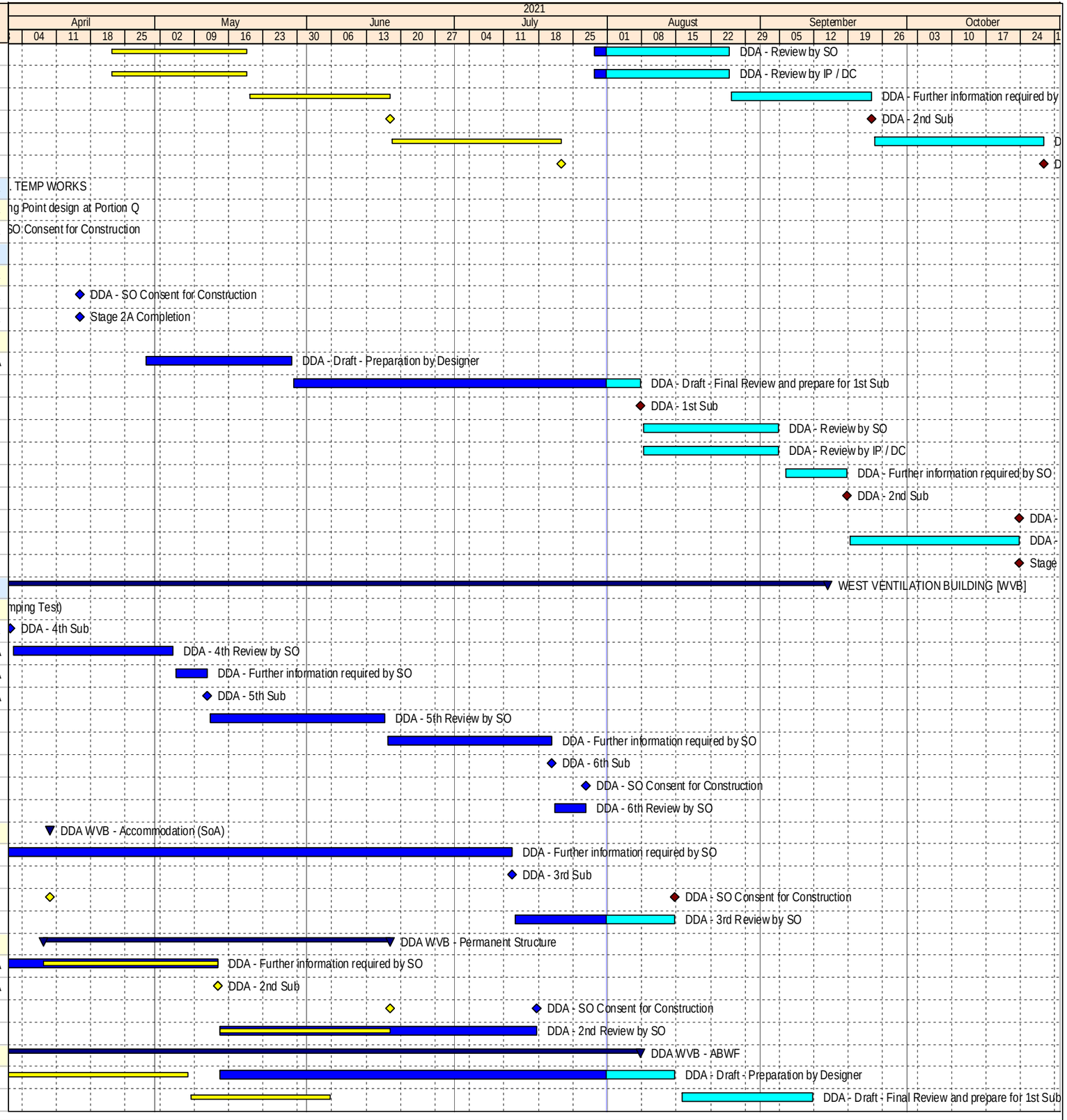
ED/2018/04 Trunk Road T2 and Infrastructure Works for Developments at South Apron

Three Months Rolling Programme (Jul-21)

BOUYGUES TRAVAUX PUBLICS

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

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - Review by SO	28	22-Apr-21	19-May-21	29-Jul-21 A	25-Aug-21
DDA - Review by IP / DC	28	22-Apr-21	19-May-21	29-Jul-21 A	25-Aug-21
DDA - Further information required by SO	24	20-May-21	17-Jun-21	26-Aug-21	23-Sep-21
DDA - 2nd Sub	0		17-Jun-21		23-Sep-21
DDA - 2nd Review by SO	35	18-Jun-21	22-Jul-21	24-Sep-21	28-Oct-21
DDA - SO Consent for Construction	0		22-Jul-21		28-Oct-21
MISC. TEMP WORKS	0	24-Mar-21	24-Mar-21	24-Mar-21 A	24-Mar-21 A
Barging Point design at Portion Q	0	24-Mar-21	24-Mar-21	24-Mar-21 A	24-Mar-21 A
TN - SO Consent for Construction	0		24-Mar-21		24-Mar-21 A
DEPRESSED ROAD [DPR]	120	23-Sep-20	19-Feb-21	15-Apr-21 A	23-Oct-21
DDA DPR - Permanent Structure	0	16-Dec-20	16-Dec-20	15-Apr-21 A	15-Apr-21 A
DDA - SO Consent for Construction	0		16-Dec-20		15-Apr-21 A
Stage 2A Completion	0		16-Dec-20		15-Apr-21 A
DDA DPR - Portal Structure	120	23-Sep-20	19-Feb-21	29-Apr-21 A	23-Oct-21
DDA - Draft - Preparation by Designer	30	23-Sep-20	30-Oct-20	29-Apr-21 A	28-May-21 A
DDA - Draft - Final Review and prepare for 1st Sub	24	07-Nov-20	04-Dec-20	29-May-21 A	07-Aug-21
DDA - 1st Sub	0		04-Dec-20		07-Aug-21
DDA - Review by SO	28	05-Dec-20	01-Jan-21	08-Aug-21	04-Sep-21
DDA - Review by IP / DC	28	05-Dec-20	01-Jan-21	08-Aug-21	04-Sep-21
DDA - Further information required by SO	12	02-Jan-21	15-Jan-21	06-Sep-21	18-Sep-21
DDA - 2nd Sub	0		15-Jan-21		18-Sep-21
DDA - SO Consent for Construction	0		19-Feb-21		23-Oct-21
DDA - 2nd Review by SO	35	16-Jan-21	19-Feb-21	19-Sep-21	23-Oct-21
Stage 1A Completion	0		19-Feb-21		23-Oct-21
WEST VENTILATION BUILDING [WVB]	199	13-Jan-21	14-Sep-21	09-Mar-21 A	15-Nov-21
DDA WVB - ELS Design (DCRA + Dewatering & Pumping T	0	08-Feb-21	08-Feb-21	01-Apr-21 A	27-Jul-21 A
DDA - 4th Sub	0				01-Apr-21 A
DDA - 4th Review by SO	0			02-Apr-21 A	04-May-21 A
DDA - Further information required by SO	0			05-May-21 A	11-May-21 A
DDA - 5th Sub	0				11-May-21 A
DDA - 5th Review by SO	0			12-May-21 A	16-Jun-21 A
DDA - Further information required by SO	0			17-Jun-21 A	20-Jul-21 A
DDA - 6th Sub	0				20-Jul-21 A
DDA - SO Consent for Construction	0		08-Feb-21		27-Jul-21 A
DDA - 6th Review by SO	0			21-Jul-21 A	27-Jul-21 A
DDA WVB - Accommodation (SoA)	0	09-Apr-21	09-Apr-21	09-Mar-21 A	14-Aug-21
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 A
DDA - 3rd Sub	0				12-Jul-21 A
DDA - SO Consent for Construction	0		09-Apr-21		14-Aug-21
DDA - 3rd Review by SO	0			13-Jul-21 A	14-Aug-21
DDA WVB - Permanent Structure	58	08-Apr-21	17-Jun-21	20-Mar-21 A	17-Jul-21 A
DDA - Further information required by SO	30	08-Apr-21	13-May-21	20-Mar-21 A	13-May-21 A
DDA - 2nd Sub	0		13-May-21		13-May-21 A
DDA - SO Consent for Construction	0		17-Jun-21		17-Jul-21 A
DDA - 2nd Review by SO	35	14-May-21	17-Jun-21	14-May-21 A	17-Jul-21 A
DDA WVB - ABWF	121	11-Mar-21	07-Aug-21	14-May-21 A	15-Nov-21
DDA - Draft - Preparation by Designer	45	11-Mar-21	07-May-21	14-May-21 A	14-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	24	08-May-21	05-Jun-21	16-Aug-21	11-Sep-21



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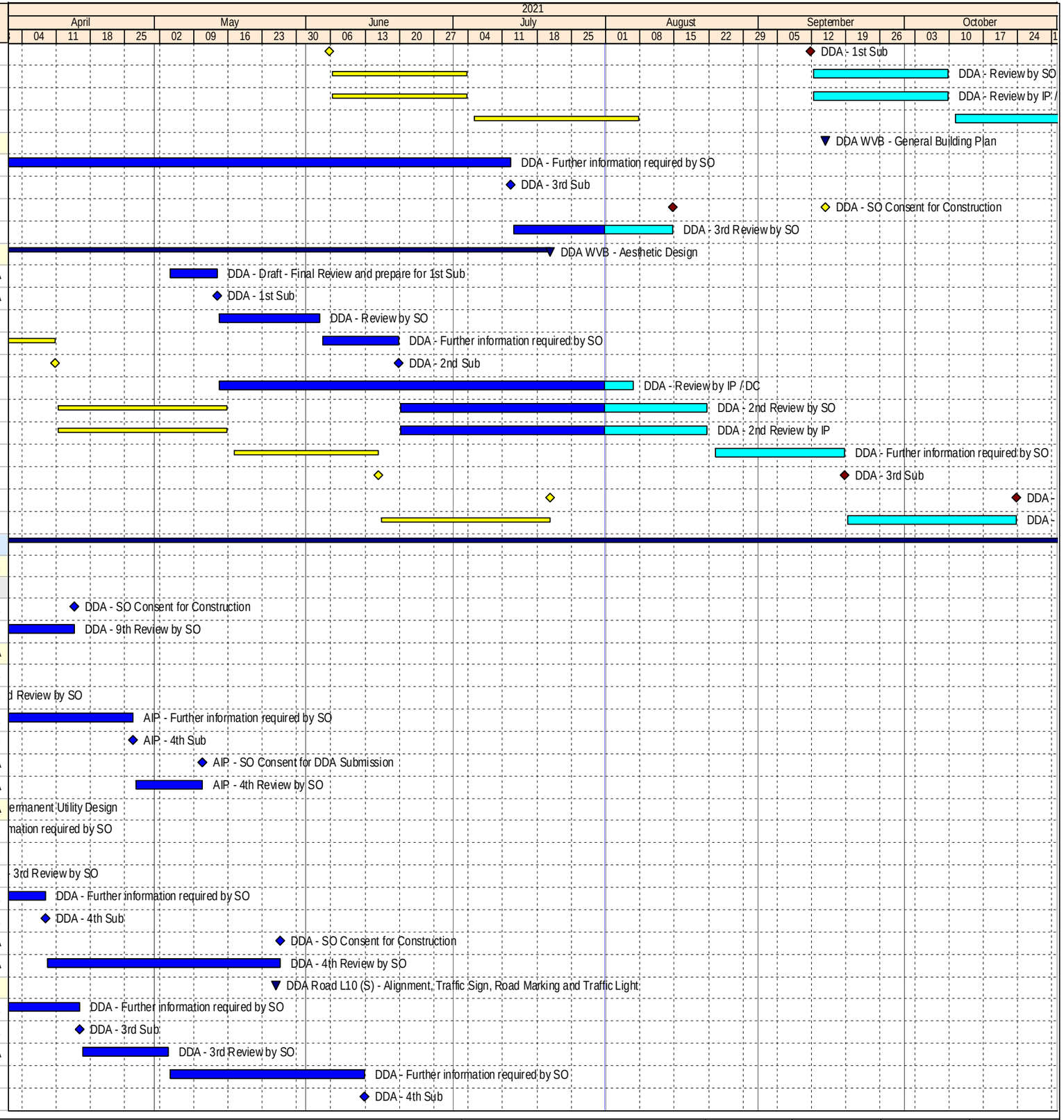
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - 1st Sub	0		05-Jun-21		11-Sep-21
DDA - Review by SO	28	06-Jun-21	03-Jul-21	12-Sep-21	09-Oct-21
DDA - Review by IP / DC	28	06-Jun-21	03-Jul-21	12-Sep-21	09-Oct-21
DDA - Further information required by SO	30	05-Jul-21	07-Aug-21	11-Oct-21	15-Nov-21
DDA WVB - General Building Plan	0	14-Sep-21	14-Sep-21	09-Mar-21 A	14-Aug-21
DDA - Further information required by SO	0			09-Mar-21 A	12-Jul-21 A
DDA - 3rd Sub	0				12-Jul-21 A
DDA - SO Consent for Construction	0		14-Sep-21		14-Aug-21
DDA - 3rd Review by SO	0			13-Jul-21 A	14-Aug-21
DDA WVB - Aesthetic Design	151	13-Jan-21	20-Jul-21	04-May-21 A	23-Oct-21
DDA - Draft - Final Review and prepare for 1st Sub	24	13-Jan-21	09-Feb-21	04-May-21 A	13-May-21 A
DDA - 1st Sub	0		09-Feb-21		13-May-21 A
DDA - Review by SO	28	10-Feb-21	09-Mar-21	14-May-21 A	03-Jun-21 A
DDA - Further information required by SO	24	10-Mar-21	10-Apr-21	04-Jun-21 A	19-Jun-21 A
DDA - 2nd Sub	0		10-Apr-21		19-Jun-21 A
DDA - Review by IP / DC	28	10-Feb-21	09-Mar-21	14-May-21 A	06-Aug-21
DDA - 2nd Review by SO	35	11-Apr-21	15-May-21	20-Jun-21 A	21-Aug-21
DDA - 2nd Review by IP	35	11-Apr-21	15-May-21	20-Jun-21 A	21-Aug-21
DDA - Further information required by SO	24	17-May-21	15-Jun-21	23-Aug-21	18-Sep-21
DDA - 3rd Sub	0		15-Jun-21		18-Sep-21
DDA - SO Consent for Construction	0		20-Jul-21		23-Oct-21
DDA - 3rd Review by SO	35	16-Jun-21	20-Jul-21	19-Sep-21	23-Oct-21
SOUTH APRON ROAD WORKS	506	30-Sep-20	21-Jun-22	01-Mar-21 A	17-Nov-21
DDA Road S20 - Roadworks and Street Furniture	0	30-Sep-20	30-Sep-20	23-Mar-21 A	14-Apr-21 A
SOR	0	30-Sep-20	30-Sep-20	23-Mar-21 A	14-Apr-21 A
DDA - SO Consent for Construction	0		30-Sep-20		14-Apr-21 A
DDA - 9th Review by SO	0			23-Mar-21 A	14-Apr-21 A
AIP Road L10 (S)	0	30-Oct-20	30-Oct-20	04-Mar-21 A	10-May-21 A
AIP - 3rd Sub	0				04-Mar-21 A
AIP - 3rd Review by SO	0			04-Mar-21 A	22-Mar-21 A
AIP - Further information required by SO	0			23-Mar-21 A	26-Apr-21 A
AIP - 4th Sub	0				26-Apr-21 A
AIP - SO Consent for DDA Submission	0		30-Oct-20		10-May-21 A
AIP - 4th Review by SO	0			27-Apr-21 A	10-May-21 A
DDA Road L10 (S) + Outfall 2 - Permanent Utility Design	0	26-Feb-21	26-Feb-21	04-Mar-21 A	26-May-21 A
DDA - Further information required by SO	0			04-Mar-21 A	11-Mar-21 A
DDA - 3rd Sub	0				11-Mar-21 A
DDA - 3rd Review by SO	0			12-Mar-21 A	24-Mar-21 A
DDA - Further information required by SO	0			25-Mar-21 A	08-Apr-21 A
DDA - 4th Sub	0				08-Apr-21 A
DDA - SO Consent for Construction	0		26-Feb-21		26-May-21 A
DDA - 4th Review by SO	0			09-Apr-21 A	26-May-21 A
DDA Road L10 (S) - Alignment, Traffic Sign, Road Marking a	0	25-May-21	25-May-21	08-Mar-21 A	17-Sep-21
DDA - Further information required by SO	0			08-Mar-21 A	15-Apr-21 A
DDA - 3rd Sub	0				15-Apr-21 A
DDA - 3rd Review by SO	0			16-Apr-21 A	03-May-21 A
DDA - Further information required by SO	0			04-May-21 A	12-Jun-21 A
DDA - 4th Sub	0				12-Jun-21 A



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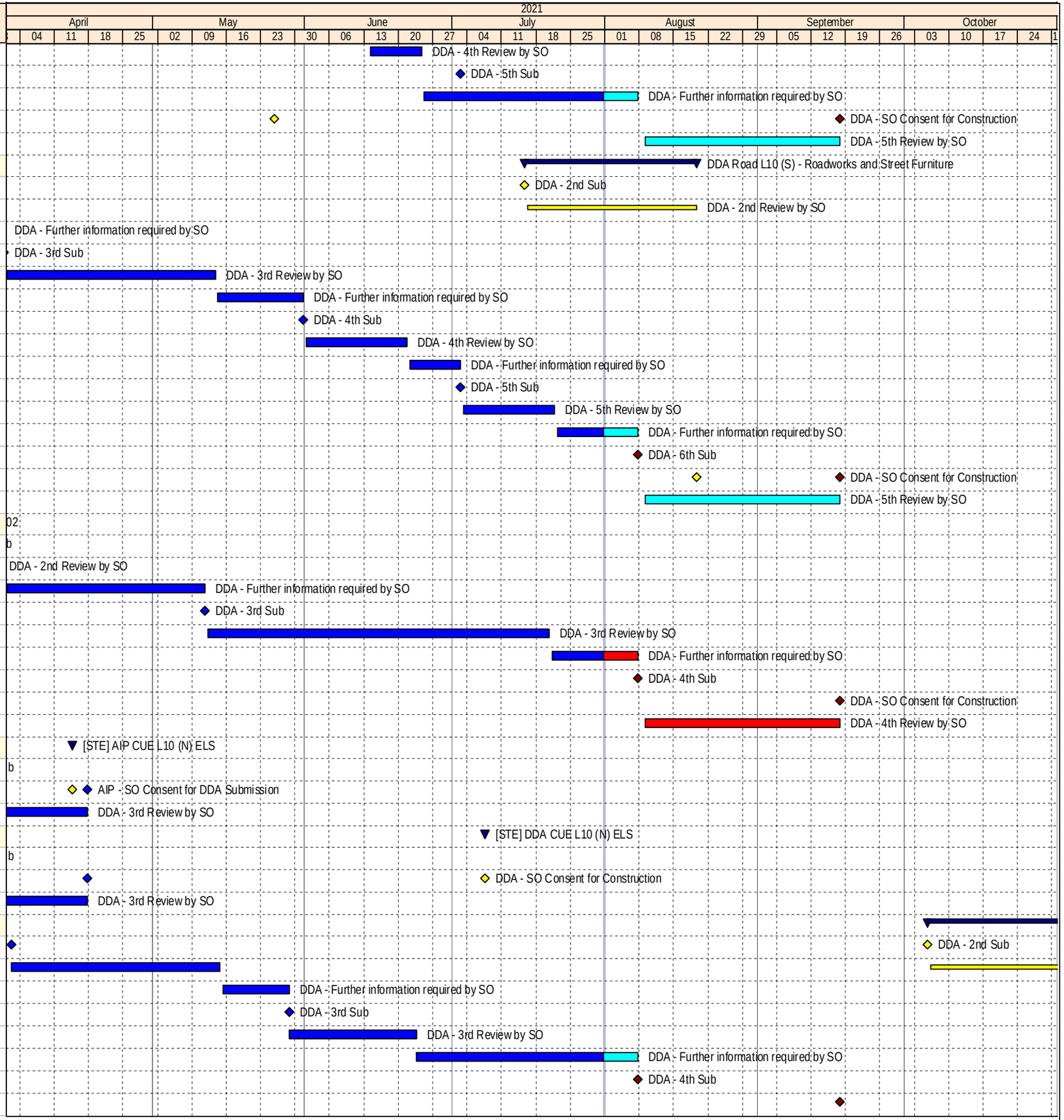
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - 4th Review by SO	0			14-Jun-21 A	24-Jun-21 A
DDA - 5th Sub	0				02-Jul-21 A
DDA - Further information required by SO	0			25-Jun-21 A	07-Aug-21
DDA - SO Consent for Construction	0		25-May-21		17-Sep-21
DDA - 5th Review by SO	0			09-Aug-21	17-Sep-21
DDA Road L10 (S) - Roadworks and Street Furniture	30	15-Jul-21	19-Aug-21	11-Mar-21 A	17-Sep-21
DDA - 2nd Sub	0		15-Jul-21		11-Mar-21 A
DDA - 2nd Review by SO	35	16-Jul-21	19-Aug-21	12-Mar-21 A	26-Mar-21 A
DDA - Further information required by SO	0			27-Mar-21 A	31-Mar-21 A
DDA - 3rd Sub	0				31-Mar-21 A
DDA - 3rd Review by SO	0			01-Apr-21 A	13-May-21 A
DDA - Further information required by SO	0			14-May-21 A	31-May-21 A
DDA - 4th Sub	0				31-May-21 A
DDA - 4th Review by SO	0			01-Jun-21 A	21-Jun-21 A
DDA - Further information required by SO	0			22-Jun-21 A	02-Jul-21 A
DDA - 5th Sub	0				02-Jul-21 A
DDA - 5th Review by SO	0			03-Jul-21 A	21-Jul-21 A
DDA - Further information required by SO	0			22-Jul-21 A	07-Aug-21
DDA - 6th Sub	0				07-Aug-21
DDA - SO Consent for Construction	0		19-Aug-21		17-Sep-21
DDA - 5th Review by SO	0			09-Aug-21	17-Sep-21
DDA Foot Bridge FB-02	27	02-Feb-21	09-Mar-21	16-Mar-21 A	17-Sep-21
DDA - 2nd Sub	0		02-Feb-21		16-Mar-21 A
DDA - 2nd Review by SO	35	03-Feb-21	09-Mar-21	17-Mar-21 A	30-Mar-21 A
DDA - Further information required by SO	0			01-Apr-21 A	11-May-21 A
DDA - 3rd Sub	0				11-May-21 A
DDA - 3rd Review by SO	0			12-May-21 A	20-Jul-21 A
DDA - Further information required by SO	0			21-Jul-21 A	07-Aug-21
DDA - 4th Sub	0				07-Aug-21
DDA - SO Consent for Construction	0		09-Mar-21		17-Sep-21
DDA - 4th Review by SO	0			09-Aug-21	17-Sep-21
[STE] AIP CUE L10 (N) ELS	0	14-Apr-21	14-Apr-21	17-Mar-21 A	17-Apr-21 A
DDA - 3rd Sub	0				17-Mar-21 A
AIP - SO Consent for DDA Submission	0		14-Apr-21		17-Apr-21 A
DDA - 3rd Review by SO	0			17-Mar-21 A	17-Apr-21 A
[STE] DDA CUE L10 (N) ELS	0	07-Jul-21	07-Jul-21	17-Mar-21 A	17-Apr-21 A
DDA - 3rd Sub	0				17-Mar-21 A
DDA - SO Consent for Construction	0		07-Jul-21		17-Apr-21 A
DDA - 3rd Review by SO	0			17-Mar-21 A	17-Apr-21 A
[STE] DDA CUE L10 (N) Permanent Works	29	05-Oct-21	09-Nov-21	02-Apr-21 A	17-Sep-21
DDA - 2nd Sub	0		05-Oct-21		02-Apr-21 A
DDA - 2nd Review by SO	35	06-Oct-21	09-Nov-21	02-Apr-21 A	14-May-21 A
DDA - Further information required by SO	0			15-May-21 A	28-May-21 A
DDA - 3rd Sub	0				28-May-21 A
DDA - 3rd Review by SO	0			28-May-21 A	23-Jun-21 A
DDA - Further information required by SO	0			23-Jun-21 A	07-Aug-21
DDA - 4th Sub	0				07-Aug-21
DDA - SO Consent for Construction	0		09-Nov-21		17-Sep-21



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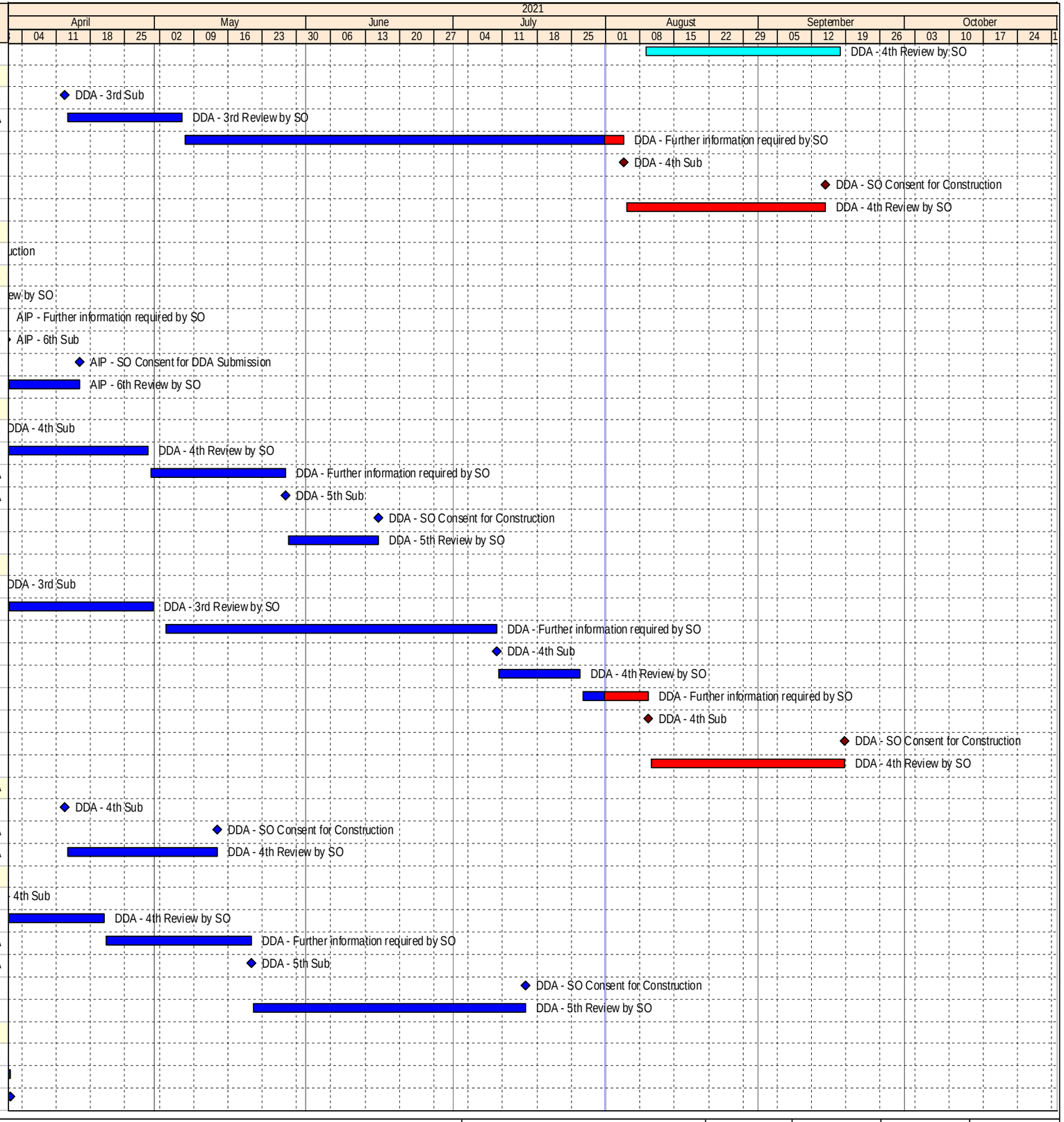
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - 4th Review by SO	0			09-Aug-21	17-Sep-21
[STE] DDA District Cooling System Permanent Works	0	09-Dec-20	09-Dec-20	12-Apr-21 A	14-Sep-21
DDA - 3rd Sub	0				12-Apr-21 A
DDA - 3rd Review by SO	0			13-Apr-21 A	06-May-21 A
DDA - Further information required by SO	0			07-May-21 A	04-Aug-21
DDA - 4th Sub	0				04-Aug-21
DDA - SO Consent for Construction	0		09-Dec-20		14-Sep-21
DDA - 4th Review by SO	0			05-Aug-21	14-Sep-21
[STE] DDA District Cooling System Temporary Works	0	21-Dec-20	21-Dec-20	01-Mar-21 A	01-Mar-21 A
DDA - SO Consent for Construction	0		21-Dec-20		01-Mar-21 A
[STE] AIP Hoi Bun Road Junction	0	29-Oct-20	29-Oct-20	01-Mar-21 A	15-Apr-21 A
AIP - 5th Review by SO	0			01-Mar-21 A	16-Mar-21 A
AIP - Further information required by SO	0			17-Mar-21 A	31-Mar-21 A
AIP - 6th Sub	0				31-Mar-21 A
AIP - SO Consent for DDA Submission	0		29-Oct-20		15-Apr-21 A
AIP - 6th Review by SO	0			01-Apr-21 A	15-Apr-21 A
[STE] DDA Hoi Bun Road Junction - Permanent Utility Desi	0	16-Dec-20	16-Dec-20	29-Mar-21 A	15-Jun-21 A
DDA - 4th Sub	0				29-Mar-21 A
DDA - 4th Review by SO	0			30-Mar-21 A	29-Apr-21 A
DDA - Further information required by SO	0			30-Apr-21 A	27-May-21 A
DDA - 5th Sub	0				27-May-21 A
DDA - SO Consent for Construction	0		16-Dec-20		15-Jun-21 A
DDA - 5th Review by SO	0			28-May-21 A	15-Jun-21 A
[STE] DDA Hoi Bun Road Junction - Alignment, Traffic Sign	0	22-Dec-20	22-Dec-20	29-Mar-21 A	18-Sep-21
DDA - 3rd Sub	0				29-Mar-21 A
DDA - 3rd Review by SO	0			01-Apr-21 A	30-Apr-21 A
DDA - Further information required by SO	0			03-May-21 A	09-Jul-21 A
DDA - 4th Sub	0				09-Jul-21 A
DDA - 4th Review by SO	0			10-Jul-21 A	26-Jul-21 A
DDA - Further information required by SO	0			27-Jul-21 A	09-Aug-21
DDA - 4th Sub	0				09-Aug-21
DDA - SO Consent for Construction	0		22-Dec-20		18-Sep-21
DDA - 4th Review by SO	0			10-Aug-21	18-Sep-21
[STE] DDA Hoi Bun Road Junction - Roadworks and Street	0	03-Dec-20	03-Dec-20	12-Apr-21 A	13-May-21 A
DDA - 4th Sub	0				12-Apr-21 A
DDA - SO Consent for Construction	0		03-Dec-20		13-May-21 A
DDA - 4th Review by SO	0			13-Apr-21 A	13-May-21 A
[STE] DDA Hoi Bun Road Junction - Street Lighting	0	03-Dec-20	03-Dec-20	24-Mar-21 A	15-Jul-21 A
DDA - 4th Sub	0				24-Mar-21 A
DDA - 4th Review by SO	0			25-Mar-21 A	20-Apr-21 A
DDA - Further information required by SO	0			21-Apr-21 A	20-May-21 A
DDA - 5th Sub	0				20-May-21 A
DDA - SO Consent for Construction	0		03-Dec-20		15-Jul-21 A
DDA - 5th Review by SO	0			21-May-21 A	15-Jul-21 A
[STE] AIP Road L10 (N)	105	12-Nov-21	21-Mar-22	08-Mar-21 A	17-Nov-21
AIP - Draft - Preparation by Designer	24	12-Nov-21	09-Dec-21	08-Mar-21 A	25-Mar-21 A
AIP - Draft - Final Review and prepare for 1st Sub	12	10-Dec-21	23-Dec-21	26-Mar-21 A	01-Apr-21 A
AIP - 1st Sub	0		23-Dec-21		01-Apr-21 A



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02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
AIP - Review by SO	28	24-Dec-21	20-Jan-22	01-Apr-21 A	20-May-21 A
AIP - Review by IP / DC	28	24-Dec-21	20-Jan-22	01-Apr-21 A	08-Jul-21 A
AIP - Further information required by SO	24	21-Jan-22	21-Feb-22	20-May-21 A	08-Jul-21 A
AIP - 2nd Sub	0		21-Feb-22		08-Jul-21 A
AIP - 2nd Review by SO	28	22-Feb-22	21-Mar-22	16-Jun-21 A	17-Nov-21
[STE] DDA Road L10 (N) - Alignment, Traffic Sign, Road Ma	72	22-Mar-22	21-Jun-22	02-Apr-21 A	30-Aug-21
DDA - Draft - Preparation by Designer	6	22-Mar-22	28-Mar-22	02-Apr-21 A	15-Apr-21 A
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	15-Apr-21 A	19-Apr-21 A
DDA - 1st Sub	0		04-Apr-22		19-Apr-21 A
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	19-Apr-21 A	21-May-21 A
DDA - Review by SO	28	05-Apr-22	02-May-22	19-Apr-21 A	27-May-21 A
DDA - Further information required by SO	12	03-May-22	17-May-22	27-May-21 A	26-Jul-21 A
DDA - 2nd Sub	0		17-May-22		26-Jul-21 A
DDA - SO Consent for Construction	0		21-Jun-22		30-Aug-21
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	27-Jul-21 A	30-Aug-21
[STE] DDA Road L10 (N) - Roadworks and Street Furniture	72	22-Mar-22	21-Jun-22	07-Apr-21 A	25-Aug-21
DDA - Draft - Preparation by Designer	6	22-Mar-22	28-Mar-22	07-Apr-21 A	14-Apr-21 A
DDA - Draft - Final Review and prepare for 1st Sub	6	29-Mar-22	04-Apr-22	15-Apr-21 A	19-Apr-21 A
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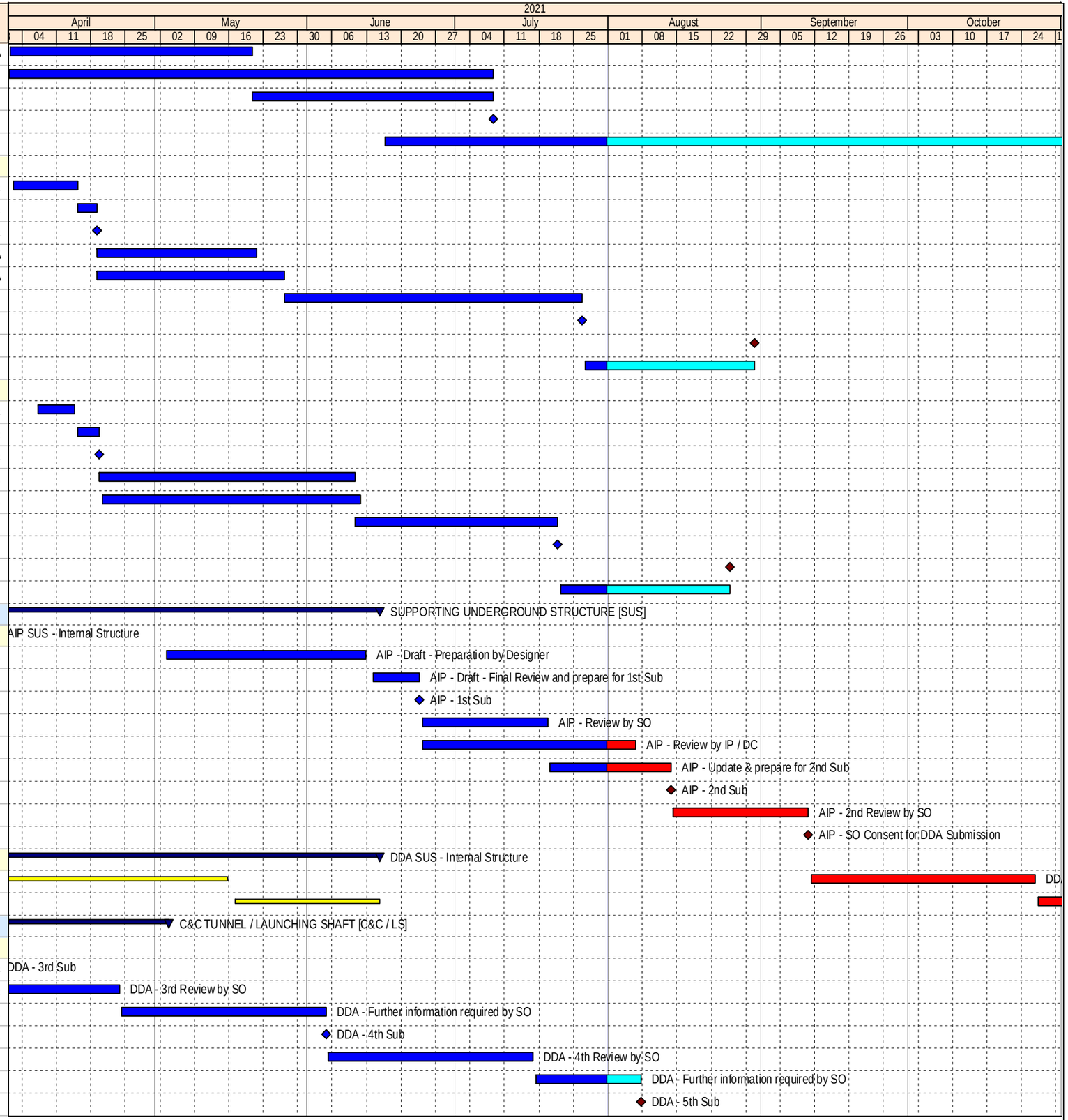
DDA - Review by SO	28	05-Apr-22	02-May-22	19-Apr-21 A	10-Jun-21 A
DDA - Review by IP / DC	28	05-Apr-22	02-May-22	20-Apr-21 A	11-Jun-21 A
DDA - Further information required by SO	12	03-May-22	17-May-22	10-Jun-21 A	21-Jul-21 A
DDA - 2nd Sub	0		17-May-22		21-Jul-21 A
DDA - SO Consent for Construction	0		21-Jun-22		25-Aug-21
DDA - 2nd Review by SO	35	18-May-22	21-Jun-22	22-Jul-21 A	25-Aug-21
SUPPORTING UNDERGROUND STRUCTURE [SUS]	205	03-Oct-20	15-Jun-21	03-May-21 A	23-Nov-21
AIP SUS - Internal Structure	145	03-Oct-20	29-Mar-21	03-May-21 A	10-Sep-21
AIP - Draft - Preparation by Designer	72	03-Oct-20	29-Dec-20	03-May-21 A	12-Jun-21 A
AIP - Draft - Final Review and prepare for 1st Sub	14	30-Dec-20	15-Jan-21	14-Jun-21 A	23-Jun-21 A
AIP - 1st Sub	0		15-Jan-21		23-Jun-21 A
AIP - Review by SO	28	16-Jan-21	12-Feb-21	24-Jun-21 A	19-Jul-21 A
AIP - Review by IP / DC	28	16-Jan-21	12-Feb-21	24-Jun-21 A	06-Aug-21
AIP - Update & prepare for 2nd Sub	12	16-Feb-21	01-Mar-21	20-Jul-21 A	13-Aug-21
AIP - 2nd Sub	0		01-Mar-21		13-Aug-21
AIP - 2nd Review by SO	28	02-Mar-21	29-Mar-21	14-Aug-21	10-Sep-21
AIP - SO Consent for DDA Submission	0		29-Mar-21		10-Sep-21
DDA SUS - Internal Structure	60	30-Mar-21	15-Jun-21	11-Sep-21	23-Nov-21
DDA - Draft - Preparation by Designer	36	30-Mar-21	15-May-21	11-Sep-21	26-Oct-21
DDA - Draft - Final Review and prepare for 1st Sub	24	17-May-21	15-Jun-21	27-Oct-21	23-Nov-21
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	115	08-Dec-20	03-May-21	17-Mar-21 A	18-Sep-21
DDA - C&C/LS Permanent Structure (C&C) (SG Scheme)	0	22-Dec-20	22-Dec-20	29-Mar-21 A	11-Sep-21
DDA - 3rd Sub	0				29-Mar-21 A
DDA - 3rd Review by SO	0			30-Mar-21 A	23-Apr-21 A
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A
DDA - 4th Sub	0				04-Jun-21 A
DDA - 4th Review by SO	0			05-Jun-21 A	16-Jul-21 A
DDA - Further information required by SO	0			17-Jul-21 A	07-Aug-21
DDA - 5th Sub	0				07-Aug-21



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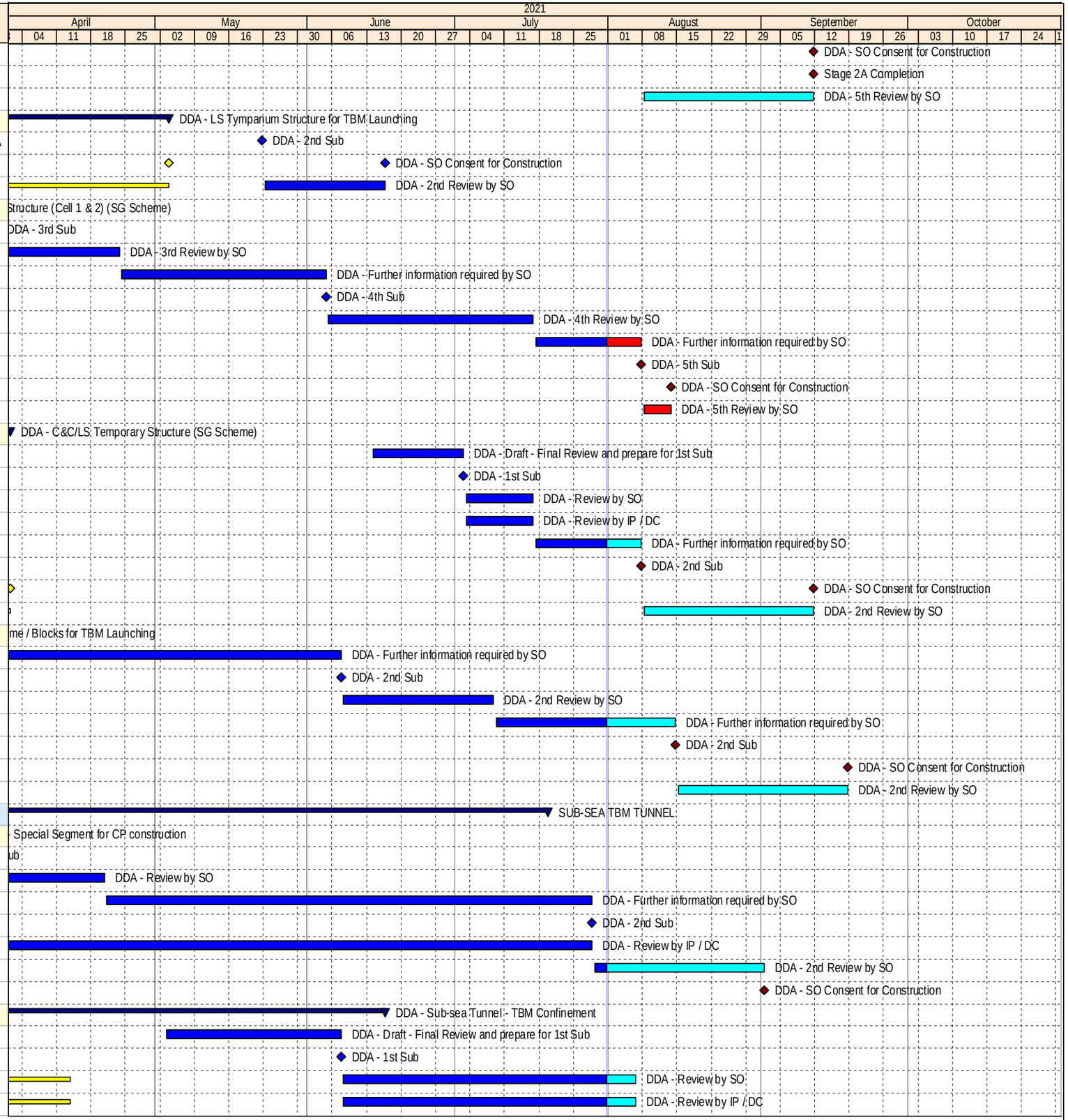
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - SO Consent for Construction	0		22-Dec-20		11-Sep-21
Stage 2A Completion	0		22-Dec-20		11-Sep-21
DDA - 5th Review by SO	0			08-Aug-21	11-Sep-21
DDA - LS Tympanum Structure for TBM Launching	25	29-Mar-21	03-May-21	22-May-21 A	16-Jun-21 A
DDA - 2nd Sub	0		29-Mar-21		22-May-21 A
DDA - SO Consent for Construction	0		03-May-21		16-Jun-21 A
DDA - 2nd Review by SO	35	30-Mar-21	03-May-21	23-May-21 A	16-Jun-21 A
DDA - C&C/LS Permanent Structure (Cell 1 & 2) (SG Scher	0	03-Mar-21	03-Mar-21	29-Mar-21 A	13-Aug-21
DDA - 3rd Sub	0				29-Mar-21 A
DDA - 3rd Review by SO	0			30-Mar-21 A	23-Apr-21 A
DDA - Further information required by SO	0			24-Apr-21 A	04-Jun-21 A
DDA - 4th Sub	0				04-Jun-21 A
DDA - 4th Review by SO	0			05-Jun-21 A	16-Jul-21 A
DDA - Further information required by SO	0			17-Jul-21 A	07-Aug-21
DDA - 5th Sub	0				07-Aug-21
DDA - SO Consent for Construction	0		03-Mar-21		13-Aug-21
DDA - 5th Review by SO	0			08-Aug-21	13-Aug-21
DDA - C&C/LS Temporary Structure (SG Scheme)	93	08-Dec-20	01-Apr-21	14-Jun-21 A	11-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	6	08-Dec-20	14-Dec-20	14-Jun-21 A	02-Jul-21 A
DDA - 1st Sub	0		14-Dec-20		02-Jul-21 A
DDA - Review by SO	28	15-Dec-20	11-Jan-21	03-Jul-21 A	16-Jul-21 A
DDA - Review by IP / DC	28	15-Dec-20	11-Jan-21	03-Jul-21 A	16-Jul-21 A
DDA - Further information required by SO	36	12-Jan-21	25-Feb-21	17-Jul-21 A	07-Aug-21
DDA - 2nd Sub	0		25-Feb-21		07-Aug-21
DDA - SO Consent for Construction	0		01-Apr-21		11-Sep-21
DDA - 2nd Review by SO	35	26-Feb-21	01-Apr-21	08-Aug-21	11-Sep-21
DDA - LS Thrust Frame / Blocks for TBM Launching	63	21-Dec-20	10-Mar-21	17-Mar-21 A	18-Sep-21
DDA - Further information required by SO	36	21-Dec-20	03-Feb-21	17-Mar-21 A	07-Jun-21 A
DDA - 2nd Sub	0		03-Feb-21		07-Jun-21 A
DDA - 2nd Review by SO	35	04-Feb-21	10-Mar-21	08-Jun-21 A	08-Jul-21 A
DDA - Further information required by SO	0			09-Jul-21 A	14-Aug-21
DDA - 2nd Sub	0				14-Aug-21
DDA - SO Consent for Construction	0		10-Mar-21		18-Sep-21
DDA - 2nd Review by SO	0			15-Aug-21	18-Sep-21
SUB-SEA TBM TUNNEL	233	03-Oct-20	19-Jul-21	09-Mar-21 A	15-Nov-21
DDA - Special Segment for CP construction	81	12-Dec-20	24-Mar-21	18-Mar-21 A	01-Sep-21
DDA - 1st Sub	0		12-Dec-20		18-Mar-21 A
DDA - Review by SO	28	13-Dec-20	09-Jan-21	20-Mar-21 A	20-Apr-21 A
DDA - Further information required by SO	30	11-Jan-21	17-Feb-21	21-Apr-21 A	28-Jul-21 A
DDA - 2nd Sub	0		17-Feb-21		28-Jul-21 A
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	20-Mar-21 A	28-Jul-21 A
DDA - 2nd Review by SO	35	18-Feb-21	24-Mar-21	29-Jul-21 A	01-Sep-21
DDA - SO Consent for Construction	0		24-Mar-21		01-Sep-21
DDA - Sub-sea Tunnel - TBM Confinement	96	17-Feb-21	16-Jun-21	03-May-21 A	08-Oct-21
DDA - Draft - Final Review and prepare for 1st Sub	24	17-Feb-21	16-Mar-21	03-May-21 A	07-Jun-21 A
DDA - 1st Sub	0		16-Mar-21		07-Jun-21 A
DDA - Review by SO	28	17-Mar-21	13-Apr-21	08-Jun-21 A	06-Aug-21
DDA - Review by IP / DC	28	17-Mar-21	13-Apr-21	08-Jun-21 A	06-Aug-21



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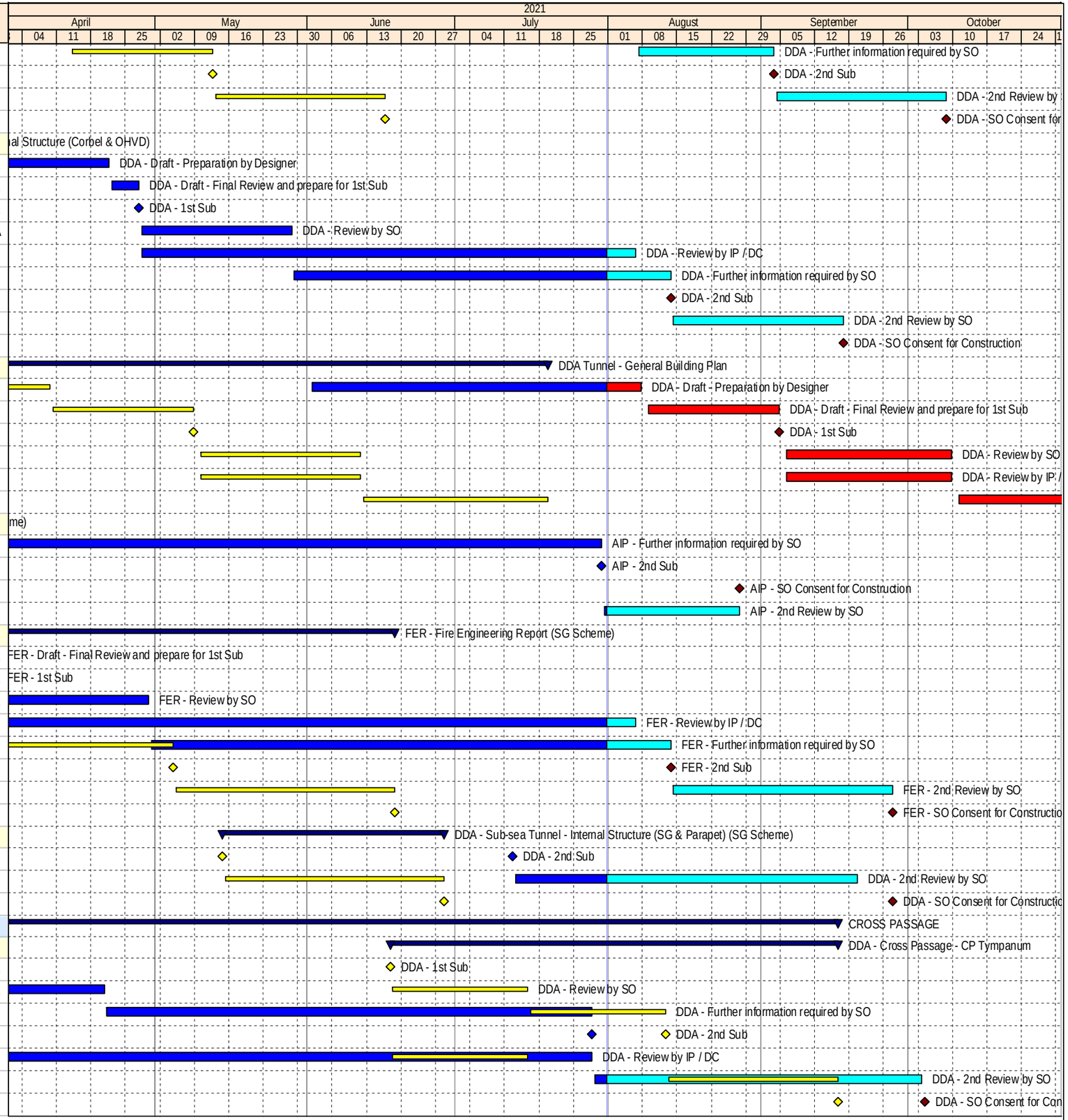
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - Further information required by SO	24	14-Apr-21	12-May-21	07-Aug-21	03-Sep-21
DDA - 2nd Sub	0		12-May-21		03-Sep-21
DDA - 2nd Review by SO	35	13-May-21	16-Jun-21	04-Sep-21	08-Oct-21
DDA - SO Consent for Construction	0		16-Jun-21		08-Oct-21
DDA - Sub-sea Tunnel - Internal Structure (Corbel & OHVD	121	03-Oct-20	01-Mar-21	22-Mar-21 A	17-Sep-21
DDA - Draft - Preparation by Designer	36	03-Oct-20	14-Nov-20	22-Mar-21 A	21-Apr-21 A
DDA - Draft - Final Review and prepare for 1st Sub	12	16-Nov-20	28-Nov-20	22-Apr-21 A	27-Apr-21 A
DDA - 1st Sub	0		28-Nov-20		27-Apr-21 A
DDA - Review by SO	28	29-Nov-20	26-Dec-20	28-Apr-21 A	28-May-21 A
DDA - Review by IP / DC	28	29-Nov-20	26-Dec-20	28-Apr-21 A	06-Aug-21
DDA - Further information required by SO	24	28-Dec-20	25-Jan-21	29-May-21 A	13-Aug-21
DDA - 2nd Sub	0		25-Jan-21		13-Aug-21
DDA - 2nd Review by SO	35	26-Jan-21	01-Mar-21	14-Aug-21	17-Sep-21
DDA - SO Consent for Construction	0		01-Mar-21		17-Sep-21
DDA Tunnel - General Building Plan	112	02-Mar-21	19-Jul-21	02-Jun-21 A	15-Nov-21
DDA - Draft - Preparation by Designer	30	02-Mar-21	09-Apr-21	02-Jun-21 A	07-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	24	10-Apr-21	08-May-21	09-Aug-21	04-Sep-21
DDA - 1st Sub	0		08-May-21		04-Sep-21
DDA - Review by SO	28	10-May-21	11-Jun-21	06-Sep-21	09-Oct-21
DDA - Review by IP / DC	28	10-May-21	11-Jun-21	06-Sep-21	09-Oct-21
DDA - Further information required by SO	30	12-Jun-21	19-Jul-21	11-Oct-21	15-Nov-21
AIP - Tunnel (Sub-sea & CKL Tunnel) - Spaceproofing (SG S	0	27-Jan-21	27-Jan-21	20-Mar-21 A	27-Aug-21
AIP - Further information required by SO	0			20-Mar-21 A	30-Jul-21 A
AIP - 2nd Sub	0				30-Jul-21 A
AIP - SO Consent for Construction	0		27-Jan-21		27-Aug-21
AIP - 2nd Review by SO	0			31-Jul-21 A	27-Aug-21
FER - Fire Engineering Report (SG Scheme)	135	31-Dec-20	18-Jun-21	09-Mar-21 A	27-Sep-21
FER - Draft - Final Review and prepare for 1st Sub	22	31-Dec-20	26-Jan-21	09-Mar-21 A	29-Mar-21 A
FER - 1st Sub	0		27-Jan-21		29-Mar-21 A
FER - Review by SO	35	28-Jan-21	03-Mar-21	30-Mar-21 A	29-Apr-21 A
FER - Review by IP / DC	28	28-Jan-21	24-Feb-21	30-Mar-21 A	06-Aug-21
FER - Further information required by SO	48	04-Mar-21	04-May-21	30-Apr-21 A	13-Aug-21
FER - 2nd Sub	0		04-May-21		13-Aug-21
FER - 2nd Review by SO	45	05-May-21	18-Jun-21	14-Aug-21	27-Sep-21
FER - SO Consent for Construction	0		18-Jun-21		27-Sep-21
DDA - Sub-sea Tunnel - Internal Structure (SG & Parapet) (	36	14-May-21	28-Jun-21	12-Jul-21 A	27-Sep-21
DDA - 2nd Sub	0		14-May-21		12-Jul-21 A
DDA - 2nd Review by SO	45	15-May-21	28-Jun-21	13-Jul-21 A	20-Sep-21
DDA - SO Consent for Construction	0		28-Jun-21		27-Sep-21
CROSS PASSAGE	284	03-Oct-20	16-Sep-21	18-Mar-21 A	01-Dec-21
DDA - Cross Passage - CP Tympanum	77	17-Jun-21	16-Sep-21	18-Mar-21 A	04-Oct-21
DDA - 1st Sub	0		17-Jun-21		18-Mar-21 A
DDA - Review by SO	28	18-Jun-21	15-Jul-21	20-Mar-21 A	20-Apr-21 A
DDA - Further information required by SO	24	16-Jul-21	12-Aug-21	21-Apr-21 A	28-Jul-21 A
DDA - 2nd Sub	0		12-Aug-21		28-Jul-21 A
DDA - Review by IP / DC	28	18-Jun-21	15-Jul-21	20-Mar-21 A	28-Jul-21 A
DDA - 2nd Review by SO	35	13-Aug-21	16-Sep-21	29-Jul-21 A	03-Oct-21
DDA - SO Consent for Construction	0		16-Sep-21		04-Oct-21



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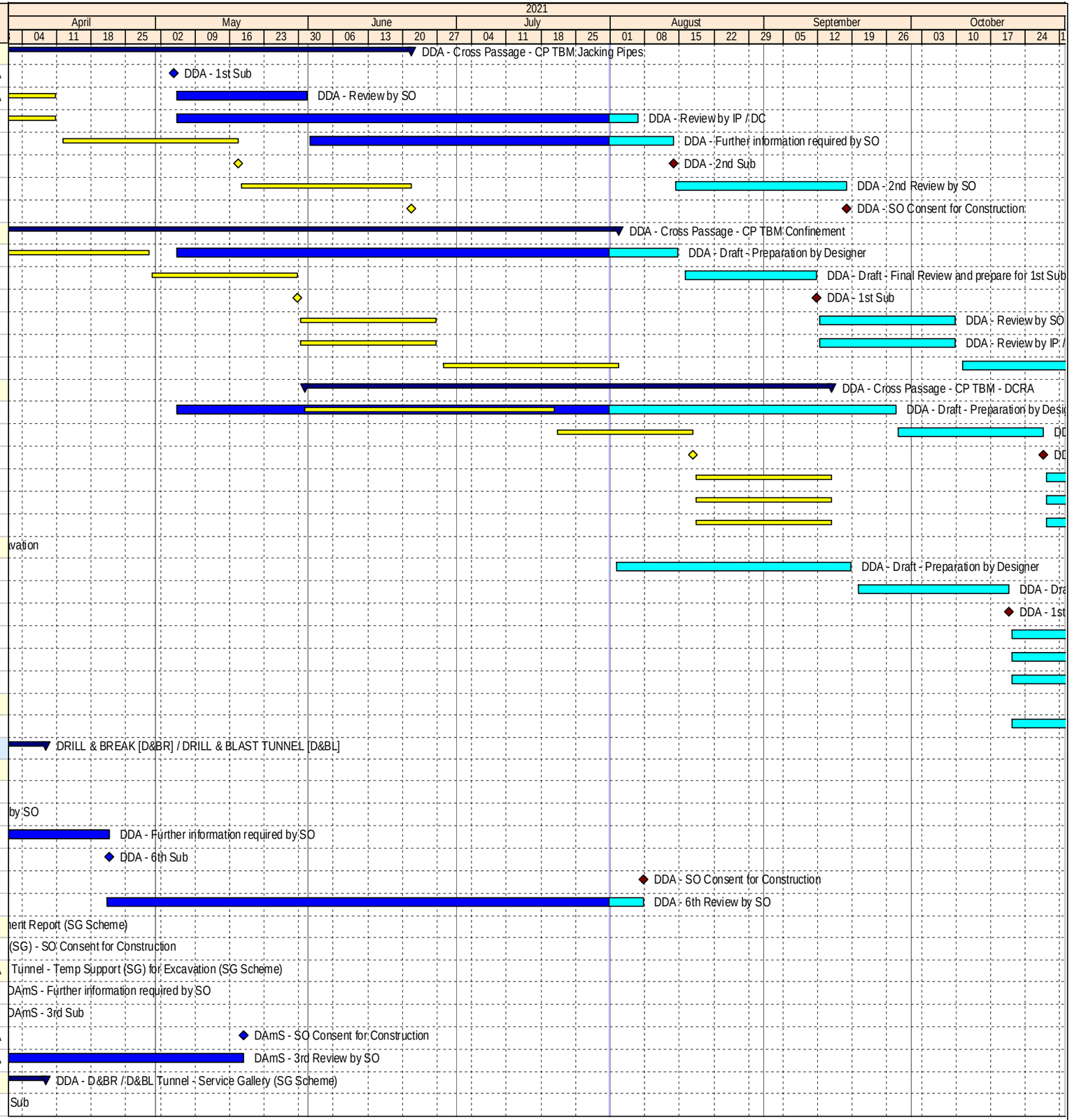
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - Cross Passage - CP TBM Jacking Pipes	78	13-Mar-21	21-Jun-21	04-May-21 A	17-Sep-21
DDA - 1st Sub	0		13-Mar-21		04-May-21 A
DDA - Review by SO	28	14-Mar-21	10-Apr-21	05-May-21 A	31-May-21 A
DDA - Review by IP / DC	28	14-Mar-21	10-Apr-21	05-May-21 A	06-Aug-21
DDA - Further information required by SO	30	12-Apr-21	17-May-21	01-Jun-21 A	13-Aug-21
DDA - 2nd Sub	0		17-May-21		13-Aug-21
DDA - 2nd Review by SO	35	18-May-21	21-Jun-21	14-Aug-21	17-Sep-21
DDA - SO Consent for Construction	0		21-Jun-21		17-Sep-21
DDA - Cross Passage - CP TBM Confinement	113	15-Mar-21	02-Aug-21	05-May-21 A	15-Nov-21
DDA - Draft - Preparation by Designer	36	15-Mar-21	29-Apr-21	05-May-21 A	14-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Apr-21	29-May-21	16-Aug-21	11-Sep-21
DDA - 1st Sub	0		29-May-21		11-Sep-21
DDA - Review by SO	28	30-May-21	26-Jun-21	12-Sep-21	09-Oct-21
DDA - Review by IP / DC	28	30-May-21	26-Jun-21	12-Sep-21	09-Oct-21
DDA - Further information required by SO	30	28-Jun-21	02-Aug-21	11-Oct-21	15-Nov-21
DDA - Cross Passage - CP TBM - DCRA	90	31-May-21	14-Sep-21	05-May-21 A	24-Nov-21
DDA - Draft - Preparation by Designer	42	31-May-21	20-Jul-21	05-May-21 A	27-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	24	21-Jul-21	17-Aug-21	28-Sep-21	27-Oct-21
DDA - 1st Sub	0		17-Aug-21		27-Oct-21
DDA - Review by SO	28	18-Aug-21	14-Sep-21	28-Oct-21	24-Nov-21
DDA - Review by GEO via SO	28	18-Aug-21	14-Sep-21	28-Oct-21	24-Nov-21
DDA - Review by IP / DC	28	18-Aug-21	14-Sep-21	28-Oct-21	24-Nov-21
DDA - Cross Passage - Traditional (CP28, 29 & 30) - Temp	87	03-Oct-20	16-Jan-21	02-Aug-21	17-Nov-21
DDA - Draft - Preparation by Designer	42	03-Oct-20	21-Nov-20	02-Aug-21	18-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	24	23-Nov-20	19-Dec-20	20-Sep-21	20-Oct-21
DDA - 1st Sub	0		19-Dec-20		20-Oct-21
DDA - Review by SO	28	20-Dec-20	16-Jan-21	21-Oct-21	17-Nov-21
DDA - Review by GEO via SO	28	20-Dec-20	16-Jan-21	21-Oct-21	17-Nov-21
DDA - Review by IP / DC	28	20-Dec-20	16-Jan-21	21-Oct-21	17-Nov-21
DDA - Cross Passage - Traditional - Lining Structure	36	21-Dec-20	03-Feb-21	21-Oct-21	01-Dec-21
DDA - Draft - Preparation by Designer	36	21-Dec-20	03-Feb-21	21-Oct-21	01-Dec-21
DRILL & BREAK [D&BR] / DRILL & BLAST TUNNEL [D&BL]	144	09-Oct-20	08-Apr-21	03-Mar-21 A	07-Aug-21
DDA - D&BR / D&BL Tunnel - Lining & Internal Structure	0	09-Oct-20	09-Oct-20	03-Mar-21 A	07-Aug-21
DDA - 5th Sub	0				03-Mar-21 A
DDA - 5th Review by SO	0			04-Mar-21 A	12-Mar-21 A
DDA - Further information required by SO	0			13-Mar-21 A	21-Apr-21 A
DDA - 6th Sub	0				21-Apr-21 A
DDA - SO Consent for Construction	0		09-Oct-20		07-Aug-21
DDA - 6th Review by SO	0			21-Apr-21 A	07-Aug-21
DDA - Construction Blasting Assessment Report (SG Sch	0	22-Feb-21	22-Feb-21	23-Mar-21 A	23-Mar-21 A
CBAR (SG) - SO Consent for Construction	0		22-Feb-21		23-Mar-21 A
DAmS - D&BR / D&BL Tunnel - Temp Support (SG) for Exc	0	08-Mar-21	08-Mar-21	24-Mar-21 A	18-May-21 A
DAmS - Further information required by SO	0			24-Mar-21 A	29-Mar-21 A
DAmS - 3rd Sub	0				29-Mar-21 A
DAmS - SO Consent for Construction	0		08-Mar-21		18-May-21 A
DAmS - 3rd Review by SO	0			29-Mar-21 A	18-May-21 A
DDA - D&BR / D&BL Tunnel - Service Gallery (SG Scheme)	32	25-Feb-21	08-Apr-21	19-Mar-21 A	15-Jul-21 A
DDA - 2nd Sub	0		25-Feb-21		19-Mar-21 A



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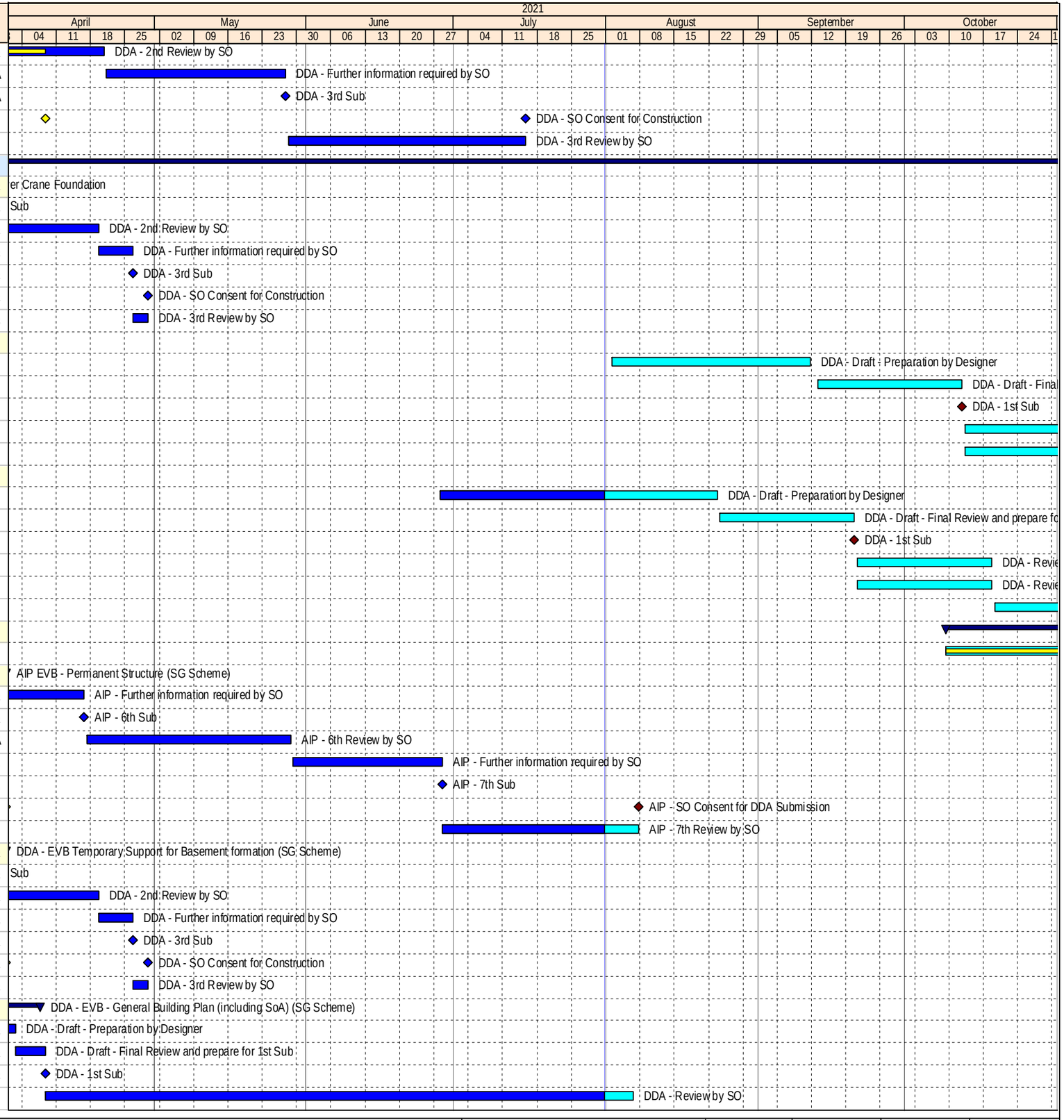
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - 2nd Review by SO	42	26-Feb-21	08-Apr-21	20-Mar-21 A	20-Apr-21 A
DDA - Further information required by SO	0			21-Apr-21 A	27-May-21 A
DDA - 3rd Sub	0				27-May-21 A
DDA - SO Consent for Construction	0		08-Apr-21		15-Jul-21 A
DDA - 3rd Review by SO	0			28-May-21 A	15-Jul-21 A
EAST VENTILATION BUILDING [EVB]	325	03-Oct-20	06-Nov-21	08-Mar-21 A	15-Nov-21
DDA - EVB - Tower Crane Foundation	27	06-Feb-21	13-Mar-21	19-Mar-21 A	29-Apr-21 A
DDA - 2nd Sub	0		06-Feb-21		19-Mar-21 A
DDA - 2nd Review by SO	35	07-Feb-21	13-Mar-21	20-Mar-21 A	19-Apr-21 A
DDA - Further information required by SO	0			19-Apr-21 A	26-Apr-21 A
DDA - 3rd Sub	0			26-Apr-21 A	
DDA - SO Consent for Construction	0		13-Mar-21		29-Apr-21 A
DDA - 3rd Review by SO	0			26-Apr-21 A	29-Apr-21 A
DDA - EVB - ABWF	81	03-Oct-20	09-Jan-21	02-Aug-21	09-Nov-21
DDA - Draft - Preparation by Designer	36	03-Oct-20	14-Nov-20	02-Aug-21	11-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	24	16-Nov-20	12-Dec-20	13-Sep-21	12-Oct-21
DDA - 1st Sub	0		12-Dec-20		12-Oct-21
DDA - Review by SO	28	13-Dec-20	09-Jan-21	13-Oct-21	09-Nov-21
DDA - Review by IP / DC	28	13-Dec-20	09-Jan-21	13-Oct-21	09-Nov-21
DDA - EVB - Aesthetic Design	119	03-Oct-20	26-Feb-21	28-Jun-21 A	15-Nov-21
DDA - Draft - Preparation by Designer	48	03-Oct-20	28-Nov-20	28-Jun-21 A	23-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	24	30-Nov-20	29-Dec-20	24-Aug-21	20-Sep-21
DDA - 1st Sub	0		29-Dec-20		20-Sep-21
DDA - Review by SO	28	30-Dec-20	26-Jan-21	21-Sep-21	18-Oct-21
DDA - Review by IP / DC	28	30-Dec-20	26-Jan-21	21-Sep-21	18-Oct-21
DDA - Further information required by SO	24	27-Jan-21	26-Feb-21	19-Oct-21	15-Nov-21
AIP Foot Bridge FT-03 [NEW]	24	09-Oct-21	06-Nov-21	09-Oct-21	06-Nov-21
AIP - Draft - Preparation by Designer	24	09-Oct-21	06-Nov-21	09-Oct-21*	06-Nov-21
AIP EVB - Permanent Structure (SG Scheme)	0	31-Mar-21	31-Mar-21	18-Mar-21 A	07-Aug-21
AIP - Further information required by SO	0			18-Mar-21 A	16-Apr-21 A
AIP - 6th Sub	0				16-Apr-21 A
AIP - 6th Review by SO	0			17-Apr-21 A	28-May-21 A
AIP - Further information required by SO	0			29-May-21 A	28-Jun-21 A
AIP - 7th Sub	0				28-Jun-21 A
AIP - SO Consent for DDA Submission	0		31-Mar-21		07-Aug-21
AIP - 7th Review by SO	0			28-Jun-21 A	07-Aug-21
DDA - EVB Temporary Support for Basement formation (S	30	24-Feb-21	31-Mar-21	19-Mar-21 A	29-Apr-21 A
DDA - 2nd Sub	0		24-Feb-21		19-Mar-21 A
DDA - 2nd Review by SO	35	25-Feb-21	31-Mar-21	19-Mar-21 A	19-Apr-21 A
DDA - Further information required by SO	0			19-Apr-21 A	26-Apr-21 A
DDA - 3rd Sub	0			26-Apr-21 A	26-Apr-21 A
DDA - SO Consent for Construction	0		31-Mar-21		29-Apr-21 A
DDA - 3rd Review by SO	0			26-Apr-21 A	29-Apr-21 A
DDA - EVB - General Building Plan (including SoA) (SG Sch	125	02-Nov-20	07-Apr-21	08-Mar-21 A	08-Oct-21
DDA - Draft - Preparation by Designer	36	02-Nov-20	12-Dec-20	08-Mar-21 A	02-Apr-21 A
DDA - Draft - Final Review and prepare for 1st Sub	14	14-Dec-20	31-Dec-20	02-Apr-21 A	08-Apr-21 A
DDA - 1st Sub	0		02-Jan-21		08-Apr-21 A
DDA - Review by SO	28	03-Jan-21	30-Jan-21	08-Apr-21 A	06-Aug-21



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme (Jul-21)

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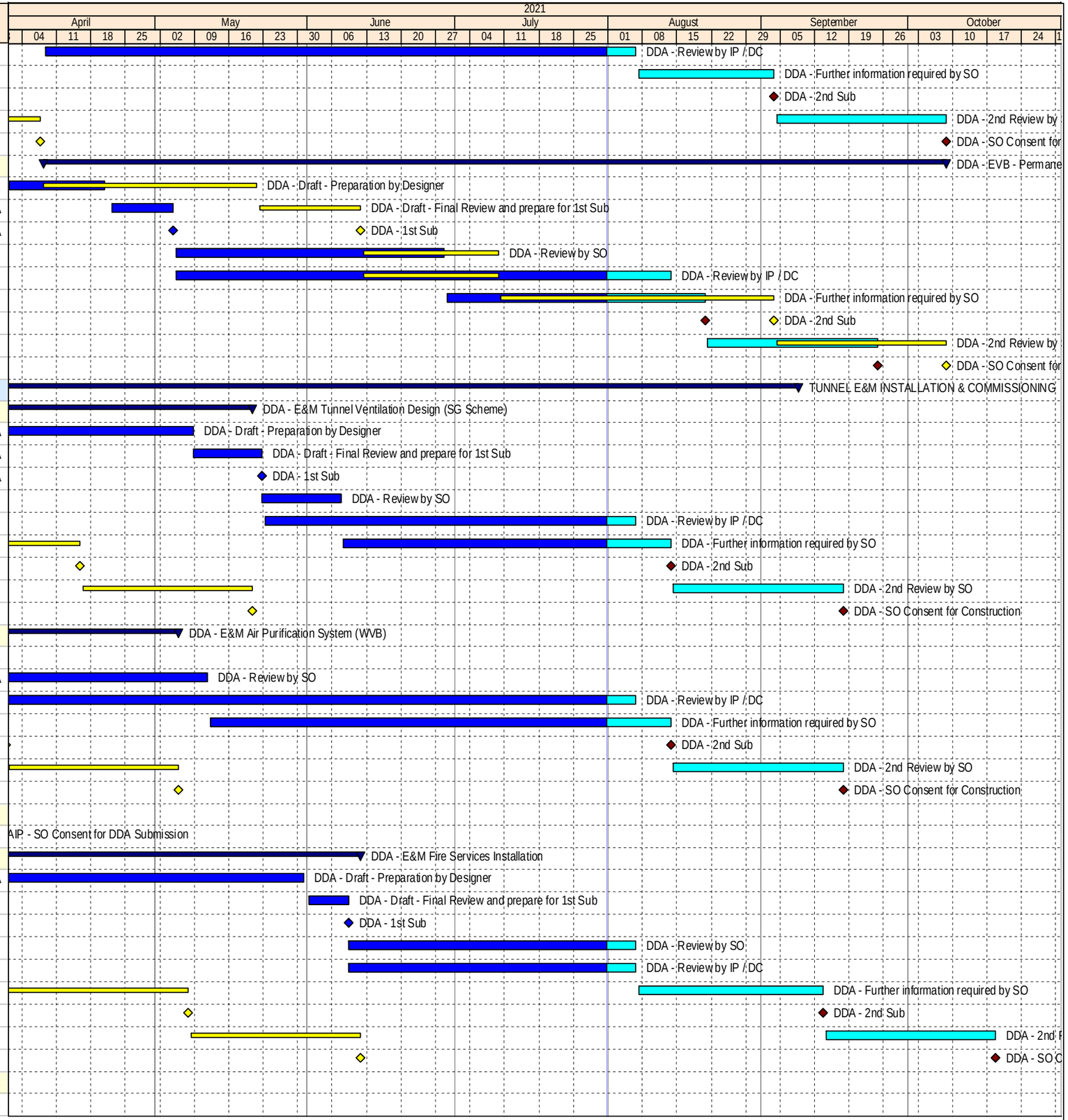
17-Jul-20	01V2	SPa/LLo	WYu
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - Review by IP / DC	28	03-Jan-21	30-Jan-21	08-Apr-21 A	06-Aug-21
DDA - Further information required by SO	24	01-Feb-21	03-Mar-21	07-Aug-21	03-Sep-21
DDA - 2nd Sub	0		03-Mar-21		03-Sep-21
DDA - 2nd Review by SO	35	04-Mar-21	07-Apr-21	04-Sep-21	08-Oct-21
DDA - SO Consent for Construction	0		07-Apr-21		08-Oct-21
DDA - EVB - Permanent Structure (SG Scheme)	152	08-Apr-21	08-Oct-21	01-Apr-21 A	24-Sep-21
DDA - Draft - Preparation by Designer	36	08-Apr-21	21-May-21	01-Apr-21 A	20-Apr-21 A
DDA - Draft - Final Review and prepare for 1st Sub	18	22-May-21	11-Jun-21	22-Apr-21 A	04-May-21 A
DDA - 1st Sub	0		11-Jun-21		04-May-21 A
DDA - Review by SO	28	12-Jun-21	09-Jul-21	05-May-21 A	28-Jun-21 A
DDA - Review by IP / DC	28	12-Jun-21	09-Jul-21	05-May-21 A	13-Aug-21
DDA - Further information required by SO	48	10-Jul-21	03-Sep-21	29-Jun-21 A	20-Aug-21
DDA - 2nd Sub	0		03-Sep-21		20-Aug-21
DDA - 2nd Review by SO	35	04-Sep-21	08-Oct-21	21-Aug-21	24-Sep-21
DDA - SO Consent for Construction	0		08-Oct-21		24-Sep-21
TUNNEL E&M INSTALLATION & COMMISSIONING	256	29-Oct-20	08-Sep-21	08-Mar-21 A	12-Nov-21
DDA - E&M Tunnel Ventilation Design (SG Scheme)	163	29-Oct-20	20-May-21	30-Mar-21 A	17-Sep-21
DDA - Draft - Preparation by Designer	48	29-Oct-20	23-Dec-20	30-Mar-21 A	08-May-21 A
DDA - Draft - Final Review and prepare for 1st Sub	24	24-Dec-20	23-Jan-21	08-May-21 A	22-May-21 A
DDA - 1st Sub	0		23-Jan-21		22-May-21 A
DDA - Review by SO	28	24-Jan-21	20-Feb-21	22-May-21 A	07-Jun-21 A
DDA - Review by IP / DC	28	24-Jan-21	20-Feb-21	23-May-21 A	06-Aug-21
DDA - Further information required by SO	42	22-Feb-21	15-Apr-21	08-Jun-21 A	13-Aug-21
DDA - 2nd Sub	0		15-Apr-21		13-Aug-21
DDA - 2nd Review by SO	35	16-Apr-21	20-May-21	14-Aug-21	17-Sep-21
DDA - SO Consent for Construction	0		20-May-21		17-Sep-21
DDA - E&M Air Purification System (WVB)	91	09-Jan-21	05-May-21	15-Mar-21 A	17-Sep-21
DDA - 1st Sub	0		09-Jan-21		15-Mar-21 A
DDA - Review by SO	28	10-Jan-21	06-Feb-21	15-Mar-21 A	11-May-21 A
DDA - Review by IP / DC	28	10-Jan-21	06-Feb-21	15-Mar-21 A	06-Aug-21
DDA - Further information required by SO	42	08-Feb-21	31-Mar-21	12-May-21 A	13-Aug-21
DDA - 2nd Sub	0		31-Mar-21		13-Aug-21
DDA - 2nd Review by SO	35	01-Apr-21	05-May-21	14-Aug-21	17-Sep-21
DDA - SO Consent for Construction	0		05-May-21		17-Sep-21
AIP - E&M Fire Services Installation	0	28-Dec-20	28-Dec-20	29-Mar-21 A	29-Mar-21 A
AIP - SO Consent for DDA Submission	0		28-Dec-20		29-Mar-21 A
DDA - E&M Fire Services Installation	133	28-Dec-20	11-Jun-21	30-Mar-21 A	18-Oct-21
DDA - Draft - Preparation by Designer	30	28-Dec-20	01-Feb-21	30-Mar-21 A	31-May-21 A
DDA - Draft - Final Review and prepare for 1st Sub	18	02-Feb-21	25-Feb-21	01-Jun-21 A	09-Jun-21 A
DDA - 1st Sub	0		25-Feb-21		09-Jun-21 A
DDA - Review by SO	28	26-Feb-21	25-Mar-21	09-Jun-21 A	06-Aug-21
DDA - Review by IP / DC	28	26-Feb-21	25-Mar-21	09-Jun-21 A	06-Aug-21
DDA - Further information required by SO	32	26-Mar-21	07-May-21	07-Aug-21	13-Sep-21
DDA - 2nd Sub	0		07-May-21		13-Sep-21
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	14-Sep-21	18-Oct-21
DDA - SO Consent for Construction	0		11-Jun-21		18-Oct-21
AIP - E&M MVAC	24	18-Nov-20	16-Dec-20	08-Mar-21 A	08-Apr-21 A
AIP - 2nd Sub	0		18-Nov-20		08-Mar-21 A



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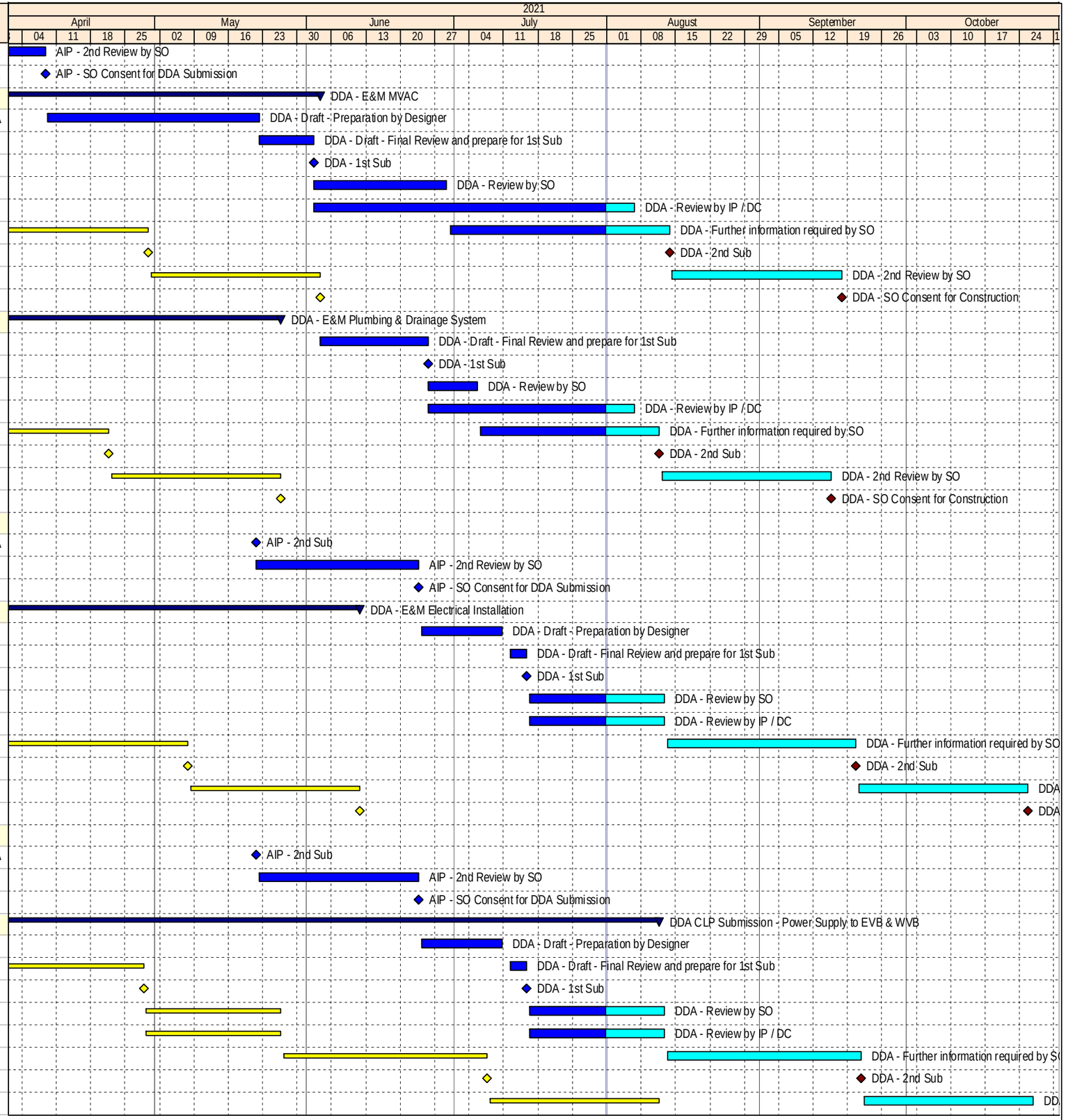
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
AIP - 2nd Review by SO	28	19-Nov-20	16-Dec-20	08-Mar-21 A	08-Apr-21 A
AIP - SO Consent for DDA Submission	0		16-Dec-20		08-Apr-21 A
DDA - E&M MVAC	133	17-Dec-20	03-Jun-21	09-Apr-21 A	17-Sep-21
DDA - Draft - Preparation by Designer	32	17-Dec-20	26-Jan-21	09-Apr-21 A	22-May-21 A
DDA - Draft - Final Review and prepare for 1st Sub	17	27-Jan-21	18-Feb-21	22-May-21 A	02-Jun-21 A
DDA - 1st Sub	0		18-Feb-21		02-Jun-21 A
DDA - Review by SO	28	19-Feb-21	18-Mar-21	02-Jun-21 A	29-Jun-21 A
DDA - Review by IP / DC	28	19-Feb-21	18-Mar-21	02-Jun-21 A	06-Aug-21
DDA - Further information required by SO	32	19-Mar-21	29-Apr-21	30-Jun-21 A	13-Aug-21
DDA - 2nd Sub	0		29-Apr-21		13-Aug-21
DDA - 2nd Review by SO	35	30-Apr-21	03-Jun-21	14-Aug-21	17-Sep-21
DDA - SO Consent for Construction	0		03-Jun-21		17-Sep-21
DDA - E&M Plumbing & Drainage System	98	22-Jan-21	26-May-21	03-Jun-21 A	15-Sep-21
DDA - Draft - Final Review and prepare for 1st Sub	17	22-Jan-21	10-Feb-21	03-Jun-21 A	25-Jun-21 A
DDA - 1st Sub	0		10-Feb-21		25-Jun-21 A
DDA - Review by SO	28	11-Feb-21	10-Mar-21	25-Jun-21 A	05-Jul-21 A
DDA - Review by IP / DC	28	11-Feb-21	10-Mar-21	25-Jun-21 A	06-Aug-21
DDA - Further information required by SO	32	11-Mar-21	21-Apr-21	06-Jul-21 A	11-Aug-21
DDA - 2nd Sub	0		21-Apr-21		11-Aug-21
DDA - 2nd Review by SO	35	22-Apr-21	26-May-21	12-Aug-21	15-Sep-21
DDA - SO Consent for Construction	0		26-May-21		15-Sep-21
AIP - E&M Electrical Installation	21	04-Dec-20	02-Jan-21	21-May-21 A	23-Jun-21 A
AIP - 2nd Sub	0		04-Dec-20		21-May-21 A
AIP - 2nd Review by SO	28	05-Dec-20	01-Jan-21	21-May-21 A	23-Jun-21 A
AIP - SO Consent for DDA Submission	0		02-Jan-21		23-Jun-21 A
DDA - E&M Electrical Installation	129	02-Jan-21	11-Jun-21	24-Jun-21 A	25-Oct-21
DDA - Draft - Preparation by Designer	25	02-Jan-21	30-Jan-21	24-Jun-21 A	10-Jul-21 A
DDA - Draft - Final Review and prepare for 1st Sub	18	01-Feb-21	24-Feb-21	12-Jul-21 A	15-Jul-21 A
DDA - 1st Sub	0		24-Feb-21		15-Jul-21 A
DDA - Review by SO	28	25-Feb-21	24-Mar-21	16-Jul-21 A	12-Aug-21
DDA - Review by IP / DC	28	25-Feb-21	24-Mar-21	16-Jul-21 A	12-Aug-21
DDA - Further information required by SO	33	25-Mar-21	07-May-21	13-Aug-21	20-Sep-21
DDA - 2nd Sub	0		07-May-21		20-Sep-21
DDA - 2nd Review by SO	35	08-May-21	11-Jun-21	21-Sep-21	25-Oct-21
DDA - SO Consent for Construction	0		11-Jun-21		25-Oct-21
AIP CLP Submission - Power Supply to EVB & WVB	23	29-Dec-20	26-Jan-21	21-May-21 A	23-Jun-21 A
AIP - 2nd Sub	0		29-Dec-20		21-May-21 A
AIP - 2nd Review by SO	28	30-Dec-20	26-Jan-21	22-May-21 A	23-Jun-21 A
AIP - SO Consent for DDA Submission	0		26-Jan-21		23-Jun-21 A
DDA CLP Submission - Power Supply to EVB & WVB	158	27-Jan-21	11-Aug-21	24-Jun-21 A	26-Oct-21
DDA - Draft - Preparation by Designer	48	27-Jan-21	26-Mar-21	24-Jun-21 A	10-Jul-21 A
DDA - Draft - Final Review and prepare for 1st Sub	24	27-Mar-21	28-Apr-21	12-Jul-21 A	15-Jul-21 A
DDA - 1st Sub	0		28-Apr-21		15-Jul-21 A
DDA - Review by SO	28	29-Apr-21	26-May-21	16-Jul-21 A	12-Aug-21
DDA - Review by IP / DC	28	29-Apr-21	26-May-21	16-Jul-21 A	12-Aug-21
DDA - Further information required by SO	34	27-May-21	07-Jul-21	13-Aug-21	21-Sep-21
DDA - 2nd Sub	0		07-Jul-21		21-Sep-21
DDA - 2nd Review by SO	35	08-Jul-21	11-Aug-21	22-Sep-21	26-Oct-21



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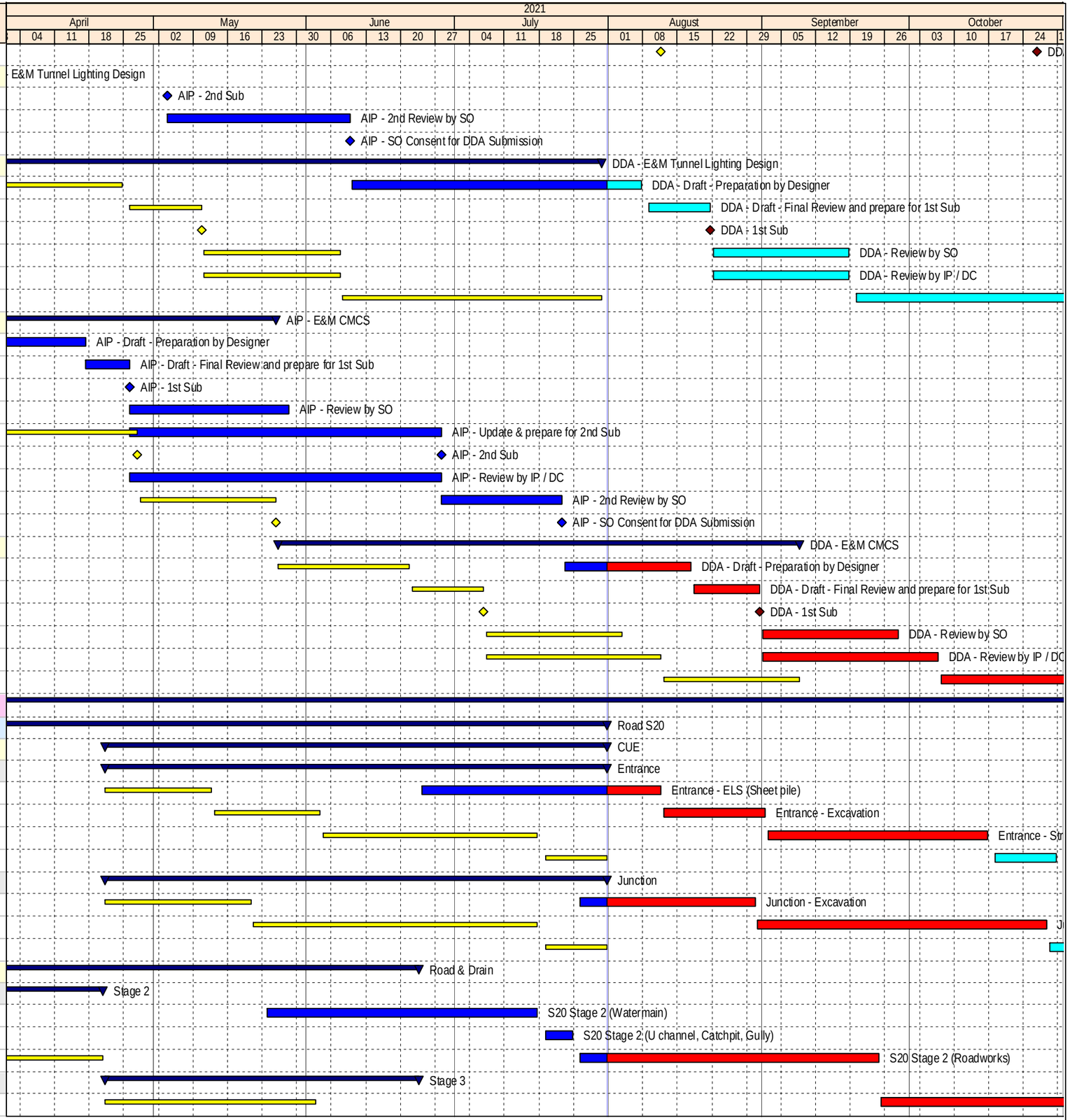
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
DDA - SO Consent for Construction	0		11-Aug-21		26-Oct-21
AIP - E&M Tunnel Lighting Design	24	25-Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A
AIP - 2nd Sub	0		25-Feb-21		03-May-21 A
AIP - 2nd Review by SO	28	26-Feb-21	25-Mar-21	03-May-21 A	09-Jun-21 A
AIP - SO Consent for DDA Submission	0		25-Mar-21		09-Jun-21 A
DDA - E&M Tunnel Lighting Design	101	26-Mar-21	30-Jul-21	10-Jun-21 A	12-Nov-21
DDA - Draft - Preparation by Designer	22	26-Mar-21	24-Apr-21	10-Jun-21 A	07-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	12	26-Apr-21	10-May-21	09-Aug-21	21-Aug-21
DDA - 1st Sub	0		10-May-21		21-Aug-21
DDA - Review by SO	28	11-May-21	07-Jun-21	22-Aug-21	18-Sep-21
DDA - Review by IP / DC	28	11-May-21	07-Jun-21	22-Aug-21	18-Sep-21
DDA - Further information required by SO	44	08-Jun-21	30-Jul-21	20-Sep-21	12-Nov-21
AIP - E&M CMCS	137	03-Dec-20	25-May-21	16-Mar-21 A	22-Jul-21 A
AIP - Draft - Preparation by Designer	41	03-Dec-20	22-Jan-21	16-Mar-21 A	17-Apr-21 A
AIP - Draft - Final Review and prepare for 1st Sub	18	23-Jan-21	16-Feb-21	17-Apr-21 A	26-Apr-21 A
AIP - 1st Sub	0		16-Feb-21		26-Apr-21 A
AIP - Review by SO	28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-May-21 A
AIP - Update & prepare for 2nd Sub	32	17-Mar-21	27-Apr-21	26-Apr-21 A	28-Jun-21 A
AIP - 2nd Sub	0		27-Apr-21		28-Jun-21 A
AIP - Review by IP / DC	28	17-Feb-21	16-Mar-21	26-Apr-21 A	28-Jun-21 A
AIP - 2nd Review by SO	28	28-Apr-21	25-May-21	28-Jun-21 A	22-Jul-21 A
AIP - SO Consent for DDA Submission	0		25-May-21		22-Jul-21 A
DDA - E&M CMCS	89	26-May-21	08-Sep-21	23-Jul-21 A	04-Nov-21
DDA - Draft - Preparation by Designer	22	26-May-21	21-Jun-21	23-Jul-21 A	17-Aug-21
DDA - Draft - Final Review and prepare for 1st Sub	12	22-Jun-21	06-Jul-21	18-Aug-21	31-Aug-21
DDA - 1st Sub	0		06-Jul-21		31-Aug-21
DDA - Review by SO	28	07-Jul-21	03-Aug-21	01-Sep-21	28-Sep-21
DDA - Review by IP / DC	36	07-Jul-21	11-Aug-21	01-Sep-21	06-Oct-21
DDA - Further information required by SO	24	12-Aug-21	08-Sep-21	07-Oct-21	04-Nov-21
SOUTH APRON EXTERNAL WORKS	272	22-Dec-20	23-Nov-21	01-Mar-21 A	31-Dec-21
Road S20	133	18-Feb-21	31-Jul-21	24-May-21 A	26-Nov-21
CUE	84	21-Apr-21	31-Jul-21	24-Jun-21 A	11-Nov-21
Entrance	84	21-Apr-21	31-Jul-21	24-Jun-21 A	30-Oct-21
Entrance - ELS (Sheet pile)	18	21-Apr-21	12-May-21	24-Jun-21 A	11-Aug-21
Entrance - Excavation	18	13-May-21	03-Jun-21	12-Aug-21	01-Sep-21
Entrance - Structure	36	04-Jun-21	17-Jul-21	02-Sep-21	16-Oct-21
Entrance- Backfill	12	19-Jul-21	31-Jul-21	18-Oct-21	30-Oct-21
Junction	84	21-Apr-21	31-Jul-21	26-Jul-21 A	11-Nov-21
Junction - Excavation	24	21-Apr-21	20-May-21	26-Jul-21 A	30-Aug-21
Junction - Structure	48	21-May-21	17-Jul-21	31-Aug-21	28-Oct-21
Junction - Backfill	12	19-Jul-21	31-Jul-21	29-Oct-21	11-Nov-21
Road & Drain	101	18-Feb-21	23-Jun-21	24-May-21 A	26-Nov-21
Stage 2	49	18-Feb-21	20-Apr-21	24-May-21 A	24-Sep-21
S20 Stage 2 (Watermain)	5	18-Feb-21	23-Feb-21	24-May-21 A	17-Jul-21 A
S20 Stage 2 (U channel, Catchpit, Gully)	22	24-Feb-21	20-Mar-21	19-Jul-21 A	24-Jul-21 A
S20 Stage 2 (Roadworks)	22	22-Mar-21	20-Apr-21	26-Jul-21 A	24-Sep-21
Stage 3	52	21-Apr-21	23-Jun-21	25-Sep-21	26-Nov-21
S20 Stage 3 ELS	35	21-Apr-21	02-Jun-21	25-Sep-21	06-Nov-21



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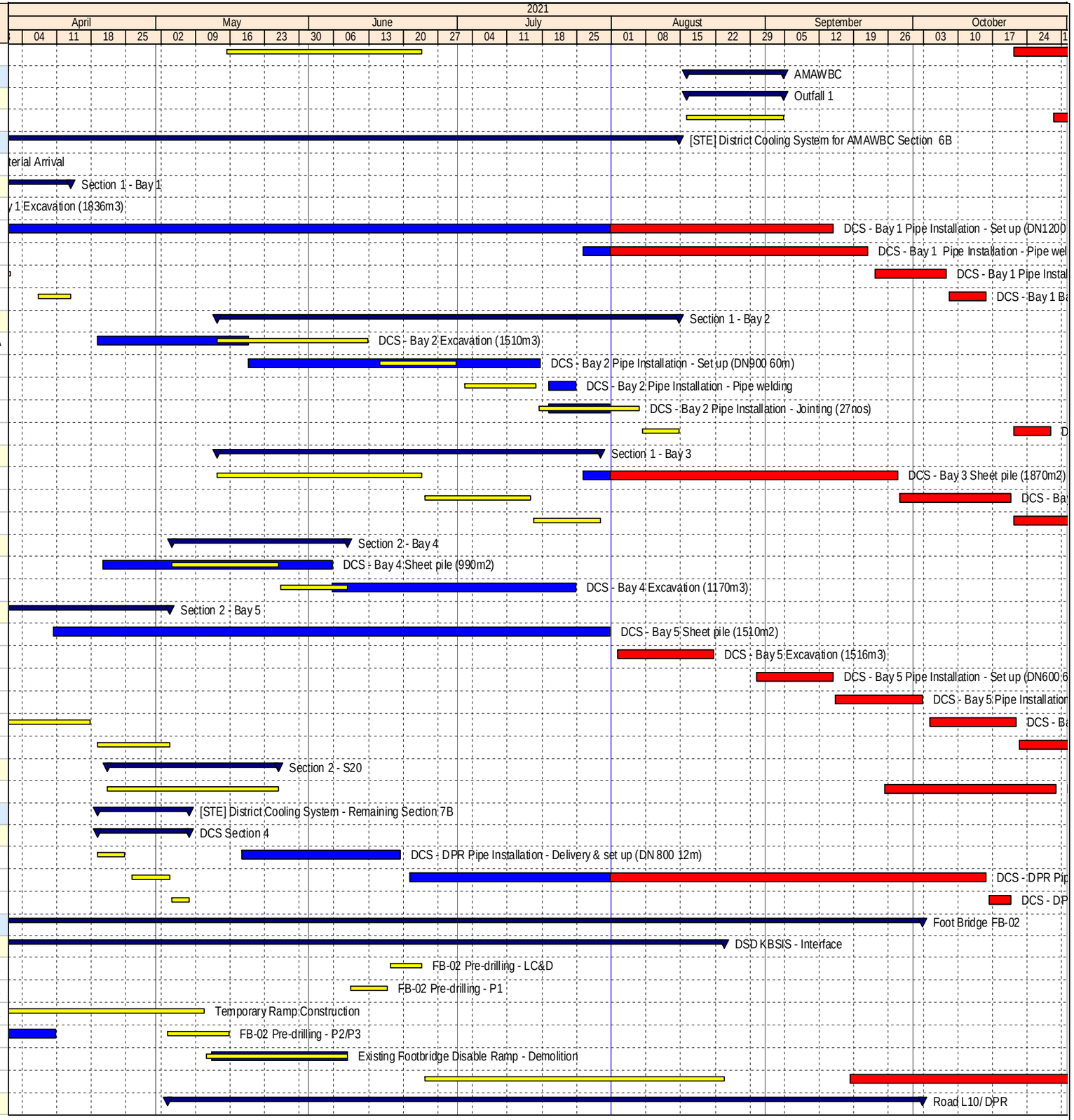
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
S20 Stage 3 (Sewerage)	32	15-May-21	23-Jun-21	21-Oct-21	26-Nov-21
AMAWBC	18	16-Aug-21	04-Sep-21	29-Oct-21	18-Nov-21
Outfall 1	18	16-Aug-21	04-Sep-21	29-Oct-21	18-Nov-21
Outfall 1 Excavation & Blinding	18	16-Aug-21	04-Sep-21	29-Oct-21	18-Nov-21
[STE] District Cooling System for AMAWBC Section 6B	189	22-Dec-20	14-Aug-21	08-Mar-21 A	04-Nov-21
DCS - Material Arrival	0	01-Feb-21		20-Mar-21 A	
Section 1 - Bay 1	55	01-Feb-21	13-Apr-21	08-Mar-21 A	15-Oct-21
DCS - Bay 1 Excavation (1836m3)	12	01-Feb-21	17-Feb-21	08-Mar-21 A	20-Mar-21 A
DCS - Bay 1 Pipe Installation - Set up (DN1200 30m)	12	20-Feb-21	05-Mar-21	22-Mar-21 A	14-Sep-21
DCS - Bay 1 Pipe Installation - Pipe welding	11	06-Mar-21	18-Mar-21	26-Jul-21 A	21-Sep-21
DCS - Bay 1 Pipe Installation - Jointing (12nos)	12	19-Mar-21	01-Apr-21	23-Sep-21	07-Oct-21
DCS - Bay 1 Backfill	6	07-Apr-21	13-Apr-21	08-Oct-21	15-Oct-21
Section 1 - Bay 2	78	13-May-21	14-Aug-21	19-Apr-21 A	28-Oct-21
DCS - Bay 2 Excavation (1510m3)	26	13-May-21	12-Jun-21	19-Apr-21 A	19-May-21 A
DCS - Bay 2 Pipe Installation - Set up (DN900 60m)	14	15-Jun-21	30-Jun-21	19-May-21 A	17-Jul-21 A
DCS - Bay 2 Pipe Installation - Pipe welding	13	02-Jul-21	16-Jul-21	19-Jul-21 A	24-Jul-21 A
DCS - Bay 2 Pipe Installation - Jointing (27nos)	18	17-Jul-21	06-Aug-21	19-Jul-21 A	31-Jul-21 A
DCS - Bay 2 Backfill	7	07-Aug-21	14-Aug-21	21-Oct-21	28-Oct-21
Section 1 - Bay 3	64	13-May-21	29-Jul-21	26-Jul-21 A	03-Nov-21
DCS - Bay 3 Sheet pile (1870m2)	34	13-May-21	23-Jun-21	26-Jul-21 A	27-Sep-21
DCS - Bay 3 Excavation (2620m3)	18	24-Jun-21	15-Jul-21	28-Sep-21	20-Oct-21
DCS - Bay 3 Pipe Installation - Set up (DN900 30m)	12	16-Jul-21	29-Jul-21	21-Oct-21	03-Nov-21
Section 2 - Bay 4	30	04-May-21	08-Jun-21	20-Apr-21 A	24-Jul-21 A
DCS - Bay 4 Sheet pile (990m2)	18	04-May-21	25-May-21	20-Apr-21 A	05-Jun-21 A
DCS - Bay 4 Excavation (1170m3)	12	26-May-21	08-Jun-21	05-Jun-21 A	24-Jul-21 A
Section 2 - Bay 5	103	22-Dec-20	03-May-21	10-Apr-21 A	04-Nov-21
DCS - Bay 5 Sheet pile (1510m2)	30	22-Dec-20	28-Jan-21	10-Apr-21 A	31-Jul-21 A
DCS - Bay 5 Excavation (1516m3)	18	29-Jan-21	22-Feb-21	02-Aug-21	21-Aug-21
DCS - Bay 5 Pipe Installation - Set up (DN600 66m)	14	23-Feb-21	10-Mar-21	30-Aug-21	14-Sep-21
DCS - Bay 5 Pipe Installation - Pipe welding	14	11-Mar-21	26-Mar-21	15-Sep-21	02-Oct-21
DCS - Bay 5 Pipe Installation - Jointing (30nos)	15	27-Mar-21	17-Apr-21	04-Oct-21	21-Oct-21
DCS - Bay 5 Backfill	12	19-Apr-21	03-May-21	22-Oct-21	04-Nov-21
Section 2 - S20	28	21-Apr-21	25-May-21	25-Sep-21	29-Oct-21
DCS - S20 section site clearance	28	21-Apr-21	25-May-21	25-Sep-21	29-Oct-21
[STE] District Cooling System - Remaining Section 7B	16	19-Apr-21	07-May-21	18-May-21 A	20-Oct-21
DCS Section 4	16	19-Apr-21	07-May-21	18-May-21 A	20-Oct-21
DCS - DPR Pipe Installation - Delivery & set up (DN 800 12m)	6	19-Apr-21	24-Apr-21	18-May-21 A	19-Jun-21 A
DCS - DPR Pipe Installation - Pipe welding (6nos)	6	26-Apr-21	03-May-21	21-Jun-21 A	15-Oct-21
DCS - DPR Pipe Installation - Jointing (6nos)	4	04-May-21	07-May-21	16-Oct-21	20-Oct-21
Foot Bridge FB-02	168	10-Mar-21	02-Oct-21	01-Mar-21 A	31-Dec-21
DSD KBSIS - Interface	135	10-Mar-21	23-Aug-21	01-Mar-21 A	19-Nov-21
FB-02 Pre-drilling - LC&D	6	17-Jun-21	23-Jun-21	01-Mar-21 A	09-Mar-21 A
FB-02 Pre-drilling - P1	6	09-Jun-21	16-Jun-21	01-Mar-21 A	10-Mar-21 A
Temporary Ramp Construction	48	10-Mar-21	10-May-21	08-Mar-21 A	21-Mar-21 A
FB-02 Pre-drilling - P2/P3	12	03-May-21	15-May-21	22-Mar-21 A	10-Apr-21 A
Existing Footbridge Disable Ramp - Demolition	24	11-May-21	08-Jun-21	12-May-21 A	08-Jun-21 A
FB-02 H-pile - P1/P2/P3	51	24-Jun-21	23-Aug-21	18-Sep-21	19-Nov-21
Road L10/ DPR	127	03-May-21	02-Oct-21	26-Mar-21 A	31-Dec-21



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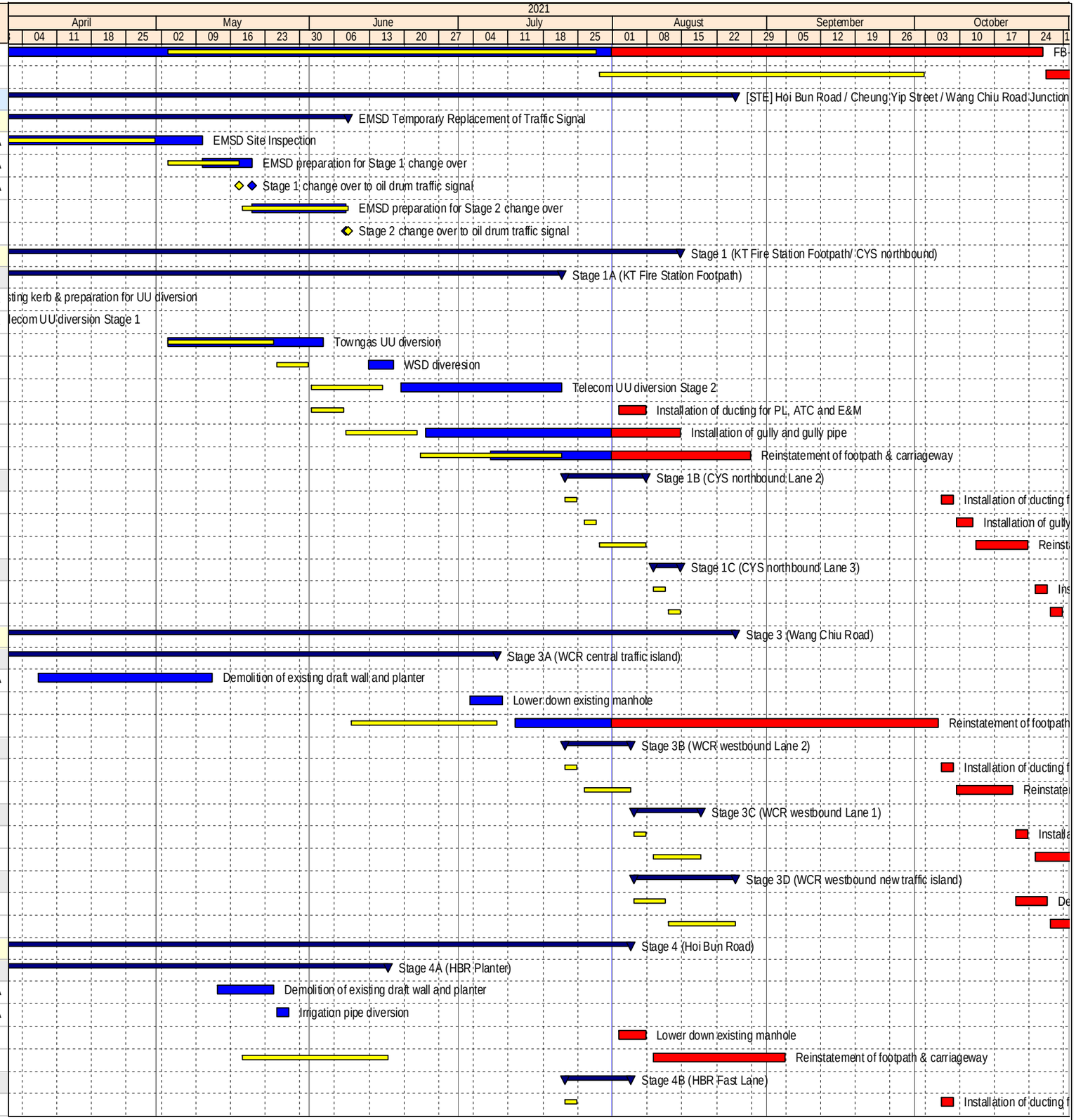
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
FB-02 H-pile (1 rig) - P4/P5/D	72	03-May-21	28-Jul-21	26-Mar-21 A	26-Oct-21
FB-02 H-pile (1 rig) - LA&B	55	29-Jul-21	02-Oct-21	27-Oct-21	31-Dec-21
[STE] Hoi Bun Road / Cheung Yip Street / Wang Chiu Road J	155	17-Feb-21	25-Aug-21	01-Mar-21 A	10-Nov-21
EMSD Temporary Replacement of Traffic Signal	71	11-Mar-21	08-Jun-21	10-Mar-21 A	08-Jun-21 A
EMSD Site Inspection	40	11-Mar-21	30-Apr-21	10-Mar-21 A	10-May-21 A
EMSD preparation for Stage 1 change over	13	03-May-21	17-May-21	10-May-21 A	20-May-21 A
Stage 1 change over to oil drum traffic signal	0		17-May-21		20-May-21 A
EMSD preparation for Stage 2 change over	18	18-May-21	08-Jun-21	20-May-21 A	08-Jun-21 A
Stage 2 change over to oil drum traffic signal	0		08-Jun-21		08-Jun-21 A
Stage 1 (KT Fire Station Footpath/ CYS northbound)	136	01-Mar-21	14-Aug-21	01-Mar-21 A	30-Oct-21
Stage 1A (KT Fire Station Footpath)	115	01-Mar-21	21-Jul-21	01-Mar-21 A	28-Aug-21
Demolition of existing kerb & preparation for UU diversion	12	01-Mar-21	13-Mar-21	01-Mar-21 A	13-Mar-21 A
Telecom UU diversion Stage 1	12	15-Mar-21	27-Mar-21	13-Mar-21 A	27-Mar-21 A
Towngas UU diversion	18	03-May-21	24-May-21	03-May-21 A	03-Jun-21 A
WSD diveresion	6	25-May-21	31-May-21	12-Jun-21 A	17-Jun-21 A
Telecom UU diversion Stage 2	12	01-Jun-21	15-Jun-21	19-Jun-21 A	21-Jul-21 A
Installation of ducting for PL, ATC and E&M	6	01-Jun-21	07-Jun-21	02-Aug-21	07-Aug-21
Installation of gully and gully pipe	12	08-Jun-21	22-Jun-21	24-Jun-21 A	14-Aug-21
Reinstatement of footpath & carriageway	24	23-Jun-21	21-Jul-21	07-Jul-21 A	28-Aug-21
Stage 1B (CYS northbound Lane 2)	15	22-Jul-21	07-Aug-21	06-Oct-21	23-Oct-21
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	06-Oct-21	08-Oct-21
Installation of gully and gully pipe	3	26-Jul-21	28-Jul-21	09-Oct-21	12-Oct-21
Reinstatement of carriageway	9	29-Jul-21	07-Aug-21	13-Oct-21	23-Oct-21
Stage 1C (CYS northbound Lane 3)	6	09-Aug-21	14-Aug-21	25-Oct-21	30-Oct-21
Installation of ducting for PL, ATC and E&M	3	09-Aug-21	11-Aug-21	25-Oct-21	27-Oct-21
Installation of gully and gully pipe	3	12-Aug-21	14-Aug-21	28-Oct-21	30-Oct-21
Stage 3 (Wang Chiu Road)	155	17-Feb-21	25-Aug-21	07-Apr-21 A	10-Nov-21
Stage 3A (WCR central traffic island)	114	17-Feb-21	08-Jul-21	07-Apr-21 A	05-Oct-21
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	07-Apr-21 A	12-May-21 A
Lower down existing manhole	6	27-Feb-21	05-Mar-21	03-Jul-21 A	09-Jul-21 A
Reinstatement of footpath & carriageway	24	09-Jun-21	08-Jul-21	12-Jul-21 A	05-Oct-21
Stage 3B (WCR westbound Lane 2)	12	22-Jul-21	04-Aug-21	06-Oct-21	20-Oct-21
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	06-Oct-21	08-Oct-21
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	09-Oct-21	20-Oct-21
Stage 3C (WCR westbound Lane 1)	12	05-Aug-21	18-Aug-21	21-Oct-21	03-Nov-21
Installation of ducting for PL, ATC and E&M	3	05-Aug-21	07-Aug-21	21-Oct-21	23-Oct-21
Reinstatement of carriageway	9	09-Aug-21	18-Aug-21	25-Oct-21	03-Nov-21
Stage 3D (WCR westbound new traffic island)	18	05-Aug-21	25-Aug-21	21-Oct-21	10-Nov-21
Demolition of existing pavement	6	05-Aug-21	11-Aug-21	21-Oct-21	27-Oct-21
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	28-Oct-21	10-Nov-21
Stage 4 (Hoi Bun Road)	137	17-Feb-21	04-Aug-21	13-May-21 A	20-Oct-21
Stage 4A (HBR Planter)	96	17-Feb-21	16-Jun-21	13-May-21 A	04-Sep-21
Demolition of existing draft wall and planter	9	17-Feb-21	26-Feb-21	13-May-21 A	24-May-21 A
Irrigation pipe diversion	3	27-Feb-21	02-Mar-21	25-May-21 A	27-May-21 A
Lower down existing manhole	6	03-Mar-21	09-Mar-21	02-Aug-21	07-Aug-21
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	09-Aug-21	04-Sep-21
Stage 4B (HBR Fast Lane)	12	22-Jul-21	04-Aug-21	06-Oct-21	20-Oct-21
Installation of ducting for PL, ATC and E&M	3	22-Jul-21	24-Jul-21	06-Oct-21	08-Oct-21



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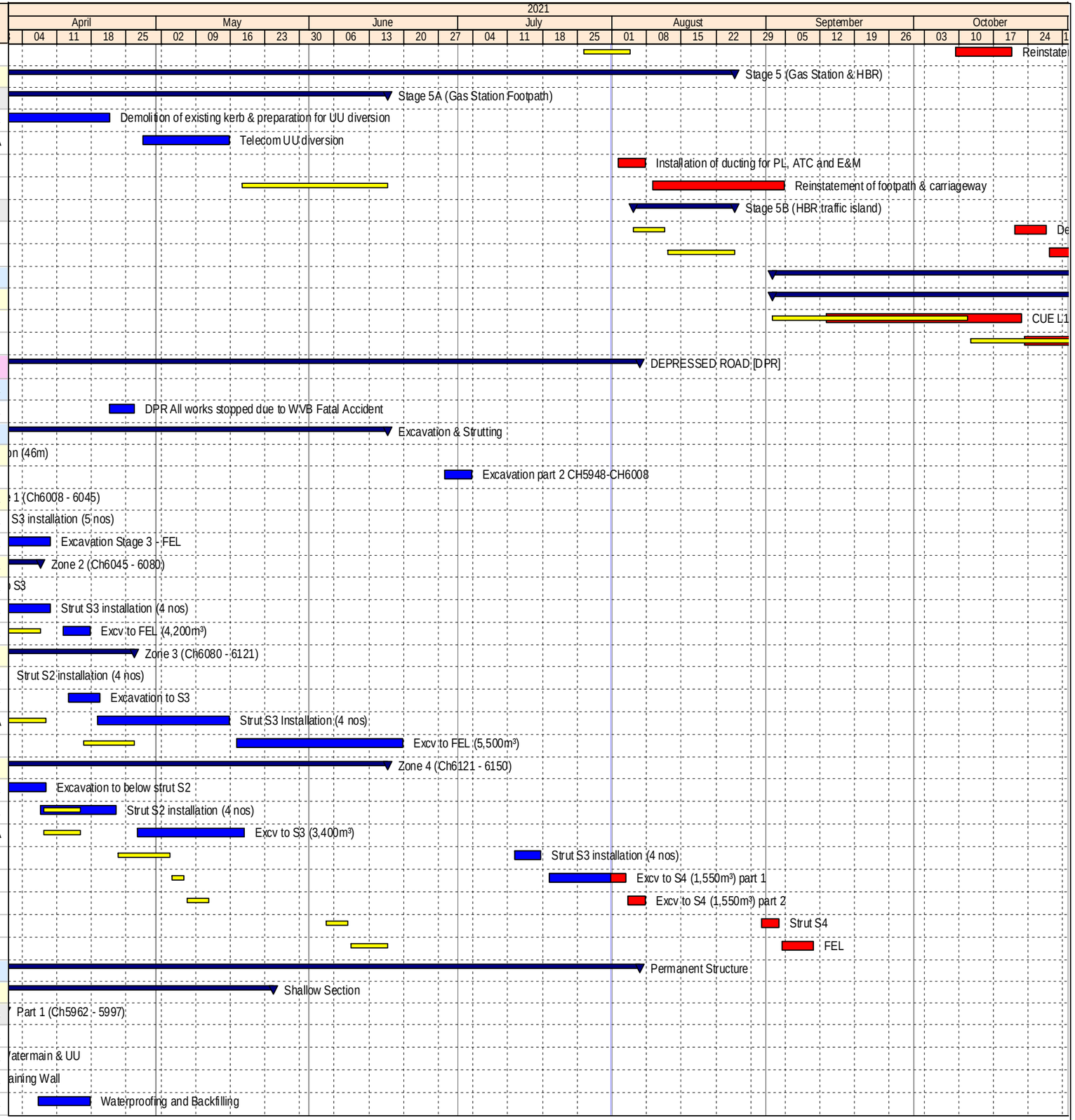
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
Reinstatement of carriageway	9	26-Jul-21	04-Aug-21	09-Oct-21	20-Oct-21
Stage 5 (Gas Station & HBR)	155	17-Feb-21	25-Aug-21	30-Mar-21 A	10-Nov-21
Stage 5A (Gas Station Footpath)	96	17-Feb-21	16-Jun-21	30-Mar-21 A	04-Sep-21
Demolition of existing kerb & preparation for UU diversion	12	17-Feb-21	02-Mar-21	30-Mar-21 A	21-Apr-21 A
Telecom UU diversion	6	03-Mar-21	09-Mar-21	28-Apr-21 A	15-May-21 A
Installation of ducting for PL, ATC and E&M	6	10-Mar-21	16-Mar-21	02-Aug-21	07-Aug-21
Reinstatement of footpath & carriageway	24	18-May-21	16-Jun-21	09-Aug-21	04-Sep-21
Stage 5B (HBR traffic island)	18	05-Aug-21	25-Aug-21	21-Oct-21	10-Nov-21
Demolition of existing traffic island	6	05-Aug-21	11-Aug-21	21-Oct-21	27-Oct-21
Connection for PL, ATC and E&M	12	12-Aug-21	25-Aug-21	28-Oct-21	10-Nov-21
[STE] Road L10 (Northern)	68	02-Sep-21	23-Nov-21	13-Sep-21	03-Dec-21
CUE	68	02-Sep-21	23-Nov-21	13-Sep-21	03-Dec-21
CUE L10(N) Pump Test part 1	32	02-Sep-21	11-Oct-21	13-Sep-21	22-Oct-21
CUE L10(N) Excavation part 1	36	12-Oct-21	23-Nov-21	23-Oct-21	03-Dec-21
DEPRESSED ROAD [DPR]	141	11-Feb-21	06-Aug-21	08-Mar-21 A	03-Nov-21
Delay Events	0			21-Apr-21 A	26-Apr-21 A
DPR All works stopped due to WVB Fatal Accident	0			21-Apr-21 A	26-Apr-21 A
Excavation & Strutting	98	11-Feb-21	16-Jun-21	08-Mar-21 A	10-Sep-21
Shallow Section (46m)	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A
Excavation part 2 CH5948-CH6008	5	11-Mar-21	16-Mar-21	28-Jun-21 A	03-Jul-21 A
Zone 1 (Ch6008 - 6045)	20	03-Mar-21	25-Mar-21	18-Mar-21 A	09-Apr-21 A
Strut S3 installation (5 nos)	7	03-Mar-21	10-Mar-21	18-Mar-21 A	25-Mar-21 A
Excavation Stage 3 - FEL	8	17-Mar-21	25-Mar-21	26-Mar-21 A	09-Apr-21 A
Zone 2 (Ch6045 - 6080)	41	11-Feb-21	07-Apr-21	08-Mar-21 A	17-Apr-21 A
Excavation to S3	7	11-Feb-21	22-Feb-21	08-Mar-21 A	17-Mar-21 A
Strut S3 installation (4 nos)	7	11-Mar-21	18-Mar-21	26-Mar-21 A	09-Apr-21 A
Excv to FEL (4,200m³)	7	26-Mar-21	07-Apr-21	12-Apr-21 A	17-Apr-21 A
Zone 3 (Ch6080 - 6121)	50	23-Feb-21	26-Apr-21	22-Mar-21 A	19-Jun-21 A
Strut S2 installation (4 nos)	7	23-Feb-21	02-Mar-21	22-Mar-21 A	31-Mar-21 A
Excavation to S3	7	03-Mar-21	10-Mar-21	13-Apr-21 A	19-Apr-21 A
Strut S3 Installation (4 nos)	8	26-Mar-21	08-Apr-21	19-Apr-21 A	15-May-21 A
Excv to FEL (5,500m³)	9	16-Apr-21	26-Apr-21	17-May-21 A	19-Jun-21 A
Zone 4 (Ch6121 - 6150)	91	23-Feb-21	16-Jun-21	22-Mar-21 A	10-Sep-21
Excavation to below strut S2	7	23-Feb-21	02-Mar-21	22-Mar-21 A	08-Apr-21 A
Strut S2 installation (4 nos)	7	08-Apr-21	15-Apr-21	07-Apr-21 A	23-Apr-21 A
Excv to S3 (3,400m³)	7	08-Apr-21	15-Apr-21	27-Apr-21 A	18-May-21 A
Strut S3 installation (4 nos)	8	23-Apr-21	03-May-21	12-Jul-21 A	17-Jul-21 A
Excv to S4 (1,550m³) part 1	3	04-May-21	06-May-21	19-Jul-21 A	03-Aug-21
Excv to S4 (1,550m³) part 2	4	07-May-21	11-May-21	04-Aug-21	07-Aug-21
Strut S4	4	04-Jun-21	08-Jun-21	31-Aug-21	03-Sep-21
FEL	6	09-Jun-21	16-Jun-21	04-Sep-21	10-Sep-21
Permanent Structure	141	11-Feb-21	06-Aug-21	08-Mar-21 A	03-Nov-21
Shallow Section	79	11-Feb-21	24-May-21	08-Mar-21 A	18-Sep-21
Part 1 (Ch5962 - 5997)	39	11-Feb-21	31-Mar-21	08-Mar-21 A	17-Apr-21 A
Base Slab	12	11-Feb-21	27-Feb-21	08-Mar-21 A	18-Mar-21 A
Drainage, Watermain & UU	10	16-Feb-21	26-Feb-21	08-Mar-21 A	18-Mar-21 A
Retaining Wall	18	01-Mar-21	20-Mar-21	19-Mar-21 A	26-Mar-21 A
Waterproofing and Backfilling	9	22-Mar-21	31-Mar-21	07-Apr-21 A	17-Apr-21 A



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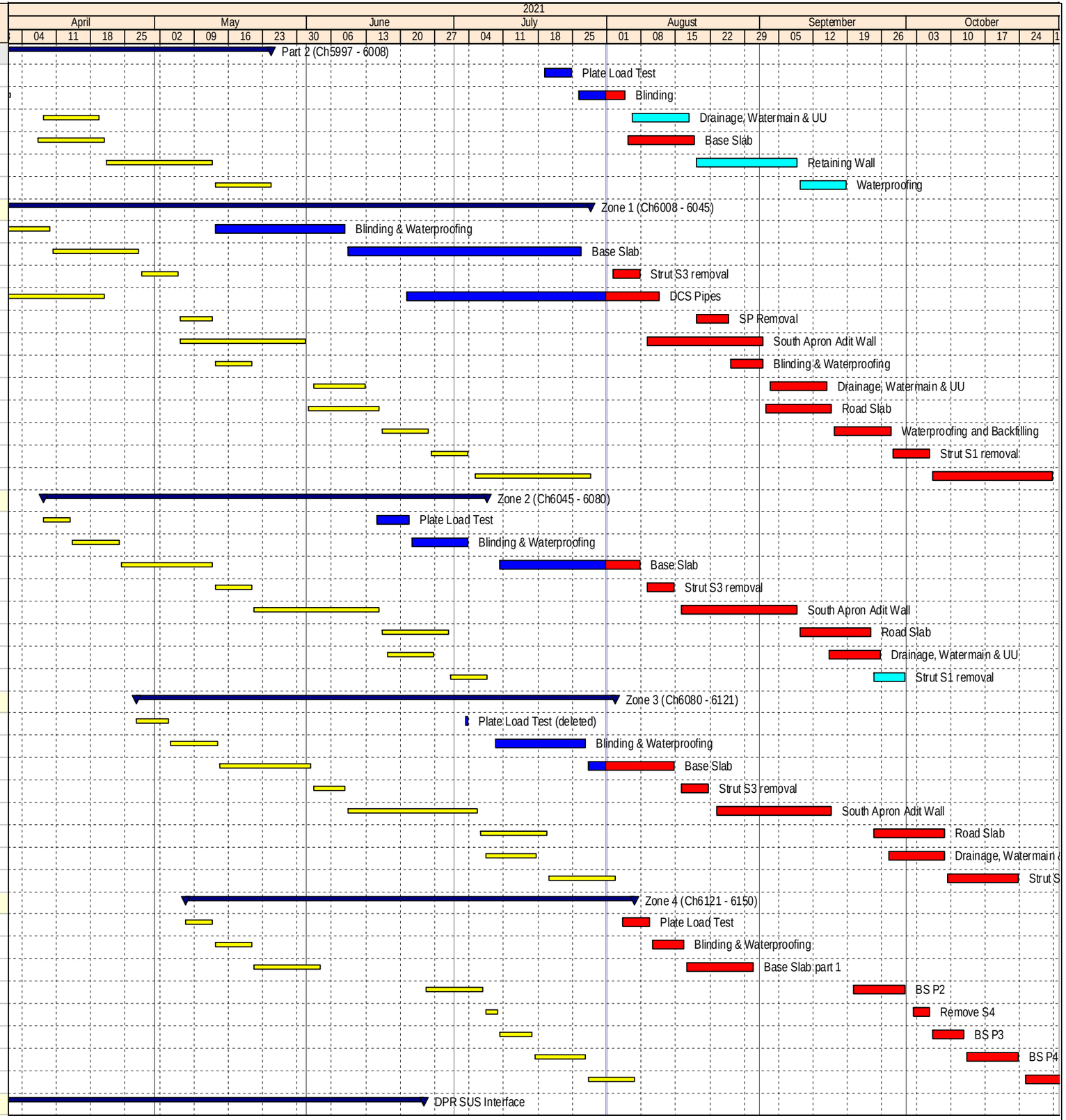
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
Part 2 (Ch5997 - 6008)	53	17-Mar-21	24-May-21	19-Jul-21 A	18-Sep-21
Plate Load Test	5	17-Mar-21	22-Mar-21	19-Jul-21 A	24-Jul-21 A
Blinding	9	23-Mar-21	01-Apr-21	26-Jul-21 A	04-Aug-21
Drainage, Watermain & UU	10	08-Apr-21	19-Apr-21	06-Aug-21	17-Aug-21
Base Slab	12	07-Apr-21	20-Apr-21	05-Aug-21	18-Aug-21
Retaining Wall	18	21-Apr-21	12-May-21	19-Aug-21	08-Sep-21
Waterproofing	9	13-May-21	24-May-21	09-Sep-21	18-Sep-21
Zone 1 (Ch6008 - 6045)	99	26-Mar-21	28-Jul-21	13-May-21 A	30-Oct-21
Blinding & Waterproofing	9	26-Mar-21	09-Apr-21	13-May-21 A	08-Jun-21 A
Base Slab	15	10-Apr-21	27-Apr-21	09-Jun-21 A	26-Jul-21 A
Strut S3 removal	6	28-Apr-21	05-May-21	02-Aug-21	07-Aug-21
DCS Pipes	18	26-Mar-21	20-Apr-21	21-Jun-21 A	11-Aug-21
SP Removal	6	06-May-21	12-May-21	19-Aug-21	25-Aug-21
South Apron Adit Wall	21	06-May-21	31-May-21	09-Aug-21	01-Sep-21
Blinding & Waterproofing	6	13-May-21	20-May-21	26-Aug-21	01-Sep-21
Drainage, Watermain & UU	10	02-Jun-21	12-Jun-21	03-Sep-21	14-Sep-21
Road Slab	12	01-Jun-21	15-Jun-21	02-Sep-21	15-Sep-21
Waterproofing and Backfilling	9	16-Jun-21	25-Jun-21	16-Sep-21	27-Sep-21
Strut S1 removal	6	26-Jun-21	03-Jul-21	28-Sep-21	05-Oct-21
Retaining Wall	21	05-Jul-21	28-Jul-21	06-Oct-21	30-Oct-21
Zone 2 (Ch6045 - 6080)	74	08-Apr-21	07-Jul-21	15-Jun-21 A	30-Sep-21
Plate Load Test	5	08-Apr-21	13-Apr-21	15-Jun-21 A	21-Jun-21 A
Blinding & Waterproofing	9	14-Apr-21	23-Apr-21	22-Jun-21 A	03-Jul-21 A
Base Slab	15	24-Apr-21	12-May-21	10-Jul-21 A	07-Aug-21
Strut S3 removal	6	13-May-21	20-May-21	09-Aug-21	14-Aug-21
South Apron Adit Wall	21	21-May-21	15-Jun-21	16-Aug-21	08-Sep-21
Road Slab	12	16-Jun-21	29-Jun-21	09-Sep-21	23-Sep-21
Drainage, Watermain & UU	9	17-Jun-21	26-Jun-21	15-Sep-21	25-Sep-21
Strut S1 removal	6	30-Jun-21	07-Jul-21	24-Sep-21	30-Sep-21
Zone 3 (Ch6080 - 6121)	80	27-Apr-21	02-Aug-21	03-Jul-21 A	23-Oct-21
Plate Load Test (deleted)	5	27-Apr-21	03-May-21	03-Jul-21 A	03-Jul-21 A
Blinding & Waterproofing	9	04-May-21	13-May-21	09-Jul-21 A	27-Jul-21 A
Base Slab	15	14-May-21	01-Jun-21	28-Jul-21 A	14-Aug-21
Strut S3 removal	6	02-Jun-21	08-Jun-21	16-Aug-21	21-Aug-21
South Apron Adit Wall	21	09-Jun-21	05-Jul-21	23-Aug-21	15-Sep-21
Road Slab	12	06-Jul-21	19-Jul-21	24-Sep-21	08-Oct-21
Drainage, Watermain & UU	10	07-Jul-21	17-Jul-21	27-Sep-21	08-Oct-21
Strut S2 & S1 removal	12	20-Jul-21	02-Aug-21	09-Oct-21	23-Oct-21
Zone 4 (Ch6121 - 6150)	76	07-May-21	06-Aug-21	04-Aug-21	03-Nov-21
Plate Load Test	5	07-May-21	12-May-21	04-Aug-21	09-Aug-21
Blinding & Waterproofing	6	13-May-21	20-May-21	10-Aug-21	16-Aug-21
Base Slab part 1	12	21-May-21	03-Jun-21	17-Aug-21	30-Aug-21
BS P2	9	25-Jun-21	06-Jul-21	20-Sep-21	30-Sep-21
Remove S4	3	07-Jul-21	09-Jul-21	02-Oct-21	05-Oct-21
BS P3	6	10-Jul-21	16-Jul-21	06-Oct-21	12-Oct-21
BS P4	9	17-Jul-21	27-Jul-21	13-Oct-21	23-Oct-21
Remove S3	9	28-Jul-21	06-Aug-21	25-Oct-21	03-Nov-21
DPR SUS Interface	91	03-Mar-21	24-Jun-21	21-Jun-21 A	18-Sep-21



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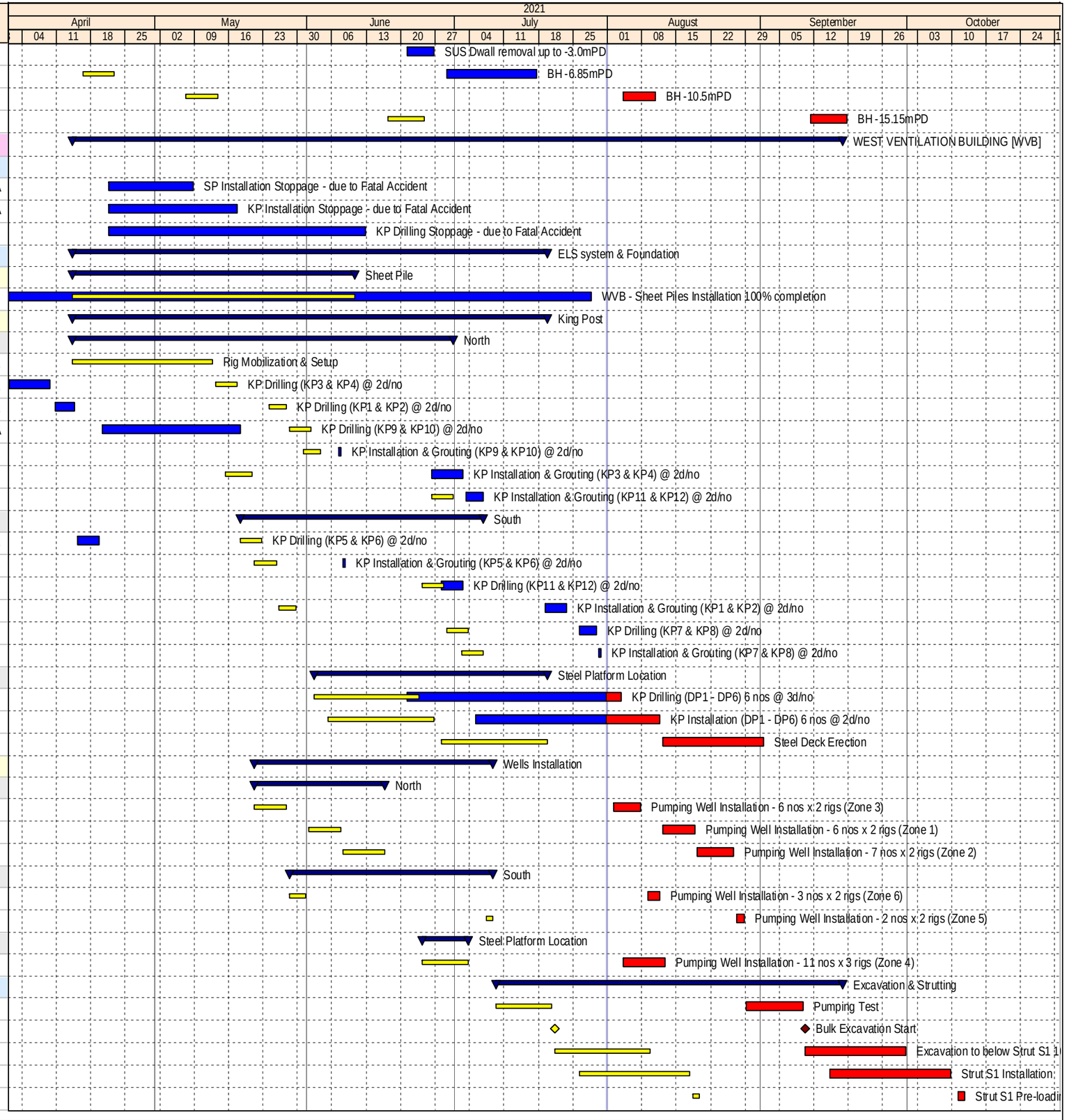
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
SUS Dwall removal up to -3.0mPD	9	03-Mar-21	12-Mar-21	21-Jun-21 A	26-Jun-21 A
BH -6.85mPD	6	16-Apr-21	22-Apr-21	29-Jun-21 A	17-Jul-21 A
BH -10.5mPD	6	07-May-21	13-May-21	04-Aug-21	10-Aug-21
BH -15.15mPD	7	17-Jun-21	24-Jun-21	11-Sep-21	18-Sep-21
WEST VENTILATION BUILDING [WVB]	131	14-Apr-21	17-Sep-21	11-Mar-21 A	11-Nov-21
Delay Events	0			21-Apr-21 A	12-Jun-21 A
SP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	08-May-21 A
KP Installation Stoppage - due to Fatal Accident	0			21-Apr-21 A	17-May-21 A
KP Drilling Stoppage - due to Fatal Accident	0			21-Apr-21 A	12-Jun-21 A
ELS system & Foundation	79	14-Apr-21	19-Jul-21	11-Mar-21 A	01-Sep-21
Sheet Pile	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A
WVB - Sheet Piles Installation 100% completion	48	14-Apr-21	10-Jun-21	11-Mar-21 A	28-Jul-21 A
King Post	79	14-Apr-21	19-Jul-21	27-Mar-21 A	01-Sep-21
North	64	14-Apr-21	30-Jun-21	27-Mar-21 A	06-Jul-21 A
Rig Mobilization & Setup	24	14-Apr-21	12-May-21	27-Mar-21 A	31-Mar-21 A
KP Drilling (KP3 & KP4) @ 2d/no	4	13-May-21	17-May-21	01-Apr-21 A	09-Apr-21 A
KP Drilling (KP1 & KP2) @ 2d/no	4	24-May-21	27-May-21	10-Apr-21 A	14-Apr-21 A
KP Drilling (KP9 & KP10) @ 2d/no	4	28-May-21	01-Jun-21	20-Apr-21 A	18-May-21 A
KP Installation & Grouting (KP9 & KP10) @ 2d/no	4	31-May-21	03-Jun-21	07-Jun-21 A	07-Jun-21 A
KP Installation & Grouting (KP3 & KP4) @ 2d/no	4	15-May-21	20-May-21	26-Jun-21 A	02-Jul-21 A
KP Installation & Grouting (KP11 & KP12) @ 2d/no	4	26-Jun-21	30-Jun-21	03-Jul-21 A	06-Jul-21 A
South	40	18-May-21	06-Jul-21	15-Apr-21 A	30-Jul-21 A
KP Drilling (KP5 & KP6) @ 2d/no	4	18-May-21	22-May-21	15-Apr-21 A	19-Apr-21 A
KP Installation & Grouting (KP5 & KP6) @ 2d/no	4	21-May-21	25-May-21	08-Jun-21 A	08-Jun-21 A
KP Drilling (KP11 & KP12) @ 2d/no	4	24-Jun-21	28-Jun-21	28-Jun-21 A	02-Jul-21 A
KP Installation & Grouting (KP1 & KP2) @ 2d/no	4	26-May-21	29-May-21	19-Jul-21 A	23-Jul-21 A
KP Drilling (KP7 & KP8) @ 2d/no	4	29-Jun-21	03-Jul-21	26-Jul-21 A	29-Jul-21 A
KP Installation & Grouting (KP7 & KP8) @ 2d/no	4	02-Jul-21	06-Jul-21	30-Jul-21 A	30-Jul-21 A
Steel Platform Location	39	02-Jun-21	19-Jul-21	21-Jun-21 A	01-Sep-21
KP Drilling (DP1 - DP6) 6 nos @ 3d/no	18	02-Jun-21	23-Jun-21	21-Jun-21 A	03-Aug-21
KP Installation (DP1 - DP6) 6 nos @ 2d/no	18	05-Jun-21	26-Jun-21	05-Jul-21 A	11-Aug-21
Steel Deck Erection	18	28-Jun-21	19-Jul-21	12-Aug-21	01-Sep-21
Wells Installation	40	21-May-21	08-Jul-21	02-Aug-21	28-Aug-21
North	22	21-May-21	16-Jun-21	02-Aug-21	26-Aug-21
Pumping Well Installation - 6 nos x 2 rigs (Zone 3)	6	21-May-21	27-May-21	02-Aug-21	07-Aug-21
Pumping Well Installation - 6 nos x 2 rigs (Zone 1)	6	01-Jun-21	07-Jun-21	12-Aug-21	18-Aug-21
Pumping Well Installation - 7 nos x 2 rigs (Zone 2)	7	08-Jun-21	16-Jun-21	19-Aug-21	26-Aug-21
South	34	28-May-21	08-Jul-21	09-Aug-21	28-Aug-21
Pumping Well Installation - 3 nos x 2 rigs (Zone 6)	3	28-May-21	31-May-21	09-Aug-21	11-Aug-21
Pumping Well Installation - 2 nos x 2 rigs (Zone 5)	2	07-Jul-21	08-Jul-21	27-Aug-21	28-Aug-21
Steel Platform Location	8	24-Jun-21	03-Jul-21	04-Aug-21	12-Aug-21
Pumping Well Installation - 11 nos x 3 rigs (Zone 4)	8	24-Jun-21	03-Jul-21	04-Aug-21	12-Aug-21
Excavation & Strutting	61	09-Jul-21	17-Sep-21	29-Aug-21	11-Nov-21
Pumping Test	12	09-Jul-21	20-Jul-21	29-Aug-21	09-Sep-21
Bulk Excavation Start	0	21-Jul-21		10-Sep-21	
Excavation to below Strut S1 10,010m³	17	21-Jul-21	09-Aug-21	10-Sep-21	30-Sep-21
Strut S1 Installation	20	26-Jul-21	17-Aug-21	15-Sep-21	09-Oct-21
Strut S1 Pre-loading	2	18-Aug-21	19-Aug-21	11-Oct-21	12-Oct-21



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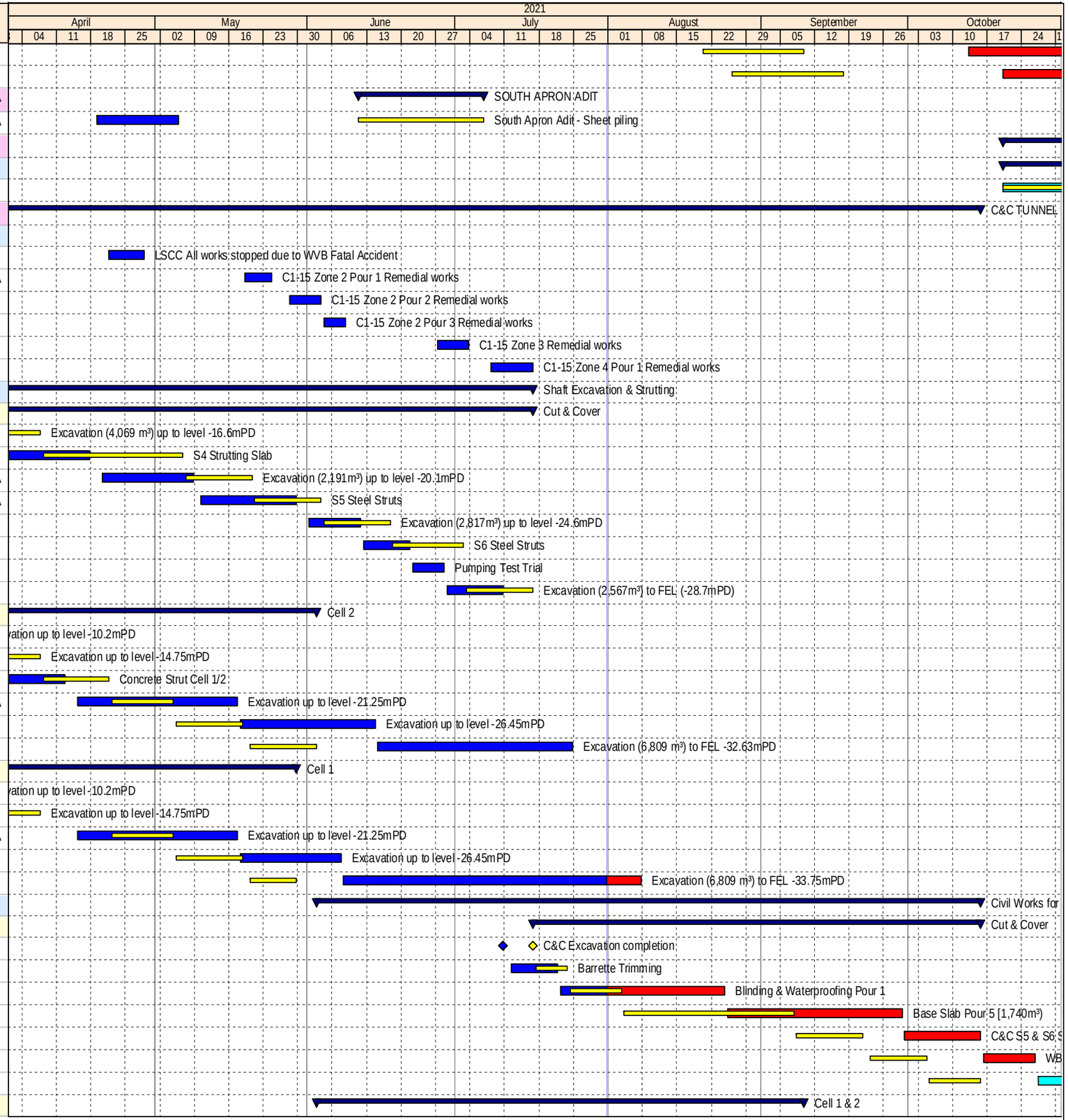
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
Excavation to below Strut S2 11,076m³	18	20-Aug-21	09-Sep-21	13-Oct-21	03-Nov-21
Strut S2 Installation	20	26-Aug-21	17-Sep-21	20-Oct-21	11-Nov-21
SOUTH APRON ADIT	20	11-Jun-21	06-Jul-21	19-Apr-21 A	05-May-21 A
South Apron Adit - Sheet piling	20	11-Jun-21	06-Jul-21	19-Apr-21 A	05-May-21 A
SUPPORTING UNDERGROUND STRUCTURE [SUS	24	20-Oct-21	16-Nov-21	20-Oct-21	16-Nov-21
Permanent Structure	24	20-Oct-21	16-Nov-21	20-Oct-21	16-Nov-21
SUS - WB Partition Wall CH6150-6237	24	20-Oct-21	16-Nov-21	20-Oct-21*	16-Nov-21
C&C TUNNEL / LAUNCHING SHAFT [C&C / LS]	178	10-Mar-21	15-Oct-21	09-Mar-21 A	05-Nov-21
Delay Events	0			21-Apr-21 A	16-Jul-21 A
LSCC All works stopped due to WVB Fatal Accident	0			21-Apr-21 A	28-Apr-21 A
C1-15 Zone 2 Pour 1 Remedial works	0			19-May-21 A	24-May-21 A
C1-15 Zone 2 Pour 2 Remedial works	0			28-May-21 A	03-Jun-21 A
C1-15 Zone 2 Pour 3 Remedial works	0			04-Jun-21 A	08-Jun-21 A
C1-15 Zone 3 Remedial works	0			27-Jun-21 A	03-Jul-21 A
C1-15 Zone 4 Pour 1 Remedial works	0			08-Jul-21 A	16-Jul-21 A
Shaft Excavation & Strutting	103	10-Mar-21	16-Jul-21	09-Mar-21 A	07-Aug-21
Cut & Cover	95	19-Mar-21	16-Jul-21	09-Mar-21 A	10-Jul-21 A
Excavation (4,069 m³) up to level -16.6mPD	13	19-Mar-21	07-Apr-21	09-Mar-21 A	19-Mar-21 A
S4 Strutting Slab	24	08-Apr-21	06-May-21	20-Mar-21 A	17-Apr-21 A
Excavation (2,191m³) up to level -20.1mPD	11	07-May-21	20-May-21	20-Apr-21 A	08-May-21 A
S5 Steel Struts	12	21-May-21	03-Jun-21	10-May-21 A	29-May-21 A
Excavation (2,817m³) up to level -24.6mPD	11	04-Jun-21	17-Jun-21	01-Jun-21 A	11-Jun-21 A
S6 Steel Struts	12	18-Jun-21	02-Jul-21	12-Jun-21 A	21-Jun-21 A
Pumping Test Trial	0			22-Jun-21 A	28-Jun-21 A
Excavation (2,567m³) to FEL (-28.7mPD)	12	03-Jul-21	16-Jul-21	29-Jun-21 A	10-Jul-21 A
Cell 2	67	10-Mar-21	02-Jun-21	12-Mar-21 A	24-Jul-21 A
Excavation up to level -10.2mPD	13	10-Mar-21	24-Mar-21	12-Mar-21 A	23-Mar-21 A
Excavation up to level -14.75mPD	8	25-Mar-21	07-Apr-21	24-Mar-21 A	29-Mar-21 A
Concrete Strut Cell 1/2	12	08-Apr-21	21-Apr-21	30-Mar-21 A	12-Apr-21 A
Excavation up to level -21.25mPD	10	22-Apr-21	04-May-21	15-Apr-21 A	17-May-21 A
Excavation up to level -26.45mPD	12	05-May-21	18-May-21	18-May-21 A	14-Jun-21 A
Excavation (6,809 m³) to FEL -32.63mPD	12	20-May-21	02-Jun-21	15-Jun-21 A	24-Jul-21 A
Cell 1	64	10-Mar-21	29-May-21	12-Mar-21 A	07-Aug-21
Excavation up to level -10.2mPD	13	10-Mar-21	24-Mar-21	12-Mar-21 A	23-Mar-21 A
Excavation up to level -14.75mPD	8	25-Mar-21	07-Apr-21	24-Mar-21 A	29-Mar-21 A
Excavation up to level -21.25mPD	10	22-Apr-21	04-May-21	15-Apr-21 A	17-May-21 A
Excavation up to level -26.45mPD	12	05-May-21	18-May-21	18-May-21 A	07-Jun-21 A
Excavation (6,809 m³) to FEL -33.75mPD	9	20-May-21	29-May-21	08-Jun-21 A	07-Aug-21
Civil Works for TBM Assembly	111	02-Jun-21	15-Oct-21	03-Jul-21 A	05-Nov-21
Cut & Cover	75	16-Jul-21	15-Oct-21	10-Jul-21 A	05-Nov-21
C&C Excavation completion	0		16-Jul-21		10-Jul-21 A
Barrette Trimming	6	17-Jul-21	23-Jul-21	12-Jul-21 A	21-Jul-21 A
Blinding & Waterproofing Pour 1	9	24-Jul-21	03-Aug-21	22-Jul-21 A	24-Aug-21
Base Slab Pour 5 [1,740m³)	30	04-Aug-21	07-Sep-21	25-Aug-21	29-Sep-21
C&C S5 & S6 Strut Removal	12	08-Sep-21	21-Sep-21	30-Sep-21	15-Oct-21
WB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	23-Sep-21	04-Oct-21	16-Oct-21	26-Oct-21
EB SUS BH removal (145m² / 8.4m²/shift x 2 shift)	9	05-Oct-21	15-Oct-21	27-Oct-21	05-Nov-21
Cell 1 & 2	83	02-Jun-21	09-Sep-21	03-Jul-21 A	23-Oct-21



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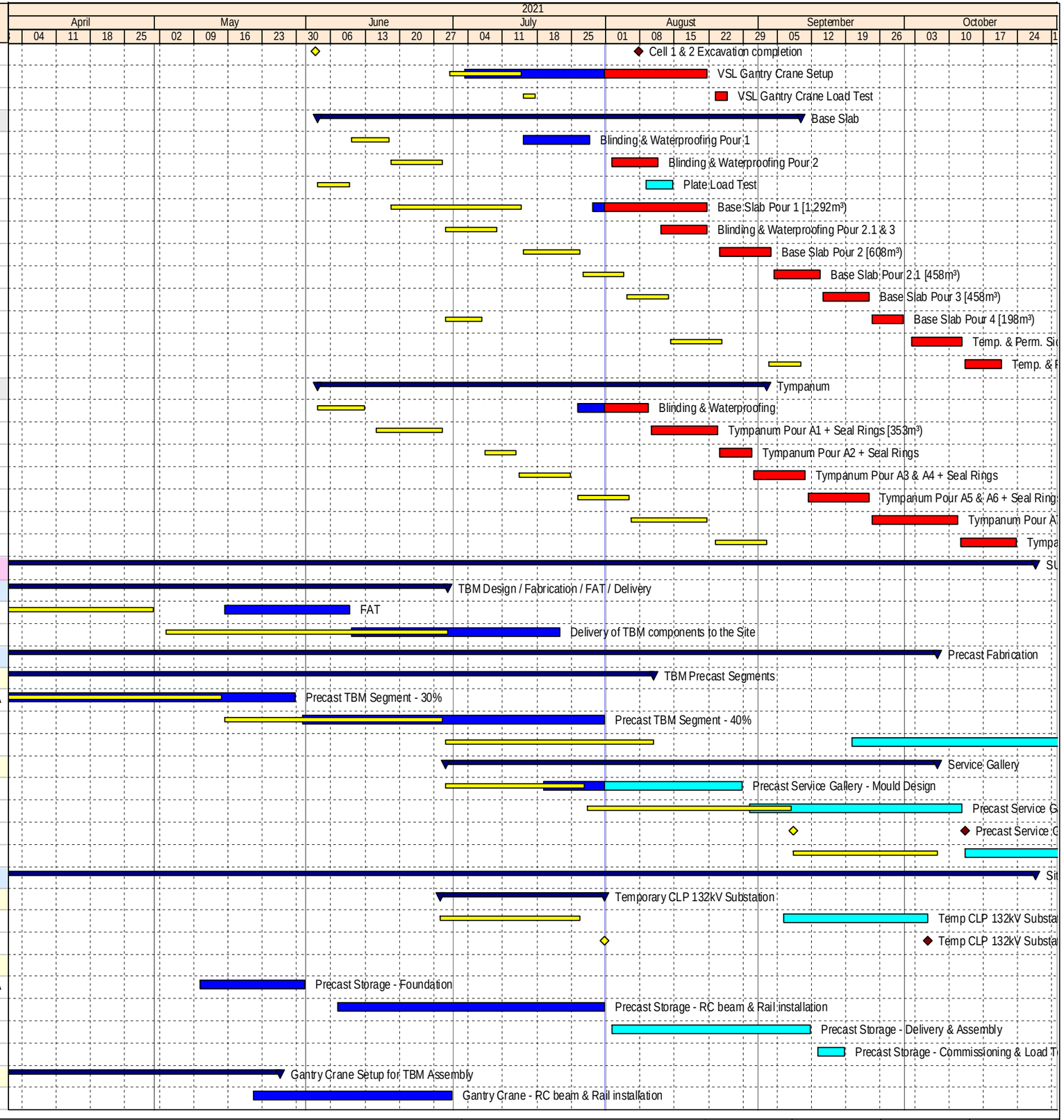
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
Cell 1 & 2 Excavation completion	0		02-Jun-21		07-Aug-21
VSL Gantry Crane Setup	12	30-Jun-21	14-Jul-21	03-Jul-21 A	21-Aug-21
VSL Gantry Crane Load Test	3	15-Jul-21	17-Jul-21	23-Aug-21	25-Aug-21
Base Slab	83	03-Jun-21	09-Sep-21	15-Jul-21 A	20-Oct-21
Blinding & Waterproofing Pour 1	6	10-Jun-21	17-Jun-21	15-Jul-21 A	28-Jul-21 A
Blinding & Waterproofing Pour 2	9	18-Jun-21	28-Jun-21	02-Aug-21	11-Aug-21
Plate Load Test	6	03-Jun-21	09-Jun-21	09-Aug-21	14-Aug-21
Base Slab Pour 1 [1,292m³)	22	18-Jun-21	14-Jul-21	29-Jul-21 A	21-Aug-21
Blinding & Waterproofing Pour 2.1 & 3	9	29-Jun-21	09-Jul-21	12-Aug-21	21-Aug-21
Base Slab Pour 2 [608m³)	10	15-Jul-21	26-Jul-21	24-Aug-21	03-Sep-21
Base Slab Pour 2.1 [458m³)	8	27-Jul-21	04-Aug-21	04-Sep-21	13-Sep-21
Base Slab Pour 3 [458m³)	8	05-Aug-21	13-Aug-21	14-Sep-21	23-Sep-21
Base Slab Pour 4 [198m³)	6	29-Jun-21	06-Jul-21	24-Sep-21	30-Sep-21
Temp. & Perm. Side Wall part 1	9	14-Aug-21	24-Aug-21	02-Oct-21	12-Oct-21
Temp. & Perm. Side Wall part 2	6	03-Sep-21	09-Sep-21	13-Oct-21	20-Oct-21
Tympanum	77	03-Jun-21	02-Sep-21	26-Jul-21 A	23-Oct-21
Blinding & Waterproofing	9	03-Jun-21	12-Jun-21	26-Jul-21 A	09-Aug-21
Tympanum Pour A1 + Seal Rings [353m³)	12	15-Jun-21	28-Jun-21	10-Aug-21	23-Aug-21
Tympanum Pour A2 + Seal Rings	6	07-Jul-21	13-Jul-21	24-Aug-21	30-Aug-21
Tympanum Pour A3 & A4 + Seal Rings	10	14-Jul-21	24-Jul-21	31-Aug-21	10-Sep-21
Tympanum Pour A5 & A6 + Seal Rings	10	26-Jul-21	05-Aug-21	11-Sep-21	23-Sep-21
Tympanum Pour A7 & A8 + Seal Rings	14	06-Aug-21	21-Aug-21	24-Sep-21	11-Oct-21
Tympanum Pour A9 + Seal Rings	10	23-Aug-21	02-Sep-21	12-Oct-21	23-Oct-21
SUB-SEA TBM TUNNEL - WESTBOUND	316	03-Oct-20	27-Oct-21	29-Mar-21 A	24-Nov-21
TBM Design / Fabrication / FAT / Delivery	72	30-Mar-21	29-Jun-21	15-May-21 A	22-Jul-21 A
FAT	24	30-Mar-21	30-Apr-21	15-May-21 A	09-Jun-21 A
Delivery of TBM components to the Site	48	03-May-21	29-Jun-21	10-Jun-21 A	22-Jul-21 A
Precast Fabrication	156	29-Mar-21	07-Oct-21	29-Mar-21 A	10-Nov-21
TBM Precast Segments	108	29-Mar-21	10-Aug-21	29-Mar-21 A	03-Nov-21
Precast TBM Segment - 30%	36	29-Mar-21	14-May-21	29-Mar-21 A	29-May-21 A
Precast TBM Segment - 40%	36	15-May-21	28-Jun-21	31-May-21 A	31-Jul-21 A
Precast TBM Segment - 50%	36	29-Jun-21	10-Aug-21	20-Sep-21	03-Nov-21
Service Gallery	84	29-Jun-21	07-Oct-21	19-Jul-21 A	10-Nov-21
Precast Service Gallery - Mould Design	24	29-Jun-21	27-Jul-21	19-Jul-21 A	28-Aug-21
Precast Service Gallery - Mould Fabrication & Setup	36	28-Jul-21	07-Sep-21	30-Aug-21*	12-Oct-21
Precast Service Gallery - Mass Production Start	0	08-Sep-21		13-Oct-21	
Precast Service Gallery - 3%	24	08-Sep-21	07-Oct-21	13-Oct-21	10-Nov-21
Site Establishment	316	03-Oct-20	27-Oct-21	31-Mar-21 A	24-Nov-21
Temporary CLP 132kV Substation	29	28-Jun-21	31-Jul-21	06-Sep-21	05-Oct-21
Temp CLP 132kV Substation - FSD / WSD Inspection	24	28-Jun-21	26-Jul-21	06-Sep-21	05-Oct-21
Temp CLP 132kV Substation - Power On	0		31-Jul-21		05-Oct-21
Precast Elements Storage Yard	90	03-Oct-20	20-Jan-21	10-May-21 A	18-Sep-21
Precast Storage - Foundation	24	03-Oct-20	31-Oct-20	10-May-21 A	31-May-21 A
Precast Storage - RC beam & Rail installation	24	02-Nov-20	28-Nov-20	07-Jun-21 A	31-Jul-21 A
Precast Storage - Delivery & Assembly	36	30-Nov-20	13-Jan-21	02-Aug-21	11-Sep-21
Precast Storage - Commissioning & Load Test	6	14-Jan-21	20-Jan-21	13-Sep-21	18-Sep-21
Gantry Crane Setup for TBM Assembly	66	04-Mar-21	26-May-21	21-May-21 A	25-Aug-21
Gantry Crane - RC beam & Rail installation	24	04-Mar-21	31-Mar-21	21-May-21 A	30-Jun-21 A



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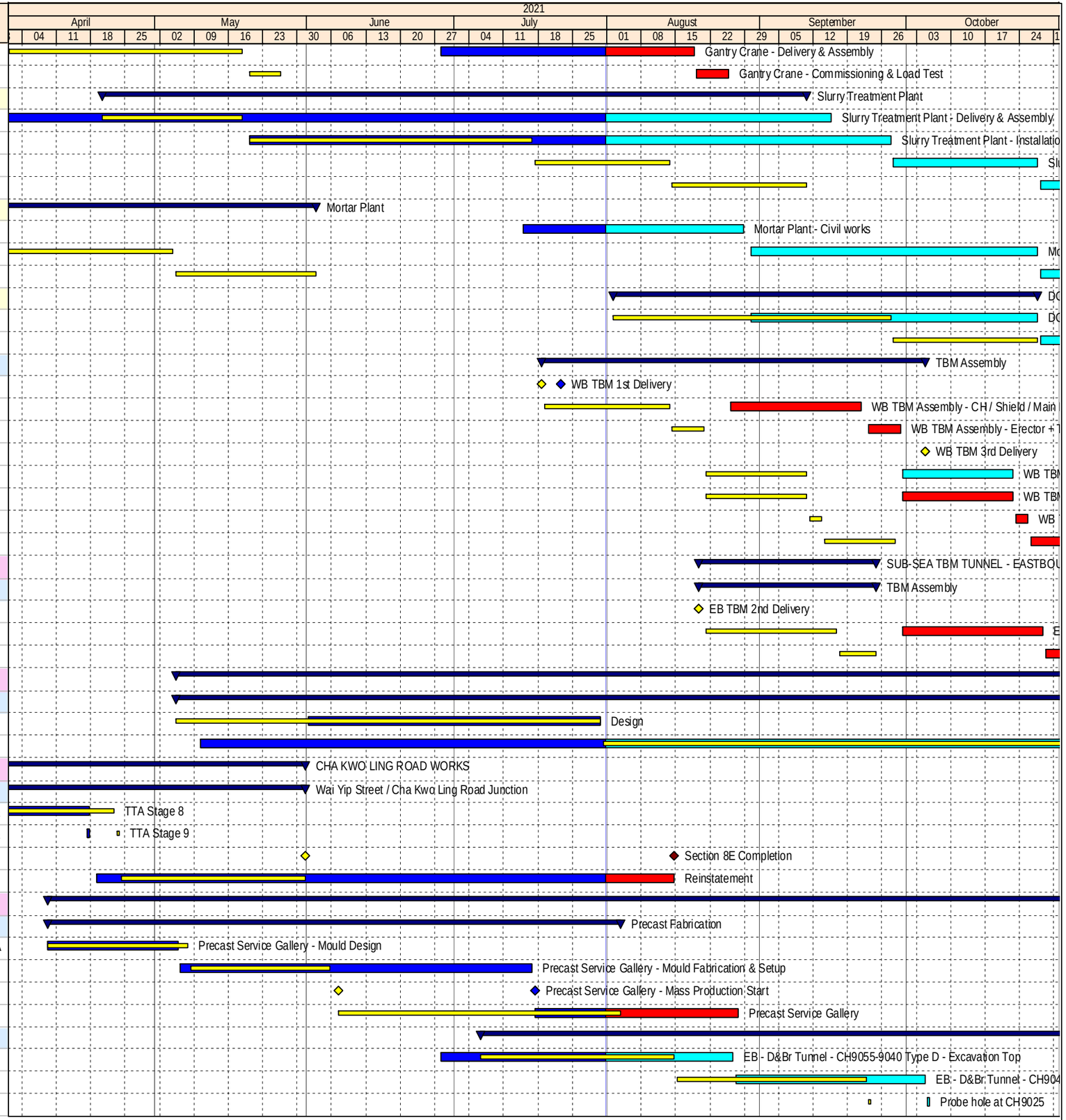
Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
Gantry Crane - Delivery & Assembly	36	01-Apr-21	18-May-21	28-Jun-21 A	18-Aug-21
Gantry Crane - Commissioning & Load Test	6	20-May-21	26-May-21	19-Aug-21	25-Aug-21
Slurry Treatment Plant	120	20-Apr-21	10-Sep-21	31-Mar-21 A	24-Nov-21
Slurry Treatment Plant - Delivery & Assembly	24	20-Apr-21	18-May-21	31-Mar-21 A	15-Sep-21
Slurry Treatment Plant - Installation	48	20-May-21	16-Jul-21	20-May-21 A	27-Sep-21
Slurry Treatment Plant - Commissioning	24	17-Jul-21	13-Aug-21	28-Sep-21	27-Oct-21
Slurry Treatment Plant - CNP Application	24	14-Aug-21	10-Sep-21	28-Oct-21	24-Nov-21
Mortar Plant	108	18-Jan-21	02-Jun-21	15-Jul-21 A	24-Nov-21
Mortar Plant - Civil works	36	18-Jan-21	04-Mar-21	15-Jul-21 A	28-Aug-21
Mortar Plant - Installation	48	04-Mar-21	04-May-21	30-Aug-21	27-Oct-21
Mortar Plant - Commissioning	24	05-May-21	02-Jun-21	28-Oct-21	24-Nov-21
DG Store / Medical Lock	72	02-Aug-21	27-Oct-21	30-Aug-21	24-Nov-21
DG Store / Medical Lock Installation	48	02-Aug-21	27-Sep-21	30-Aug-21*	27-Oct-21
DG Store / Medical Lock - FSD Approval	24	28-Sep-21	27-Oct-21	28-Oct-21	24-Nov-21
TBM Assembly	65	18-Jul-21	04-Oct-21	22-Jul-21 A	08-Nov-21
WB TBM 1st Delivery	0		18-Jul-21		22-Jul-21 A
WB TBM Assembly - CH / Shield / Main Drive	23	19-Jul-21	13-Aug-21	26-Aug-21	21-Sep-21
WB TBM Assembly - Erector + Tail Skin Lifting	6	14-Aug-21	20-Aug-21	23-Sep-21	29-Sep-21
WB TBM 3rd Delivery	0		04-Oct-21		04-Oct-21*
WB TBM Assembly - Thrust Frame Installation	18	21-Aug-21	10-Sep-21	30-Sep-21	22-Oct-21
WB TBM Assembly - Tail Skin Welding	18	21-Aug-21	10-Sep-21	30-Sep-21	22-Oct-21
WB TBM Assembly - TBM Final Shifting	2	11-Sep-21	13-Sep-21	23-Oct-21	25-Oct-21
WB C&C / Cell 1 & 2 Gantry Wall + Rail + Shifting Way	12	14-Sep-21	28-Sep-21	26-Oct-21	08-Nov-21
SUB-SEA TBM TUNNEL - EASTBOUND	30	19-Aug-21	24-Sep-21	19-Aug-21	04-Nov-21
TBM Assembly	30	19-Aug-21	24-Sep-21	19-Aug-21	04-Nov-21
EB TBM 2nd Delivery	0		19-Aug-21		19-Aug-21*
EB TBM Assembly - CH / Shield / Main Drive	23	21-Aug-21	16-Sep-21	30-Sep-21	28-Oct-21
EB TBM Assembly - Erector + Tail Skin Lifting	6	17-Sep-21	24-Sep-21	29-Oct-21	04-Nov-21
SUB-SEA TUNNEL CROSS PASSAGE (CP7-CP27a	216	05-May-21	21-Jan-22	10-May-21 A	31-Jan-22
CP TBM Design / Fabrication / FAT / Delivery	216	05-May-21	21-Jan-22	10-May-21 A	31-Jan-22
Design	72	05-May-21	30-Jul-21	01-Jun-21 A	30-Jul-21 A
Fabrication / Refurbishment	144	31-Jul-21	21-Jan-22	10-May-21 A	31-Jan-22
CHA KWO LING ROAD WORKS	49	29-Mar-21	31-May-21	19-Mar-21 A	14-Aug-21
Wai Yip Street / Cha Kwo Ling Road Junction	49	29-Mar-21	31-May-21	19-Mar-21 A	14-Aug-21
TTA Stage 8	18	29-Mar-21	22-Apr-21	19-Mar-21 A	17-Apr-21 A
TTA Stage 9	1	23-Apr-21	23-Apr-21	17-Apr-21 A	17-Apr-21 A
Section 8E Completion	0		31-May-21		14-Aug-21
Reinstatement	30	24-Apr-21	31-May-21	19-Apr-21 A	14-Aug-21
DRILL & BREAK TUNNEL [D&BR]	200	09-Apr-21	06-Dec-21	09-Apr-21 A	29-Dec-21
Precast Fabrication	96	09-Apr-21	03-Aug-21	09-Apr-21 A	27-Aug-21
Precast Service Gallery - Mould Design	24	09-Apr-21	07-May-21	09-Apr-21 A	05-May-21 A
Precast Service Gallery - Mould Fabrication & Setup	24	08-May-21	05-Jun-21	06-May-21 A	16-Jul-21 A
Precast Service Gallery - Mass Production Start	0	07-Jun-21		17-Jul-21 A	
Precast Service Gallery	48	07-Jun-21	03-Aug-21	17-Jul-21 A	27-Aug-21
Tunnel Excavation	154	06-Jul-21	06-Dec-21	28-Jun-21 A	29-Dec-21
EB - D&Br Tunnel - CH9055-9040 Type D - Excavation Top	40	06-Jul-21	14-Aug-21	28-Jun-21 A	26-Aug-21
EB - D&Br Tunnel - CH9040-9025 Type D - Excavation Top	39	15-Aug-21	22-Sep-21	27-Aug-21	04-Oct-21
Probe hole at CH9025	1	23-Sep-21	23-Sep-21	05-Oct-21	05-Oct-21



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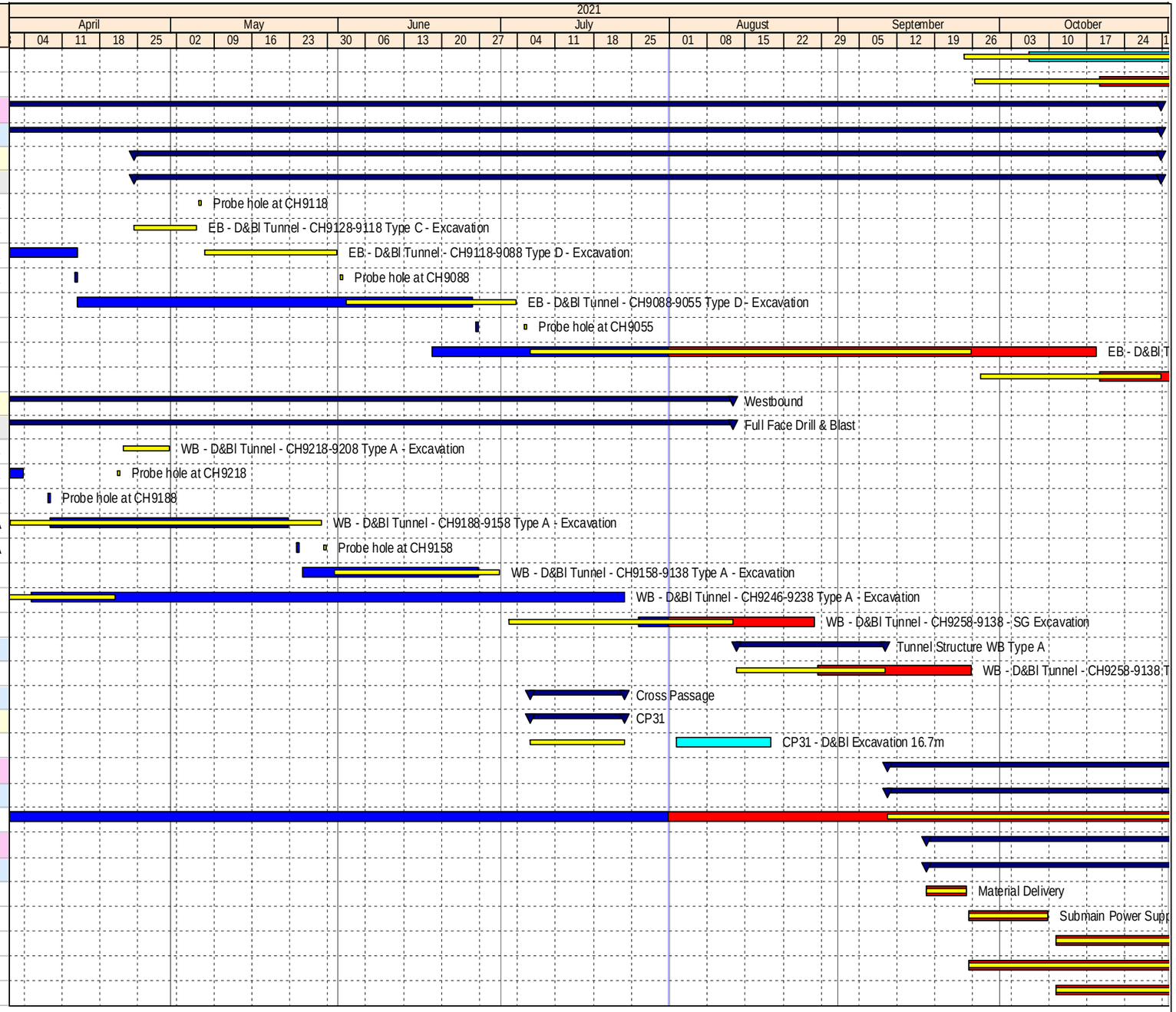
09-Oct-20	01V3	SPa/LLo	WYu
02-Jul-21	02V0	SPa/LLo	WYu

Activity Name	Dur	02V0 Start	02V0 Finish	Start	Finish
EB - D&Br Tunnel - CH9025-9010 Type D - Excavation Top	40	24-Sep-21	02-Nov-21	06-Oct-21	14-Nov-21
EB - D&Br Tunnel - CH9055-9020 Type D - Excavation Bench & SG	72	26-Sep-21	06-Dec-21	19-Oct-21	29-Dec-21
DRILL & BLAST TUNNEL [D&BL]	235	14-Jan-21	30-Oct-21	04-Mar-21 A	19-Nov-21
Tunnel Excavation	235	14-Jan-21	30-Oct-21	04-Mar-21 A	19-Nov-21
Eastbound	156	24-Apr-21	30-Oct-21	13-Mar-21 A	19-Nov-21
Full Face Drill & Blast	156	24-Apr-21	30-Oct-21	13-Mar-21 A	19-Nov-21
Probe hole at CH9118	1	06-May-21	06-May-21	13-Mar-21 A	13-Mar-21 A
EB - D&Bl Tunnel - CH9128-9118 Type C - Excavation	9	24-Apr-21	05-May-21	13-Mar-21 A	20-Mar-21 A
EB - D&Bl Tunnel - CH9118-9088 Type D - Excavation	20	07-May-21	31-May-21	20-Mar-21 A	13-Apr-21 A
Probe hole at CH9088	1	01-Jun-21	01-Jun-21	13-Apr-21 A	13-Apr-21 A
EB - D&Bl Tunnel - CH9088-9055 Type D - Excavation	26	02-Jun-21	03-Jul-21	13-Apr-21 A	25-Jun-21 A
Probe hole at CH9055	1	05-Jul-21	05-Jul-21	26-Jun-21 A	26-Jun-21 A
EB - D&Bl Tunnel - CH9160-9055 Type B/C/D - Enlargement	70	06-Jul-21	25-Sep-21	18-Jun-21 A	18-Oct-21
EB - D&Bl Tunnel - Branch Tunnel S01	28	27-Sep-21	30-Oct-21	19-Oct-21	19-Nov-21
Westbound	170	14-Jan-21	12-Aug-21	04-Mar-21 A	27-Aug-21
Full Face Drill & Blast	170	14-Jan-21	12-Aug-21	04-Mar-21 A	27-Aug-21
WB - D&Bl Tunnel - CH9218-9208 Type A - Excavation	8	22-Apr-21	30-Apr-21	04-Mar-21 A	13-Mar-21 A
Probe hole at CH9218	1	21-Apr-21	21-Apr-21	15-Mar-21 A	03-Apr-21 A
Probe hole at CH9188	1	31-Mar-21	31-Mar-21	08-Apr-21 A	08-Apr-21 A
WB - D&Bl Tunnel - CH9188-9158 Type A - Excavation	44	01-Apr-21	28-May-21	08-Apr-21 A	22-May-21 A
Probe hole at CH9158	1	29-May-21	29-May-21	24-May-21 A	24-May-21 A
WB - D&Bl Tunnel - CH9158-9138 Type A - Excavation	26	31-May-21	30-Jun-21	25-May-21 A	26-Jun-21 A
WB - D&Bl Tunnel - CH9246-9238 Type A - Excavation	76	14-Jan-21	20-Apr-21	05-Apr-21 A	23-Jul-21 A
WB - D&Bl Tunnel - CH9258-9138 - SG Excavation	36	02-Jul-21	12-Aug-21	26-Jul-21 A	27-Aug-21
Tunnel Structure WB Type A	24	13-Aug-21	09-Sep-21	28-Aug-21	25-Sep-21
WB - D&Bl Tunnel - CH9258-9138 Type A - SG Installation	24	13-Aug-21	09-Sep-21	28-Aug-21	25-Sep-21
Cross Passage	16	06-Jul-21	23-Jul-21	02-Aug-21	19-Aug-21
CP31	16	06-Jul-21	23-Jul-21	02-Aug-21	19-Aug-21
CP31 - D&Bl Excavation 16.7m	16	06-Jul-21	23-Jul-21	02-Aug-21	19-Aug-21
EAST VENTILATION BUILDING [EVB]	66	10-Sep-21	29-Nov-21	13-Mar-21 A	29-Nov-21
Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	29-Nov-21
Westbound Excavation	66	10-Sep-21	29-Nov-21	13-Mar-21 A	29-Nov-21
TUNNEL E&M INSTALLATION & COMMISSIONING	42	17-Sep-21	08-Nov-21	17-Sep-21	08-Nov-21
TKO-LTT Admin Building	42	17-Sep-21	08-Nov-21	17-Sep-21	08-Nov-21
Material Delivery	6	17-Sep-21	24-Sep-21	17-Sep-21	24-Sep-21
Submain Power Supply Installation	12	25-Sep-21	09-Oct-21	25-Sep-21	09-Oct-21
Conduit Installation	24	11-Oct-21	08-Nov-21	11-Oct-21	08-Nov-21
Cable Trunking and Tray Installation	36	25-Sep-21	08-Nov-21	25-Sep-21	08-Nov-21
Cable Pulling	24	11-Oct-21	08-Nov-21	11-Oct-21	08-Nov-21



Milestone
Planned Bar
Critical Activity
Actual Milestone
Actual Work
Baseline Milestone
Baseline Bar
Summary

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

Three Months Rolling Programme (Jul-21)

BOUYGUES TRAVAUX PUBLICS

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

APPENDIX O
WASTE GENERATED IN THE REPORTING MONTH

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

Name of Department: CEDD

Contract No. ED/2018/04

Monthly Summary Waste Flow Table for 2021 (KT)

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	a.Total Quantity Generated (a=c+d+e)	b. Hard Rock and Large Broken Concrete	c. Reused in the Contract	d. Reused in Other Projects	e. Disposed as Public Fill	f. Imported Fill	g. Metals	h. Paper / Cardboard Packaging	i. Plastics	j. Chemical Waste	k. Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
January	22.430	4.842	0.500	21.540	0.390	0.000	173.190	0.200	0.000	0.600	0.130
February	23.765	5.428	0.390	23.240	0.135	0.000	50.360	0.000	0.000	0.000	0.090
March	41.630	5.679	0.000	41.497	0.133	0.000	295.980	0.000	0.000	2.400	0.120
April	26.409	9.446	0.820	24.043	1.546	0.000	273.540	0.660	0.000	3.000	0.100
May	33.370	9.878	0.397	11.781	21.192	0.000	113.200	0.000	0.000	0.000	0.080
June	39.039	5.817	0.450	37.130	1.459	0.000	97.600	0.340	0.000	0.000	0.090
Sub-total	186.642	41.091	2.557	159.230	24.855	0.000	1003.870	1.200	0.000	6.000	0.610
July	6.177	0.000	2.250	0.000	3.927	0.000	40.570	0.400	0.000	0.000	0.127
August	0.000										
September	0.000										
October	0.000										
November	0.000										
December	0.000										
Total	192.819	41.091	4.807	159.230	28.782	0.000	1044.440	1.600	0.000	6.000	0.737

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).