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By Post

Our Ref : P221002-EMA-202509-V Date : 10th October 2025

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Attn: Wilson CK Lam

Agreement No. DHSR/IEC/001

Consultancy Service of Independent Environmental Checker (IEC) for Relocation of Diamond Hill Fresh Water and Salt

Water Service Reservoirs to Caverns under Contract No. 21/WSD/21

Monthly EM&A Report for September 2025

Dear Sir,

Pursuant to Condition 3.4 of Environmental Permit (EP) No. EP-602/2021, please note the Monthly Environmental and Audit Report for September 2025, dated 10 October 2025 submitted under the EP, certified by the Environmental Team Leader on 10 October 2025, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting.

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited

Ting Po Chung Ivan

Independent Environmental Checker







Contract No. 21/WSD/21

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

Monthly Environmental and Audit Report September 2025

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Date	10 October 2025	10 October 2025		





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EXECUTIVE SUMMARY

This is the 30th Monthly Environment Monitoring and Audit (EM&A) Report for Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns (the Project). This report was prepared by Acuity Sustainability Consulting Limited under Contract No. 21/WSD/21 (hereafter called "the Contract"). This report documents the findings of EM&A works during the reporting period from 1 Sep to 30 Sep 2025.

Key Construction Works in the Reporting Period

A summary of construction activities undertaken during the reporting period is presented below:

Portions 1 & 3:

- PAB 355 pipe piling
- PAB Excavation & Tie Back Installation
- ELS installation
- Plate load test
- Pump house E&M provision
- CLP cable draw pit and ducting construction
- Tunnel Excavation Q1&Q2, Arch install, Shotcrete, Drilling works and grouting
- Site Set up, Tunnel entrance, traffic from South opening, Crawler Crane demolition & off site
- DN1400 drainage jacking system & operation
- DN600 jacking, ELS system and operation

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works





- GI works, pipe piling, grouting works, pipe support installation inside concrete sleeve pipe
- Pipe jacking work

Environmental Monitoring and Audit Programme

The monthly EM&A programme was undertaken by the Environmental Team in accordance with the EM&A Manual. A summary of the monitoring and audit activities during the reporting period is presented below:

Table I Summary of EM&A Activities in the Reporting Period

EM&A Activities	Date		
1-hour TSP Monitoring	5, 11, 17, 22 and 29 Sep 2025		
Construction Noise Monitoring	5, 11, 17, 22 and 29 Sep 2025		
Weekly Environmental Site Inspection	5, 12, 17 and 26 Sep 2025		

Breaches of Action and Limit Levels

A summary of the environmental monitoring exceedance of the reporting period is tabulated in **Table II**.

Table II Summary of Exceedance in the Reporting Period

Environmental Monitoring	Parameter	pro rela	f non- ject ited lances	Total no. of non-project related exceedances	No. of exceedances related to the project AL LL		Total no. of exceedances related to the project
Air Quality	1-hour TSP	0	0	0	0	0	0
Noise	L_{eq} (30-min)	0	0	0	0	0	0

Note:

Air Quality

No exceedance of Action Level or Limit Level was recorded for 1-hour TSP monitoring during the reporting period.

Construction Noise

No Action Level exceedance was recorded for construction noise monitoring during the reporting period.

^{1.} AL refers to Action Level and LL refers to Limit Level.

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No Limit Level exceedance was recorded for construction noise monitoring during the reporting period.





Complaint Log

No environmental complaint was received in the reporting period.

Notification of Summons and Successful Prosecutions

No notification of summons or successful prosecutions was received in the reporting period.

Reporting Change

There was no reporting change in the reporting period.

Future Key Construction Activities

Key construction activities to be considered in the next two months included:

Portion 1 & 3:

- PAB 355 pipe piling
- PAB Excavation & Tie Back Installation
- ELS installation
- Plate load test, Raft footing construction
- Pump house E&M provision
- CLP cable draw pit and ducting construction
- Tunnel Excavation Q1&Q2, Arch install, Shotcrete, Drilling works and grouting
- Site Set up, Tunnel entrance, traffic from South opening, Crawler Crane demolition & off site
- DN1400 drainage jacking system & operation
- DN600 jacking, ELS system and operation

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works





- GI works, pipe piling, grouting works, pipe support installation inside concrete sleeve pipe
- Pipe jacking work

Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, construction noise, water pollution control, waste management and landscape and visual.

1. INTRODUCTION

1.1 Project Background

- 1.1.1 The relocated Diamond Hill Fresh Water and Salt Water Service Reservoirs (DHSRs) will be constructed in a series of caverns linked by access tunnels and adits. The relocated Diamond Hill Fresh Water Service Reservoirs (DHFWSR) and Diamond Hill Salt Water Service Reservoirs (DHSWSR) will be compartmented while the existing Diamond Hill Pumping Station (DHPS) will be split into two (2) pump houses for fresh and salt water supply when relocated.
- 1.1.2 Ancillary facilities to be constructed near the tunnel portal may include transformer room, switch room, emergency generator room, control room, ventilation building, and pumping station control room, which will be constructed in an above-ground building outside the tunnel.
- 1.1.3 The scope of the Project comprises the following:
 - a) Construction of the relocated DHSRs and associated pumping stations and water main laying works;
 - b) Construction of tunnels, adits, ventilation system and caverns for accommodating the relocated DHSRs and the associated facilities;
 - c) Terminating the operation of the existing DHSRs and the associated facilities; and
 - d) All other associated works that are incidental to and necessary for the completion of the Project.
- 1.1.4 The major construction activities of the Project include earthworks, drilling and blasting, construction of concrete structures, handling and transportation of excavated materials, water mains laying, installation of electrical and mechanical (E&M) equipment and material transportation. The operation of the existing DHSRs and the associated facilities will be terminated after the completion of the testing and commissioning of the relocated DHSRs. Under the Project, the existing DHSRs and associated facilities will be retained after termination of the operation. The subsequent demolition works will be carried out by other government departments/ project proponents.





- 1.1.5 The Project construction was commenced on 31 March 2023 and the completion date for the construction works would be on 12 April 2027.
- 1.1.6 The Project is a Designated Project under Item Q.2, Part I of Schedule 2 of the Environmental Impact Assessment Ordinance, "Underground Rock Caverns", which requires an environmental permit from the Environmental Protection Department (EPD) for its construction and operation.
- 1.1.7 Pursuant to the Environmental Impact Assessment Ordinance (EIAO), the Director of EPD granted the Environmental Permits (EP-602/2021) to the Water Supplies Department (WSD) for the Project.
- 1.1.8 Acuity Sustainability Consulting Limited (ASCL) is commissioned by Chun Wo Sinohydro Joint Venture to undertake the role of Environmental Team under the Environmental Permit (EP) EP-602/2021, and to carry out the EM&A programme in fulfilment of the EM&A Manual, and other requirements stipulated in the associated EIA Report.
- 1.1.9 This is the 30th Monthly EM&A Report summarizing the key findings of the construction phase EM&A programme from 1 Sep to 30 Sep 2025 (the reporting period) and is submitted to fulfil the requirements under Condition 3.4 of EP-602/2021 and Section 13.3 of the EM&A Manual of the Project.

1.2 Construction Works Programme

1.2.1 The construction works of the Project was commenced on 31 March 2023. The construction works programme, and the location of construction works of the Project are shown in **Appendix A** and **Figure 1.1**, respectively. A summary of construction activities undertaken during the reporting period is presented below:

Portions 1 & 3:

- PAB 355 pipe piling
- PAB Excavation & Tie Back Installation
- ELS installation
- Plate load test, Raft footing construction
- Pump house E&M provision
- CLP cable draw pit and ducting construction
- Tunnel Excavation Q1&Q2, Arch install, Shotcrete, Drilling works and grouting
- Site Set up, Tunnel entrance, traffic from South opening, Crawler Crane demolition & off site
 - DN1400 drainage jacking system & operation





Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works
- Pipe jacking work

1.2.2 **Table 1.1** summarise the status of temporary traffic sections near the works sites.

 Table 1.1
 Status of the Temporary Traffic Arrangement (TTA) Sections

Name of TTA	Status
Section 1 – Lion Rock Road	Implemented
Section 1 - Chuk Yuen Road (Westbound) near Tin Ma Court	Implemented
Section 1 - Chuk Yuen Road (Eastbound) near Tin Wang Court	Implemented
Section 2 - Chuk Yuen Road near Pang Ching Court	Implemented
Section 2 – Chuk Yuen Road near Pang Ching Court (eastbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen South Estate (westbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen Estate Bus Terminus (westbound)	Implemented
Section 2 - Chuk Yuen Road near Chuk Yuen Estate Bus Terminus (eastbound)	Implemented
Section 3 - Chuk Yuen Road near Bus Terminus (eastbound)	Implemented
Section 3 - Chuk Yuen Road near Market (westbound)	Implemented





Name of TTA	Status
Section 3 - Tsz Wan Shan Road stage 3	Implemented
Section 3 - Lung Fung Street (Open Trech Section)	Implemented
Section 3 – Ming Fung Street	Implemented
Section 3 – Sheung Fung Street	Implemented





1.3 Project Organization

- 1.3.1 Different parties with different levels of involvement in the Project organization include:
 - Project Proponent: Water Supplies Department (WSD)
 - Supervisor/ Engineer's Representative (ER): Binnies Hong Kong Limited
 - Contractor: Chun Wo Sinohydro Joint Venture
 - Environmental Team (ET): Acuity Sustainability Consulting Limited
 - Independent Environmental Checker (IEC): Umwelt Consulting Limited
- 1.3.2 The key personnel contact names and telephone number are presented in **Appendix B**.

1.4 License, Notification and Permits

1.4.1 A summary of the relevant permit, licences, and/ or notifications on environmental protection for this Project are presented in **Table 1.2**.

Table 1.2 Status of Environmental License, Notifications and Permits

Dameit / Liamaa Na	Valid	C4-4					
Permit / License No.	From	Expired On	Status				
Environmental Permit							
EP-602/2021	14/12/2021	-	Valid				
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation							
Ref. No.: 487301	09/12/2022	-	Valid				
Billing Account for Disposal of Constru	ıction Waste						
7046085	04/01/2023	-	Valid				
Registration of Chemical Waste Produc	cer						
WPN 5213-282-C4760-0	30/12/2022	-	Valid				
Effluent Discharge License under Wate	r Pollution Contr	ol Ordinance					
WT00043965-2023	31/05/2023	31/05/2028	Valid				
WT10002621-2023	11/07/2025	30/04/2029	Valid				
Construction Noise Permit							
GW-RE1072-25 (Portion 1 & 3)	10/09/2025	09/02/2026	Valid				
GW-RE0951-25 (Portion 5)	13/08/2025	13/12/2025	Valid				
GW-RE0996-25 (Portion 5)	02/09/2025	28/02/2026	Valid				



1.4.2 The submission status of the EP and the implementation status of the mitigation measures stated in the EP had been reviewed, all submission were submitted/deposited to the Director of Environmental Protection (DEP) on schedule, no non-compliance of EP conditions was recorded during the reporting period. The summary of submission status under Environmental Permit EP-602/2021 are summarized in **Table 1.3**.

Table 1.3 Summary of Status of Submission under EP-602/2021

Table 1.5 Summary of Status of Submission under EP-002/2021			
EP Condition	Title of Submission	Submission Status	
1.11	Commencement Date of Construction	Notified the DEP on 22 Feb 2023	
2.9	Management Organization(s)	Informed the DEP on 20 Feb 2023	
2.10	Environmental Permit (EP) Submission Schedule	22 Feb 2022 (1st Submission)	
2.11	Construction Works Schedule and Location Plan	28 Feb 2023 (Deposited)	
2.12	Construction Noise Management Plan (CNMP)	 28 Feb 2023 (1st submission) The EPD's comments were issued on 8 Mar 2023 The revised CNMP was submitted to the EPD for comment on 31 Jul 2023. The EPD issued further comments on 16 Aug 2023. The CNMP was further revised, certified by the ET Leader, verified by the IEC, and issued to the EPD on 22 Aug 2023. The revised CNMP was submitted to the EPD for comment on 15 Sept 2023. The EPD had no further comment on 5 Oct 2023. 	
2.13	Waste Management Plan (WMP)	 28 Feb 2023 (1st submission) The EPD's comments were issued on 3 Apr 2023. The revised WMP was submitted to the EPD for comment on 26 July 2023. The WMP was further updated and submitted to the EPD on 16 Aug 2023. 	



EP Condition	Title of Submission	Submission Status
		• The EPD had no further comment on 19 Sep 2023.
2.14	Landscape and Visual Mitigation Plan (LVMP)	 28 Feb 2022 (1st Submission) The EPD's comments were issued on 29 Mar 2023. The revised LVMP was certified by the ET Leader, verified by the IEC, and issued to the EPD on 22 Aug 2023. The EPD issued further comments on 11 Sep 2023. The revised LVMP was certified by the ET Leader, verified by the IEC, and issued to the EPD on 15 Jan 2024. The EPD issued further comments on 31 Jan 2024. The revised LVMP was certified by the ET Leader, verified by the ET Leader, verified by the ET Leader, verified by the EPD on 19 Apr 2024 The EPD had no further comment on 29 Apr 2024.
3.3	Baseline Monitoring Report	 17 Mar 2023 (1st Submission) 27 Apr 2023 (2nd Submission) 1 June 2023 (3rd Submission) 13 July 2023 (Formal submission) 3 Aug 2023 (accepted by the EPD)
3.4	Monthly EM&A Report (August 2025)	15 September 2025
4.2	Dedicated Internet Website	2 May 2023

1.4.3 Following the EPD's comments on the Baseline Monitoring Report (Ref. No. BMR-3.1, dated 17 March 2023), updating of air quality and noise monitoring locations were proposed, including cancellation of noise monitoring station at Tower 1, Meridian Hill (NM-1), resumption of air quality and noise monitoring stations at Block 6, Tsui Chuk Garden (i.e. DM-4 and NM-4) and proposal of new noise monitoring locations at Wo Tin House, Shatin Pass Estate (NM-5) and Sheung Fung Street Customs Staff Quarter (NM-6).



1.4.4 Additional baseline monitoring for air quality monitoring station DM-4, and noise monitoring stations NM-4, NM-5 and NM-6 was carried out between 2 May and 16 May 2023. The Baseline Monitoring Report was updated with all baseline monitoring results included, certified by the ET Leader, and verified by the IEC on 30 May 2023. The updated Baseline Monitoring Report was submitted to the EPD on 1 June 2023. A minor comment was received from the EPD on 26 June 2023. Following the advice from the EPD, the Report was formally submitted to the EPD on 13 July 2023 after amendment. The Report was accepted by the EPD on 3 August 2023.

1.5 Brief Summary of EM&A Requirements

Air Quality

- 1.5.1 In accordance with the EM&A Manual, the ET shall carry out impact monitoring during construction phase of the project. For 1-hour Total Suspended Particulates (TSP) monitoring, the sampling frequency of at least three times every six days should be undertaken when the highest dust impact occurs.
- 1.5.2 Action and Limit Levels for the 1-hour TSP monitoring works are discussed in **Section 2.4**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.3 The air quality mitigation measures detailed in the EM&A Manual were recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

Noise Monitoring

- 1.5.4 Construction noise monitoring should be carried out at the designated monitoring stations directly affected by the construction works once every week after the commencement of construction. During construction works, one set of $L_{eq(30-\text{min})}$ measurement at each station between 0700 and 1900 hours on normal weekdays shall be taken. If construction works are extended to include works during the period between 1900 and 0700 hours, additional weekly impact monitoring shall be carried out during evening and night-time works.
- 1.5.5 Action and Limit Levels for the noise monitoring are discussed in **Section 3.5**. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.
- 1.5.6 The noise mitigation measures detailed in the EM&A Manual are recommended to be implemented during the construction phase. The implementation statuses of these measures are presented in **Appendix D**.

Environmental Requirements in Contract Documents

1.5.7 According to *Particular Specification (PS)*, the Contractor shall undertake environmental protection measures to reduce the environmental impacts arising from



the execution of the works. The Contractor shall also observe and comply with relevant environmental protection and pollution control ordinances. The Contractor shall design, construct, operate and maintain pollution control measures to ensure compliance with the contract provisions as well as the environmental ordinances and their regulations.

1.5.8 The Contractor shall also:

- Implement air pollution and noise abatement practices as specified in *PS*;
- Minimise generation of wastewater from the Site;
- On-site sorting of Construction and Demolition (C&D) materials;
- Establish a mechanism to record the quantities of C&D materials generated each month, using the monthly summary "Waste Flow Table";
- Control the use of timbers;
- Implement a trip ticket system (TTS) for tracking the removal of C&D materials from the Site to the disposal grounds;
- Prepare an Environmental Management Plan (EMP) in accordance with GS Section 25 and *PS* for implementation on the Site to reduce environmental nuisance and C&D materials arising from Works, throughout the construction period;
- Arrange weekly environmental walk to inspect the Site, checking that the
 environmental performance of the Site is satisfactory and in compliance with the
 requirements under the contract and EMP; and
- Carry out site specific induction training about environmental management as well as safety for all staffs and workers, and provide toolbox talks for workers on environmental nuisance abatement and waste management.

2. AIR QUALITY MONITORING

2.1 Monitoring Locations

2.1.1 The air quality monitoring locations for impact monitoring during the reporting period are listed in **Table 2.1** and presented in **Figure 2.1**.

 Table 2.1 Air Quality Monitoring Stations for Construction Phase

ID Description		Coordinates	
110	Description	Northing	Easting
DM-1	Tennis Court near Tin Ma Court	822705	837047
DM-2	Chun Sing House, Tin Ma Court	822673	837143





DM-3	Grace Methodist Church Kindergarten	822782	837227
DM-4	Block 6, Tsui Chuk Garden	822926	837246
DM-4a (1)	Road pavement near Wang King House, Tin Wang Court	822854	837340

Notes:

2.2 Air Quality Monitoring Parameter, Frequency and Duration

2.2.1 **Table 2.2** summarized the monitoring parameter, duration, and frequency of impact air quality monitoring.

Table 2.2 Impact Air Quality Monitoring Parameter, Duration and Frequency

Parameter	Frequency	Duration
1-hour TSP	3 times every 6 days	Throughout the construction phase

2.3 Monitoring Equipment and Methodology and QA/QC Procedure

Proposal of Using Portable Direct Reading Dust Meter

- 2.3.1 Direct reading dust meters were used for measuring 1-hour TSP levels during the impact air quality monitoring. According to Section 4.4.1 of the EM&A Manual, the proposed use of direct reading dust meters was submitted to and agreed by the IEC.
- 2.3.2 Sufficient number of monitoring instruments was prepared by the ET for carrying out the impact monitoring. All equipment and associated instrumentation were clearly labelled.
- 2.3.3 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.
- 2.3.4 Equipment used in the impact air quality monitoring programme is summarised in **Table 2.3.** Calibration certificates for the impact air quality monitoring equipment are attached in **Appendix E**.

An additional air quality monitoring station DM-4a was proposed by the ET and agreed by the ER, IEC and EPD.





Table 2.3 Impact Air Quality Monitoring Equipment

Equipment	Brand and Model	Serial No.	Calibration Due Date
D' (D 1)		2110283	23/02/2026
Direct Reading Dust Meter	PC-3A(E)	220710223	23/02/2026
		220710225	23/02/2026

Maintenance and Calibration

- 2.3.5 Direct reading dust meters have been calibrated against high volume samplers (HVSs) annually. A 2-day, three 3-hour measurement results per day from direct reading dust meters were taken to compare with the sampling results from the HVSs. The correlation between the direct reading dust meters and the HVSs were then concluded. By accounting for the correlation factor, the direct reading dust meters are considered to achieve comparable results as that of the HVSs.
- 2.3.6 The 1-hour TSP measurement follows the instruction provided in the manufacturer's manual. Before initiating a measurement, zeroing the portable dust meter was carried out to ensure the accuracy of each measurement.

2.4 Action and Limit Levels

2.4.1 The action and limit levels were established in accordance with the EM&A Manual. **Table 2.4** presents the action and limits levels for 1-hour TSP monitoring. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.

Table 2.4 Action and Limit Levels for 1-hour TSP

Monitoring Station	Action Level (µg/m³)	Limit Level (µg/m³)
DM-1	300.1	
DM-2	289.0	
DM-3	289.7	500
DM-4	294.9	
DM-4a	291.6	

2.5 Results and Observation

- 2.5.1 The impact air quality monitoring was conducted on 5, 11, 17, 22 and 29 Sep 2025. The impact air quality monitoring schedule for the reporting period is shown in **Appendix F**.
- 2.5.2 The monitoring results and graphical presentation of impact air quality monitoring are shown in **Appendix G**. No action or limit levels exceedance was recorded in the reporting period.





Table 2.5 Summary of Impact 1-hour TSP Monitoring Results

Monitoring	TSP C	concentration, μg/m ³		Action Level	Limit Level
Station	Average	Minimum	Maximum	Action Level	Limit Level
DM-1	39	26	47	300.1	
DM-2	40	31	52	289.0	
DM-3	39	30	48	289.7	500
DM-4	39	22	48	294.9	
DM-4a	38	27	50	291.6	

2.5.3 During the impact air quality monitoring, the major dust sources at each monitoring stations were summarized in **Table 2.6**.

Table 2.6 Influencing Factors at/ near Air Quality Monitoring Stations

Monitoring Stations	Influencing Factors
DM-1	Not identified
DM-2	Not identified
DM-3	Not identified
DM-4	Not identified
DM-4a	Not identified

2.5.4 Weather conditions during impact monitoring are presented in **Appendix G** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.





3. NOISE MONITORING

3.1 Monitoring Locations

3.1.1 The monitoring locations for construction noise monitoring are listed in **Table 3.1** and shown in **Figure 3.1**.

Table 3.1 Noise Monitoring Stations during Construction Phase

ID	Degavintion	Maagunamant	Coordinates	
ш	Description	Measurement	Northing	Easting
NM-2	Chun Sing House, Tin Ma Court	Façade	822668	837143
NM-3	Grace Methodist Church Kindergarten	Façade	822782	837227
NM-4	Block 6, Tsui Chuk Garden	Façade	822926	837246
NM-4a ⁽¹⁾	Road pavement near Wang King House, Tin Wang Court	Free field	822854	837340
NM-5 ⁽²⁾	Wo Tin House, Shatin Pass Estate	Façade	823360	838143
NM-6 ⁽²⁾	Sheung Fung Street Customs Staff Quarters	Free field	823134	838412

Notes:

The noise monitoring station proposed in the EM&A Manual (NM-1) was not available for baseline and impact monitoring. Therefore, impact monitoring at NM-1 was cancelled and agreed by the ER, IEC and EPD.

- (1) An additional noise monitoring station NM-4a was proposed by the ET and agreed by the ER, IEC and EPD.
- (2) Main laying works near NM-5 and NM-6 were commenced in early September 2023. Noise monitoring at NM-5 and NM-6 was commenced on 7 September 2023.

3.2 Noise Monitoring Parameter, Frequency and Duration

- 3.2.1 Construction noise level was measured by the ET and measured in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq(30-\text{min})}$ was adopted as the monitoring parameter for the construction noise monitoring.
- 3.2.2 As supplementary information for data auditing, statistical results such as L_{10} and L_{90} were also obtained for reference.
- 3.2.3 **Table 3.2** summarized the monitoring parameters, duration, and frequency of construction noise monitoring.

 Table 3.2 Construction Noise Monitoring Parameter, Frequency and Duration

Parameters	Time	Frequency	Duration
$L_{eq(30 ext{-min})}$	0700 and 1900 hours on normal weekdays	Once every week	Throughout the construction phase





3.3 Monitoring Equipment, Methodology and QA / QC Procedure

- 3.3.1 As referred to the technical memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and 804: 1985 (Type 1) specifications were used for carrying out the construction noise monitoring.
- 3.3.2 Noise measurements were not made in fog, rain, wind with a steady speed exceeding 5 m/s or wind with gusts exceeding 10 m/s. The wind speed was checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.3.3 Sufficient number of noise measuring equipment and associated instrumentation was prepared by the Environmental Team. All the equipment and associated instrumentation were clearly labelled.
- 3.3.4 Wind data were collected from the records of Hong Kong Observatory Kai Tak Wind Station (22.30966N, 114.21336E), which is located at the south-eastern side of runway of the former Kai Tak Airport about 4.5 km south-east from the project site.
- 3.3.5 The monitoring procedures are as follows:
 - For façade measurement, the monitoring station was set at a point 1 m from the exterior of the sensitive receiver building façade and set at a position 1.2 m above the ground. For free-field measurement, the monitoring station was set at a position 1.2 m above ground.
 - The battery condition was checked to ensure good functioning of the meter.
 - Parameters such as frequency weighting, the time weighting and the interval were set as follows:
 - Frequency weighting: A
 - Time weighting: Fast
 - Interval: 30 minutes ($L_{eq(30-min)}$) would be determined for

daytime noise by calculating the logarithmic

average of six consecutive $L_{eq(5-min)}$ data

- Prior to and after each noise measurement, the meter was calibrated using an acoustic calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement will be required after recalibration or repair of the equipment.
- At the end of the monitoring period, the values of L_{eq} , L_{90} and L_{10} were recorded. In addition, noise sources were recorded on a standard record sheet.
- 3.3.6 **Table 3.3** summarized the noise monitoring equipment used during the construction noise monitoring. Calibration certificates for the impact noise monitoring equipment are attached in **Appendix E**.





Table 3.3 Construction Noise Monitoring Equipment

Equipment	Model (Serial Number)	Calibration Due Date
Sound Level Meter	SVANTEK-SVAN 971 (C132261)	23/10/2025
Sound Level Meter	XL2 (A2A-13548-E0)	19/03/2026
Sound Calibrator	Rion NC-75 (34724243)	03/10/2025

3.4 Maintenance and Calibration

- 3.4.1 Maintenance and calibration procedures are as follows:
 - The microphone head of the sound level meter and calibrator were regularly cleaned with a soft cloth; and
 - The sound level meter and acoustic calibrator were calibrated annually by a HOKLAS accredited laboratory or the manufacturer.

3.5 Action and Limit Levels

3.5.1 The Action and Limit Levels were established in accordance with the EM&A Manual. **Table 3.4** presents the Action and Limit Levels for construction noise. Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan presented in **Appendix C** shall be carried out.

Table 3.4 Action and Limit Levels for Construction Noise Monitoring

Monitoring Stations	Action Level	Limit Level	Time Period
NM-2		75 dB(A)	
NM-3		70/65 dB(A) *	
NM-4	When one documented complaint is received	/3 UD(A)	
NM-4a		75 dB(A)	on normal weekdays
NM-5		75 dB(A)	
NM-6		75 dB(A)	

Notes:

If works are to be carried out during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

3.6 Results and Observations

- 3.6.1 The construction noise monitoring was conducted on 5, 11, 17, 22 and 29 Sep 2025. The monitoring schedule is presented in **Appendix F**.
- 3.6.2 The construction noise monitoring results are summarized in **Table 3.5**. No Action Level or Limit Level exceedance was recorded in the reporting period. Details of the results and graphical presentation are shown in **Appendix I**.

^{* 70} dB(A) for school and 65 dB(A) during school examination period.





Table 3.5 Summary of Construction Noise Monitoring Results

35	N	oise Level, dB	Limit Level		
Monitoring Station		L_{eq} (30-min)	Lillit Level		
Station	Mean	Minimum			
NM-2	65.7	63.8	67.7	75 dB(A)	
NM-3	63.2	62.7	64.1	70/65 dB(A) ⁽¹⁾	
NM-4	66.4	62.6	69.5	75 dB(A)	
NM-4a	69.7	65	71.4	75 dB(A)	
NM-5 ⁽²⁾	68.8	66.8	70.2	75 dB(A)	
NM-6 (2)	69.7	67.8	72.5	75 dB(A)	

Note:

- (1) 70 dB(A) for school and 65 dB(A) during school examination period.
- (2) Impact monitoring at NM-5 and NM-6 was commenced on 7 September 2023.
- 3.6.3 Weather conditions during impact monitoring are presented in **Appendix I** and extracts of wind data recorded at Kai Tak Wind Station available from the Hong Kong Observatory are presented in **Appendix H**.
- 3.6.4 During the construction noise monitoring period, the influencing factors which may affect the results are summarized in **Table 3.6**.

Table 3.6 Influencing Factors at Noise Monitoring Stations

Monitoring Stations	Influencing Factors			
NM-2	Road traffic noise, construction noise from 76 Broadcast Drive project			
NM-3	Road traffic noise			
NM-4	Road traffic noise			
NM-4a	Road traffic noise			
NM-5	Road traffic noise			
NM-6	Road traffic noise			





4. WASTE MANAGEMENT

4.1.1 Waste generated from the Project includes inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting period. The amount of waste generated by the construction works of the Project during the reporting period is shown in **Table 4.1** and the cumulative waste flow table was presented in **Appendix J**.

Table 4.1 Summary of Waste Generated in the Reporting Period

	Actua	l Quantalities	of Inert C&D	Materials G	enerated Mor	nthly	Actual Quantities of C&D Wastes Generated Monthly				Actual Quantities of C&D Wastes Recycled					
Month	Total Quantity Generated	Broken Concrete (including rock for recycling into aggregates)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard Packaging		Chemical Waste	Others e.g., general refuse	Metals	Paper/ cardboard packaging	Plastics (bottles/ containers, plastic sheets/foam package material)	Yard Waste	Others
	(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)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Sep 2025	3.6814	0.0000	0.0469	2.6314	1.0031	0	0.0000	0.0000	0.0000	0.0000	0.0233	0.0000	0.0091	0.0000	0.0000	0.0000

- 4.1.2 Construction and demolition (C&D) materials sorting was carried out on site. Sufficient receptacles were provided for general refuse collection and sorting. Excavated inert C&D materials were reused to minimize the disposal of C&D waste to public fill.
- 4.1.3 The Contractor was advised to minimize the amount of waste through recycling or reusing. All applicable mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented.
- 4.1.4 The total amount of waste generated since commencement of work was 42,375.1m³ and recyclables generated from office are sent to San Po Kong Recycling Store. Also, the main contractor was promoting plastic-free culture at site so no more drinks in plastic bottles selling at site since July 2023 to minimize the generation of plastic wastes.



5. ENVIRONMENTAL SITE INSPECTION AND AUDIT

- 5.1.1 Site inspections were carried out by the ET on a weekly basis to monitor the implementation of proper environmental pollution control mitigation measures for the Project. During the reporting period, site inspections were carried out on 5, 12, 17 and 26 Sep 2025. A joint site inspection with the ER, the Contractor and the IEC was carried out on 17 Sep 2025.
- 5.1.2 During the site inspections in the reporting period, no non-conformance was identified. Key observations and reminders during the site inspections are described in **Table 5.1.**

Table 5.1 Summary of Site Inspection Observations and Recommendations

Inspection Date	Key Observations/ Reminders	Follow-up Action
5 Sep 2025	No major environmental deficiency was observed	N/A
12 Sep 2025	No major environmental deficiency was observed	N/A
17 Sep 2025	Portion 3 1. Remove stagnant water to eliminate mosquito breeding	N/A
26 Sep 2025	Portion 3 & Portion 5 1. The materials in tree-protection zone should be removed on Portion 5. 2. The materials near tree-protection zone area should be removed on Portion 3.	Remove (Closed on 26 Sep 2025) Remove (Closed on 26 Sep 2025)

5.1.3 According to the EIA Report, EP and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. A summary of the Project Implementation Schedule is provided in **Appendix D.**





6. ENVIRONMENTAL NON-COMPLIANCE

6.1 Summary of Exceedance

- 6.1.1 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 6.1.2 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 6.1.3 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that the Action/ Limit Levels are exceeded, the actions in accordance with the Event and Action Plans in **Appendix C** would be carried out.

6.2 Summary of Environmental Non-Compliance

6.2.1 No environmental non-compliance was recorded in the reporting period.

6.3 Summary of Environmental Complaint

6.3.1 No environmental complaint was received in the reporting period. The Cumulative Complaint Log is presented in **Appendix K**.

6.4 Summary of Environmental Summon and Successful Prosecution

6.4.1 There was no successful environmental prosecution or notification of summons received since the Project commencement. The Cumulative Log for environmental summon and successful prosecution is presented in **Appendix K**.





7. FUTURE KEY ISSUE

7.1 Construction Works and Potential Environmental Issues in the next Reporting Period

- 7.1.1 The construction programme for the Project for the next reporting period is presented in **Appendix A**.
- 7.1.2 Works to be undertaken in the next two months are summarized below:

Portions 1 & 3:

- PAB 355 pipe piling
- PAB Excavation & Tie Back Installation
- ELS installation
- Plate load test, Raft footing construction
- Pump house E&M provision
- CLP cable draw pit and ducting construction
- Tunnel Excavation Q1&Q2, Arch install, Shotcrete, Drilling works and grouting
- Site Set up, Tunnel entrance, traffic from South opening, Crawler Crane demolition & off site
- DN1400 drainage jacking system & operation
- DN600 jacking, ELS system and operation

Portion 5:

- Open trench main laying works
- ELS for Receiving Pit
- Reinstatement works
- Backfilling works
- Trial Pit Works
- GI works, pipe piling, grouting works, pipe support installation inside concrete sleeve pipe





- Pipe jacking work
- 7.1.3 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust impact, noise impact, water quality impact, waste management and landscape and visual.

7.2 Recommendation

7.2.1 The key environmental mitigation measures for the Project in the coming reporting period associated with the above construction activities will include:

Dust

- Regular watering to reduce dust emissions from the exposed site surface;
- Stockpile of dusty materials shall be covered entirely by impervious sheeting;
- Provide vehicles washing facilities at all site exits to wash away any dusty materials from vehicle body;
- NRMM Labels should be displayed on the applicable equipment on site by the Contractor;
- All vehicle and plant should be cleaned before they leave a construction site.

<u>Noise</u>

- Only well-maintained plant should be operated on-site, and plant should be maintained regularly during the construction programme;
- Quality Powered Mechanical Equipment (QPME) should be adopted as far as possible.

Water Quality

- No effluent discharge would be allowed before the effluent discharge license is acquired.
- Surface run-off from construction sites should be discharged into dedicated discharge point via adequately designed sand/ silt removal facilities;
- Channels/ earth bunds/ sandbags barriers should be provided on site to properly direct stormwater to silt removal facilities;
- Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly;
- Open stockpiles of construction materials on sites should be covered with tarpaulin or similar fabric during rainstorms;





- Perimeter channels should be provided on site boundaries where necessary to intercept stormwater run-off from outside the site so that it will not wash across the site;
- Bare slope should be covered completely by using canvas to reduce muddy surface runoff during typhoons and rainstorms.

Waste Management

- Provision of sufficient waste disposal points and regular collection of waste;
- Regular cleaning and maintenance programme for drainage system;
- Chemical containers shall be stored with drip tray underneath;
- Storage, handling, transport, and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and collected by a licensed chemical waste collector.

Ecology

- Minimize loss of habitats and associated wildlife;
- Using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.

Landscape and Visual

 Adequate tree protection measures shall be provided for the trees to be retained on site.





8. CONCLUSION, COMMENTS AND RECOMMENDATION

8.1 Conclusion

- 8.1.1 This is the 30th Monthly EM&A Report presenting the EM&A works during the reporting period from 1 Sep to 30 Sep 2025 in accordance with the EM&A Manual.
- 8.1.2 No Action Level or Limit Level exceedance was recorded for 1-hour TSP monitoring in the reporting period.
- 8.1.3 No Action Level or Limit Level exceedance was recorded for construction noise monitoring in the reporting period.
- 8.1.4 Environmental site inspections were conducted on 5, 12, 17 and 26 Sep 2025 by the ET in the reporting period.
- 8.1.5 No environmental complaint was received in the reporting period.
- 8.1.6 No notification of summons and prosecution was received in the reporting period.
- 8.1.7 The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 8.1.8 No change to the EM&A programme was made in this reporting period.

8.2 Comments and Recommendations

- 8.2.1 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.
- 8.2.2 The ET had no recommendation following the completion of EM&A in the reporting period.

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





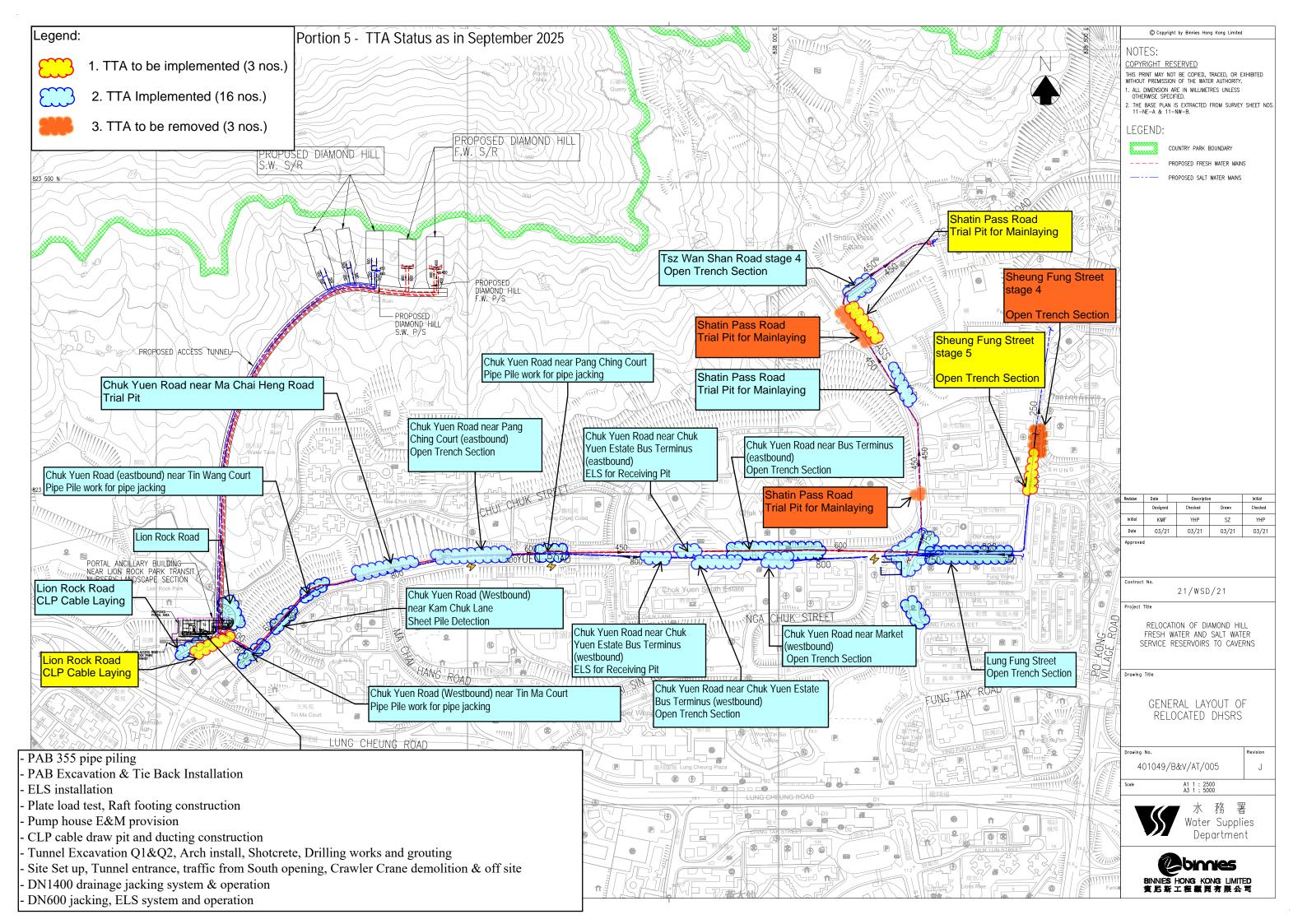
Figures

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





Figure 1.1 Project Layout Plan



Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





Figure 2.1 Air Quality Monitoring Stations

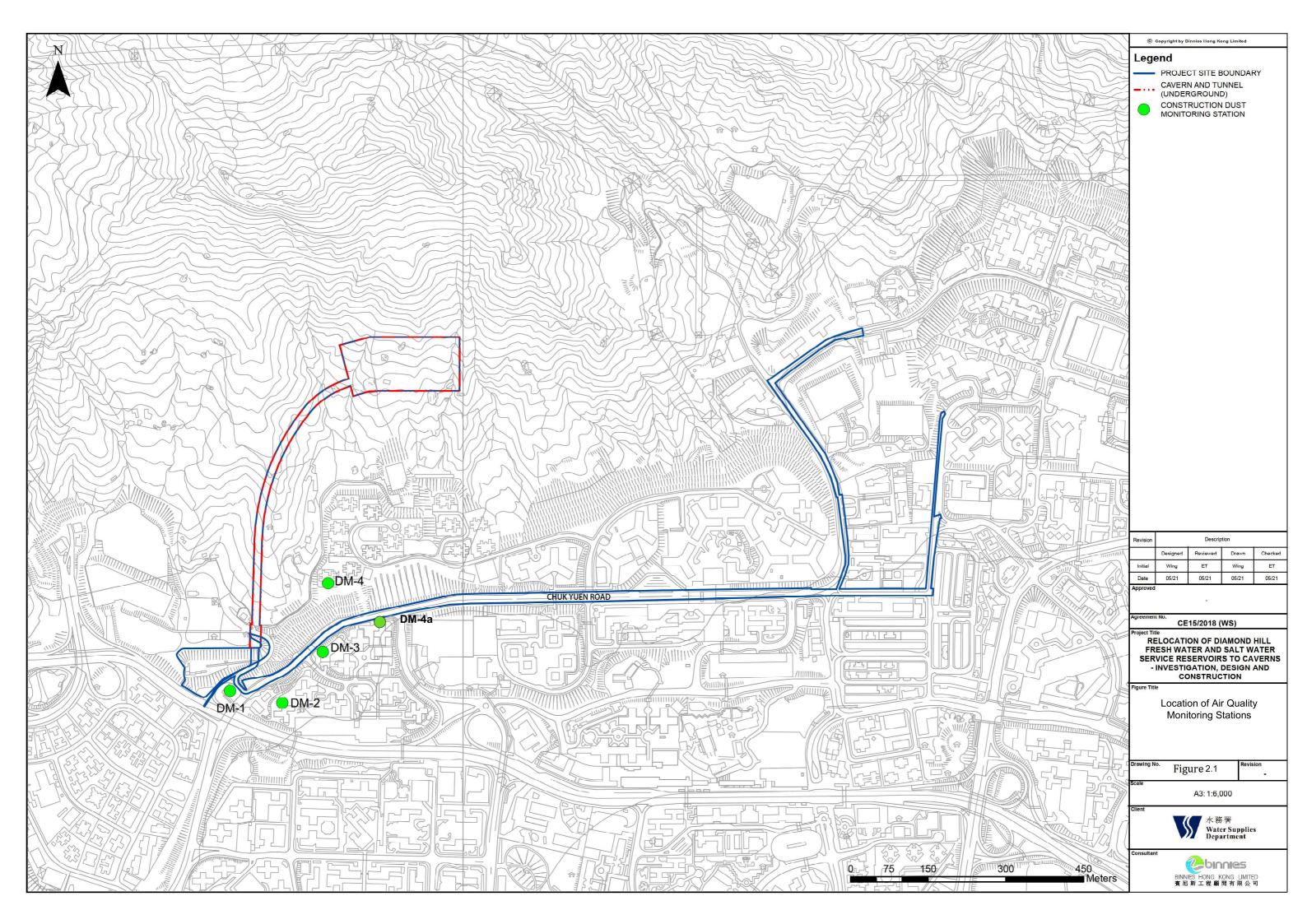
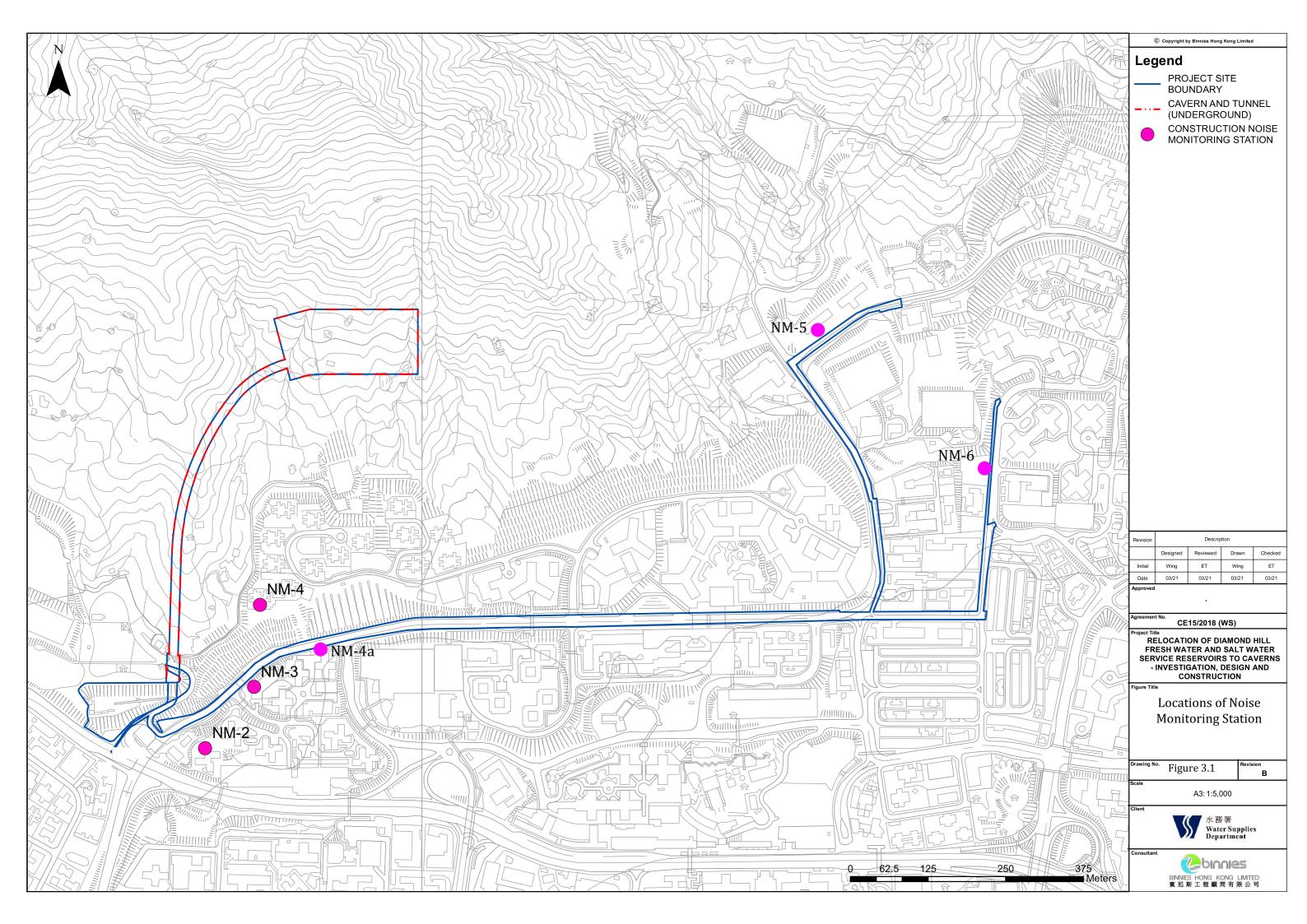






Figure 3.1 Construction Noise Monitoring Stations

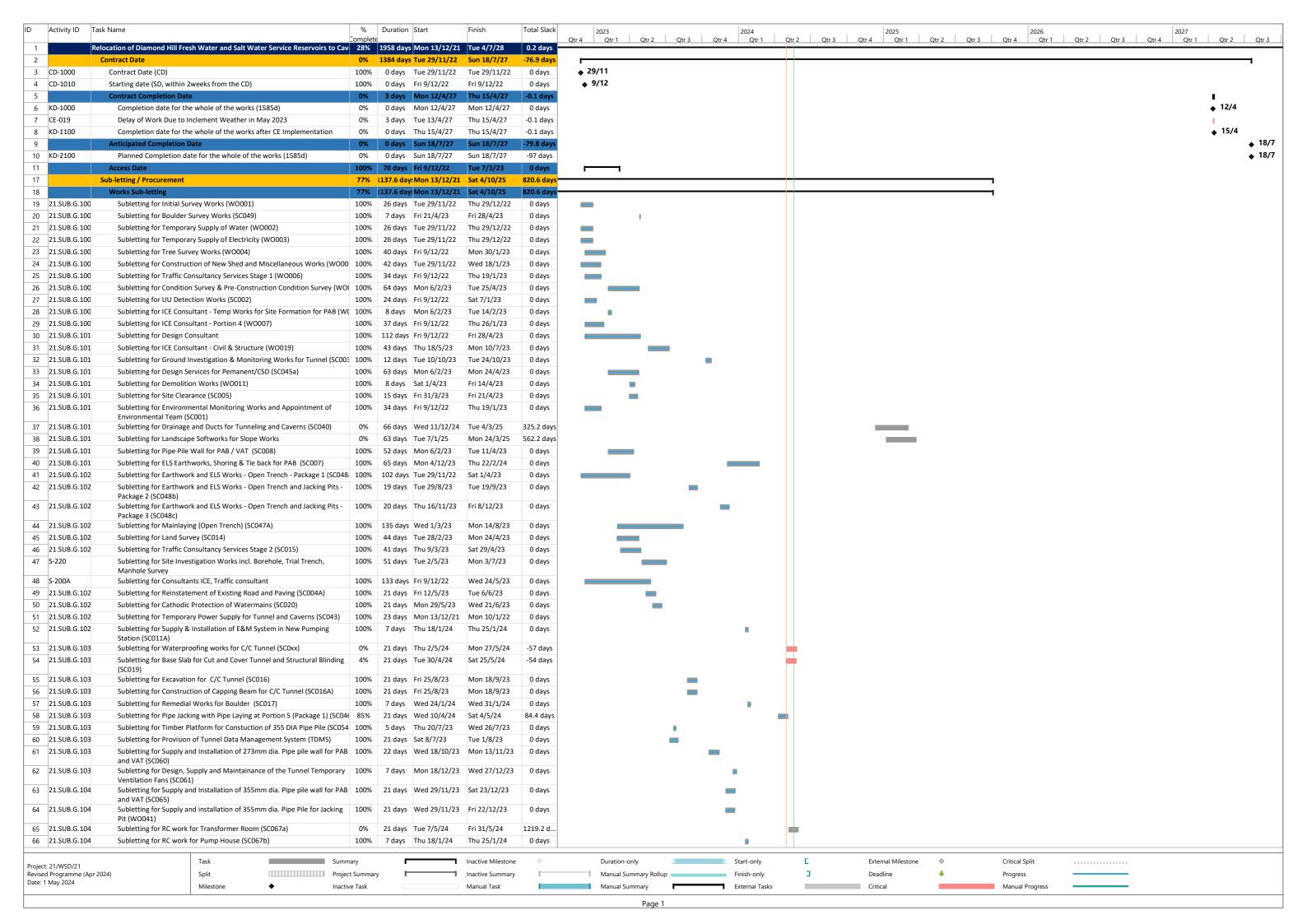




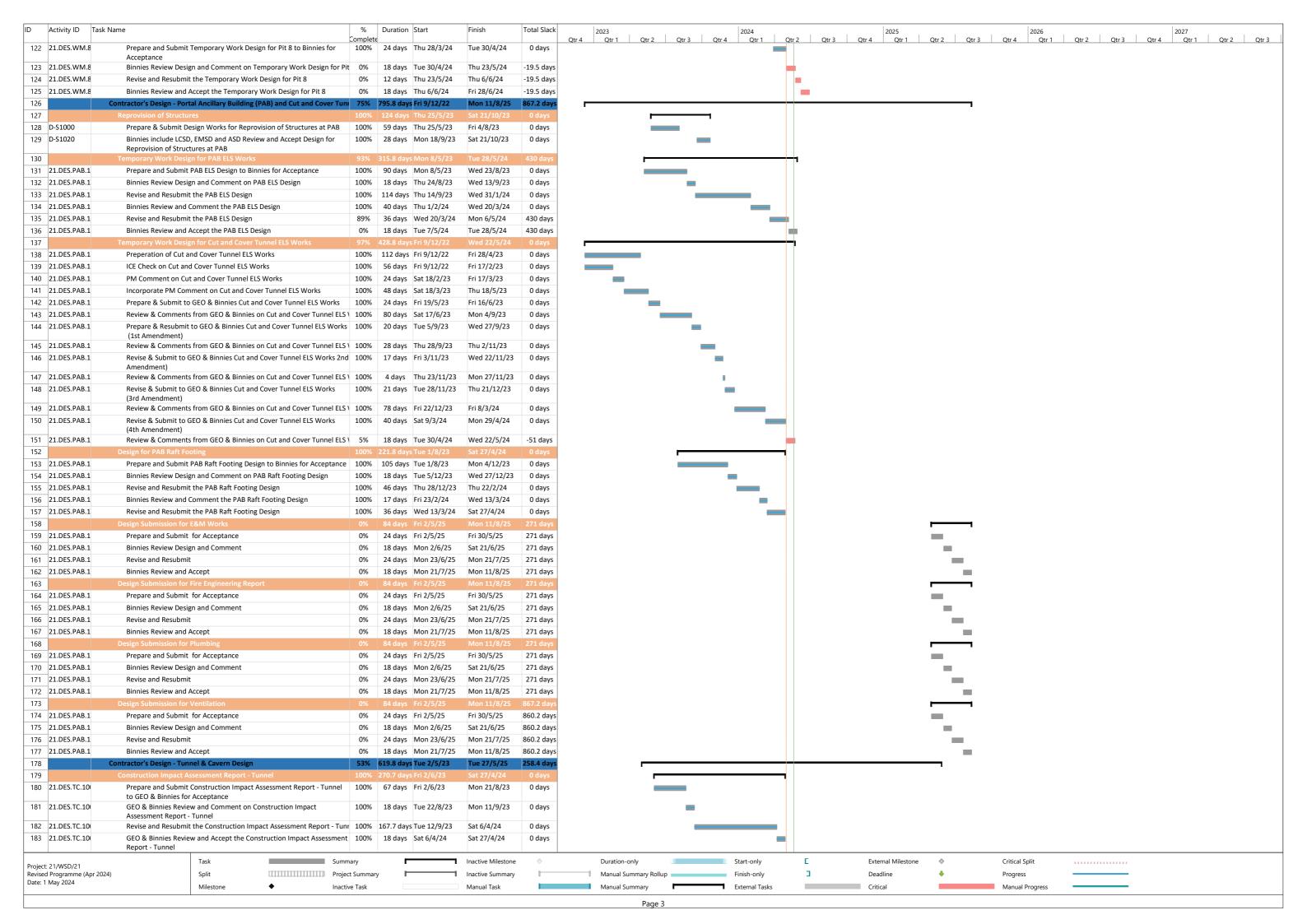


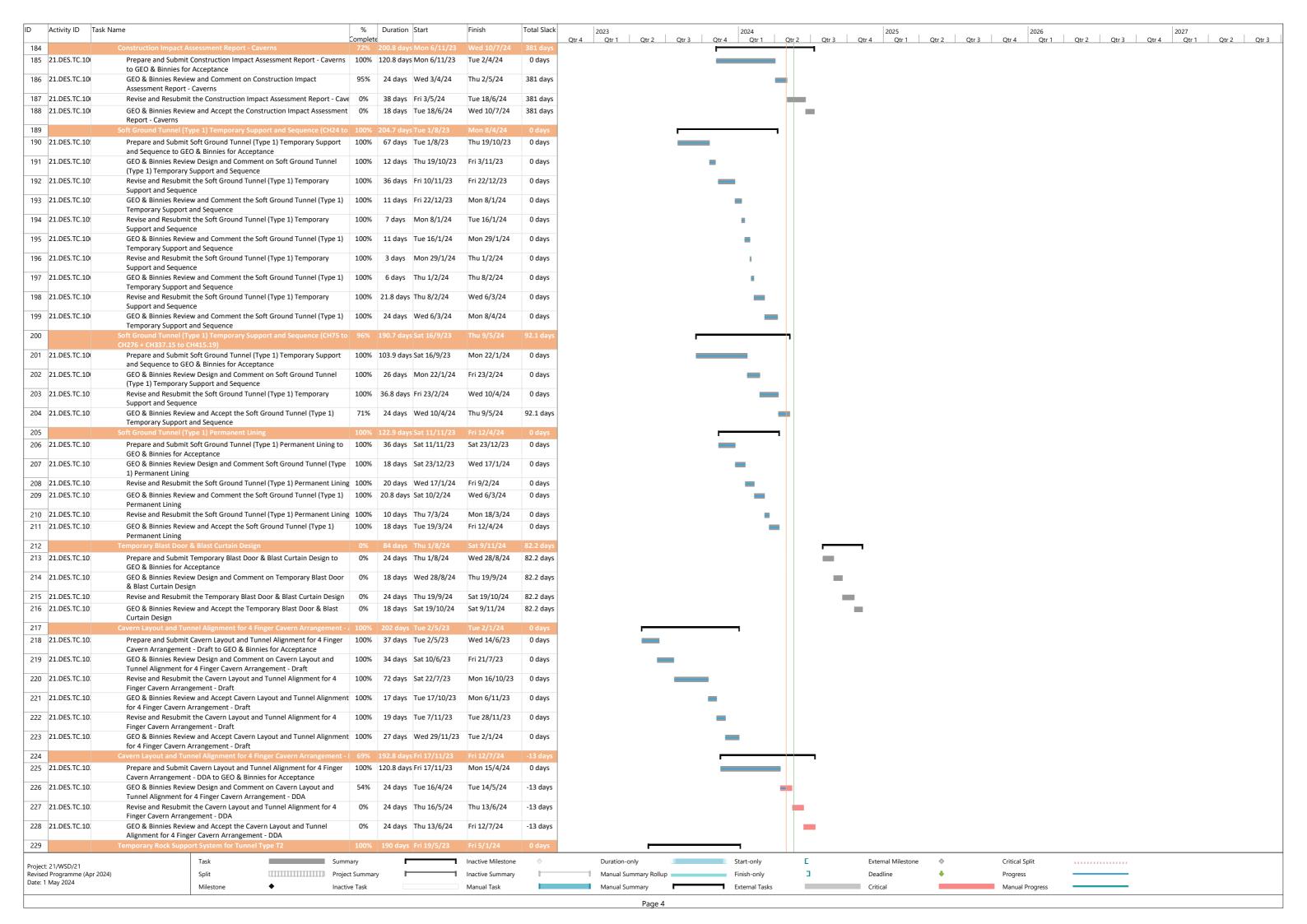
Appendix A

Master Construction Programme for the Project

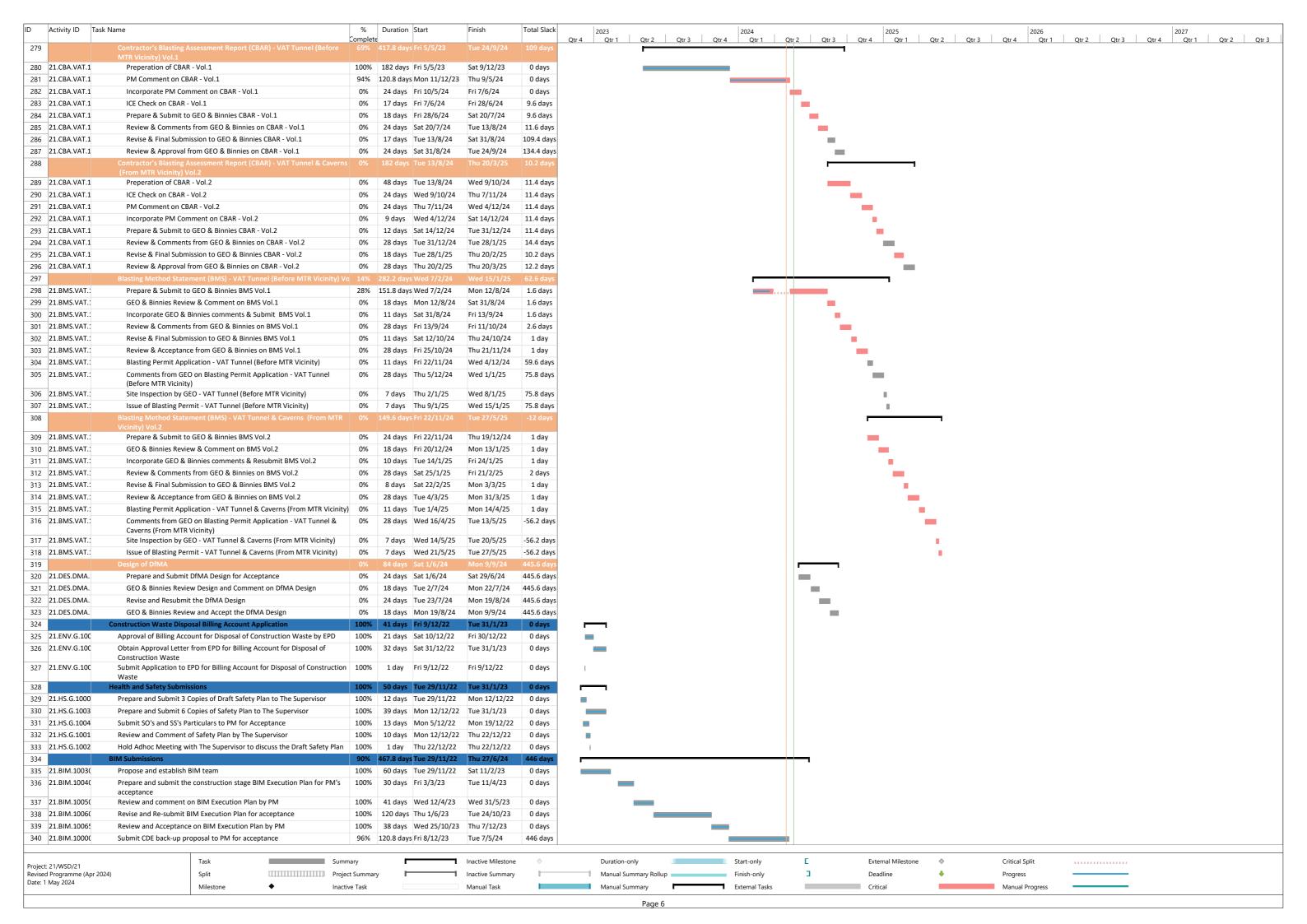


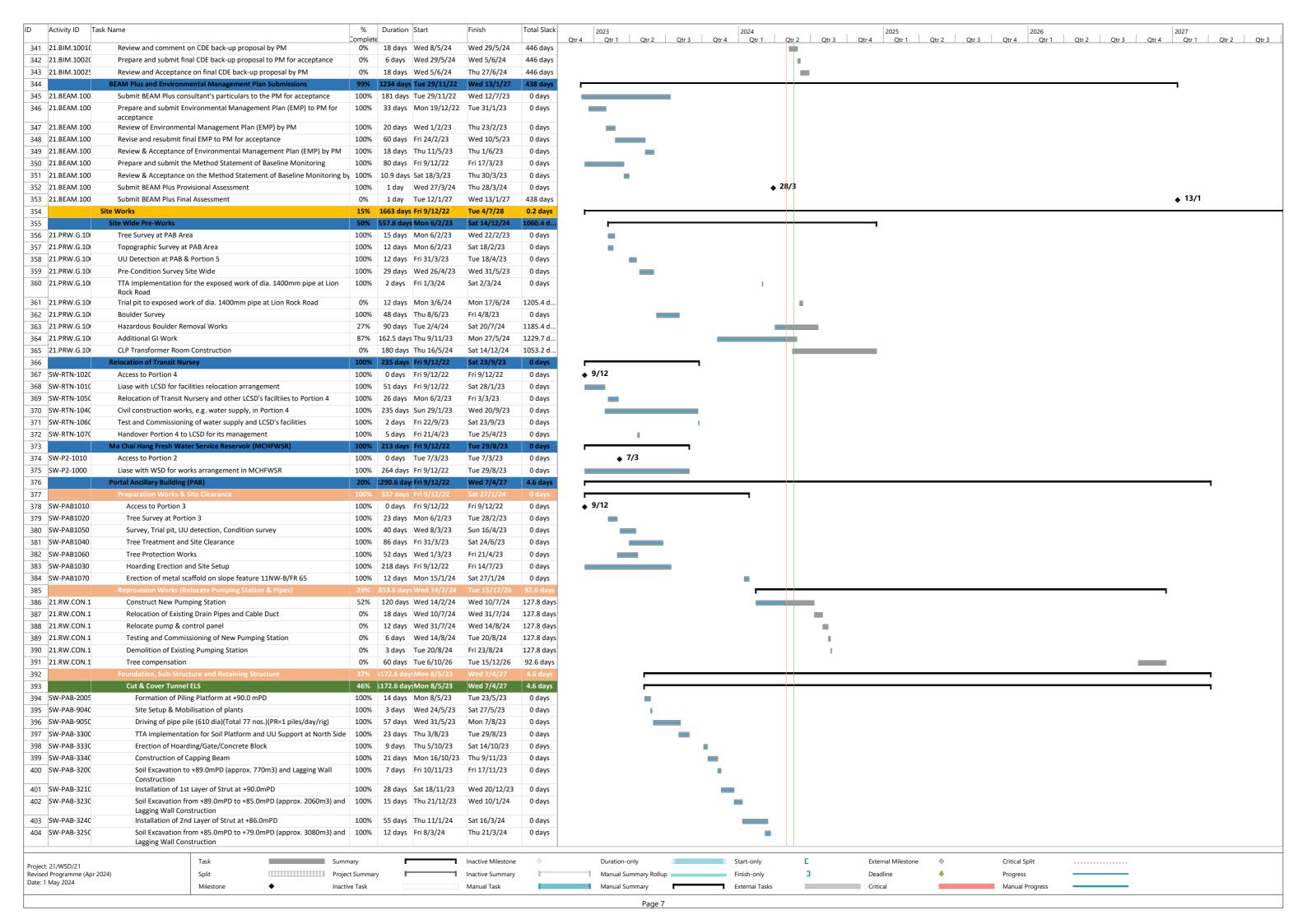
D Activity ID Ta	sk Name		% D mplete	Ouration Start	Finish	Total Slack	2023 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Q	2024	Otr 2 Otr 2	2025 Otr 4	Otr 3 Otr 3	2026	Otr 2 Otr 2	2027 Otr 4	Otr 2 Otr 2
67 21.SUB.G.104	Subletting for Tunnel Works (Package 1a) for Modification			5 days Thu 21/12/23	Thu 28/12/23	0 days	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Q	r4 Qtr1	Qtr2 Qtr3	Qtr4 Qtr1	Qtr2 Qtr3	Qtr4 Qtr1	Qtr 2 Qtr 3	Qtr 4 Qtr 1	Qtr 2 Qtr 3
50 24 SUB C 404	Provide Noise Enclosure - Design (SC024a1)	60.05101	201	24 1 5:2/5/24	T 20/5/24	4222.2									
68 21.SUB.G.104	Subletting for Tunnel Works (Package 1a) for Modification Provide Noise Enclosure - Supply and Construct (SC024a2)		0% 2	21 days Fri 3/5/24	Tue 28/5/24	1222.2 days									
69 21.SUB.G.104	Subletting for Tunnel Works (Package 1b) for Pre-Support \		4% 2	21 days Tue 30/4/24	Sat 25/5/24	1231.4									
	Mined Tunnel Excavation(SC024b)					days									
70 21.SUB.G.104	Subletting for Tunnel Works (Package 2) for Ch024 to Ch64 (SC025)	15 and Caverns	0% 2	21 days Fri 17/5/24	Tue 11/6/24	66 days									
71 21.SUB.G.104	Subletting for E&M for PAB, Tunnel and Caverns (Other tha	an Pumpset) (SC	0% 2	21 days Thu 11/7/24	Sat 3/8/24	672 days									
72 21.SUB.G.105	Subletting for E&M for Tunnel and Caverns (Pumping Syste			21 days Thu 11/7/24	Sat 3/8/24	672 days									
73 21.SUB.G.105	Subletting for RC work for Portal Ancillary Building (SC018)) (0% 2	21 days Sat 1/6/24	Wed 26/6/24	330.2 days									
74 21.SUB.G.105	Subletting for RC work for Retaining Wall (SC023)	(0% 2	21 days Tue 2/7/24	Thu 25/7/24	351.2 days									
75 21.SUB.G.105	Subletting for Architectural works for Portal Ancillary Build	ling (SC036)	0% 2	21 days Wed 10/9/25	Sat 4/10/25	813.4 days									
76 21.SUB.G.105	Subletting for Waterproofing works for Fresh Water & Salt	Water Service	0% 2	21 days Tue 11/6/24	Fri 5/7/24	1190.4									
77 21 SUD C 10F	Reservoirs (SC030)	Vator Carvina	00/	31 days Tue 11/6/24	Fr: F /7 /24	days 1190.4									
77 21.SUB.G.105	Subletting for Drainage and Ducts for Fresh Water & Salt W Reservoirs (SC027)	vater service	0% 2	21 days Tue 11/6/24	Fri 5/7/24	days									
78 21.SUB.G.105	Subletting for RC work for Fresh Water & Salt Water Service	e Reservoirs (SC	0% 2	21 days Tue 11/6/24	Fri 5/7/24	1190.4 d									
79 21.SUB.G.105	Subletting for E&M work for transformer room (SC043b)	(0% 2	21 days Tue 7/5/24	Fri 31/5/24	1219.2 d			-						
80 21.SUB.G.105	Subletting for Instrumentation to MTR Zone (SC033)	(0% 7	21 days Tue 7/5/24	Fri 31/5/24	1219.2 d			-						
81	Contractor's Design	6	4% 17	234 days Tue 29/11/22	Wed 13/1/27	438 days	-							 -	
82 21.DES.PAB.1	Design submission and Approval for Hoarding at PAB			11 days Fri 9/12/22	Thu 27/4/23	0 days									
83 D-1130	Design submission and Approval for Ground and Vibration Mo			84 days Tue 28/3/23	Wed 12/7/23	0 days									
84 D-1100	Design submission and Approval for Cathodic Protection of W			26 days Mon 21/8/23	Tue 19/9/23	0 days	_								
85 D-1050	Design submission and Approval for Architectual Works			75 days Mon 27/5/24	Fri 23/8/24	688.2 days									
86 D-1040	Design submission and Approval for E&M systems incl. ventila	ation, lighting, 10	00% 1	.24 days Thu 25/5/23	Sat 21/10/23	0 days									
87	electrical, FS for Tunnel Design for Mainlaying Works	3	34% 37	74.7 days Mon 10/7/23	Tue 8/10/24	1118.4 d									
88	Design for Pipe Jacking Alignment for Drive 1 & 2		_	78 days Fri 15/3/24	Fri 21/6/24	1209.2 d	•	-	<u></u>	•					
89 21.DES.WM.1	Prepare and Submit Pipe Jacking Alignment Design for N			24 days Fri 15/3/24	Tue 16/4/24	0 days		<u> </u>							
	Works to Binnies for Acceptance	,		, 25,5,24	122 20/ 1/24	2 22,3		_							
90 21.DES.WM.1	Binnies Review Design and Comment on Pipe Jacking Ali	ignment Design 6	6% 1	18 days Wed 17/4/24	Wed 8/5/24	1209.4			•						
01 21 DEC W/M 1	for Mainlaying Works	for Mainlaving	00/	10 days Thu 0/F/24	Th.: 20/F/24	days									
91 21.DES.WM.1	Revise and Resubmit the Pipe Jacking Alignment Design Works	for Mainiaying	0% 1	18 days Thu 9/5/24	Thu 30/5/24	1209.4 days			_						
92 21.DES.WM.1	Binnies Review and Accept the Pipe Jacking Alignment D	Design for	0% 1	18 days Thu 30/5/24	Fri 21/6/24	1202.2									
	Mainlaying Works					days									
93	Temporary Work Design for Trench Excavation			40 days Mon 10/7/23		0 days	_								
94 21.DES.WM.2	Prepare and Submit Trench Excavation Design for Mainl. Binnies for Acceptance	aying Works to 10	30% 2	24 days Mon 10/7/23	Mon 7/8/23	0 days	_								
95 21.DES.WM.2	Binnies Review Design and Accept on Trench Excavation	Design for 10	.00%	16 days Mon 7/8/23	Fri 25/8/23	0 days	_								
	Mainlaying Works			, , ,	-, -,	, .	_								
96	Temporary Work Design for Pit 6	10	00% 72	2.8 days Fri 12/1/24	Fri 12/4/24	0 days									
97 21.DES.WM.3	Prepare and Submit Temporary Work Design for Pit 6 to	Binnies for 10	.00% 2	24 days Fri 12/1/24	Fri 9/2/24	0 days									
98 21.DES.WM.3	Acceptance Binnies Review Design and Comment on Temporary Wo	rk Design for Pit 10	00%	16 days Fri 9/2/24	Fri 1/3/24	0 days									
99 21.DES.WM.3	Revise and Resubmit the Temporary Work Design for Pit			15 days Fri 1/3/24	Tue 19/3/24	0 days									
100 21.DES.WM.3	Binnies Review and Accept the Temporary Work Design			18 days Mon 18/3/24	Fri 12/4/24	0 days									
101	Temporary Work Design for Pit 2			78 days Tue 2/7/24	Wed 2/10/24	124.6 days		_							
102 21.DES.WM.4	Prepare and Submit Temporary Work Design for Pit 2 to			24 days Tue 2/7/24		124.6 days									
	Acceptance					, .									
103 21.DES.WM.4	Binnies Review Design and Comment on Temporary Wo	rk Design for Pit	0% 1	18 days Tue 30/7/24	Mon 19/8/24	124.6 days			=						
104 21.DES.WM.4	Revise and Resubmit the Temporary Work Design for Pit	t 2	0% 1	18 days Mon 19/8/24	Mon 9/9/24	124.6 days			_						
105 21.DES.WM.4	Binnies Review and Accept the Temporary Work Design			18 days Mon 9/9/24	Wed 2/10/24	124.6 days			_						
106	Temporary Work Design for Pit 3			78 days Mon 3/6/24	Tue 3/9/24	0.6 days									
107 21.DES.WM.5	Prepare and Submit Temporary Work Design for Pit 3 to	Binnies for	0% 2	24 days Mon 3/6/24	Tue 2/7/24	0.6 days			_						
108 21.DES.WM.5	Acceptance Binnies Review Design and Comment on Temporary Wo	rk Design for Pit	0% 1	18 days Wed 3/7/24	Tue 23/7/24	0.6 days									
109 21.DES.WM.5	Revise and Resubmit the Temporary Work Design for Pit			18 days Wed 3/7/24 18 days Wed 24/7/24	Tue 13/8/24	0.6 days									
110 21.DES.WM.5	Binnies Review and Accept the Temporary Work Design			18 days Wed 24/7/24 18 days Wed 14/8/24	Tue 3/9/24	0.6 days									
111	Temporary Work Design for Pit 5			78 days Mon 8/7/24	Tue 8/10/24	46.6 days			-	1					
112 21.DES.WM.6	Prepare and Submit Temporary Work Design for Pit 5 to			24 days Mon 8/7/24	Sat 3/8/24	46.6 days			_	-					
	Acceptance			,, -, -	, -, -	,3									
113 21.DES.WM .6	Binnies Review Design and Comment on Temporary Wo	rk Design for Pit	0% 1	18 days Mon 5/8/24	Sat 24/8/24	46.6 days			=						
114 21.DES.WM.6	Revise and Resubmit the Temporary Work Design for Pit			18 days Sat 24/8/24	Sat 14/9/24	46.6 days			_						
115 21.DES.WM.6	Binnies Review and Accept the Temporary Work Design			18 days Sat 14/9/24	Tue 8/10/24	46.6 days			_	ı					
116	Temporary Work Design for Pit 7			78 days Thu 28/3/24	Sat 6/7/24	1197.3 d									
117 21.DES.WM.7	Prepare and Submit Temporary Work Design for Pit 7 to	Binnies for 10	.00% 2	24 days Thu 28/3/24	Tue 30/4/24	0 days									
118 21.DES.WM.7	Acceptance Binnies Review Design and Comment on Temporary Wo	rk Design for Pit	0%	18 days Tue 30/4/24	Thu 23/5/24	73.3 days									
119 21.DES.WM.7	Revise and Resubmit the Temporary Work Design for Pit			18 days Thu 23/5/24	Fri 14/6/24	1190.3 d									
120 21.DES.WM.7	Binnies Review and Accept the Temporary Work Design Toll Pile			18 days Fri 14/6/24	Sat 6/7/24	1190.3 d			_						
121 21.DE3.WW.7	Temporary Work Design for Pit 8			72 days Thu 28/3/24		-19.5 days		_							
			J., .	- 1114 20/3/24		1919 days			<u> </u>						
	Task	Summary		I	Inactive Milestone		Duration-only	Start-only	Е	External Milestone	• • • • • • • • • • • • • • • • • • •	Critical Split			
Project: 21 M/CD /21															
Project: 21/WSD/21 Revised Programme (Apr 2	2024) Split	Project Su	mmary		Inactive Summary		Manual Summary Rollup	Finish-only	3	Deadline		Progress			
	Split Milestone	Project Su Inactive Ta			Inactive Summary Manual Task		Manual Summary Rollup Manual Summary	Finish-only External Tasks	3	Deadline Critical	+	Progress Manual Progress			

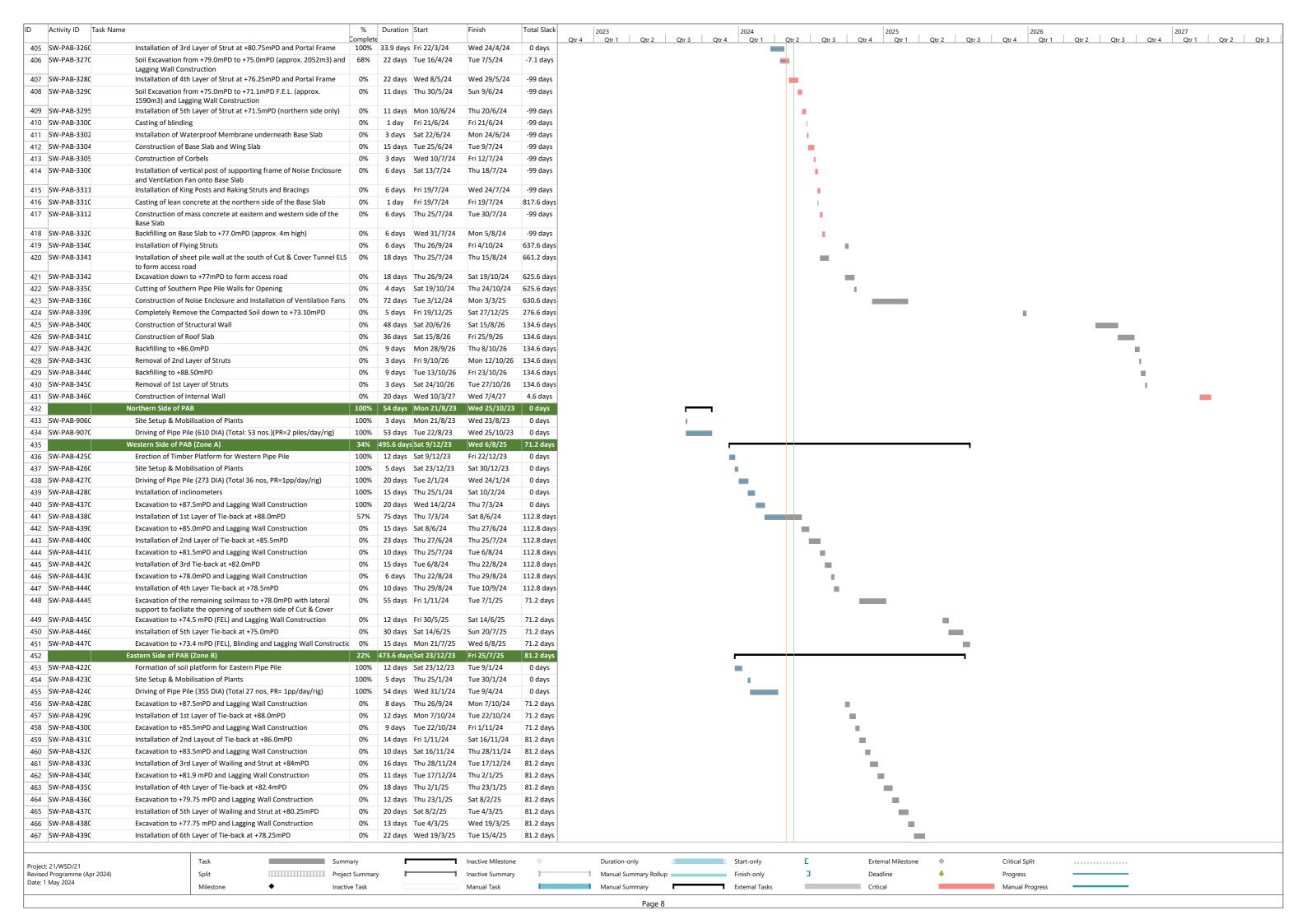




ID A-+i-i+-ID T	- d. N		0/	Dtions Chart	F:-:-k	Takal Clask	1	1		1		1		1	
D Activity ID T	ask Name		% Complete	Duration Start	Finish	Total Slack	2023 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr	2024 4 Qtr 1 (Qtr 2 Qtr 3	2025 Qtr 4 Qtr 1	Qtr 2 Qtr 3	2026 Qtr 4 Qtr 1	Qtr 2 Qtr 3	2027 Qtr 4 Qtr 1	Qtr 2 Qtr 3
230 21.DES.TC.10.	Prepare and Submit GEO & Binnies for A	Temporary Rock Support System for Tunnel to	100%	91 days Fri 19/5/23	3 Tue 5/9/23	0 days									
231 21.DES.TC.10.		w Design and Comment on Temporary Rock	100%	18 days Wed 6/9/2	Tue 26/9/23	0 days	-								
232 21.DES.TC.10:		t the Temporary Rock Support System for Tunnel	100%	40 days Wed 27/9/	/23 Wed 15/11/23	0 days	_								
233 21.DES.TC.10:		w and Accept the Temporary Rock Support System	100%	41 days Thu 16/11	/23 Fri 5/1/24	0 days									
234	for Tunnel Type T2	ort System for Tunnel Type T2	100%	190 days Fri 19/5/2	3 Fri 5/1/24	0 days									
235 21.DES.TC.10		Permanent Rock Support System for Tunnel to		67 days Fri 19/5/2		0 days									
	GEO & Binnies for A	cceptance													
236 21.DES.TC.10	GEO & Binnies Revie Support System for	w Design and Comment on Permanent Rock Funnel Type T2	100%	42 days Wed 9/8/2	3 Tue 26/9/23	0 days									
237 21.DES.TC.10		t the Permanent Rock Support System for Tunnel	100%	40 days Wed 27/9/		0 days									
238 21.DES.TC.10	GEO & Binnies Revie for Tunnel Type T2	w and Accept the Permanent Rock Support System	1 100%	41 days Thu 16/11	/23 Fri 5/1/24	0 days									
239		ort System for Caverns	0%	96 days Sat 1/6/24	Tue 24/9/24	80.6 days			 						
240 21.DES.TC.10	·	Temporary Rock Support System for Caverns to	0%	36 days Sat 1/6/24	Mon 15/7/24	80.6 days									
241 21.DES.TC.10		w Design and Comment on Temporary Rock	0%	18 days Tue 16/7/2	24 Mon 5/8/24	80.6 days			=						
242 21.DES.TC.10:	Support System for Revise and Resubmi	t the Temporary Rock Support System for Caverns	0%	24 days Tue 6/8/24	1 Mon 2/9/24	80.6 days			_						
243 21.DES.TC.10:		w and Accept the Temporary Rock Support System		18 days Mon 2/9/2		80.6 days			_						
244	for Caverns		-00/	00 4-1-1	1 The 24 (42)	F.C. G. L.									
244 21.DES.TC.10		ort System for Caverns Permanent Rock Support System for Caverns to		96 days Tue 2/7/2		56.6 days				- 7					
24.DE3.TC.10	GEO & Binnies for A		0%	30 days Tue 2/1/24	1011 12/0/24	Jo.o uays									
246 21.DES.TC.10		w Design and Comment on Permanent Rock	0%	18 days Tue 13/8/2	24 Mon 2/9/24	56.6 days									
247 21.DES.TC.10	Support System for Revise and Resubmi	Caverns t the Permanent Rock Support System for Caverns	0%	24 days Mon 2/9/2	4 Wed 2/10/24	56.6 days			_						
248 21.DES.TC.10		w and Accept the Permanent Rock Support System		18 days Wed 2/10/		56.6 days				_					
340	for Caverns					00.6.1									
249 250 21.DES.TC.10:		ort System for Junction between Caverns and Tun Temporary Rock Support System for Junction		96 days Sat 1/6/24 36 days Sat 1/6/24		80.6 days									
230 21.013.10.10.		d Tunnel to GEO & Binnies for Acceptance	0/0	30 days 3dt 1/0/24	141011 13/1/24	oo.o uays									
251 21.DES.TC.10		w Design and Comment on Temporary Rock Junction between Caverns and Tunnel	0%	18 days Tue 16/7/2	24 Mon 5/8/24	80.6 days			-						
252 21.DES.TC.10:		the Temporary Rock Support System for Junction	0%	24 days Tue 6/8/24	Mon 2/9/24	80.6 days			_						
253 21.DES.TC.10	GEO & Binnies Revie	w and Accept the Temporary Rock Support System n Caverns and Tunnel	n 0%	18 days Mon 2/9/2	Tue 24/9/24	80.6 days			-						
254	Permanent Rock Supp	ort System for Junction between Caverns and Tun	ır 0%	96 days Tue 2/7/2	4 Thu 24/10/24	56.6 days			-	_					
255 21.DES.TC.10	·	Permanent Rock Support System for Junction d Tunnel to GEO & Binnies for Acceptance	0%	36 days Tue 2/7/24	Mon 12/8/24	56.6 days			_						
256 21.DES.TC.10	GEO & Binnies Revie	w Design and Comment on Permanent Rock	0%	18 days Tue 13/8/2	24 Mon 2/9/24	56.6 days			-						
257 21.DES.TC.10		lunction between Caverns and Tunnel t the Permanent Rock Support System for Junction	0%	24 days Mon 2/9/2	4 Wed 2/10/24	56.6 days			_						
258 21.DES.TC.10	between Caverns an GEO & Binnies Revie	d Tunnel w and Accept the Permanent Rock Support System	n 0%	18 days Wed 2/10/	'24 Thu 24/10/24	56.6 days				_					
350		n Caverns and Tunnel	00/	140 days Wad 2/10	/24 Thu 20/2/25	244 0 4									
259 260 21.DES.TC.10	Internal Structures - To	Innels Internal Structures - Tunnels to GEO & Binnies for		140 days Wed 2/10, 56 days Wed 2/10,		311.8 days									
200 21.DE3.TC.10	Acceptance	internal structures - runners to GEO & Binnes for	076	30 days Wed 2/10/	24 F11 0/12/24	311.0 uays									
261 21.DES.TC.10		w Design and Comment on Internal Structures - Tu		24 days Fri 6/12/24		311.8 days									
262 21.DES.TC.10		t the Internal Structures - Tunnels		36 days Tue 7/1/25		311.8 days									
263 21.DES.TC.10-	GEO & Binnies Revie	w and Accept the Internal Structures - Tunnels		24 days Thu 20/2/2		311.8 days 255.4 days									
265 21.DES.TC.10	Prepare and Submit	Internal Structures - Caverns Design to GEO &		56 days Wed 2/10/		255.4 days									
266 21.DES.TC.10	Binnies for Acceptar	ice	η Ω0/	24 days Fri 6/12/24	1 Tue 7/1/25	255.4 days				_					
266 21.DES.TC.10 267 21.DES.TC.10		w Design and Comment on Internal Structures - Ca the Internal Structures - Caverns		36 days Tue 7/1/25		255.4 days									
268 21.DES.TC.10		w and Accept the Internal Structures - Caverns		24 days Thu 20/2/2		255.4 days									
269		for Tunnel and Cavern Construction		204.8 days Fri 10/11/		-19 days	-			_					
270 21.DES.TC.10		Temporary Ventilation Design for Tunnel and	100%	120.8 days Fri 10/11/2	23 Mon 8/4/24	0 days	-								
271 21.DES.TC.10		to Binnies for Acceptance an and Comment on Temporary Ventilation for	79%	24 days Tue 9/4/24	1 Tue 7/5/24	-19 days									
	Tunnel and Cavern (Construction													
272 21.DES.TC.10	Construction	the Temporary Ventilation for Tunnel and Cavern		36 days Wed 8/5/2		-19 days									
273 21.DES.TC.10	GEO & Binnies Revie Tunnel and Cavern (w and Accept the Temporary Ventilation for Construction	0%	24 days Thu 20/6/2	24 Fri 19/7/24	-19 days			_						
274	Tunnel Temporary Dra			80 days Sat 1/6/24		-6.8 days									
275 21.DES.TC.10	Prepare and Submit for Acceptance	Tunnel Temporary Drainage Plan to GEO & Binnies	0%	24 days Sat 1/6/24	Sat 29/6/24	-6.8 days									
276 21.DES.TC.10	· · · · · · · · · · · · · · · · · · ·	w Design and Comment on Tunnel Temporary	0%	24 days Tue 2/7/24	Mon 29/7/24	-6.8 days									
277 21.DES.TC.10	•	t the Tunnel Temporary Drainage Plan	0%	8 days Tue 30/7/2	24 Wed 7/8/24	-6.8 days									
278 21.DES.TC.10		w and Accept the Tunnel Temporary Drainage Plan		24 days Thu 8/8/24		-6.8 days									
									-						
		Task Sumn	marv		Inactive Milestone	• • • • • • • • • • • • • • • • • • •	Duration-only	Start-only	Е	External Milestone	♦	Critical Split			
		3011111	,	•	active ivillestoffe		Datation only	July Olly	-	External Willestone	*	chacui aprit			
Project: 21/WSD/21 Revised Programme (Apr	2024)	Split Project	ct Summan	ν -	Inactive Summan		Manual Summary Rollun	Finish-only	3	Deadline	4	Progress			
Project: 21/WSD/21 Revised Programme (Apr Date: 1 May 2024	2024)		ect Summar ive Task	у	Inactive Summary Manual Task		Manual Summary Rollup Manual Summary	Finish-only External Tasks	3	Deadline Critical	+	Progress Manual Progress			







9 SW-PAB-440C Sc 11 SW-PAB-441C Inf 22 SW-PAB-441C CC 33 SOUTH 4 SW-PAB-440C Sc 6 SW-PAB-40SC DD 6 SW-PAB-40SC DD 6 SW-PAB-40SC DD 7 Structu 8 Four 9 SW-PAB-427C CC 10 SW-PAB-428C CC 11 SW-PAB-428C CC 12 SW-PAB-428C CC 13 SW-PAB-428C CC 14 SW-PAB-30C CC 15 SW-PAB-30C CC 16 SW-PAB-30C CC 17 SW-PAB-30C CC 18 SW-PAB-30C CC 19 SW-PAB-30C CC 19 SW-PAB-30C CC 10 SW-PAB-30C CC 11 SW-PAB-30C CC 12 SW-PAB-30C RC 13 SW-PAB-30C RC 14 SW-PAB-30C RC 15 SW-PAB-30C RC 16 SW-PAB-30C RC 17 SW-PAB-30C RC 18 SW-PAB-30C RC 19 SW-PAB-30C RC 10 SW-PAB-30C RC 11 SW-PAB-30C RC 12 SW-PAB-30C RC 13 SW-PAB-30C RC 14 SW-PAB-30C RC 15 SW-PAB-30C RC 16 SW-PAB-30C RC 17 SW-PAB-30C RC 18 SW-PAB-30C RC 19 SW-PAB-30C RC 10 SW-PAB-30C RC 10 SW-PAB-30C RC 11 SW-PAB-30C RC 12 SW-PAB-30C RC 13 SW-PAB-30C RC 14 SW-PAB-30C RC 15 SW-PAB-30C RC 16 SW-PAB-30C RC 17 SW-PAB-30C RC 18 SW-P	Site Setup & Mobilisation of Plants Driving of Pipe Pile (355 DIA) (Total: 28 nos.)(PR=1 piles/day/rig) Soil Excavation to +75.75 mPD and Lagging Wall Construction Installation of 7th Layer of Wailing and Strut at +76.25mPD Soil Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construction uthern Side of PAB (Zone C) Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) tilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 2 0% 1 0% 9 0% 5 0% 7 0% 1 0% 30 0% 3 0% 3 0% 3 0% 3 0% 3 0% 3 0%	3 days Tue 15/4/25 28 days Tue 22/4/25 22 days Mon 26/5/25 24 days Tue 10/6/25 25 days Wed 9/7/25 26 days Tue 7/1/25 27 days Mon 13/1/25 28 days Mon 13/1/25 28 days Fri 9/5/25 29 4 days Fri 9/5/25 29 4 days Fri 9/5/25 29 6 days Fri 30/5/25 29 6 days Fri 30/5/25 29 6 days Thu 18/9/25 29 6 days Tue 23/9/25 29 6 days Tue 23/9/25 29 6 days Wed 24/9/25 29 6 days Wed 29/10/25 29 6 days Wed 29/10/25 29 6 days Mon 24/11/25 29 6 days Mon 24/11/25 29 6 days Mon 29/12/25 29 6 days Mon 29/12/25	Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	81.2 days 81.2 days 81.2 days 81.2 days 81.2 days 81.2 days 71.2 days 85.4 days 71.2 days 85.4 days 85.4 days	2024 2025 2026 2026 2027 2027 2027 2027 2027 2027
0 SW-PAB-440C Sc SW-PAB-441C In SW-PAB-441C Sc SW-PAB-442C Sc SW-PAB-442C Sc SW-PAB-442C Sc SW-PAB-405C D SW-PAB-406C Es SW-PAB-426C SW-PAB-426C SW-PAB-429C SW-PAB-429C SW-PAB-5300 CC SW-PAB-5301 CC SW-PAB-5401 RC SW-PAB-5401 RC SW-PAB-5401 RC SW-PAB-5401 RC SW-PAB-5402 RC SW	Soil Excavation to +75.75 mPD and Lagging Wall Construction Installation of 7th Layer of Wailing and Strut at +76.25mPD Soil Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construction uthern Side of PAB (Zone C) Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) tilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 1 0% 2 0% 1 0% 9 0% 5 0% 7 0% 1 0% 30 0% 3 0% 3 0% 3 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	22 days Mon 26/5/25 24 days Tue 10/6/25 25 days Wed 9/7/25 26 days Tue 7/1/25 25 days Mon 13/1/25 25 days Mon 13/1/25 26 days Fri 9/5/25 27 days Fri 9/5/25 28 days Fri 9/5/25 28 days Fri 30/5/25 29 days Fri 30/5/25 29 days Fri 30/5/25 29 days Thu 18/9/25 29 days Thu 18/9/25 29 days Thu 18/9/25 29 days Wed 24/9/25 29 days Wed 24/9/25 29 days Mon 24/11/25 29 days Mon 24/11/25	Tue 10/6/25 Wed 9/7/25 Fri 25/7/25 Fri 9/5/25 Mon 13/1/25 Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	81.2 days 81.2 days 81.2 days 71.2 days 71.2 days 71.2 days 71.2 days 71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days	
1 SW-PAB-441C Inc. 2 SW-PAB-442C Sc. 3 South 4 Sin 5 SW-PAB-405C D 6 SW-PAB-406C Ex. 7 Structu 8 Fouth 9 SW-PAB-427C C. 10 SW-PAB-428C C. 11 SW-PAB-429C C. 12 SW-PAB-429C C. 13 SW-PAB-429C C. 14 SW-PAB-530C C. 15 SW-PAB-530C C. 16 SW-PAB-530C C. 17 SW-PAB-530C R. 18 SW-PAB-530C R. 19 SW-PAB-530C R. 10 SW-PAB-530C R. 11 SW-PAB-530C R. 12 SW-PAB-530C R. 13 SW-PAB-530C R. 14 SW-PAB-530C R. 15 SW-PAB-530C R. 16 SW-PAB-530C R. 17 SW-PAB-530C R. 18 SW-PAB-530C R. 19 SW-PAB-530C R. 10 SW-PAB-530C R. 11 SW-PAB-530C R. 12 SW-PAB-530C R. 13 SW-PAB-530C R. 14 SW-PAB-530C R. 15 SW-PAB-530C R. 16 SW-PAB-530C R. 17 SW-PAB-530C R. 18 SW-PAB-530C R. 19 SW-PAB-530C R. 10 SW-PAB-530C R. 10 SW-PAB-530C R. 11 SW-PAB-530C R. 12 SW-PAB-530C R. 13 SW-PAB-530C R. 14 SW-PAB-530C R. 15 SW-PAB-530C R. 16 SW-PAB-540C R. 17 SW-PAB-540C R. 18 SW-PAB-540C R.	Installation of 7th Layer of Wailing and Strut at +76.25mPD Soil Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construction uthern Side of PAB (Zone C) Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Eastern) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) uilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 2 0% 1 0% 9 0% 5 0% 7 0% 1 0% 30 0% 1 0% 3 0% 3 0% 3 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	24 days Tue 10/6/25 25 days Wed 9/7/25 26 days Tue 7/1/25 27 days Mon 13/1/25 28 days Mon 13/1/25 28 days Mon 14/4/25 29.4 days Fri 9/5/25 20 days Fri 9/5/25 20 days Thu 7/8/25 20 days Sat 26/7/25 25 days Thu 18/9/25 26 days Thu 18/9/25 27 days Wed 24/9/25 28 days Wed 29/10/25 28 days Mon 24/11/25 28 days Mon 24/11/25	Wed 9/7/25 Fri 25/7/25 Fri 9/5/25 Mon 13/1/25 Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	81.2 days 81.2 days 71.2 days 71.2 days 71.2 days 71.2 days 71.2 days 71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days	
2 SW-PAB-442C SG CC	Soil Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construction uthern Side of PAB (Zone C) Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) tilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 1 0% 9 0% 5 0% 7 0% 1 0% 30 0% 1 0% 3 0% 3 0% 3 0% 3 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1 0% 2	18 days Tue 7/1/25 18 days Tue 7/1/25 18 days Tue 7/1/25 18 days Tue 7/1/25 18 days Mon 13/1/25 18 days Mon 14/4/25 19.4 days Fri 9/5/25 11 days Fri 9/5/25 18 days Fri 9/5/25 19 days Fri 30/5/25 19 days Thu 7/8/25 19 days Thu 18/9/25 19 days Thu 18/9/25 19 days Thu 18/9/25 20 days Thu 18/9/25 21 days Wed 24/9/25 22 days Wed 24/9/25 23 days Mon 24/11/25 24 days Mon 24/11/25	Fri 25/7/25 Fri 9/5/25 Mon 13/1/25 Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	81.2 days 71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days 81.2 days	
CO South South Si SW-PAB-405C D SW-PAB-406C EB SW-PAB-406C EB SW-PAB-426C CB SW-PAB-427C CB SW-PAB-428C CB SW-PAB-429C CB SW-PAB-429C CB SW-PAB-430C CB SW-PAB-530C CB SW-PAB-540C CB SW-PAB-540	Construction uthern Side of PAB (Zone C) Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) uilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 9 0% 5 0% 7 0% 1 0% 300 0% 11 0% 3 0% 3 0% 3 0% 3 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1 0% 3	18 days Tue 7/1/25 15 days Tue 7/1/25 15 days Mon 13/1/25 18 days Mon 14/4/25 19.4 days Fri 9/5/25 11 days Fri 9/5/25 18 days Fri 30/5/25 19 days Fri 30/5/25 19 days Thu 7/8/25 19 days Sat 26/7/25 19 days Thu 18/9/25 19 days Tue 23/9/25 19 days Thu 18/9/25 20 days Thu 18/9/25 21 days Wed 24/9/25 22 days Wed 24/9/25 23 days Mon 24/11/25 25 days Mon 24/11/25	Fri 9/5/25 Mon 13/1/25 Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days	
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4 Sister Supplementaries Suppl	Site Setup & Mobilisation of plants Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) iliding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 5 0 0 1 1 0 0 1 1 1 0 0 1 1 1 0 1 1 1 1	5 days Tue 7/1/25 6 days Mon 13/1/25 8 days Mon 14/4/25 9.4 days Fri 9/5/25 11 days Fri 9/5/25 8 days Fri 9/5/25 10 days Fri 30/5/25 10 days Thu 7/8/25 8.4 days Thu 18/9/25 10 days Tue 23/9/25 15 days Wed 24/9/25 16 days Wed 29/10/25 16 days Wed 29/10/25 16 days Mon 24/11/25	Mon 13/1/25 Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days	
5 SW-PAB-405C D 6 SW-PAB-406C E: 7 Structure 8 Four 9 SW-PAB-427C C: 00 SW-PAB-428C C: 11 SW-PAB-428C C: 12 SW-PAB-429C C: 13 Build 14 SW-PAB-5300 C: 15 SW-PAB-5301 C: 16 SW-PAB-5301 C: 17 SW-PAB-5301 R: 18 SW-PAB-5302 R: 19 SW-PAB-5303 R: 10 SW-PAB-5304 R: 10 SW-PAB-5305 R: 11 SW-PAB-5306 R: 12 SW-PAB-5306 R: 13 SW-PAB-5307 R: 14 SW-PAB-5308 R: 15 SW-PAB-5309 W: 16 SW-PAB-5309 W: 17 SW-PAB-5309 C: 18 SW-PAB-5309 C: 19 SW-PAB-5309 C: 10 SW-PAB-5309 C: 10 SW-PAB-5309 C: 11 SW-PAB-5309 C: 12 SW-PAB-5309 C: 13 SW-PAB-5309 C: 14 SW-PAB-5309 C: 15 SW-PAB-5400 C: 16 SW-PAB-5401 R: 18 SW-PAB-5402 R:	Driving of Pipe Pile (610 DIA) (Total: 75 nos.)(PR=1 piles/day/rig) Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Constructic ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) iliding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 7 0% 1 0% 300 0% 11 0% 3 0% 3 0% 3 0% 19 0% 6 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	75 days Mon 13/1/25 8.8 days Mon 14/4/25 9.4 days Fri 9/5/25 11 days Fri 9/5/25 8.8 days Fri 9/5/25 8.0 days Fri 30/5/25 8.0 days Thu 7/8/25 8.4 days Thu 18/9/25 8.4 days Thu 18/9/25 8.5 days Thu 18/9/25 8.6 days Wed 24/9/25 8.7 days Wed 24/9/25 8.8 days Mon 24/11/25 8.8 days Mon 24/11/25	Mon 14/4/25 Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 71.2 days 71.2 days 71.2 days 71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days 85.4 days 71.2 days	
6 SW-PAB-406C E: Structure 8 Four 9 SW-PAB-427C C: C: SW-PAB-428C C: C: SW-PAB-429C C: C: SW-PAB-429C C: SW-PAB-430C C: SW-PAB-530C C: SW-PAB-530C C: SW-PAB-530C C: SW-PAB-530C C: SW-PAB-530C C: SW-PAB-530C R: SW-PAB-540C R: SW-PAB	Excavation to +73.4 mPD (FEL), Blinding and Lagging Wall Construction ture Works undation Works Construction of Raft Footing Slab (Southern) (Zone C) Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) undation Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 11 0% 300 0% 11 0% 3 0% 3 0% 3 0% 3 0% 19 0% 0 0% 2 0% 3 0% 2 0% 3 0% 1	8.8 days Mon 14/4/25 9.4 days Fri 9/5/25 11 days Fri 9/5/25 8.8 days Fri 9/5/25 10 days Fri 30/5/25 16 days Thu 7/8/25 10 days Sat 26/7/25 10 days Thu 18/9/25 10 days Tue 23/9/25 15 days Thu 18/9/25 15 days Wed 24/9/25 16 days Wed 29/10/25 16 days Mon 24/11/25	Fri 9/5/25 Tue 19/5/26 Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 71.2 days 71.2 days 71.2 days 98.2 days 71.2 days 81.2 days 81.2 days 71.2 days 85.4 days 71.2 days	
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8 Four 9 SW-PAB-427C CC C	Construction of Raft Footing Slab (Southern) (Zone C) Construction of Retaining Wall RW1 and RW2 Construction of Refaining Slab (Western) (Zone A) Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) iilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 11 0% 1 0% 3 0% 3 0% 19 0% 0 0% 5 0% 3 0% 2 0% 3 0% 2 0% 3	11 days Fri 9/5/25 8 days Fri 9/5/25 10 days Fri 30/5/25 16 days Thu 7/8/25 10 days Sat 26/7/25 10 days Thu 18/9/25 10 days Tue 23/9/25 15 days Thu 18/9/25 15 days Wed 24/9/25 16 days Wed 29/10/25 16 days Mon 24/11/25	Wed 17/9/25 Fri 30/5/25 Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 71.2 days 98.2 days 71.2 days 81.2 days 71.2 days 85.4 days 71.2 days	
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0 SW-PAB-428C CC 1 SW-PAB-429C CC 2 SW-PAB-430C CC 3 Build 4 SW-PAB-5300 CC 5 SW-PAB-5301 CC 6 SW-PAB-5301 Rc 7 SW-PAB-5302 Rc 8 SW-PAB-5303 Rc 9 SW-PAB-5304 Rc 0 SW-PAB-5306 Rc 1 SW-PAB-5306 Rc 2 SW-PAB-5306 Rc 3 SW-PAB-5307 Rc 4 SW-PAB-5307 Rc 6 SW-PAB-5307 Rc 6 SW-PAB-5307 Rc 6 SW-PAB-5307 Rc 7 SW-PAB-5307 Rc 8 SW-PAB-5307 Rc 9 SW-PAB-5400 CC	Construction of Retaining Wall RW1 and RW2 Construction of Raft Footing Slab (Western) (Zone A) Construction of Raft Footing Slab (Eastern) (Zone B) iliding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 3 0% 199 0% 0 0% 5 0% 3 0% 2 0% 3 0% 2 0% 3	10 days Fri 30/5/25 16 days Thu 7/8/25 10 days Sat 26/7/25 10 days Thu 18/9/25 10 days Tue 23/9/25 15 days Thu 18/9/25 15 days Wed 24/9/25 16 days Wed 29/10/25 15 days Mon 24/11/25	Mon 7/7/25 Wed 17/9/25 Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	98.2 days 71.2 days 81.2 days 71.2 days 85.4 days 71.2 days	
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22 SW-PAB-430C CC 33 Built 44 SW-PAB-5300 CC 55 SW-PAB-5200 Inn 66 SW-PAB-5301 CC 67 SW-PAB-5302 RC 88 SW-PAB-5303 RC 99 SW-PAB-5304 RC 100 SW-PAB-5306 RC 11 SW-PAB-5306 RC 12 SW-PAB-5306 RC 13 SW-PAB-5307 RC 14 SW-PAB-5307 RC 15 SW-PAB-5307 RC 16 SW-PAB-5309 WC 17 SW-PAB-5400 CC 17 SW-PAB-5401 RC 18 SW-PAB-5402 RC	Construction of Raft Footing Slab (Eastern) (Zone B) tilding Structure - Grid No. U - BB (Western) Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 199 0% 0 0% 5 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	80 days Sat 26/7/25 8.4 days Thu 18/9/25 0 days Tue 23/9/25 5 days Thu 18/9/25 95 days Wed 24/9/25 96 days Wed 29/10/25 97 days Mon 24/11/25	Fri 29/8/25 Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	81.2 days 71.2 days 85.4 days 71.2 days	
Build SW-PAB-S300 SW-PAB-S200 SW-PAB-S301 SW-PAB-S302 SW-PAB-S302 SW-PAB-S303 SW-PAB-S303 SW-PAB-S306 SW-PAB-S306 SW-PAB-S306 SW-PAB-S307 SW-PAB-S307 SW-PAB-S309 WM-SW-PAB-S309 SW-PAB-S309 SW-PAB-S	Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 198 0% 0 0% 5 0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	8.4 days Thu 18/9/25 0 days Tue 23/9/25 5 days Thu 18/9/25 15 days Wed 24/9/25 Wed 29/10/25 16 days Wed 29/10/25 Mon 24/11/25	Tue 19/5/26 Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	71.2 days 85.4 days 71.2 days	
4 SW-PAB-S300 CC 5 SW-PAB-S301 CC 6 SW-PAB-S301 CC 6 SW-PAB-S301 R0 7 SW-PAB-S302 R0 8 SW-PAB-S303 R0 9 SW-PAB-S304 R0 0 SW-PAB-S305 R0 11 SW-PAB-S306 R0 2 SW-PAB-S307 R0 4 SW-PAB-S307 R0 5 SW-PAB-S307 R0 6 SW-PAB-S309 W0 5 Built 6 SW-PAB-S400 CC 6 SW-PAB-S401 R0 8 SW-PAB-S402 R0	Commencement of Building Superstructure Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 0 0% 5 0% 3 0% 2 0% 3 0% 2 0% 3	0 days Tue 23/9/25 5 days Thu 18/9/25 55 days Wed 24/9/25 26 days Wed 29/10/25 55 days Mon 24/11/25	Tue 23/9/25 Tue 23/9/25 Tue 28/10/25	85.4 days 71.2 days	
SW-PAB-S301 Color	Installation of Tower Crane Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 2 0% 3 0% 2 0% 3 0% 2	5 days Thu 18/9/25 Wed 24/9/25 Ged days Wed 29/10/25 Mon 24/11/25	Tue 23/9/25 Tue 28/10/25	71.2 days	
66 SW-PAB-S301 CC 67 SW-PAB-S302 R: 68 SW-PAB-S303 R: 69 SW-PAB-S304 R: 60 SW-PAB-S305 R: 61 SW-PAB-S306 R: 62 SW-PAB-S307 R: 63 SW-PAB-S307 R: 64 SW-PAB-S309 W: 65 Built 66 SW-PAB-S400 CC 67 SW-PAB-S401 R: 68 SW-PAB-S402 R:	Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 2 0% 3 0% 2 0% 3 0% 1	Wed 24/9/25 26 days Wed 29/10/25 25 days Mon 24/11/25	Tue 28/10/25	-	♦ 23/9
@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @	@ +75mPD) incl. scaffold erection RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 2 0% 3 0% 2 0% 3 0% 1	26 days Wed 29/10/25 25 days Mon 24/11/25		85.4 days	· · · · · · · · · · · · · · · · · · ·
77 SW-PAB-S302 R: 8 SW-PAB-S303 R: 9 SW-PAB-S304 R: 0 SW-PAB-S305 R: 11 SW-PAB-S306 R: 12 SW-PAB-S307 R: 13 SW-PAB-S307 R: 14 SW-PAB-S309 W: 15 Built 6 SW-PAB-S400 C: 6 SW-PAB-S400 C: 6 SW-PAB-S401 R: 8 SW-PAB-S402 R: 8 SW-PAB-	RC Column and RC Wall @ above Ground Floor RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 2 0% 3 0% 1	35 days Mon 24/11/25	Sun 23/11/25	1	
8 SW-PAB-S303 R: 9 SW-PAB-S304 R: 0 SW-PAB-S305 R: 1 SW-PAB-S306 R: 2 SW-PAB-S308 R: 3 SW-PAB-S307 R: 4 SW-PAB-S309 W: 5 Built 6 SW-PAB-S400 C: 6 SW-PAB-S401 R: 8 SW-PAB-S402 R:	RC Beam & Floor Slab @ First Floor +84.25mPD incl. scaffold erection RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 2 0% 3 0% 1	35 days Mon 24/11/25		85.4 days	
9 SW-PAB-S304 R0 0 SW-PAB-S305 R0 11 SW-PAB-S306 R0 12 SW-PAB-S308 R0 13 SW-PAB-S307 R0 4 SW-PAB-S309 W0 15 Built 16 SW-PAB-S400 C0 17 SW-PAB-S401 R0 18 SW-PAB-S402 R0	RC Column and RC Wall @ above First Floor RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 2 0% 3 0% 1			85.4 days	
0 SW-PAB-S305 R: 11 SW-PAB-S306 R: 12 SW-PAB-S308 R: 13 SW-PAB-S307 R: 14 SW-PAB-S309 W: 15 Built 16 SW-PAB-S400 C: 17 SW-PAB-S401 R: 18 SW-PAB-S402 R: 18 SW-PAB-S402 R:	RC Beam & Floor Slab @ Roof +91.5mPD incl. scaffold erection RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 3 0% 1	U Udys IIvinn July 1/71		85.4 days	
11 SW-PAB-S306 R: 12 SW-PAB-S308 R: 13 SW-PAB-S307 R: 14 SW-PAB-S309 W: 15 Built 16 SW-PAB-S400 C: 17 SW-PAB-S401 R: 18 SW-PAB-S402 R:	RC Column and RC Wall @ above Roof RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 1	S5 days Sat 24/1/26	Fri 27/2/26	-	
22 SW-PAB-S308 R0 33 SW-PAB-S307 R0 44 SW-PAB-S309 W0 55 Built 66 SW-PAB-S400 C0 67 SW-PAB-S401 R0 88 SW-PAB-S402 R0	RC Stairs Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof				85.4 days	
SW-PAB-S307 Riv	Roof Canopy @ +95.8mPD incl. scaffold erection Waterproofing works on roof	0% 2	4 days Sat 28/2/26 11 days Sat 28/2/26	Fri 13/3/26 Fri 20/3/26	85.4 days 145.4 days	
4 SW-PAB-S309 W 5 Built 6 SW-PAB-S400 C 6 SW-PAB-S401 R 8 SW-PAB-S402 R	Waterproofing works on roof				-	
SW-PAB-S400 C			21 days Sat 14/3/26	Fri 3/4/26	85.4 days	
6 SW-PAB-S400 CO 6 SW-PAB-S401 RO 8 SW-PAB-S402 RO			.8 days Sat 2/5/26	Tue 19/5/26	85.4 days	
@ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @ @			4.4 days Sat 30/8/25	Tue 19/5/26	71.2 days	
7 SW-PAB-S401 Ri 8 SW-PAB-S402 Ri	Column, Beam & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection	0% 3	S5 days Sat 30/8/25	Fri 3/10/25	97.4 days	
	-	0% 2	26 days Sat 4/10/25	Wed 29/10/25	97.4 days	
			35 days Thu 30/10/25		97.4 days	
./ SVV I CD 3403 K'			26 days Thu 4/12/25		97.4 days	_
			35 days Tue 30/12/25		97.4 days	
	-		4 days Tue 3/2/26	Mon 16/2/26	97.4 days	
			11 days Tue 3/2/26		170.4 days	
	Roof Canopy @ +95.8mPD incl. scaffold erection		11 days Thu 12/2/26	Wed 4/3/26	97.4 days	
	Installation of Photovoltaic Panel		.8 days Thu 2/4/26	Sun 19/4/26	97.4 days	
	Waterproofing works on roof		.8 days Mon 20/4/26		97.4 days	
	Complete RC Structure		0 days Tue 19/5/26	Tue 19/5/26	85.4 days	→ 19/5
			1.6 days Thu 4/12/25	Tue 12/1/27	71.2 days	
			4.4 days Mon 29/12/2		115.6 days	
			3.4 days Mon 29/12/2		115.6 days	
0 SW-PAB-A501						
			Mon 29/12/25		142 days	
1 SW-PAB-A502	TR &LVSR - ABWF Deg1 - Deg3		88 days Mon 2/2/26	Wed 11/3/26	142 days	
2 SW-PAB-A503	TR &LVSR - BS 1st Fix - 3rd Fix		88 days Mon 16/2/26		142 days	
3 SW-PAB-A504	TR &LVSR - CLP Inspection and Defect Rectification		12 days Thu 26/3/26	Mon 6/4/26	142 days	
4 SW-PAB-A505	TR &LVSR - Installation of Transformer and T&C by CLP		00 days Tue 7/4/26	Sun 5/7/26	142 days	
5 SW-PAB-A506	TR &LVSR - Completion of CLP Cable Laying Leading to PAB		30 days Wed 18/2/26		249.6 days	. 5/7
6 SW-PAB-A507	TR &LVSR - Power-on Date		0 days Sun 5/7/26	Sun 5/7/26	142 days	<u>♦ 5/7</u>
			4.6 days Sat 28/2/26	Wed 29/7/26	96.6 days	
8 SW-PAB-A511			S days Sat 28/2/26	Fri 3/4/26	118 days	
9 SW-PAB-A512	Genset Rm - Concrete Plinth, Waterproofing & Test		2 days Sat 4/4/26	Wed 15/4/26	118 days	
0 SW-PAB-A513	Floor Screeding, Wall Plastering & Doors & Wall Lining		28 days Thu 16/4/26	Wed 13/5/26	118 days	
1 SW-PAB-A514			28 days Thu 14/5/26	Wed 10/6/26	118 days	
2 SW-PAB-A515	Move-In Generator Equipments		7 days Thu 11/6/26	Wed 17/6/26	118 days	
3 SW-PAB-A516	Final Coat to Wall & Sealer to Floor		4 days Thu 18/6/26	Wed 1/7/26	118 days	
4 SW-PAB-A517			18 days Thu 2/7/26	Wed 29/7/26	118 days	
			2.4 days Mon 29/12/2		147.6 days	
SW-PAB-A521	G/F - Falsework Removal/ Preparation for ABWF & MEP Works	0% 4	2 days Mon 29/12/25	Sun 8/2/26	235 days	
SW-PAB-A522	G/F - ABWF Deg1 - Deg3	0% 7	'0 days Mon 9/2/26	Sun 19/4/26	235 days	
SW-PAB-A523	G/F - BS 1st Fix - 3rd Fix	0% 7	'0 days Mon 23/2/26	Sun 3/5/26	235 days	
SW-PAB-A524	1/F - Falsework Removal/ Preparation for ABWF & MEP Works	0% 4	2 days Sat 28/2/26	Fri 10/4/26	174 days	
0 SW-PAB-A525	1/F - ABWF Deg1 - Deg3	0% 7	'0 days Sat 11/4/26	Fri 19/6/26	174 days	
1 SW-PAB-A526	1/F - BS 1st Fix - 3rd Fix	0% 7	'0 days Sat 25/4/26	Fri 3/7/26	174 days	
2 For 0	r Grid No. BB - EE	0% 132	2.6 days Thu 4/12/25	Sun 17/5/26	184.4 days	
ingt: 21 M/CD /21	Task Summan	ry		Inactive Milestone	♦	ation-only Start-only E External Milestone ♦ Critical Split
ect: 21/WSD/21 ised Programme (Apr 2024)	Split Project S	-		Inactive Summary		ual Summary Rollup Finish-only
e: 1 May 2024	Milestone ♦ Inactive			Manual Task		ual Summary External Tasks Critical Manual Progress

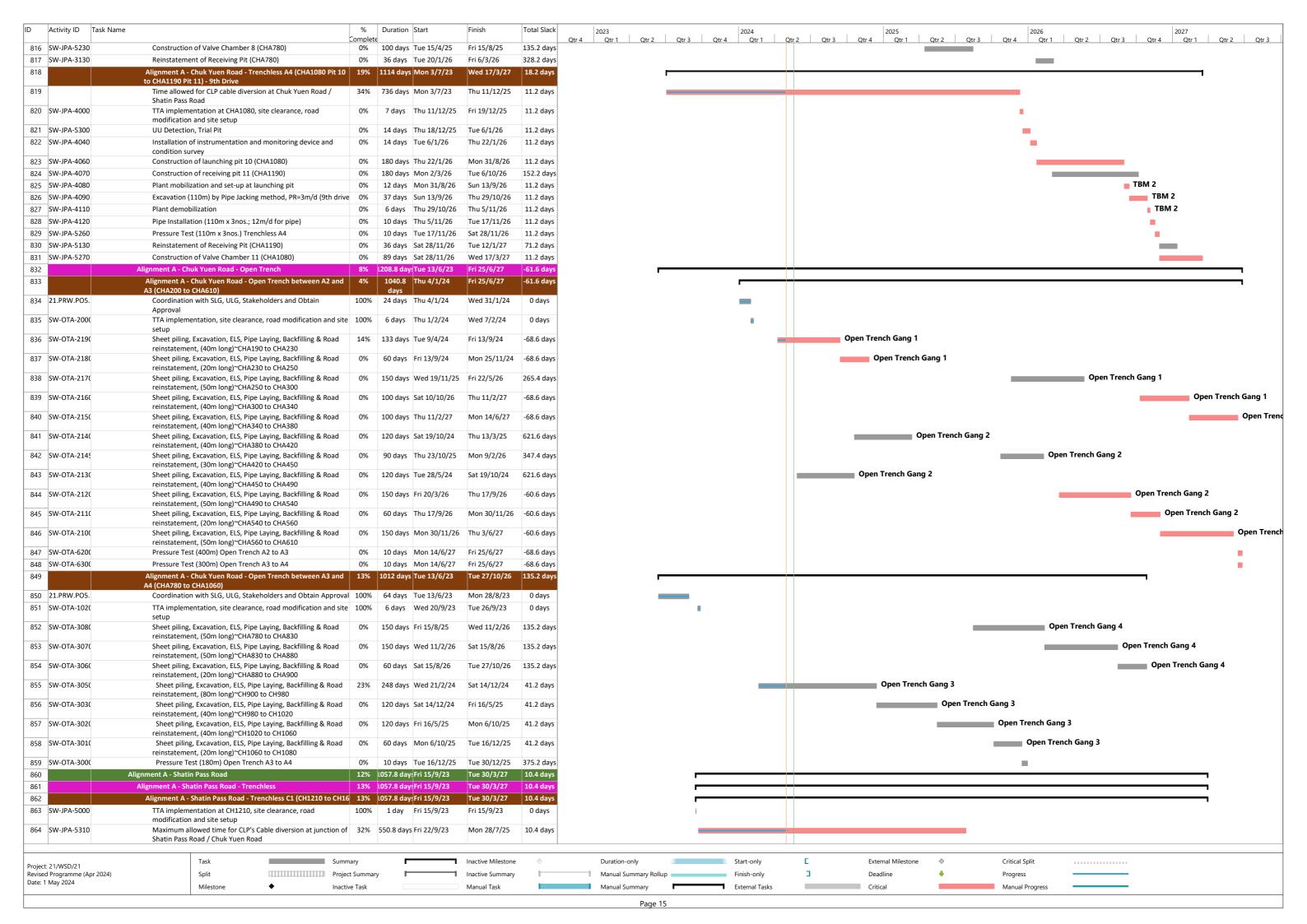
Activity ID Task Nan	me		Duration	Start	Finish	Total Slack	2023	2025 2026 2027
	G/F - FS Water Tank & FS Pump Room	Complete 0%	103.6 days	Thu 4/12/25	Sat 11/4/26	184.4 days	Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2
SW-PAB-A601	FS Water Tank & Pump Rm - Falsework Removal/ Preparation for	or 0%	35 days	Thu 4/12/25	Wed 7/1/26	227 days		_
	ABWF & MEP Works							
SW-PAB-A602	FS Water Tank & Pump Rm - Waterproofing & Testing			Thu 8/1/26	Wed 21/1/26	227 days		
SW-PAB-A603	FS Water Tank & Pump Rm - Plastering Works Inside Tank			Thu 22/1/26	Wed 4/2/26	227 days		
7 SW-PAB-A60 ²	FS Water Tank & Pump Rm - Wall and Floor Tiling Works			Thu 5/2/26	Wed 25/2/26	227 days		-
8 SW-PAB-A605	FS Water Tank & Pump Rm - Install Equipment			Thu 26/2/26	Sat 11/4/26	227 days		
9 SW-PAB-A606	FS Water Tank & Pump Rm - Install Cat Ladder & Hatch Cover			Thu 2/4/26	Sat 11/4/26	227 days		
0	Other Rooms	0%	132.6 days	Thu 4/12/25	Sun 17/5/26	186.4 days		
1 SW-PAB-A611	G/F - Falsework Removal/ Preparation for ABWF & MEP Works	0%	42 days	Thu 4/12/25	Wed 14/1/26	260 days		_
2 SW-PAB-A612	G/F - ABWF Deg1 - Deg3	0%	70 days	Thu 15/1/26	Wed 25/3/26	260 days		
3 SW-PAB-A613	G/F - BS 1st Fix - 3rd Fix	0%	70 days	Thu 29/1/26	Wed 8/4/26	260 days		
4 SW-PAB-A614	1/F - Falsework Removal/ Preparation for ABWF & MEP Works	0%	30 days	Tue 3/2/26	Wed 4/3/26	221 days		
5 SW-PAB-A615	1/F - ABWF Deg1 - Deg3	0%	60 days	Thu 5/3/26	Sun 3/5/26	221 days		
6 SW-PAB-A616	1/F - BS 1st Fix - 3rd Fix	0%	60 days	Thu 19/3/26	Sun 17/5/26	221 days		
7	External Works	0%	280 days	Wed 4/2/26	Tue 12/1/27	71.2 days		· · · · · · · · · · · · · · · · · · ·
8 SW-PAB-E100	Underground Utilities Works, Drainage Works, Watermain Works &	§ 0%	100 days	Wed 4/2/26	Tue 9/6/26	71.2 days		
	Testing at the Periphery of PAB							
19 SW-PAB-E101	Backfilling to Ground Level			Wed 10/6/26	Thu 16/7/26	117.2 days		
0 SW-PAB-E102	Site preparation and erect external falsework around building	0%	12 days	Thu 16/7/26	Thu 30/7/26	117.2 days		
1 SW-PAB-E103	Extenal wall plastering/ painting works	0%	24 days	Thu 30/7/26	Thu 27/8/26	165.2 days		
2 SW-PAB-E104	Extenral wall tiles	0%	24 days	Thu 30/7/26	Thu 27/8/26	117.2 days		
3 SW-PAB-E105	Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings	0%	20 days	Thu 27/8/26	Fri 18/9/26	165.2 days		
54 SW-PAB-E106	Install Steel Claddings, Ventilation Louvres, External Ceiling	0%	20 days	Thu 27/8/26	Fri 18/9/26	117.2 days		
55 SW-PAB-E107	Construction of vehicular road	0%	45 days	Fri 18/9/26	Fri 13/11/26	120.2 days		
56 SW-PAB-E108	Install Bi-folding gate, security fenece, footpath, boundary wall	0%	48 days	Fri 18/9/26	Tue 17/11/26	117.2 days		
57 SW-PAB-E109	Underground Utilities Works, Drainage Works, Watermain Works &	§ 0%	180 days	Wed 10/6/26	Tue 12/1/27	71.2 days		
	Testing along Lion Rock Park Access Road							
58 SW-PAB-E110	Complete External Works	0%		Tue 12/1/27	Tue 12/1/27	71.2 days		♦ 12/1
59	Testing and Commisioning	0%	70.8 days	Thu 30/7/26	Thu 22/10/26	98.8 days		
50 SW-PAB-T100	1A - West Fire Sta - Testing and Commissioning (FS - Related)		18 days	Thu 30/7/26	Sun 16/8/26	118 days		
51 SW-PAB-T200	1A - West Fire Sta - Testing and Commissioning (Non FS - Related)	0%	67 days	Mon 17/8/26	Thu 22/10/26	130 days		
2	Landscaping and Architectural Roof	0%	161.4 days	Wed 4/3/26	Mon 14/9/26	169.2 days		
3 A1000	Construction of Gabion Wall	0%	51 days	Wed 4/3/26	Wed 6/5/26	242.6 days		
4 A1030	Tree Transplant near Gabion Wall	0%	52 days	Tue 31/3/26	Fri 5/6/26	242.6 days		
55 A1040	Installation of Landscape Fence	0%	12 days	Fri 5/6/26	Sat 20/6/26	242.6 days		
66 A1050	Architectural Roof hardwork	0%	99 days	Wed 20/5/26	Mon 14/9/26	169.2 days		
57 A1060	Architectural Roof softwork and Tree transplant	0%		Thu 18/6/26	Mon 17/8/26	194.2 days		
58	Statutory Approval & Inspection			Fri 1/5/26		91.8 days		
59	WSD Inspection			Fri 1/5/26	Tue 3/11/26	96.6 days		
70 SW-PAB-8000	Submit WWO 46 Part IV (PD) and Wait for Inspection by WSD	0%	35 davs	Fri 1/5/26	Thu 4/6/26	200 days		_
71 SW-PAB-8010	Inspection and Re-inspection by WSD (PD) (including water test)			Fri 5/6/26	Thu 23/7/26	200 days		
72 SW-PAB-8020	Issuance Period of WWO 46 Part V (PD)			Fri 24/7/26	Thu 13/8/26	200 days		
73 SW-PAB-803C	Obtain WWO 46 Part V (PD) by WSD	0%		Thu 13/8/26	Thu 13/8/26	200 days		→ 13/8
74 SW-PAB-7010	Inspection and Re-inspection by WSD (FS)			Mon 17/8/26	Tue 13/10/26	118 days		
	Issuance Period of WWO 46 Part V (FS)							
75 SW-PAB-7020	· ·			Wed 14/10/26		118 days		→ 3/11
76 SW-PAB-7030	Obtain WWO 46 Part V (FS) by WSD	0%		Tue 3/11/26	Tue 3/11/26	118 days		
77 SW-PAB-7000	Submit WWO 46 Part IV (FS) and Wait for Inspection by WSD			Mon 13/7/26		118 days		
8 5144 BAB 0006	FSD and OP Inspection				Tue 15/12/26	91.8 days		
9 SW-PAB-9000	Submit Form 314 / FSI501 and Wait for Inspection by FSD			Mon 17/8/26		176 days		
80 SW-PAB-9010	FS Inspection and Re-inspection			Wed 4/11/26		118 days		
31 SW-PAB-9020	Issue Fire Certificate (FS172)			Wed 2/12/26		118 days		
2 SW-PAB-9030	Obtain Fire Certificate (FS172) by FSD	0%		Tue 15/12/26		118 days		♦ 15/12
	hicular Access Tunnel			Fri 9/12/22		-11.4 days	-	
	Tunnel Works CH 0 - 24 by Cut and Cover Method			Fri 9/12/22	Wed 4/3/26	206 days		1
35	Preliminary Works			Fri 9/12/22	Fri 9/12/22	0 days	♦ 9/12	
86 SW-VAT-1000	Access to Portion 1	100%	0 days	Fri 9/12/22	Fri 9/12/22	0 days	♦ 9/12	
37	Structure Works	0%	123 days	Sat 4/10/25	Wed 4/3/26	206 days		,
38 SW-VAT-1510	Construction of temporary wall, waterproofing layer and wall (Tota	al: 0%	48 days	Sat 4/10/25	Mon 1/12/25	206 days		
0 00000	960m3, 8bays (10x10), PR= 12d/bay)		24 :		C . C= /+c /==	205 :		
9 SW-VAT-1520	Erection of working platform			Mon 1/12/25	Sat 27/12/25	206 days		-
0 SW-VAT-1530	Construction of top slab (Total: 792m3, 4bays(10x16.5), PR =	0%	24 days	Sat 27/12/25	Sat 24/1/26	206 days		
1 SW-VAT-1540	12d/bay, 2workfront) Backfilling to existing level	Ω%	30 days	Sat 24/1/26	Wed 4/3/26	206 days		
				Sat 22/6/24	Mon 26/4/27	-44.8 days		
	Tunnel Works CH 24 - 697.8 & Caverns (5no.) by Mechanical Break & Drill & Blast Method		852 days	Sat 22/6/24	WION 26/4/27	-44.8 days		
3 SW-VAT-2060	Application of CNP to extend working hours (7 work days/week) in	0%	90 days	Sat 22/6/24	Thu 19/9/24	935 days		
	Tunnel & Cavern		,-	, -, = -	-,-,-	, , , ,		
4 SW-VAT-2001	Pre-excavation grouting (with Dextra self-drilling piping system)	0%	17 days	Tue 6/8/24	Sat 24/8/24	-81.8 days		
5 SW-VAT-2002	Installation of Face Nail Support in Top Heading	0%	5 days	Tue 6/8/24	Sat 10/8/24	-69.8 days		
					Inactive Milestone		Duration-only Start-only	External Milestone ♦ Critical Split
	T1:							
pject: 21/WSD/21	Task Sum	-						
ject: 21/WSD/21 ised Programme (Apr 2024) e: 1 May 2024	Split Proj	-	, r		Inactive Summary Manual Task		Manual Summary Rollup Finish-only Manual Summary External Tasks	☐ Deadline

Activity ID Task Nam		% Complete	Duration	Start	Finish	Total Slack	<u>Qtr 4</u> <u>Qtr 1</u> <u>Qtr 2</u> Otr 3 Otr 4 Otr 1	2025 2026 2027 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 4
96 SW-VAT-200	Installation of remaining raking struts		6 days	Sun 18/8/24	Sat 24/8/24	786.6 d	Qu 4	QUE
7 SW-VAT-2003	Flame Cut Slots in Pipe Piles for Canopy Tube Installation			Sat 24/8/24	Fri 30/8/24	-81.8 days		
98 SW-VAT-2004	Double Layer Canopy Tube (18m length) Installation & Grouting			Fri 30/8/24	Thu 26/9/24	-81.8 days		
99 SW-VAT-200	Removal of 3rd Layer of Struts	0%		Thu 19/9/24	Thu 26/9/24	759.6 d		
00 SW-VAT-2005 01 SW-VAT-2006	Installation of Portal Frame Part Removal of Pipe Piles for TL & Shotcreting for Quadrant 1	0%		Thu 26/9/24 Fri 27/9/24	Fri 27/9/24 Wed 2/10/24	-81.8 days		
)1 SW-VA1-2006	Tunnel Works CH24 to CH74 by Initial Mechanical Excavation			Wed 2/10/24	Thu 21/8/25	-81.8 days		
03 SW-VAT-3200	Initial Mechanical Excavation - Top Heading Left - CH24 to CH74			Wed 2/10/24 Wed 2/10/24	Mon 2/12/24	-81.8 days		
,5 511 1711 5255	(1m/day) (incl. 2d for Double Layer Canopy Tube (6m) Installation a		52 44,5			02.0 00,0		
4 SW-VAT-3205	Part Removal of Pipe Piles for TL & Shotcreting for Quadrant 2	0%	3 days	Sat 26/10/24	Wed 30/10/24	623.6 days		I
5 SW-VAT-3210	Initial Mechanical Excavation - Top Heading Right - CH24 to CH74	0%	50 days	Wed 30/10/24	Sat 28/12/24	623.6 days		
06 SW-VAT-3220	(1m/day) Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	34 days	Wed 21/5/25	Wed 2/7/25	530.6 days		
, o o o o o o o o o o o o o o o o o o o	Cofferdam - Bottom Bench Left	0,0	5.44,5			ssore days		
07 SW-VAT-3215	Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	3 days	Wed 2/7/25	Sat 5/7/25	530.6 days		I .
08 SW-VAT-3230	Cofferdam - Bottom Bench Left Initial Mechanical Excavation - Bottom Bench Right - CH74 to CH24	0%	24 days	Thu 10/7/25	Mon 18/8/25	489.6 days		
3W-VAI-323C	(1.5m/day)	076	34 uays	111u 10/7/23	101011 10/0/23	403.0 uays		
509 SW-VAT-3225	Excavation of Backfill Material inside the Cut and Cover Tunnel	0%	3 days	Tue 19/8/25	Thu 21/8/25	489.6 days		
10	Cofferdam - Bottom Bench Right	. 00/	244	2/42/24	F : 40 /42 /25	24.0.1		
10 11 SW-VAT-3235	Tunnel Works CH74 to CH276 by Mechanical Excavation & Drill & Bla			Mon 2/12/24	Fri 19/12/25	-81.8 days		
11 SW-VAT-3235 12 SW-VAT-3240	Pre-excavation Grouting at CH74 to CH104 Mechanical Excavation - Top Heading Left - CH74 to CH133 (1m/da)			Mon 2/12/24 Tue 3/12/24	Tue 3/12/24 Sat 15/2/25	-81.8 days		
12 SW-VAT-3240 13 SW-VAT-3250	Mechanical Excavation - Top Heading Left - CH74 to CH133 (1m/da) Mechanical Excavation - Top Heading Right - CH74 to CH133 (1m/da)			Sat 28/12/24	Tue 11/3/25	-81.8 days 623.6 days		
14 SW-VAT-3900	Mechanical Excavation - Full Heading - CH133 to CH175 (1.2m/day)			Sat 26/12/24 Sat 15/2/25	Fri 28/3/25	-81.8 days		
15 SW-VAT-3910	Mechanical Excavation - Full Heading - CH175 to CH276 (1.2m/day)			Fri 28/3/25	Mon 14/7/25	-81.8 days		
516 SW-VAT-3260	Mechanical Excavation - Bottom Bench Left - CH133 to CH110 (1m/			Fri 28/3/25	Mon 28/4/25	489.6 days		
17 SW-VAT-3270	Mechanical Excavation - Bottom Bench Left - CH110 to CH74 (2m/d			Mon 28/4/25	Wed 21/5/25	489.6 days		
18 SW-VAT-3280	Mechanical Excavation - Bottom Bench Right - CH133 to CH110 (1m	0%		Wed 21/5/25	Wed 18/6/25	489.6 days		
19 SW-VAT-3290	Mechanical Excavation - Bottom Bench Right - CH110 to CH74 (2m/	'd: 0%	18 days	Wed 18/6/25	Thu 10/7/25	489.6 days		
520 SW-VAT-3920	D&B Excavation - Bottom Bench Left - CH276 to CH133 (3.5m/day)	0%	41 days	Fri 12/9/25	Sat 1/11/25	85.6 days		
21 SW-VAT-3930	D&B Excavation - Bottom Bench Right - CH276 to CH133 (3.5m/day)) 0%	41 days	Sat 1/11/25	Fri 19/12/25	85.6 days		
22	Tunnel Works CH276 to CH286 by Drill & Blast Excavation (Initial)	0%	97 days	Fri 28/3/25	Sat 26/7/25	-32.8 days		
23 SW-VAT-3080	Blast Door - Erect Steel Frame	0%	21 days	Fri 28/3/25	Fri 18/4/25	-37.8 days		
24 SW-VAT-3090	Blast Door - Install Blast Door	0%		Fri 18/4/25	Fri 2/5/25	-37.8 days		
25 SW-VAT-3100	Blast Door - Inspection by Mines Dept.	0%		Fri 2/5/25	Fri 9/5/25	-37.8 days		
26 SW-VAT-3280	D&B Excavation - Top Heading Left - CH276 to CH286 (3m/day)	0%		Mon 14/7/25	Fri 18/7/25	-81.8 days		
27 SW-VAT-3290	D&B Excavation - Top Heading Right - CH276 to CH286 (3m/day)	0%		Mon 14/7/25	Fri 18/7/25	85.6 days		
28 SW-VAT-3300	D&B Excavation - Bottom Bench Left - CH276 to CH286 (3m/day)	0%		Fri 18/7/25	Tue 22/7/25	85.6 days		
529 SW-VAT-3310	D&B Excavation - Bottom Bench Right - CH276 to CH286 (3m/day) Tunnel Works CH286 to CH337.15 by Drill & Blast Excavation			Wed 23/7/25		137.6 days		<u> </u>
530 531 SW-VAT-3320	D&B Excavation - Top Heading Left - CH286 to CH337.15 (3m/day)			Fri 18/7/25	Sat 16/8/25 Thu 7/8/25	-81.8 days		
532 SW-VAT-3330	D&B Excavation - Top Heading Right - CH286 to CH337.15 (3m/day)	, I		Fri 18/7/25 Fri 18/7/25	Thu 7/8/25	145.6 days		
532 SW-VAT-3330 533 SW-VAT-3340	D&B Excavation - Bottom Bench Left - CH286 to CH337.15 (3m/da			Wed 23/7/25	Tue 12/8/25	99.6 days		
34 SW-VAT-3350	D&B Excavation - Bottom Bench Right - CH286 to CH337.15 (3m/d			Mon 28/7/25	Sat 16/8/25	137.6 days		
35	Tunnel Works CH337.15 to CH387.15 by Mechanical Excavation			Fri 8/8/25	Fri 21/11/25	-81.8 days		
36 SW-VAT-3355	Pre-excavation Grouting at CH360 to CH390	0%		Fri 8/8/25	Fri 8/8/25	-81.8 days		
37 SW-VAT-3360	Mechanical Excavation - Top Heading Left - CH337.15 to CH387.15	0%	42 days	Sat 9/8/25	Fri 26/9/25	-81.8 days		
20 (14) // 22	(1.2m/day)		42 1	F : 0/0/05	TI 0= /0 /==	445.5.1		
38 SW-VAT-3370	Mechanical Excavation - Top Heading Right - CH337.15 to CH387.19 (1.2m/day)	5 0%	42 days	Fri 8/8/25	Thu 25/9/25	145.6 days		
539 SW-VAT-3380	Mechanical Excavation - Bottom Bench Left - CH337.15 to CH387.1	5 0%	42 days	Wed 13/8/25	Tue 30/9/25	99.6 days		_
	(1.2m/day)							
540 SW-VAT-3390	Mechanical Excavation - Bottom Bench Right - CH337.15 to	0%	42 days	Thu 2/10/25	Fri 21/11/25	99.6 days		
541	CH387.15 (1.2m/day) Tunnel Works CH387.15 to CH416 by Mechanical Excavation	0%	71 days	Fri 26/9/25	Sat 20/12/25	-80.8 days		
42 SW-VAT-3395	Pre-excavation Grouting at CH410 to CH440			Sat 27/9/25	Sat 27/9/25	-81.8 days		
43 SW-VAT-3400	Mechanical Excavation - Top Heading Left - CH387.15 to CH416			Mon 29/9/25	Thu 30/10/25	-81.8 days		
	(1.2m/day)							
44 SW-VAT-3410	Mechanical Excavation - Top Heading Right - CH387.15 to CH416	0%	25 days	Fri 26/9/25	Mon 27/10/25	145.6 days		
45 SW-VAT-3420	(1.2m/day) Mechanical Excavation - Bottom Bench Left - CH387.15 to CH416	0%	25 davs	Thu 2/10/25	Sat 1/11/25	141.6 days		
	(1.2m/day)	0,3			,, -5			_
46 SW-VAT-3430	Mechanical Excavation - Bottom Bench Right - CH387.15 to CH416	0%	25 days	Fri 21/11/25	Sat 20/12/25	99.6 days		_
47	(1.2m/day) Tunnel Works CH416 to CH456 by Drill & Blast Excavation	0%	12 days	Thu 30/10/25	Thu 13/11/25	-81 & days		_
47 SW-VAT-3440	D&B Excavation - Top Heading Expanding to Full Width and Height					-81.8 days		
TO SVV VAITSHHU	CH416 to CH456 (3.5m/day)	0/0	12 uays	u 30/10/23	1110 13/11/23	O1.0 udys		
49	Tunnel Works CH456 to CH506 by Drill & Blast Excavation	0%	15 days	Thu 13/11/25	Mon 1/12/25	-81.8 days		П
50 SW-VAT-3470	D&B Excavation - Full Width and Height - CH456 to CH506 (3.5m/da	ay 0%	15 days	Thu 13/11/25	Mon 1/12/25	-81.8 days		■ ·
51	Tunnel Works CH506 to CH557 by Drill & Blast Excavation	0%	16 days	Mon 1/12/25	Fri 19/12/25	-81.8 days		п
52 SW-VAT-3475	Pre-excavation Grouting at CH510 to CH540			Mon 1/12/25	Tue 2/12/25	-81.8 days		
53 SW-VAT-3490	D&B Excavation - Full Width and Height - CH506 to CH557 (3.5m/da	ay 0%	15 days	Tue 2/12/25	Fri 19/12/25	-81.8 days		
	Task	ımary			Inactive Milestone	\langle	Duration-only Start-only	E External Milestone ♦ Critical Split
vject: 21/WSD/21 vised Programme (Apr 2024)	Split Proje	,	-		Inactive Nillestone Inactive Summary	_	Manual Summary Rollup Finish-only	☐ Deadline
te: 1 May 2024		tive Task		•	Manual Task		Manual Summary Manual Summary External Tasks	Critical Manual Progress
	Itiliestone ▼ IIIdC	I GON			Acat taninati		inangai sammary External IdSKS	VIDUAL IVIDIUDI I IVUICOS

Activity ID Task N	turic .		Duration		Finish		Otr 4 Otr 1 Otr 2 Otr 2 Otr 4 Otr 4 Otr 5	01:2 01:4 01:1 01:2 01:3 01:4 01:4 01:3 01:3
4	Tunnel Works CH557 to CH607 by Drill & Blast Excavation	Complete 0%	15 days	Fri 19/12/25	Thu 8/1/26	-81.8 days	Qu 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2	Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4
SW-VAT-3510	D&B Excavation - Full Width and Height - CH557 to CH607 (3.5m/da	ay 0%	15 days	Fri 19/12/25	Thu 8/1/26	-81.8 days		· · · · · · · · · · · · · · · · · · ·
6	Tunnel Works CH607 to CH645 by Drill & Blast Excavation	0%	11 days	Thu 8/1/26	Wed 21/1/26	-81.8 days		п
7 SW-VAT-3530	D&B Excavation - Full Width and Height - CH607 to CH645 (3.5m/d	-			Wed 21/1/26	-81.8 days		· ·
3	Tunnel Works Cavern A (SWSR1) by Drill & Blast Excavation (CH527.				Tue 5/5/26	-81.8 days		
9 SW-VAT-3800	Junction Pre-support			Fri 12/12/25	Thu 18/12/25	-42.8 days		The state of the s
SW-VAT-3570	D&B Excavation - Cavern A Top Heading - CHA00 to CHA22 (3.5m/day) (J2, Drained)	0%	7 days	Mon 29/12/25	Tue 6/1/26	-49.8 days		
SW-VAT-3580	D&B Excavation - Cavern A Top Heading - CHA22.0 to CHA92.0 (3.5	m. 0%	20 days	Tue 6/1/26	Thu 29/1/26	-49.8 days		· ·
2 SW-VAT-3585	D&B Excavation - Cavern A Top Heading - CHA92.0 to CHA125.428	0%		Thu 29/1/26	Wed 25/2/26	-81.8 days		
	(3.5m/2 day cycle)							
3 SW-VAT-3600	D&B Excavation - Cavern A Bottom Bench - CHA22 to CHA125.428 (25m/3 day cycle)	0%	24 days	Wed 11/3/26	Fri 10/4/26	-81.8 days		
4 SW-VAT-3610	D&B Excavation - Cavern A Bottom Bench - CHA6.774 to CHA22	0%	6 davs	Fri 10/4/26	Fri 17/4/26	-81.8 days		
	(25m/3 day cycle) (J2, Drained)		, .	-, , -		,		•
5 SW-VAT-3615	Mucking Out	0%	14 days	Fri 17/4/26	Tue 5/5/26	-81.8 days		· · · · · · · · · · · · · · · · · · ·
	Tunnel Works Cavern B (SWSR2) by Drill & Blast Excavation (CH567.		· ·			-67.8 days		
' SW-VAT-3810	Junction Pre-support			Tue 30/12/25		-67.8 days		The state of the s
3 SW-VAT-3630	D&B Excavation - Cavern B Top Heading - CHB00 to CHB23	0%	7 days	Wed 21/1/26	Thu 29/1/26	-81.8 days		The state of the s
SW-VAT-3640	(3.5m/day) (J2, Drained) D&B Excavation - Cavern B Top Heading - CHB23 to CHB121.595	0%	57 days	Fri 30/1/26	Mon 13/4/26	-51 days		
	(3.5m/2 day cycle)	3,3	2015	, -, -0				
SW-VAT-3650	D&B Excavation - Cavern B Bottom Bench - CHB23 to CHB121.595	0%	24 days	Mon 27/4/26	Wed 27/5/26	-51 days		
SW-VAT-3660	(25m/3 day cycle) D&B Excavation - Cavern B Bottom Bench - CHB8.057 to CHB23	Ω%	6 days	Wed 27/5/26	Wed 3/6/26	-51 days		· · · · · · · · · · · · · · · · · · ·
, 500 VAI 5000	(25m/3 day cycle) (J2, Drained)	0/0	o uays		1100 3/0/20	JI uays		· ·
SW-VAT-3665	Mucking Out	0%	14 days	Wed 3/6/26	Sat 20/6/26	-51 days		· ·
В	Tunnel Works Cavern C (FWSR1) by Drill & Blast Excavation (CH620.6	61 0%	105 days	Sat 17/1/26	Thu 28/5/26	-34.8 days		
1 SW-VAT-3820	Junction Pre-support	0%	5 days	Sat 17/1/26	Fri 23/1/26	-29.8 days		The state of the s
5 SW-VAT-3710	D&B Excavation - Cavern C Top Heading - CHC00 to CHC21 (3.5m/2	0%	12 days	Thu 29/1/26	Thu 12/2/26	-34.8 days		The second secon
6 SW-VAT-3720	day cycle) (J2, Drained) D&B Excavation - Cavern C Top Heading - CHC21 to CHC85.453	Ω%	37 days	Thu 12/2/26	Mon 30/3/26	-34.8 days		<u> </u>
544 VAI 3/20	(3.5m/2 day cycle)	0/0	or uays	12/2/20	141311 30/ 3/ 20	ST.S udys		-
7 SW-VAT-3730	D&B Excavation - Cavern C Bottom Bench - CHC21 to CHC85.453	0%	18 days	Thu 16/4/26	Fri 8/5/26	-34.8 days		
0 CM/ MAT 2740	(20m/3 day cycle)	00/	C -l	F-: 0/F/2C	F.: 4F /F /2C	24.0 de		
SW-VAT-3740	D&B Excavation - Cavern C Bottom Bench - CHC6.680 to CHC21 (20m/3 day cycle) (J2, Drained)	0%	6 days	Fri 8/5/26	Fri 15/5/26	-34.8 days		The state of the s
SW-VAT-3745	Mucking Out	0%	10 days	Fri 15/5/26	Thu 28/5/26	-34.8 days		
0	Tunnel Works Cavern D (FWSR2) by Drill & Blast Excavation (CH645)	0%	103 days	Wed 21/1/26	Fri 29/5/26	-48 days		
1 SW-VAT-3830	Junction Pre-support	0%	5 days	Wed 21/1/26	Tue 27/1/26	-45 days		The state of the s
2 SW-VAT-3750	D&B Excavation - Cavern D Top Heading - CHD00 to CHD16 (3.5m/2	2 0%	10 days	Fri 30/1/26	Wed 11/2/26	-48 days		The second secon
	day cycle) (J2, Drained)							
3 SW-VAT-3760	D&B Excavation - Cavern D Top Heading - CHD16 to CHD82.750 (3.5m/2 day cycle)	0%	39 days	Wed 11/2/26	Tue 31/3/26	-48 days		_
4 SW-VAT-3770	D&B Excavation - Cavern D Bottom Bench - CHD16 to CHD82.750	0%	18 days	Fri 17/4/26	Sat 9/5/26	-48 days		
	(20m/3 day cycle)							
5 SW-VAT-3780	D&B Excavation - Cavern D Bottom Bench - CHD00 to CHD16 (20m/	/3 0%	6 days	Sat 9/5/26	Sat 16/5/26	-48 days		The second secon
6 SW-VAT-3785	day cycle) (J2, Drained) Mucking Out	0%	10 days	Sat 16/5/26	Fri 29/5/26	-48 days		
	Remaining Works		-	Mon 1/9/25	Mon 26/4/27	-11.4 days		
3 SW-VAT-3000	Manufacture of DfMA for compartment construction			Mon 1/9/25	Tue 3/3/26	153.6 days		
SW-VAT-3001	Delivery of DfMA for compartment construction			Tue 28/10/25	Tue 24/3/26	153.6 days		
SW-VAT-3010	[CH24-337.15] Construction of drainage layer, base slab, lower part			Fri 19/12/25	Thu 2/7/26	85.6 days		
	(276m from exc.) 313.15m, PR=12m/wk (157d)							
1 SW-VAT-3020	[CH24-337.15] Construction of RC Lining (min 24m from base slab +	+ 0%	169 days	Mon 19/1/26	Thu 13/8/26	85.6 days		
2 SW-VAT-3030	2wk erection) 313.15m, PR=2m/d [CH24-337.15] Construction of compartment RHS (min 24m from	0%	157 davs	Mon 16/2/26	Thu 27/8/26	85.6 days		
	Lining), 313.15m, PR=2m/d	2.0	20,5	, -, -0	, 5, 20	20,5		
SW-VAT-3035	[CH24-337.15] Construction of compartment LHS (min 24m from	0%	157 days	Thu 12/3/26	Wed 16/9/26	85.6 days		
4 SW-VAT-3010	RHS Lining), 313.15m, PR=2m/d [CH337.15-644.3] Construction of drainage layer, base slab, lower	0%	15/1 days	Wed 3/6/26	Thu 3/12/26	-32.4 days		
T SAN AVI-2010	part (after all excavation) 307.15m, PR=12m/wk (154d)	0/0	154 days	VVCu 3/0/20	111u 3/12/20	JZ.4 udyS		
5 SW-VAT-3020	[CH337.15-644.3] Construction of RC Lining (min 24m from base sla	ab 0%	166 days	Thu 2/7/26	Mon 18/1/27	-32.4 days		
5 CM MAT 2027	+ 2wk erection) 307.153m, PR=2m/d	001	454.7	Th 27 /0 /22	M-12/2/2	22.4		
SW-VAT-3035	[CH337.15-644.3] Construction of compartment RHS (min 24m fror Lining), 307.153, PR=2m/d	m 0%	154 days	Thu 27/8/26	Wed 3/3/27	-32.4 days		
' SW-VAT-3030	[CH337.15-644.3] Construction of compartment LHS (min 24m from	n 0%	154 days	Thu 3/9/26	Wed 10/3/27	-32.4 days		
	Lining), 307.15m, PR=2m/d							
SW-VAT-3040	Installation of pipeworks below proposed road level (Total: 3726m)) 0%	135 days	Sat 14/11/26	Mon 29/3/27	-15.8 days		
SW-VAT-3070	PR=36m/d incl. 1M for Pressure Test (135d) Construction of OHVD, 620.3m, PR=12d/50m	0%	135 days	Tue 8/12/26	Thu 22/4/27	-9.8 days		
SW-VAT-3070	Installation of FS and E&M along VAT			Mon 9/11/26	Wed 7/4/27	-1.4 days		
SW-VAT-3080	FS Inspection for VAT	0%		Wed 7/4/27	Wed 1/4/27 Wed 14/4/27	-1.4 days		
2 SW-VAT-3060	Installation of CLP power cable along VAT			Thu 11/2/27	Mon 26/4/27	-32.4 days		
	Caverns A - Salt Water Service Reservoir No.1 (CH527.03)			Wed 25/2/26		-81.8 days		
SW-C1-1000	Caverns A - Completion of Tunnel Works			Fri 17/4/26	Fri 17/4/26	-83 days		• 17/4
SW-C1-1010	Caverns A - Construction of Permanent Shotcrete Lining (Top Heading)			Wed 25/2/26		-81.8 days		· · · · · · · · · · · · · · · · · · ·
1							Duration only 5	Futomal Milastona A Californi Californi
ect: 21/WSD/21	Task Sun	,	. r		Inactive Milestone	~	Duration-only Start-only E Manual Summary Rollup Finish-only	External Milestone
sed Programme (Apr 2024) e: 1 May 2024			, [Inactive Summary Manual Task	U	Manual Summary Rollup Finish-only	
I IVIUY LOLT	Milestone ◆ Inac	ctive Task						Critical Manual Progress

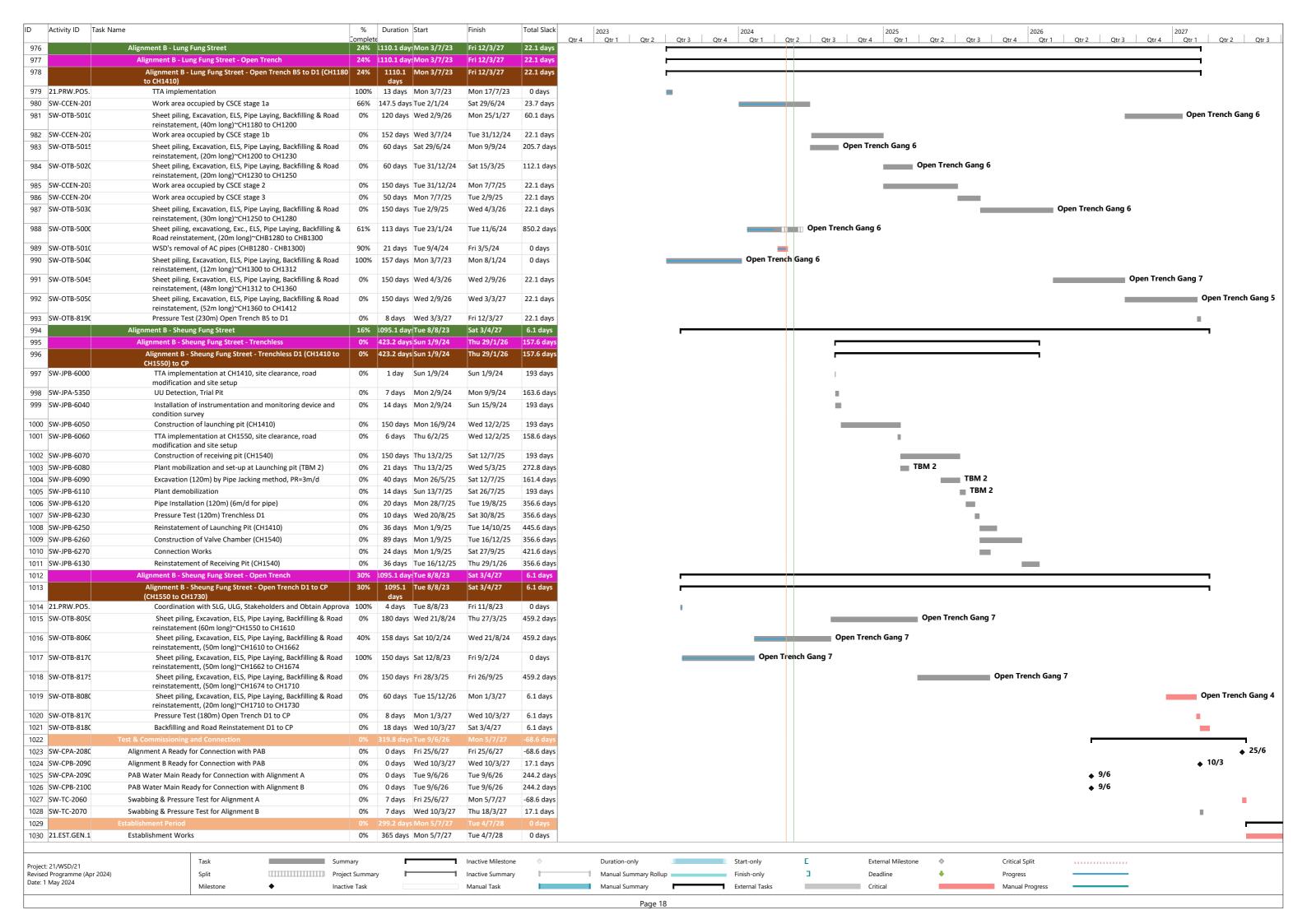
Activity ID	Tools Name	01	Duration Ctt	Finial-	Total Cl.		
	Task Name	% Complete	Duration Start	Finish	Total Slack	2023 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Otr 4 Otr 1	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 3 Qtr 4 Qtr 3 Qtr 4 Qtr 3 Qtr 4 Qtr 4 Qtr 3 Qtr 4 Qtr 3 <td< td=""></td<>
06 SW-C1-1011	Caverns A - Construction of Permanent Shotcrete Lining (Bottom Bench)		12 days Wed 22/4/26	Thu 7/5/26	-81.8 days		
07 SW-C1-1020		0%	16 days Thu 7/5/26	Wed 27/5/26	-81.8 days		
08 SW-C1-1030	2wk for erection) Caverns A - Waterproofing system and protection layer to Wall and Slab	0%	60 days Wed 27/5/26	Sun 26/7/26	-104 days		
09 SW-C1-1040			60 days Sat 13/6/26	Mon 24/8/26	-81.8 days		
.5 544 CT.1040	1939m3, 12bays(11x9), PR= 15d/bay, 3workfronts)	0/6	30 day3 3dt 13/0/20	111011 27/0/20	OI.U days		
0 SW-C1-1050	Caverns A - Construction of wall, beam & slab up to 91.35mPD for water	r ta 0%	48 days Mon 24/8/26	Wed 21/10/26	-54.8 days		
I1 SW-C1-1060		0%	44 days Mon 24/8/26	Thu 15/10/26	-81.8 days		
12 SW-C1-1070	(Total:1200m3, 11bays(12x9), PR=12d/bay, 3 workfront) Caverns A - Construction of soil filling, pipeworks and at-grade slab for	0%	24 days Fri 16/10/26	Sun 8/11/26	-97 days		
12 3W-C1-1070	pump/ plant room area	076	24 days 111 10/10/20	3uii 6/11/20	-37 uays		
13 SW-C1-1080	Caverns A - Construction of wall, beam & slab up to cavern soffit for	0%	48 days Mon 9/11/26	Sat 26/12/26	-97 days		
1.1 514 64 4000	pump/ plant room area	II 00/	40 1 14 10/42/20	25/4/27	07.1		
14 SW-C1-1090	Caverns A - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant	II 0%	48 days Wed 9/12/26	Mon 25/1/27	-97 days		
5 SW-C1-1100	·	0%	90 days Sat 21/11/26	Thu 18/2/27	-97 days		
6 SW-C1-1110	Caverns A - Completion of BS and ABWF works and Handover to CLP	0%	0 days Thu 18/2/27	Thu 18/2/27	-97 days		♦ 18/2
7 SW-C1-1120	Caverns A - CLP installation works in Transformer Room and Switchoard	Rc 0%	60 days Fri 19/2/27	Mon 19/4/27	-97 days		
8 SW-C1-1125	Caverns A - FS Inspection	0%	6 days Mon 22/3/27	Wed 31/3/27	376.8 days		
9 SW-C1-1130	Caverns A - Testing and Commissioning	0%	90 days Sun 21/3/27	Fri 18/6/27	-67 days		
0	Caverns B - Salt Water Service Reservoir No.2 (CH567.527)	0%	378.4 days Mon 13/4/26	Sun 18/7/27	-51 days		
SW-C2-1000	Caverns B - Completion of Tunnel Works	0%	0 days Wed 3/6/26	Wed 3/6/26	-43 days		♦ 3/6
2 SW-C2-1010	Caverns B - Construction of Permanent Shotcrete Lining (Top Heading)	0%	12 days Mon 13/4/26	Mon 27/4/26	-51 days		■
SW-C2-1011	Caverns B - Construction of Permanent Shotcrete Lining (Bottom Bench)	0%	12 days Mon 8/6/26	Mon 22/6/26	-51 days		• • • • • • • • •
4 SW-C2-1020		0%	16 days Mon 22/6/26	Sat 11/7/26	-51 days		
E SW C2 1020	2wk for erection) Caveres R - Waterproofing system and protection layer to Wall and Slah	00/	60 days Sat 11/7/26	Wed 0/0/26	-61 2 days		<u> </u>
25 SW-C2-1030 26 SW-C2-1040			60 days Sat 11/7/26 60 days Wed 29/7/26	Wed 9/9/26 Thu 8/10/26	-61.2 days		
0 3VV-CZ-1U4U	1880m3, 15bays (11x7), PR= 15d/bay, 3workfronts)	U70	ou uays Weu 29/1/20	111u O/ 1U/ 20	-or nays		
7 SW-C2-1060	Caverns B - Construction of Slab 1.0m thk for pump/plant room area	0%	36 days Fri 9/10/26	Fri 20/11/26	-51 days		
0 (14) (2) 12=5	(Total:597m3, 7bays(11x7.5), PR=12d/bay, 3 workfront)		40 days 5:0/20/00	W-J 25 / 25	22.1		
8 SW-C2-1050	·		48 days Fri 9/10/26	Wed 25/11/26	-32 days		
9 SW-C2-1070	Caverns B - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	υ%	24 days Sat 21/11/26	Mon 14/12/26	-63 days		
SW-C2-1080		0%	48 days Tue 15/12/26	Sun 31/1/27	-63 days		
	pump/ plant room area						
1 SW-C2-1090		II 0%	48 days Thu 14/1/27	Tue 2/3/27	-63 days		
2 SW-C2-1100	and other civil works for E&M plant Caverns B - FS, BS, E&M works and ABWF	0%	90 days Sun 27/12/26	Fri 26/3/27	-63 days		
33 SW-C2-1110			60 days Fri 19/2/27	Mon 19/4/27	-97 days		
	Switchoard Room to SWSR2	0,0			au,3		
4 SW-C2-1120	Caverns B - Energization of SWSR2	0%	0 days Mon 19/4/27	Mon 19/4/27	-97 days		•
05 604/ 60 4405		0%	6 days Tue 20/4/27	Mon 26/4/27	355.8 days		1
35 SW-C2-1125	Caverns B - FS Inspection	070					
86 SW-C2-1130	Caverns B - Testing and Commissioning	0%	90 days Tue 20/4/27	Sun 18/7/27	-97 days		
6 SW-C2-1130 7	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61)	0% 0%	387.4 days Mon 30/3/26	Sun 18/7/27 Sun 18/7/27	-34.8 days		
66 SW-C2-1130 67 88 SW-C4-1000	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works	0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26	-34.8 days -27.8 days		♦ 15/5
86 SW-C2-1130 87 88 SW-C4-1000 89 SW-C4-1010	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading)	0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26	-34.8 days -27.8 days -34.8 days		↑ 15/5
5 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench)	0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26	-34.8 days -27.8 days -34.8 days -34.8 days		↑ 15/5
5 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d +	0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26	-34.8 days -27.8 days -34.8 days		↑ 15/5
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection)	0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26	-34.8 days -27.8 days -34.8 days -34.8 days		→ 15/5
16 SW-C2-1130 17 8 SW-C4-1000 19 SW-C4-1010 10 SW-C4-1011 11 SW-C4-1020 12 SW-C4-1030	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab	0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days		♦ 15/5
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts)	0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days		♦ 15/5
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area	0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days		♦ 15/5
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1060	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total: 553m3, 6bays (11x9), PR=12d/bay, 3 workfront)	0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days		·
SW-C2-1130 SW-C4-1000 SW-C4-1010 SW-C4-1011 SW-C4-1020 SW-C4-1030 SW-C4-1040 SW-C4-1060 SW-C4-1050	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days		·
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1060 5 SW-C4-1050	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days		·
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1060 5 SW-C4-1050 6 SW-C4-1070	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days		·
66 SW-C2-1130 7 88 SW-C4-1000 99 SW-C4-1010 100 SW-C4-1011 11 SW-C4-1020 22 SW-C4-1030 33 SW-C4-1040 44 SW-C4-1060 55 SW-C4-1050 66 SW-C4-1070 77 SW-C4-1080	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Sun 15/11/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/26 Fri 1/1/27	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -34.8 days		·
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1060 5 SW-C4-1050 6 SW-C4-1070 7 SW-C4-1080	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0%	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/26 Fri 1/1/27	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days		·
36 SW-C2-1130 37 38 SW-C4-1000 39 SW-C4-1010 30 SW-C4-1011 31 SW-C4-1020 32 SW-C4-1030 33 SW-C4-1040 34 SW-C4-1060 35 SW-C4-1050 36 SW-C4-1070 37 SW-C4-1080 38 SW-C4-1090	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Sun 15/11/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/26 Fri 1/1/27	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -34.8 days		·
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 0 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1050 6 SW-C4-1070 7 SW-C4-1080 8 SW-C4-1090 9 SW-C4-1100	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Gompletion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room &	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 48 days Sun 15/11/26 48 days Tue 15/12/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days		·
36 SW-C2-1130 37 38 SW-C4-1000 39 SW-C4-1010 30 SW-C4-1011 31 SW-C4-1020 31 SW-C4-1040 31 SW-C4-1040 32 SW-C4-1040 33 SW-C4-1040 34 SW-C4-1050 35 SW-C4-1070 36 SW-C4-1090 37 SW-C4-1090 38 SW-C4-1100 39 SW-C4-1110	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Gompletion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Tue 15/12/26 90 days Fri 27/11/26 60 days Fri 19/2/27	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -43 days -43 days -43 days -43 days -97 days		
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6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1011 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1050 6 SW-C4-1080 8 SW-C4-1080 8 SW-C4-1090 9 SW-C4-1100 1 SW-C4-1110 1 SW-C4-1120 2 SW-C4-1125 3 SW-C4-1130 4 SW-C5-1010 7 SW-C5-1011	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Gompletion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1 Caverns C - Energization of FWSR1 Caverns C - Testing and Commissioning Caverns D - Fresh Water Service Reservoir No.2 (CH645) Caverns D - Construction of Permanent Shotcrete Lining (Top Heading) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench)	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Tue 15/11/26 48 days Tue 15/12/26 90 days Fri 27/11/26 60 days Fri 19/2/27 0 days Mon 19/4/27 6 days Tue 20/4/27 90 days Tue 20/4/27 90 days Tue 20/4/27 386.4 days Tue 31/3/26 0 days Sat 16/5/26 12 days Tue 31/3/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27 Mon 19/4/27 Sun 18/7/27 Sun 18/7/27 Sat 16/5/26 Fri 17/4/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days -43 days -97 days -97 days -97 days -97 days -48 days -48 days -48 days -48 days -48 days		
SW-C2-1130 SW-C4-1000 SW-C4-1010 SW-C4-1011 SW-C4-1020 SW-C4-1030 SW-C4-1040 SW-C4-1040 SW-C4-1050 SW-C4-1050 SW-C4-1070 SW-C4-1100 SW-C4-1100 SW-C4-1110 SW-C4-1120 SW-C4-1120 SW-C4-1130 SW-C4-1130 SW-C5-1010 SW-C5-1011 SW-C5-1020	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1 Caverns C - Energization of FWSR1 Caverns C - Festing and Commissioning Caverns D - Fresh Water Service Reservoir No.2 (CH645) Caverns D - Construction of Permanent Shotcrete Lining (Top Heading) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench)	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Thu 15/11/26 48 days Tue 15/12/26 90 days Fri 27/11/26 60 days Fri 19/2/27 0 days Mon 19/4/27 0 days Mon 19/4/27 90 days Tue 20/4/27 90 days Tue 20/4/27 386.4 days Tue 31/3/26 0 days Sat 16/5/26 12 days Sat 16/5/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27 Mon 26/4/27 Sun 18/7/27 Sun 18/7/27 Sat 16/5/26 Fri 17/4/26 Mon 1/6/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days -43 days -43 days -97 days -97 days -97 days -97 days -48 days		• 16/5
38 SW-C4-1000 39 SW-C4-1011 41 SW-C4-1020 42 SW-C4-1040 43 SW-C4-1040 44 SW-C4-1050 45 SW-C4-1080 47 SW-C4-1080 48 SW-C4-1100 50 SW-C4-1110 51 SW-C4-1120 52 SW-C4-1125 53 SW-C4-1130 54 SW-C5-1010	Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1 Caverns C - Energization of FWSR1 Caverns C - Festing and Commissioning Caverns D - Fresh Water Service Reservoir No.2 (CH645) Caverns D - Construction of Permanent Shotcrete Lining (Top Heading) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench)	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Tue 15/12/26 90 days Fri 27/11/26 60 days Fri 19/2/27 0 days Fri 27/11/26 60 days Tue 20/4/27 90 days Tue 20/4/27 90 days Tue 20/4/27 386.4 days Tue 31/3/26 0 days Sat 16/5/26 12 days Tue 31/3/26 12 days Sat 16/5/26 16 days Mon 1/6/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27 Mon 26/4/27 Sun 18/7/27 Sat 16/5/26 Fri 17/4/26 Mon 1/6/26 Sat 20/6/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days -43 days -97 days -97 days -97 days -97 days -48 days		→ 16/5
36 SW-C2-1130 37 38 SW-C4-1000 39 SW-C4-1010 30 SW-C4-1011 31 SW-C4-1020 31 SW-C4-1040 31 SW-C4-1060 31 SW-C4-1060 31 SW-C4-1060 31 SW-C4-1080 31 SW-C4-1080 31 SW-C4-1090 31 SW-C4-1110 32 SW-C4-1110 33 SW-C4-1120 34 SW-C4-1120 35 SW-C4-1120 36 SW-C5-1010 36 SW-C5-1010 37 SW-C5-1010 38 SW-C5-1020 39 SW-C5-1030	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1 Caverns C - Energization of FWSR1 Caverns C - Testing and Commissioning Caverns D - Fresh Water Service Reservoir No.2 (CH645) Caverns D - Construction of Permanent Shotcrete Lining (Top Heading) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns D - Waterproofing system and protection layer to Wall and Slab	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Tue 15/12/26 90 days Fri 27/11/26 60 days Fri 19/2/27 0 days Fri 27/11/26 60 days Tue 20/4/27 90 days Tue 20/4/27 90 days Tue 20/4/27 386.4 days Tue 31/3/26 0 days Sat 16/5/26 12 days Tue 31/3/26 12 days Sat 16/5/26 16 days Mon 1/6/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27 Mon 26/4/27 Sun 18/7/27 Sat 16/5/26 Fri 17/4/26 Mon 1/6/26 Sat 20/6/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days -43 days -97 days -97 days -97 days -97 days -48 days	Duration-only Start-only	→ 16/5
6 SW-C2-1130 7 8 SW-C4-1000 9 SW-C4-1010 1 SW-C4-1020 2 SW-C4-1030 3 SW-C4-1040 4 SW-C4-1050 6 SW-C4-1050 7 SW-C4-1080 8 SW-C4-1090 9 SW-C4-1100 0 SW-C4-1110 1 SW-C4-1120 2 SW-C4-1125 3 SW-C4-1130 4 SW-C5-1010 7 SW-C5-1011 8 SW-C5-1020	Caverns B - Testing and Commissioning Caverns C - Fresh Water Service Reservoir No.1 (CH620.61) Caverns C - Completion of Tunnel Works Caverns C - Construction of Permanent Shotcrete Lining (Top Heading) Caverns C - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns C - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns C - Waterproofing system and protection layer to Wall and Slab Caverns C - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR=15d/bay, 3workfronts) Caverns C - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 workfront) Caverns C - Construction of wall, beam & slab up to 91.35mPD for water Caverns C - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area Caverns C - Construction of remaining works incl. staircase, partition wal and other civil works for E&M plant Caverns C - FS, BS, E&M works and ABWF Caverns C - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR1 Caverns C - Energization of FWSR1 Caverns C - Testing and Commissioning Caverns D - Fresh Water Service Reservoir No.2 (CH645) Caverns D - Construction of Permanent Shotcrete Lining (Top Heading) Caverns D - Construction of Permanent Shotcrete Lining (Bottom Bench) Caverns D - Construction of Cavern Lining (Total: 5m long, PR=12m/9d + 2wk for erection) Caverns D - Waterproofing system and protection layer to Wall and Slab	0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0% 0	387.4 days Mon 30/3/26 0 days Fri 15/5/26 12 days Mon 30/3/26 12 days Fri 15/5/26 16 days Sat 30/5/26 50 days Thu 18/6/26 60 days Mon 13/7/26 24 days Mon 21/9/26 48 days Sun 20/9/26 24 days Thu 22/10/26 48 days Tue 15/11/26 48 days Fri 27/11/26 60 days Fri 27/11/26 60 days Fri 19/2/27 0 days Mon 19/4/27 6 days Tue 20/4/27 90 days Tue 20/4/27 90 days Tue 31/3/26 0 days Sat 16/5/26 12 days Tue 31/3/26 12 days Sat 16/5/26 16 days Mon 1/6/26 50 days Sat 20/6/26	Sun 18/7/27 Sun 18/7/27 Fri 15/5/26 Thu 16/4/26 Sat 30/5/26 Thu 18/6/26 Fri 7/8/26 Sat 19/9/26 Wed 21/10/26 Fri 6/11/26 Sat 14/11/27 Sun 31/1/27 Wed 24/2/27 Mon 19/4/27 Mon 26/4/27 Sun 18/7/27 Sat 16/5/26 Fri 17/4/26 Mon 1/6/26 Sat 20/6/26 Sun 9/8/26	-34.8 days -27.8 days -34.8 days -34.8 days -34.8 days -41.8 days -34.8 days -34.8 days -34.8 days -34.8 days -43 days -43 days -43 days -97 days -97 days -97 days -97 days -48 days	Duration-only Manual Summary Rollup Start-only Finish-only	• 16/5

Activity ID	Task Name		Duration	Start	Finish	Total Slack	2023	2024	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 3 Qtr 3 Qtr 4 Qtr 3 <th< th=""></th<>
760 SW-C5-1040	Caverns D - Construction of Slab 1.6m thk for water tank area (Total:	Complete 0%		Tue 28/7/26	Wed 7/10/26	-49.2 days	Qtr 4 Qtr 1 Qtr 2	Qtr 3 Qtr 4 Qtr 1	Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4 Qtr 1 Qtr 2 Qtr 3
761 SW-C5-1060	1961m3, 12bays (11x9), PR= 15d/bay, 3workfronts) Caverns D - Construction of Slab 1.0m thk for pump/plant room area	0%	36 days	Wed 7/10/26	Thu 19/11/26	-49.2 days			
762 SW-C5-1050	(Total:986m3, 9bays (11x9), PR=12d/bay, 3 workfront) Caverns D - Construction of wall, beam & slab up to 91.35mPD for water	0%	48 days	Wed 7/10/26	Tue 24/11/26	-30.2 days			
	tank area		·						
763 SW-C5-1070	Caverns D - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area		·		Sun 13/12/26	-61.2 days			
764 SW-C5-1080	Caverns D - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	0%	48 days	Sun 13/12/26	Sat 30/1/27	-61.2 days			
765 SW-C5-1090	Caverns D - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	0%	48 days	Tue 12/1/27	Mon 1/3/27	-61.2 days			
766 SW-C5-1100	Caverns D - FS, BS, E&M works and ABWF	0%	90 days	Fri 25/12/26	Thu 25/3/27	-61.2 days			
767 SW-C5-1110	Caverns D - Connect power cable from SWSR1 Transformer Room & Switcboard Room to FWSR2	0%	60 days	Fri 19/2/27	Mon 19/4/27	-97 days			
768 SW-C5-1120	Caverns D - Energization of FWSR2	0%	0 days	Mon 19/4/27	Mon 19/4/27	-97 days			♦ 19/4
769 SW-C5-1125 770 SW-C5-1130	Caverns D - FS Inspection Caverns D - Testing and Commissioning	0% 0%		Tue 20/4/27 Tue 20/4/27	Mon 26/4/27 Sun 18/7/27	355.8 days -97 days			<u> </u>
770 SW-C5-1130 771	Revised Watermain Works @ Portion 5		•	Wed 28/12/22		0 days			
772 A1070	XP Application			Wed 28/12/22	1 1	0 days			
773 774	Alignment A Alignment A - Chuk Yuen Road			Tue 13/6/23 Tue 13/6/23	Fri 25/6/27 Fri 25/6/27	-61.6 days	_		
775	Alignment A - Chuk Yuen Road - Trenchless		-	Mon 3/7/23	Mon 12/4/27	0.4 days	•	-	1
776	Alignment A - Chuk Yuen Road - Trenchless A1 (CHA70 Pit 2 to	0%	201 days	Thu 8/1/26	Wed 9/9/26	0 days			
777 SW-JPA-1080	CHA0) - 7th Drive Plant mobilization and set-up at Launching pit 2 (CHA70)	0%	12 days	Thu 21/5/26	Fri 5/6/26	36 days			■ TBM 1
778 SW-JPA-1085	Construction of Receiving Pit 0 at PAB			Thu 8/1/26	Sat 15/8/26	0 days			TDM 4
779 SW-JPA-1090 780 SW-JPA-1110	Excavation (70m) by Pipe Jacking method, PR=3m/d (7th drive Plant demobilisation	9) 0%		Fri 5/6/26 Sun 16/8/26	Sat 4/7/26 Fri 21/8/26	36 days 0.4 days			TBM 1
781 SW-JPA-1120	Pipe Installation (70m x 3nos.) (12m/d for pipe)	0%		Sat 22/8/26	Fri 28/8/26	48.4 days			
782 SW-JPA-5200	Pressure Test (70m x 3nos.) Trenchless A1			Sat 29/8/26	Wed 9/9/26	48.4 days			
783	Alignment A - Chuk Yuen Road - Trenchless A2 (CHA70 Pit 2 to CHA190 Pit 3) - 5th Drive		days	Tue 22/8/23	Mon 12/4/27	0.4 days			
784 SW-JPA-2000	TTA implementation at CHA190, site clearance, road modification and site setup	100%	1 day	Tue 22/8/23	Tue 22/8/23	0 days		I	
785 SW-JPA-5290	UU Detection, Trial Pit at CHA190			Wed 23/8/23	Mon 6/11/23	0 days			
786 SW-JPA-2040	Installation of instrumentation and monitoring device and condition survey	100%	7 days	Wed 23/8/23	Wed 30/8/23	0 days		•	
787 SW-JPA-2045	TTA implementation at CH70, site clearance, road modification	n 100%	25 days	Wed 22/11/23	Thu 21/12/23	0 days		_	
788 SW-JPA-2046	and site setup and UU Detection Trial sheet piling work to verify the obstruction by boulders at	F 100%	1 day	Thu 21/12/23	Fri 22/12/23	0 days		1	
789 SW-JPA-2050	Construction of launching pit 2 (CHA70) (Common pit with B2)	·		Sat 8/2/25	Mon 15/9/25	18.4 days			
790 SW-JPA-2051 791 SW-JPA-2060	Trial sheet piling work to verify the obstruction by boulders at Construction of receiving pit 3 (CHA190) (Common pit with B2			Tue 7/11/23 Mon 25/11/24	Tue 7/11/23 Mon 7/7/25	0 days 18.4 days		I	
792 SW-JPA-2080	Plant mobilization and set-up at Launching pit 2 (CHA70)	0%		Tue 30/12/25	Tue 13/1/26	-68.6 days			■ TBM 1
793 SW-JPA-2090	Excavation (120m) by Pipe Jacking method, PR=3m/d (5th driv			Tue 13/1/26	Wed 4/3/26	-68.6 days			TBM 1
794 SW-JPA-2110 795 SW-JPA-2120	Plant demobilization Pipe Installation (120m x 3nos.; 12m/d for pipe)	0%		Wed 4/3/26 Thu 21/5/26	Wed 11/3/26 Wed 3/6/26	-68.6 days			
796 SW-JPA-5240	Pressure Test (120m) Trenchless A2	0%	10 days	Wed 3/6/26	Mon 15/6/26	-59.6 days			•
797 SW-JPA-5210 798 SW-JPA-2130	Construction of Valve Chamber 2 (CHA70) - Alignment A Reinstatement of Jacking Pit (CHA70)	0% 0%		Thu 10/9/26 Thu 25/2/27	Thu 24/12/26 Mon 12/4/27	48.4 days 0.4 days			
798 SW-JPA-2130 799 SW-JPA-5230	Construction of Valve Chamber 3 (CHA190) after Trenchless B.			Fri 26/6/26	Sat 10/10/26	-68.6 days			
800 SW-JPA-1130	Reinstatement of Receiving Pit (CHA190) after Trenchless B2	0%	-	Sat 10/10/26	1 1	112.4 days			_
801	Alignment A - Chuk Yuen Road - Trenchless A3 (CHA610 Pit 6 to CHA780 Pit 8) - 1st Drive	33%	777 days	Thu 3/8/23	Fri 6/3/26	328.2 days			
802 SW-JPB-4000	TTA implementation at CHA610, site clearance, road modification and site setup	100%	23 days	Thu 3/8/23	Tue 29/8/23	0 days		-	
803 SW-CCEN-20€	Delay due to KMB Company's requirement on bus shelter	100%	38 days	Tue 8/8/23	Wed 20/9/23	0 days			
804 SW-JPA-5330	removal (EWN-0010) UU Detection, Trial Pit	100%	30 days	Tue 15/8/23	Mon 18/9/23	0 days		_	
805 SW-JPB-4040	Installation of instrumentation and monitoring device and	100%	14 days	Wed 30/8/23	Thu 14/9/23	0 days			
806 SW-JPB-4041	condition survey Trial sheet piling work to verify the obstruction by boulders at	F 100%	1 day	Wed 11/10/23	Wed 11/10/23	0 days		1	
807 SW-CCEN-207	Delay due to encountering boulder (unable to drive sheetpile, design amendment to suit)	100%	85 days	Fri 15/9/23	Thu 28/12/23	0 days			
808 SW-JPB-4060	construction of launching pit 6 (CHA610)	40%	248 days	Fri 29/12/23	Sat 26/10/24	-60.8 days			
809 SW-JPA-3040	TTA implementation at CHA780 (Pit 8), site clearance, road modification and site setup	100%	6 days	Tue 9/4/24	Mon 15/4/24	0 days			
810 SW-JPA-3050	Construction of receiving pit 8 (CHA780)	0%	180 days	Thu 6/6/24	Thu 9/1/25	-19.5 days			
811 SW-JPA-3080	Plant mobilization and set-up at Launching pit 6 (CHA610)	0%		Sat 26/10/24	Fri 15/11/24	-60.8 days			TBM 1
812 SW-JPA-3090 813 SW-JPA-3110	Excavation (170m) by Pipe Jacking method, PR=2m/d (1st driv Plant demobilization		12 days	Fri 15/11/24 Sat 1/3/25	Fri 28/2/25 Fri 14/3/25	-60.8 days			TBM 1
814 SW-JPA-3120	Pipe Installation (170m x 3nos.) (12m/d for pipe)			Sat 15/3/25	Tue 1/4/25	135.2 days			_
815 SW-JPA-5220	Pressure Test (170m x 3nos.) Trenchless A3	0%	10 days	Wed 2/4/25	Mon 14/4/25	135.2 days			
	Task Sum	mary			Inactive Milestone	\langle	Duration-only	Start-only	E External Milestone ♦ Critical Split
roject: 21/M/SD/21									
roject: 21/WSD/21 evised Programme (Ap ate: 1 May 2024		ect Summary tive Task	,	1	Inactive Summary Manual Task		Manual Summary Rollu	Finish-only External Tasks	☐ Deadline



D Activity ID T	ask Name	%	Duration Start	Finish	Total Slack	2023 2024 2025 2026 2027
,		Complete				2023 2024 2025 2026 2027
865 SW-JPA-5040	Installation of instrumentation and monitoring device and condition survey	100%	14 days Sat 16/9/23	Wed 4/10/23	0 days	
866 SW-JPA-5050	Construction of launching pit (CHB1210)	0%	150 days Mon 28/7/25	Fri 23/1/26	10.4 days	
867 SW-JPA-5055	TTA implementation at CH1390, site clearance, road	0%	6 days Thu 3/7/25	Wed 9/7/25	95.4 days	
868 SW-JPA-5060	modification and site setup Construction of intermediate pit (CHB1390)	Ω%-	150 days Mon 28/7/25	Fri 23/1/26	79.4 days	
869 SW-JPA-5065	TTA implementation at CH1600, site clearance, road	0%	6 days Thu 3/7/25	Wed 9/7/25	180.4 days	
	modification and site setup					· ·
870 SW-JPA-5070	Construction of receiving pit (CHB1600)		150 days Mon 28/7/25	Fri 23/1/26	164.4 days	
871 SW-JPA-5080	Plant mobilization and set-up at Launching pit (CH1210) (TBM		12 days Fri 23/1/26	Fri 6/2/26	10.4 days	■ TBM 2
872 SW-JPA-5090	Excavation (170m) by Pipe Jacking method 1st Section, PR=3m,		57 days Fri 6/2/26	Mon 20/4/26	10.4 days	TBM 2
873 SW-JPA-5110 874 SW-JPA-5115	Plant demobilization Plant mobilization and set-up at Intermediate pit (CH1390)	0% 0%	6 days Mon 20/4/26 12 days Mon 27/4/26	Mon 27/4/26 Tue 12/5/26	10.4 days 10.4 days	TBM 2
875 SW-JPA-5135	Excavation (200m) by Pipe Jacking method 2nd Section, PR=3m		67 days Tue 12/5/26	Fri 31/7/26	10.4 days	TBM 2
876 SW-JPA-5110	Plant demobilization	0%	6 days Sat 1/8/26	Fri 7/8/26	10.4 days	TBM 2
877 SW-JPA-5120	Pipe Installation (380m x 2nos.; 12m/d for pipe)		32 days Sat 8/8/26	Mon 14/9/26	10.4 days	
878 SW-JPA-5250	Pressure Test (380m) Trenchless C1	0%	10 days Mon 14/9/26	Fri 25/9/26	10.4 days	
879 SW-JPA-5280	Construction of Valve Chamber (CH1210)	0%	89 days Fri 25/9/26	Wed 13/1/27	10.4 days	
880 SW-JPA-5285	Construction of Valve Chamber (CH1600)	0%	89 days Fri 25/9/26	Wed 13/1/27	10.4 days	
881 SW-JPA-5360	Connection Works	0%	24 days Wed 13/1/27	Sat 13/2/27	10.4 days	
882 SW-JPA-5190	Reinstatement of Launching Pit (CH1210), intermediate pit (CH1390) and receiving pit (CH1600)	0%	36 days Sat 13/2/27	Tue 30/3/27	10.4 days	
883	Alignment A - Shatin Pass Road - Open Trench	0%	93 days Mon 2/2/26	Fri 29/5/26	261 days	
884	Alignment A - Shatin Pass Road - Open Trench A4 to C1	0%	93 days Mon 2/2/26	Fri 29/5/26	261 days	
885 21.PRW.PO5.	(CH1190 to CH1210) to CP Implementation of TTA	0%	1 day Mon 2/2/26	Mon 2/2/26	261 days	
886 SW-OTA-1000	Trial Pit works at CH1190 and CH1210		1 day Mon 2/2/26 12 days Tue 3/2/26	Mon 2/2/26 Mon 16/2/26	261 days	
887 SW-OTA-5000	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road		60 days Fri 20/2/26	Tue 5/5/26	261 days	
	reinstatement, (20m long)~CH1190 to CH1210					
888 SW-OTA-6170	Pressure Test (20m) Open Trench A4 to C1		10 days Tue 5/5/26	Sat 16/5/26	261 days	
889 SW-OTA-6180	Backfilling & Road Reinstatement A4 to C1		10 days Sat 16/5/26	Fri 29/5/26	261 days	
890 891	Alignment A - Tsz Wan Shan Road Alignment A - Tsz Wan Shan Road - Open Trench		106.4 day: Thu 3/8/23 106.4 day: Thu 3/8/23	Wed 14/4/27 Wed 14/4/27	-1.2 days	
892	Alignment A - Tsz Wan Shan Road - Open Trench C1 to CP	29%	1106.4 Thu 3/8/23	Wed 14/4/27	-1.2 days	
	(CH1610 to CH1800)		days			
893 21.PRW.PO5.	Coordinate with SLG, ULG, Stakeholders and Obtain Approval		4 days Thu 3/8/23	Mon 7/8/23	0 days	
894 SW-OTA-6080	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (40m long)~CH1610 to CH1650	0%	120 days Thu 27/2/25	Thu 24/7/25	434.2 days	Open Trench Gang 4
895 SW-OTA-6070	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	120 days Thu 3/10/24	Wed 26/2/25	434.2 days	Open Trench Gang 4
006 514 574 555	reinstatement, (40m long)~CH1650 to CH1690	240/	107 days Tr. 20/2/25	Th:: 2/42/2:	424.2 -	Open Trench Gare 4
896 SW-OTA-6060	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatement, (68m long)~CH1690 to CH1758	31%	16/ days Tue 20/2/24	Thu 3/10/24	434.2 days	
897 SW-OTA-6050	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	100%	120 days Fri 15/9/23	Fri 9/2/24	0 days	Open Trench Gang 4
898 SW-OTA-6090	reinstatement, (24m long)~CH1758 to CH1782 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road	0%	60 days Mon 4/1/27	Wed 17/3/27	-1.2 days	
344-01A-009(reinstatement, (18m long)~CH1782 to CH1800 & CP	U/0	55 days Willi 4/1/2/	vvcu 1//3/2/	1.2 uays	
899 SW-OTA-6170	Pressure Test (190m) Open Trench C1 to CP		10 days Wed 17/3/27	Thu 1/4/27	-1.2 days	
900 SW-OTA-6180	Backfilling & Road Reinstatement C1 to CP		10 days Thu 1/4/27	Wed 14/4/27	-1.2 days	
901	Alignment B. Chuk Yuan Bood		183.8 day: Mon 3/7/23	Mon 14/6/27	-51.6 days	
902	Alignment B - Chuk Yuen Road Alignment B - Chuk Yuen Road - Trenchless		106.8 day: Sun 1/10/23 828.2 days Mon 8/7/24	Mon 14/6/27 Mon 12/4/27	-51.6 days	
904	Alignment B - Chuk Yuen Road - Trenchless B1 (CHB70 Pit 2 to	_	64 days Sat 22/8/26	Sat 7/11/26	0.4 days	
	CHBO) - 8th Drive	0,0	July 301 22/0/20	Jul 7, 11, 20	J. F. Guy 3	
905 SW-JPB-1080	Plant mobilization and set-up at Launching pit 2 (CHB70)		12 days Sat 22/8/26	Fri 4/9/26	0.4 days	■ TBM 1
906 SW-JPB-1090	Excavation (70m) by Pipe Jacking method, PR=3m/d (8th drive		24 days Sat 5/9/26	Mon 5/10/26	0.4 days	TBM 1
907 SW-JPB-1110	Plant demobilization	0%	6 days Mon 5/10/26		0.4 days	■ TBM 1
908 SW-JPB-1120 909 SW-JPB-6160	Pipe Installation (70m) (6m/d for pipe) Pressure Test (80m) Trenchless B1	0%	12 days Mon 12/10/26 10 days Tue 27/10/26		0.4 days	
910 SW-JPB-6160	Alignment B - Chuk Yuen Road - Trenchless B2 (CHB70 Pit 2 to		324 days Wed 11/3/26		-68.6 days	
	CHB190 Pit 3) - 6th Drive					
911 SW-JPB-2080	Plant mobilization and set-up at Launching pit 2 (CHB70)		12 days Wed 11/3/26		-68.6 days	
912 SW-JPB-2090	Excavation (120m) by Pipe Jacking method, PR=3m/d (6th driv		40 days Wed 25/3/26	Thu 14/5/26	-68.6 days	
913 SW-JPB-2110	Plant demobilization	0%	6 days Thu 14/5/26	Thu 21/5/26	-68.6 days	
914 SW-JPB-2120 915 SW-JPB-2130	Pipe Installation (110m; 6m/d for pipe) Pressure Test (110m) Trenchless B2	0% 0%	19 days Thu 21/5/26 10 days Sat 13/6/26	Sat 13/6/26 Thu 25/6/26	-68.6 days	
916 SW-JPB-6170	Construction of Valve Chamber 2A (CH70) Alignment B		89 days Sat 7/11/26	Thu 25/2/27	0.4 days	
917 SW-JPB-1130	Reinstatement of Receiving Pit (CH190)		36 days Thu 25/2/27	Mon 12/4/27	0.4 days	
918	Alignment B - Chuk Yuen Road - Trenchless B3 (CHB190 Pit 3 to		-	Tue 5/5/26	50.6 days	
	CHB420 Pit 5) - 3rd Drive					
040	TTA implementation at CH190, site clearance, road	0%	6 days Mon 8/7/24	Sat 13/7/24	92.2 days	
919 SW-JPB-3000	modification and site setup			Mon 25/11/24	0 days	
919 SW-JPB-3000 920 SW-JPA-5320	modification and site setup UU Detection, Trial Pit	0%	14 days Sat 9/11/24			
	UU Detection, Trial Pit Installation of instrumentation and monitoring device and		14 days Sat 9/11/24 14 days Sat 9/11/24	Mon 25/11/24	0 days	
920 SW-JPA-5320	UU Detection, Trial Pit				0 days	
920 SW-JPA-5320 921 SW-JPB-3040 Project: 21/WSD/21	UU Detection, Trial Pit Installation of instrumentation and monitoring device and condition survey Task Summ	0% mary		Mon 25/11/24 Inactive Milestone	0 days	Duration-only
920 SW-JPA-5320 921 SW-JPB-3040	UU Detection, Trial Pit Installation of instrumentation and monitoring device and condition survey Task Summ Summ Summ	0%		Mon 25/11/24	0 days	

D Activity ID T	Task Name	%	Duration	Start	Finish	Total Slack	2022
,		Complet	te				2023 2024 2025 2026 2027 2027 2024 Qtr 4 Qtr 1 Qtr 2 Qtr 3 Qtr 4
922 SW-JPB-3060	Construction of launching pit 3 (CH190)					-68.6 days	
923 SW-JPB-3055	TTA implementation at CH420, site clearance, road modification and site setup	0%	6 days	Sat 5/10/24	Sat 12/10/24	42.8 days	
924 SW-JPB-3050	Construction of receiving pit 5 (CH410)	0%	180 days	Thu 2/1/25	Mon 11/8/25	-24.6 days	
925 SW-JPB-3080	Plant mobilization and set-up at Launching pit 3	0%		Tue 8/7/25	Mon 21/7/25	-68.6 days	TBM 1
926 SW-JPB-3090	Excavation (220m) by Pipe Jacking method, PR=3m/d (3rd			Mon 21/7/25	Thu 16/10/25	-68.6 days	TBM 1
927 SW-JPB-3110	Plant demobilization	0%	6 days	Thu 16/10/25	Thu 23/10/25	-68.6 days	■ TBM 1
928 SW-JPB-3120	Pipe Installation (130m) (6m/d for pipe)	0%	22 days	Thu 23/10/25	Wed 19/11/25	-60.6 days	
929 SW-JPB-6180	Pressure Test (130m)	0%	10 days	Wed 19/11/25	Mon 1/12/25	-60.6 days	
930 SW-JPB-6240	Construction of Valve Chamber 5 (CH410)	0%	89 days	Mon 1/12/25	Fri 20/3/26	-60.6 days	
931 SW-JPB-3130	Reinstatement of Receiving Pit & Launching Pit	0%	36 days	Fri 20/3/26	Tue 5/5/26	273.4 days	
932	Alignment B - Chuk Yuen Road - Trenchless B4 (CHB610 Pit 6	5 to 0%	442 days	Fri 2/8/24	Tue 20/1/26	0 days	1
933 SW-JPB-4040	CHB740 Pit 7) - 2nd Drive TTA implementation at CH760, site clearance, road	0%	6 days	Fri 2/8/24	Fri 9/8/24	0 days	
333 317 317 10 10	modification and site setup	0,0	o days	2, 3, 2 :	3/ 3/ 2 :	0 00,5	
934 SW-JPB-4050	Construction of receiving pit 7 (CHB760)	0%	180 days	Fri 9/8/24	Fri 14/3/25	0 days	
935 SW-JPB-4070	Plant mobilization and set-up at Launching pit 6 (CHB610)	0%		Sat 15/3/25	Fri 28/3/25	-60.8 days	■ TBM 1
936 SW-JPB-4080	Excavation (130m) by Pipe Jacking method, PR=3m/d (2nd			Sat 29/3/25	Fri 20/6/25	-60.8 days	TBM 1
937 SW-JPB-4100		0%		Fri 20/6/25	Fri 27/6/25	-60.8 days	■ TBM 1
938 SW-JPB-4110	Pipe Installation (130m x 2nos.) (6m/d for pipe)			Fri 27/6/25	Wed 23/7/25	328.2 days	
939 SW-JPB-6190	Pressure Test (130m)	0%		Wed 23/7/25	Mon 4/8/25	328.2 days	
940 SW-JPB-6195	Construction of Air Valve Chamber 7 (CHB760)	0%		Mon 4/8/25	Tue 18/11/25	380.2 days	
941 SW-JPB-4120	Reinstatement of Receiving Pit (CHB760)	0%		Tue 18/11/25	Fri 2/1/26	380.2 days	
942 SW-JPB-6200	Construction of Valve Chamber 6 (CHB610) Reinstatement of Launching Pit (CH610) after Pipe Installat	0% ion 0%		Mon 4/8/25	Sat 6/12/25	328.2 days	
943 SW-JPB-6140	Reinstatement of Launching Pit (CH610) after Pipe Installat at Alignment A Trenchless A3	ion 0%	so days	Sat 6/12/25	Tue 20/1/26	328.2 days	
944	Alignment B - Chuk Yuen Road - Trenchless B5 (CHB990 Pit S) to 0%	466.6 days	Tue 24/12/24	Sat 18/7/26	-27 days	
0.45	CHB1100 Pit 11) - 4th Drive			T 21/15/5	T 01/15/5	2= :	
945 SW-JPB-5000	TTA implementation at CHB990, site clearance, road modification and site setup	0%	1 day	Tue 24/12/24	Tue 24/12/24	-27 days	
946 SW-JPA-5340	UU Detection, Trial Pit	0%	14 days	Fri 27/12/24	Mon 13/1/25	-27 days	
947 SW-JPB-5040	Installation of instrumentation and monitoring device and	0%	14 days	Fri 27/12/24	Mon 13/1/25	-27 days	
	condition survey						
948 SW-JPB-5060	Construction of launching pit 9 (CHB990)			Tue 14/1/25	Thu 21/8/25	-27 days	
949 SW-JPB-5045	TTA implementation at CH1180, site clearance, road modification and site setup	0%	6 days	Thu 20/3/25	Wed 26/3/25	-26.8 days	
950 SW-JPB-5050	Construction of receiving pit 11 (CHB1180)	0%	180 days	Thu 27/3/25	Sat 1/11/25	-27 days	
951 SW-JPB-5080	Plant mobilization and set-up at Launching pit 9	0%		Thu 23/10/25	Fri 7/11/25	-68.6 days	■ TBM 1
952 SW-JPB-5090	Excavation (110m) by Pipe Jacking method, PR=3m/d (4th	drive 0%		Fri 7/11/25	Sat 20/12/25	-68.6 days	TBM 1
953 SW-JPB-5110	Plant demobilization	0%	6 days	Sat 20/12/25	Tue 30/12/25	-68.6 days	■ TBM 1
954 SW-JPB-5120	Pipe Installation (110m x 2nos.; 6m/d for pipe)	0%	29 days	Tue 30/12/25	Mon 2/2/26	218.4 days	
955 SW-JPB-5130	Reinstatement of Receiving Pit (CHB1170)	0%	36 days	Fri 13/2/26	Mon 30/3/26	271.4 days	
956 SW-JPB-6150	Reinstatement of Launching Pit (CHB990)	0%	36 days	Fri 5/6/26	Sat 18/7/26	218.4 days	
957 SW-JPB-6210	Pressure Test (110m) Trenchless B5	0%	10 days	Mon 2/2/26	Fri 13/2/26	218.4 days	
958 SW-JPB-6220	Construction of Valve Chamber 9 (CHB990)	0%	89 days	Fri 13/2/26	Fri 5/6/26	218.4 days	
959	Alignment B - Chuk Yuen Road - Open Trench	12%	L106.8 day	Sun 1/10/23	Mon 14/6/27	-51.6 days	
960	Alignment B - Chuk Yuen Road - Open Trench between B3 a	nd 0%	913.2 days	Tue 28/5/24	Mon 14/6/27	-51.6 days	
961 SW-OTB-3090	B4 (CH420 to CH610) Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa	d 0%	90 days	Thu 23/10/25	Mon 9/2/26	347.4 days	Open Trench Gang 2
301 3W-O1B-309C	reinstatement, (30m long)~CHB420 to CHB450	u 0%	90 days	111u 23/10/23	101011 9/2/20	347.4 uays	Open Helich Sung 2
962 SW-OTB-3080	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa	d 0%	120 days	Tue 28/5/24	Sat 19/10/24	741.6 days	Open Trench Gang 2
062 SW OTB 2076	reinstatement, (40m long)~CHB450 to CHB490	۸ ۵۵/	1FO days	F=: 20/2/26	Th.: 17/0/26	F1 C days	Open Trench Gang 3
963 SW-OTB-3070	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa reinstatement, (50m long)~CHB490 to CHB540	d 0%	150 days	111 20/3/20	Thu 17/9/26	-51.6 days	Open Trench dang 3
964 SW-OTB-3010	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa	d 0%	60 days	Thu 17/9/26	Mon 30/11/26	-51.6 days	Open Trench Gang 2
OCE CIM OTE COS	reinstatement, (20m long)~CHB540 to CHB560	٩ ٥٠٠	150 !	Mar 20/44/2-	Th.: 2/6/2=	F1.C.1	
965 SW-OTB-3020	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa reinstatement, (50m long)~CHB560 to CHB610	d 0%	150 days	Mon 30/11/26	Thu 3/6/27	-51.6 days	Open Tren
966 SW-OTB-8110		0%	8 days	Thu 3/6/27	Mon 14/6/27	-51.6 days	
967	Alignment B - Chuk Yuen Road - Open Trench B4 to B5 (CH7	70 21%	820.8 days	Sun 1/10/23	Mon 29/6/26	227.4 days	· · · · · · · · · · · · · · · · · · ·
	to CH990)				- 110-11-1		
968 21.PRW.PO5.	TTA implementation			Sun 1/10/23	Fri 20/10/23	0 days	
969 SW-OTB-4110	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa reinstatement, (20m long)~CH770 to CH790	a 0%	60 days	Fri 6/2/26	Thu 23/4/26	227.4 days	Open Trench Gang 5
970 SW-OTB-4100		d 0%	180 days	Tue 8/7/25	Fri 6/2/26	227.4 days	Open Trench Gang 5
	reinstatement, (60m long)~CH790 to CH850						
971 SW-OTB-4090		d 0%	180 days	Mon 25/11/24	Mon 7/7/25	227.4 days	Open Trench Gang 5
972 SW-OTB-4080	reinstatement, (60m long)~CH850 to CH910 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa	d 6%	186 days	Wed 17/4/24	Mon 25/11/24	227.4 days	Open Trench Gang 5
3.1 3.15 4000	reinstatement, (48m long)~CH910 to CH958	. 0/0	_55 days			aays	
973 SW-OTB-4070		d 100%	143.8 days	Sat 21/10/23	Tue 16/4/24	0 days	Open Trench Gang 5[101%]
974 SW-OTB-4060	reinstatement, (15m long)~CH958 to CH973 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Roa	d 00/	45 days	Thu 23/4/26	Wed 17/6/26	227.4 days	
3VV-U1B-4U0L	reinstatement, (15m long)~CH973 to CH990	u 0%	45 udys	111u 23/4/20	weu 1//0/20	227.4 UdyS	
975 SW-OTB-8130		0%	10 days	Wed 17/6/26	Mon 29/6/26	227.4 days	
							The state of the s
Project: 21/WSD/21	Task	ummary	г		Inactive Milestone		Duration-only Start-only External Milestone 🔷 Critical Split
Revised Programme (Apr		ummary roject Summa	ry F	i	Inactive Milestone Inactive Summary	•	Duration-only Start-only L External Milestone Critical Split Manual Summary Rollup Finish-only J Deadline Progress
	or 2024) Split	•	ry 🗀	1		·	







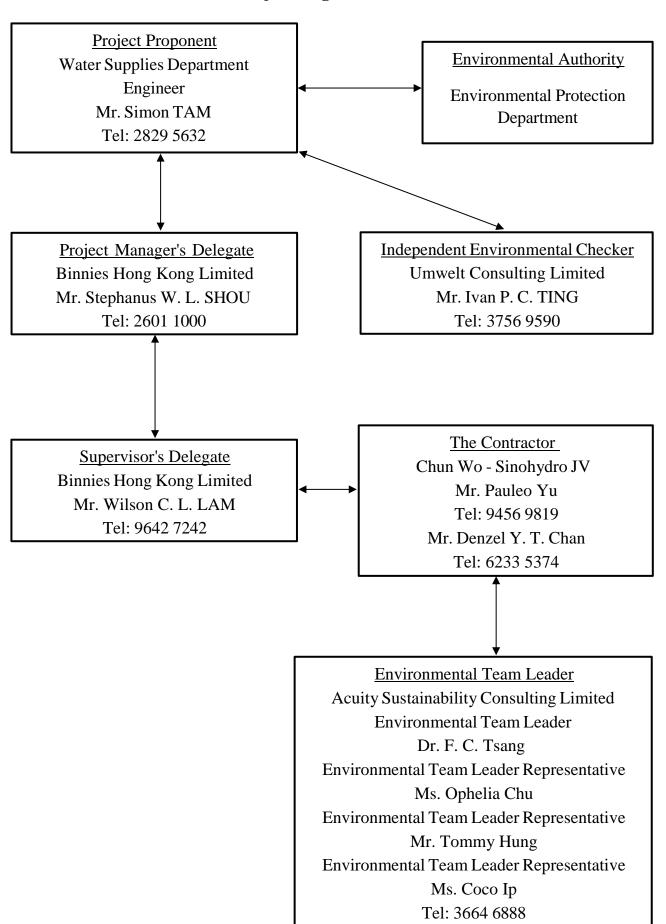
Appendix B

Project Organization Chart and Key Personnel Contact





Project Organization Chart







Appendix C Event and Action Plans





Table C1 Event and Action Plan for Air Quality (Dust)

_		Ac	ction	
Event	ET Leader	IEC	ER	Contractor
Action Level exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check contractor's working method. 	Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Action level exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for one sample	• Identify source, investigate the causes of exceedance and propose remedial measures;	• Check monitoring data submitted by ET;	Confirm receipt of notification of failure in writing;	Take immediate action to avoid further exceedance;





Emm		Ad	ction	
Event	ET Leader	IEC	ER	Contractor
	 Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	 Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.





Table C2 Event/Action Plan for Construction Noise

Table C2	Event/Action Plan for Construction	II INUISC		
Event		A	ction	
Event	ET	IEC	ER	Contractor
Action Level Exceedance	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals.
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to the IEC within three working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.



Table C3 Event/Action Plan for Landscape and Visual

Front	Action							
Event	ET	IEC	ER	Contractor				
Action Level Exceedance	 Inform the IEC, ER and the Contractor; Discuss remedial actions with IEC, ER and Contractor; and Monitor remedial actions until rectification has been completed. 	 Check inspection report; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise ER on effective of proposed remedial measures; and Check implementation of remedial measures. 	 Confirm receipt of notification of non-conformity in writing; Review and agree on the remedial measures proposed by the Contractor; and Ensure remedial measures are properly implemented. 	 Identify source and investigate the non-conformity; Amend working methods agreed with ER as appropriate; and Rectify damage and undertake any necessary replacement. 				
Limit Level Exceedance	 Identify sources; Inform the Contractor, IEC and ER; Discuss inspection frequency; Discuss remedial actions with IEC, ER and Contractor; Monitor remedial actions until rectification has been completed; and If non-conformity stops, cease additional monitoring. 	 Check inspection report; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; and Advise ER on effectiveness of proposed remedial measures. 	Notify the Contractor; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; and Supervise implementation of remedial measures.	 Identify source and investigate the non-conformity; Implement remedial measures; Amend working methods agreed with ER as appropriate; Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated. 				

Notes:

ET – Environmental Team; IEC – Independent Environmental Checker; ER – Engineer's Representative





Appendix D Project Implementation Schedule





Environmental Mitigation Implementation Schedule (EMIS)

EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
Air Qua	lity						
D1	Dust suppression measures, including watering once per hour, will be incorporated in accordance with the requirements of the Air Pollution Control (Construction Dust) Regulation. Dust filter shall be installed at the ventilation system of the emission source at the tunnel portal chimney. The proposed dust control measures presented in Table 3.11 of the EIA report shall be followed.	Minimize dust impact at the nearby sensitive receivers	Contractor	Tunnel Portal	Construction Phase	Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria	Implemented
D2	 The following dust suppression measures should be incorporated into contract document. The standard dust suppression measures as stipulated in the Air Pollution Control (Construction Dust) Regulation to control the dust nuisance shall be implemented throughout the construction phase: The contractor shall observe and comply with Air Pollution Control (Construction Dust) Regulation and implement all the required mitigation measures. The contractor shall undertake precautions at all times to prevent dust nuisance and smoke as a result of his activities. The contractor shall ensure a highly efficient dust filter (at least 80% efficiency) to be installed at the ventilation exhaust to treat the exhausting air from cavern. The contractor shall frequently clean and water the site to minimize fugitive dust emissions. The contractor shall ensure that there will be adequate water supply/storage for dust suppression. 	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 The working area of any pavement breaking, excavation or earth moving operation should be sprayed with water immediately before, during and after the operation to avoid dust generation. Any stockpile of dusty material should be properly covered by tarpaulin or other impervious sheeting. Vehicles leaving a site loaded with dusty materials should be covered by tarpaulin or other impervious sheeting. Wheel washing facilities shall be installed and used by all vehicles leaving the site. No earth, mud, debris, dust and the like shall be deposited on public roads. Water in the wheel cleaning facility shall be changed at frequent intervals and sediments shall be removed regularly. The contractor shall submit details of proposals for the wheel cleaning facility. Such wheel washing facilities shall be usable prior to any earthworks excavating activity on the site. The Contractor shall also provide a hard-surfaced road between any washing facility and the public road. Any materials dropped on paved roads shall be cleaned up immediately to prevent dust nuisance. The contractor shall devise, arrange methods of working and carrying out the works in such a manner so as to minimize dust impacts on the surrounding environment, and shall provide experienced personnel with suitable training to ensure that these methods are implemented. 						
D3	The contractor shall also implement specific dust mitigation measures for excavation, drilling and blasting activities during the construction of tunnel portal. These include the use of blast nets / canvas covers and ensure portal door is properly closed.	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	Air Pollution Control Ordinance To control the dust impact to meet	To be Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
						HKAQO and EIAO- TM criteria	
D4	Before the commencement of any works, the Engineer may require the contractor to submit the methods of working, construction plant or equipment and air pollution control measures to be used on the site to be made available for inspection and approval.	Minimize dust impact at the nearby sensitive receivers	Contractor	All Construction sites	Construction Stage	Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO- TM criteria	Implemented
D5	 The following precautionary measures shall be incorporated into contract document and implemented throughout the construction. The contractor shall ensure the use of electricity power equipment is connected to the main electricity supply for better emission estimation. The contractor shall avoid the use of diesel power machines and generators as far as practicable. The contractor shall avoid the use of non-road mobile machineries which exempt by the Air Pollution Control (Non-road Mobile Machinery) (Emission) Regulation, and seek the ones with proper label issued by EPD. The contractor shall observe the requirement of DEVB TC(W) No. 13/2020, to apply a temporary electricity and water supply with a target that the necessary cables/water mains laying works could be completed before the commencement of the works contract. 	Avoid burdening the surrounding NO ₂ concentration	Contractor	All Construction sites	Construction Stage	Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO-TM criteria DEVB TC(W) No. 13/2020	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
Construc	tion Noise						
N1	The contractor should limit the pipe section to be constructed by open cut method in a length of no more than 30 m at any one time when works are in close proximity to NSRs. Each work front along the proposed watermain laying should be separated by a clearance distance of at least 60 m.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	To be implemented
N2	Use of quiet PME is considered to be a practicable means to mitigate the construction noise impact. Quiet plant is defined as a PME having actual SWL lower than the value specified in the GW-TM.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	EIAO-TM A Practical Guile for the Reduction of Noise from construction works	Implemented
N3	The use of noise barrier for certain PME could generally provide a 5 dB(A) reduction for movable PME and 10 dB(A) for stationary PME. The barrier material shall have a superficial surface density of not less than 10 kg/m² and have no opening or gaps. Sound absorbent lining inside the enclosure should be at least 25 mm thick.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	Implemented
N4	Provision of movable noise barriers of 3m or above in height and with a short-cantilevered section on the top with skid footing should be used and located within a few metres of stationary plant and mobile plant such that the line of sight to the NSR is blocked by the barriers.	Control construction noise impacts	Contractor	All construction area for watermain laying works	Construction stage	• EIAO-TM	To be implemented
N5	Noise enclosure lined with absorptive materials shall be provided at the tunnel portal to mitigate the noise from tunnel/cavern construction. The enclosure is a gap free enclosure with acoustic doors for vehicular access purpose. The acoustic doors shall remain closed throughout the construction period. The sheet material mass of the noise enclosure should be at least 10 kg/m² and sound-absorbent lining inside the enclosure should be at least 25 mm thick.	Control construction noise impacts	Contractor	Tunnel Portal	Construction stage	EIAO-TM A Practical Guile for the Reduction of Noise from construction works	To be implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
N6	Noise barrier/enclosure should be inspected and maintained regularly. The contractor should design and provide details of the temporary noise barriers and noise enclosure to the Engineer for approval.	Control construction noise impacts	Contractor	All Construction sites	Construction stage	• EIAO-TM	Implemented
N7	For NSR5, NSR14, NSR19 and NSR 22, the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works) shall be arranged and carried out during School Holidays (i.e., the section of the mainlaying alignment is 20m measured from the school site boundary).	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N8	During examination period, no mainlaying works will be carried out within 30m (for NSR 14, NSR 19 and NSR 22) or 50m (for NSR 5) from the school site boundary.	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N9	For NSR13, NSR20 and P1, the concrete lorry mixer shall be located 10 m away from the residential site boundary during the construction works of Fresh Water/Salt Water Mainlaying (Reinstatement Works).	Control construction noise impacts	Contractor	All Construction area for watermain laying works	Construction stage	• EIAO-TM	To be Implemented
N10	 Good Site Management Practices Only well-maintained plant should be operated onsite, and plant will be serviced regularly during the construction phase; Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction phase; Mobile plant, if any, should be sited away from NSRs; Machines and plant (such as trucks) that may be in intermittent use should be shut down between work periods or will be throttled down to a minimum; Plant known to emit noise strongly in one direction should be orientated so that the noise is directed away from the nearby NSRs; 	Control construction noise impacts	Contractor	All Construction sites	Construction stage	• EIAO-TM	Implemented





	•						
EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Material stockpiles and other structures should be effectively utilised in screening noise from on-site construction activities; The contractor should devise, arrange methods of working and carrying out the works in such manner as to minimise noise impacts on the surrounding environment, and should provide experience personnel with suitable training to ensure that all these measures are implemented properly; and; The contractor should minimise construction noise exposure to the school (especially during examination periods) as much as possible. The contractor should liaise with the school and Examination Authority to ascertain the exact dates and times of all examination periods during the course of the contract and to avoid noisy activities during these periods. 						
Operatio	-						
N11	 Choose quieter plant; Include noise levels specification when ordering new mechanical equipment such as pumps and ventilation systems; Locate fixed plant, louvres or openings away from NSRs; Locate fixed plant in walled plant rooms or in specially designed enclosures; Ensure pump room doors and tunnel portal doors are kept closed; Silencers, acoustic louvres or acoustic doors should be used where necessary; and Develop and implement a regularly scheduled plant maintenance programme so that equipment is properly 	Reduce the operation noise	Project Proponent	Tunnel Portal / Ancillary building / SRs in carven	Prior to operation of the Project for planned NSRs	• EIAO-TM	To be implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	operated and serviced in order to maintain controlled level of noise. The programme should be implemented by properly trained personnel.						
Water Qu	uality (Construction Phase)						
W1	General Construction Site Practice The Contractor should observe and comply with the Water Pollution Control Ordinance and its subsidiary regulations and obtain a discharge license under the Ordinance for discharge of effluent from the construction site. 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. The Contractor should carry out the Project works in such a manner as to minimise adverse impacts on the water quality during execution of the works. In particular, the Contractor should arrange the working method to minimise the effects on the water quality within and outside the Project Site and on the transport routes. In addition, the management of construction site drainage from the Project will follow guidelines provided in ProPECC PN 1/94 – "Construction Site Drainage". The mitigation measures described in ETWB TC(W) No. 5/2005 shall also be followed where necessary for construction activities in close vicinity to inland watercourses.	To minimise water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN1/94 • ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	Implemented
W2	Construction Site Runoff and General Construction Activities Proper site management measures should be implemented to control site runoff and drainage, and thereby prevent high sediment loadings from reaching	To minimize water quality impact from construction site runoff and general	Contractor	All construction sites where applicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN1/94 • ETWB TC(W) No. 5/2005 • EIAO-TM	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	downstream sections of the river/stream. The mitigation measures shall include the following practices:	construction activities				• TM-DSS	
	• Provision of perimeter channels to intercept storm- runoff from outside the site. These should be constructed in advance of the construction works.						
	 Temporary ditches such as channels, earth bunds or sandbag barriers should be included to facilitate runoff discharge into the stormwater drain, via a sand/silt basin/trap. 						
	 Works programme should be designed to minimise works areas at any one time, thus minimizing exposed soil areas and reducing the potential for increased siltation and site runoff. 						
	Sand/silt removal facilities such as sand traps, silt traps and sediment basins should be provided to remove the sand/silt particles from run-off where necessary. These facilities should be properly and regularly cleaned and maintained. These facilities should be carefully planned to ensure that they would be installed at appropriate locations to capture all surface water generated on site.						
	• Careful programming of the works to avoid excavation works during the rainy season (April to September).						
	Temporary access roads (if any) should be protected by crushed gravel and exposed slope surfaces shall be protected (e.g. by tarpaulin) when rainstorms are likely;						
	Open stockpiles of construction materials on-site should be covered with tarpaulin or similar fabric during rainstorms to prevent erosion. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system						





Earthwork final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. Manholes should always be adequately covered and	 y Divident Report					
and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. • Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. • Manholes should always be adequately covered and	Recommended Mitigation Measures	recommended measure & main concerns to	-		Standards to be	Implementation status
materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. • Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. • All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the wheel washing bay and the public road should be	 and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary. Measures should be taken to minimise the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. Manholes should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system. Water used in ground boring and drilling for site investigation or rock/soil anchoring should as far as practicable be recirculated after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities. All vehicles and plant should be cleaned before they leave a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. A wheel washing bay should be provided at every site if practicable and wash-water should have sand and silt settled out or removed before discharging into storm drains. The section of construction road between the 					





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	paved with backfall to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.						
W3	Reuse of treated site runoff shall be considered as far as practicable for onsite activities such as dust suppression, wheel washing and general cleaning, etc.	To minimize water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	N/A
W4	Sewage Generated by Construction Workforce No discharge of sewage to the storm drains and inland watercourse will be allowed. Domestic sewage /wastewater generated by workforce on-site should be collected in a suitable storage facility such as portable chemical toilets. An adequate number of portable toilets will be provided during the construction phase, with a licensed collector employed to clean the chemical toilets on a regular basis and be responsible for collection and disposal of the sewage. According to the Reference Materials on Construction Site Welfare, Health and Safety Measures that issued by the Construction Industry Council, the number of toilet facilities provided on site shall be at a ratio of not less than one for every 25 workers. These toilets should be maintained in a state that will not deter the workers from using them.	To minimise water quality impact from sewage effluent in construction phase	Contractor	All construction sites where applicable	Construction stage	• Water Pollution Control Ordinance • ProPECC PN1/94 • ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	Implemented
W5	Accidental Spillage of Chemicals The following mitigation measures should be implemented to avoid adverse impacts of chemical spillage:	To prevent water quality impact due to chemical spillage	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance Waste Disposal (Chemical Waste) (General) Regulation ProPECC PN1/94 	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Waste streams classifiable as chemical wastes should be properly stored, collected and treated for compliance with the requirements set out in the Waste Disposal Ordinance and its subsidiary Waste Disposal (Chemical Waste) (General) Regulation. All fuel tanks and chemical storage areas should be provided with locks and be sited on paved areas. The storage areas should be surrounded by bunds with a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled oil, fuel and chemicals from reaching the receiving waters. Waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance. Vehicle and plant servicing areas, vehicle wash bays and lubrication bays should, as far as possible, be located within roofed areas. The drainage in these covered areas should be connected to foul sewers via a petrol interceptor. 					• ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	
W6	 Groundwater infiltration and Groundwater Drawdown To minimize the groundwater infiltration, the following groundwater control measures are recommended: The Contractor shall undertake rigorous probing of the ground ahead of excavation works to identify zones of significant water inflow that could occur as a result of discrete, permeable features. In such zones of significant water inflow, the overall inflow would be reduced by means of cut-off grouting executed ahead of the tunnel/cavern advance. Where water inflow quantities are excessive, pregrouting will be required to reduce the water inflow into the tunnel/cavern. 	To minimise water quality impact from groundwater infiltration	Contractor	All construction sites where applicable	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	To be Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 In case of excessive infiltration being observed as a result of the tunnelling or excavation works even after pre- grouting measures, post-grouting should be applied as far as practicable. Waterproof lining will be installed after the formation of the tunnels and caverns. In the event of seepage of groundwater occurs, groundwater should be pumped out from works areas and discharged to the storm drains via silt removal facilities. The discharges during construction phase shall comply with WPCO requirements 	Tominimin	Contractor	All	Construction	• Water Pollution	To be
W7	Construction Works in Close Proximity of Inland Watercourses The mitigation measures proposed for "General Construction Site Practice" and "Construction Site Runoff and General Construction Activities" in Sections 5.8.2 and 5.8.3 of the EIA report shall be implemented properly to minimize the water quality impacts during to the construction works in close proximity of inland watercourse.	To minimise water quality impact from construction site near watercourses	Contractor	All construction sites where applicable	Construction stage	• ProPECC PN1/94 • ETWB TC(W) No. 5/2005 • EIAO-TM • TM-DSS	Inplemented
W8	The practices outlined in ETWB TC(W) No. 5/2005 shall also be adopted where applicable to minimise the water quality impacts upon any natural streams or other inland watercourses. Relevant mitigation measures are listed below: • The use of less or smaller construction plants may be specified in areas close to the inland watercourses to reduce the disturbance to the surface water. • Temporary storage of materials (e.g. equipment, chemicals and fuel) and temporary stockpile of	To minimise water quality impact from construction site near watercourses	Contractor	The relocated DHSRs	Construction stage	 Water Pollution Control Ordinance ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 construction debris and spoil should be located well away from any watercourses. Stockpiling of construction materials and dusty materials should be covered and located away from any watercourses. Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby inland watercourses. Adequate lateral support may need to be erected in order to prevent soil/mud from slipping into the watercourses. Construction works close to the inland watercourses should be carried out in dry season as far as practicable where the flow in the surface channel or stream is low. Cleansing Effluent Generated from Washing of Interior of 	To minimise	Contractor	The relocated DHSRs	Construction	• Water Pollution Control Ordinance	To be
W9	Structures The cleaning effluent containing SS and residual chlorine should be settled out through the sedimentation tank and dechlorinated by the de-chlorination plant. The discharge quality of the cleansing effluent generated from washing of interior of structures after the construction shall meet the requirements specified in the discharge licence and the cleaning effluent should be treated properly so that it satisfies all the standards listed in the TM-DSS	water quality impact from construction site effluent		DIISKS	stage	 ProPECC PN1/94 ETWB TC(W) No. 5/2005 EIAO-TM TM-DSS 	Implemented
Water Q	uality (Operation Phase)						
W10	The ProPECC PN 5/93 "Drainage Plans subject to Comments by Environmental Protection Department" provides guidelines and practices for handling, treatment and disposal of various effluent discharges to stormwater drains and foul sewers. The design of site drainage and disposal of various site effluents generated within the	To control operational site effluents	Further Operator	The relocated DHSRs	Operation stage	Water Pollution Control Ordinance ProPECC PN5/93	To be Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	development area should follow the relevant guidelines and practices as given in the ProPECC PN 5/93.						
W11	Effluents from Cleaning of Service Reservoir Treatment and disposal of cleansing water during annual cleaning and maintenance of the service reservoirs shall follow the WSD's current normal practice with reference to Sections 23.24 – 23.25 of the General Specification for Civil Engineering Works. Portable water incorporated with a mixture of sterilizing chemicals shall be used for washing water retaining structures. The cleansing effluent shall be settled out through the sedimentation task and dechlorinated by a dechlorination unit before being discharged to drainage system. Agreement of DSD and discharge license from EPD shall be obtained before commencing any of the discharges during operation phase	To control operational site effluents	Further Operator	The relocated DHSRs	Operation stage	Water Pollution Control Ordinance Sections 23.23-23.24 of the General Specification for Civil Engineering Works TM-DSS	To be Implemented
W12	 Non-point Source Surface Runoff Best Management Practices (BMPs) to reduce non-point source surface water pollution are proposed as follows: Exposed surface shall be avoided within access road and portal/ancillary building areas to minimise soil erosion. The access road and the portal/ancillary building areas shall be either hard paved or covered by landscaping area where appropriate. Screening facilities such as standard gully grating and trash grille, with spacing which is capable of screening off large substances such as fallen leaves and rubbish should be provided at the inlet of drainage system. Road gullies with standard design and silt traps should be provided to remove particles present in stormwater runoff, where appropriate. Good management measures such as regular cleaning and sweeping of road surface/ open areas are suggested. The road surface/ open area cleaning 	To minimize water quality impact from non-point source surface run-off	Further Operator	The relocated DHSRs	Design and Operation stages	Water Pollution Control Ordinance ProPECC PN5/93	To be Implemented





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	 should also be carried out prior to occurrence of rainstorm. Manholes, as well as storm water gullies, ditches provided at the Project site should be regularly inspected and cleaned (e.g. monthly). Additional inspection and cleansing should be carried out before forecast heavy rainfall. 						
Waste M	anagement (Construction Phase)						
WM1	The waste management hierarchy shall apply to the construction waste management (i.e. in order of desirability: avoidance, minimization, recycling, treatment and safe disposal of waste).	Minimize waste generation during construction	Contractor	All construction sites	Design and Construction stages	• Waste Disposal Ordinance • EIAO	Implemented
WM2	The contractor should develop and provide toolbox talk for on-site sorting of C&D materials to enhance workers' awareness in handling, sorting, reuse and recycling of C&D materials. Requirements for staff training should be included in the contractor's Environmental Management Plan (EMP). The EMP shall be submitted to the Architect/Engineer for approval before construction works in accordance with ETWB TC(W) No.19/2005.	Minimize waste generation during construction	Contractor	All construction sites	Construction stages	• Waste Disposal Ordinance • EIAO • ETWB TC(W) No. 19/2005 • DEVB TC(W) No. 6/2010	Implemented
WM3	Good planning and site management practice should be employed to eliminate over-ordering or mixing of construction materials to reduce wastage. Proper storage and site practices will minimise the damage or contamination of construction materials.	Ensure proper waste management system throughout the construction	Contractor	All construction sites	Construction stages	 Waste Disposal Ordinance EIAO ETWB TC(W) No. 19/2005 DEVB TC(W) No. 6/2010 	Implemented
WM4	Where waste generation is unavoidable, the potential for recycling or reuse should be rigorously explored. If waste cannot be recycled, disposal routes described in the EMP should be followed. A recording system for the amount of wastes generated, recycled and disposed (including the	Reduce waste generation	Contractor	All Construction sites	Construction stage	• Waste Disposal Ordinance • EIAO • ETWB TC(W) No. 19/2005	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	disposal sites) should be implemented. In order to monitor the disposal of C&D material and solid wastes at public filling facilities and landfills and to control flytipping, a trip-ticket system should be included. One may make reference to DEVB TC(W) No. 6/2010 for details.					• DEVB TC(W) • No. 6/2010	
WM5	Regular cleaning and maintenance of the waste storage area should be provided.	Avoid odour, pest, and litter impacts	Contractor	All construction sites	Construction stage	• DEVB TC(W) No.8/2010 • ETWB TC(W) No. 19/2005	Implemented after observation
WM6	 Best Management Practice An on-site environmental co-ordinator should be identified at the outset of the works. The co-ordinator shall prepare an Environmental Management Plan (EMP) incorporating waste management in accordance with the requirements set out in the ETWB TCW No. 19/2005, Environmental Management on Construction Sites. The EMP shall include monthly and yearly Waste Flow Tables (WFT) that indicate the amounts of waste generated, recycled and disposed of (including final disposal site), and which should be regularly updated. WFT will be provided in the WMP which will form part of the EMP in accordance with ETWB TCW No.19/2005; The reuse/recycling of all materials on site shall be investigated prior to treatment/ disposal off- site; Good site practices shall be adopted from the commencement of works to avoid the generation of waste, reduce cross contamination of waste and to promote waste minimisation; All waste materials shall be sorted onsite into inert and non-inert C&D materials, and where the materials can be recycled or reused, they shall be further segregated. 	Ensure proper waste management system throughout the construction	Contractor	All construction sites	• Construction stage	• EIAO • Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No. 8/2010 • WBTC No.12/2000	Implemented after reminder





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	 The contractor shall be responsible for identifying what materials can be recycled/ reused, whether onsite or offsite. In the event of the latter, the contractor shall make arrangements for the collection of the recyclable materials. Any remaining non-inert C&D materials shall be collected and disposed of to the landfills whilst any inert C&D materials shall be reused on site as far as possible. Alternatively, if inert C&D materials cannot be reused on-site, the materials would be delivered to public fill reception facilities for beneficial reuse after obtaining the appropriate licence; With reference to DEVB TCW No.6/2010, Trip-ticket System for Disposal of Construction and Demolition Material, a trip ticket system should be established at the outset of the construction to monitor the disposal of C&D materials and solid wastes from the site to public filling facilities and landfills; Under the Waste Disposal (Chemical Waste) (General) Regulation, the Contractor shall register as a Chemical Waste Producer if chemical wastes such as spent lubricants and paints are generated on site. Only licensed chemical waste collectors shall be employed to collect any chemical waste generated at site. The handling, storage, transportation and disposal of chemical wastes shall be conducted in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes and A Guide to the Chemical Waste Control Scheme both published by EPD; A sufficient number of covered bins shall be provided on site for the containment of general refuse. These bins shall be cleared daily and the collected waste disposed of to the refuse transfer station. Further to the 						





	/ EM&A Report						
EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 issue of DEVB TCW No. 8/2010, Enhanced Specification for Site Cleanliness and Tidiness, the contractor is required to maintain a clean and hygienic site throughout the Project works; Tool-box talks should be provided to workers about the concepts of site cleanliness and appropriate waste management procedures, including waste reduction, reuse, and recycling; and The contractor shall comply with all relevant statutory requirements and guidelines and their updated versions that may be issued during the course of Project construction. 						
WM7	On-site Sorting, Reuse and Recycling All waste materials should be segregated into categories covering: Inert C&D materials suitable for reuse on-site; Inert C&D materials suitable for public fill reception facilities; Recyclable C&D materials for recycling; Remaining C&D materials for landfill; Chemical waste; and General refuse for landfill.	Reduce waste generation	Contractor	All construction sites	Construction stage	Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites	Implemented
WM8	Proper segregation and disposal of construction waste should be implemented. Separate containers should be provided for inert and non-inert materials.	Reduce waste generation	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites 	Implemented





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WM9	Specific area should be allocated for on-site sorting of C&D materials and to provide a temporary storage area for those sorted materials. If area is limited, all C&D materials should at least be sorted on-site into inert and non-inert components. Non-inert C&D materials such as bamboo, timber, vegetation, packaging waste and other organic materials should be reused and recycled to local recycler wherever possible and disposed to the designated landfill only as a last resort. Inert C&D materials such as concrete, stone, clay, brick, soil, asphalt and the like should be separated and reused in this or other projects (subject to approval by the relevant parties in accordance with the DEVB TC(W) No. 6/2010) before disposed of at a public filling facility operated by CEDD. Steel and other metals should be recovered from demolition waste stream and recycled	Ensure proper waste management system throughout the construction in order to reduce waste generation	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No.8/2010	Implemented
WM10	The reuse of inert C&D materials such as soil, rock and broken concrete should be maximised. Waste should be separated into fine, soft and hard materials. With the use of a crusher. coarse materials can be crushed to make it suitable for use as fill materials where fill is required in the works. This minimises the use of imported materials and maximises the use of the C&D materials produced. Approval from CEDD and EPD shall be obtained for the use of site crusher in accordance with WBTC No. 11/2002.	Ensure proper waste management system throughout the construction in order to reduce waste generation	Contractor	All construction sites	Construction stage	• Waste Disposal Ordinance • WBTC No. 11/2002	Implemented
WM11	Excavated Materials Excavated materials should be temporarily stored on-site for use as backfill as far as possible. It should be properly covered with tarpaulin or similar impervious sheeting to prevent dust nuisance and site runoff. Surplus excavated materials should be disposed of to public fill reception facilities.	Minimize dust, site runoff and waste impacts from excavated and C&D materials	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO-TM criteria 	Implemented





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WM12	 Control measures for temporary stockpiles on-site should be taken, which include: Surface of stockpiled soil should be regularly wetted with water especially during dry season; Disturbance of stockpiled soil should be minimized; Stockpiled soil should be properly covered with tarpaulin especially when heavy rainstorms are predicted; Stockpiling areas should be enclosed where space is available; Stockpiling location should be away from the water bodies; and An independent surface water drainage system equipped with silt traps should be installed at the stockpiling area. 	Minimize the noise, generation of dust, pollution of water and visual impact from excavated and C&D materials	Contractor	All construction sites	Construction stage	 Waste Disposal Ordinance Air Pollution Control Ordinance To control the dust impact to meet HKAQO and EIAO-TM criteria. ETWB TC(W) No.19/2005 	Implemented
WM13	The Public Fill Committee of CEDD should be consulted for disposal of inert C&D materials to public fill reception facilities while EPD should be consulted for disposal of non-inert C&D materials to landfill. Disposal of C&D waste to landfill must not have more than 50% (by weight) inert material. The C&D waste delivered for landfill disposal should contain no free water and the liquid content should not exceed 70% by weight.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Design and Construction stages	• Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No.8/2010	Implemented
WM14	In order to avoid dust impacts, any vehicle leaving a works area carrying C&D waste or public fill should have their load covered up before leaving the construction site.	Minimize the dust impact from transferring C&D materials	Contractor	All construction sites	Construction stages	 Air Pollution Control Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites 	Implemented





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						• DEVB TCW No.6/2010 • DEVB TCW No.8/2010	
WM15	C&D materials should be disposed of at designated public fill reception facilities or landfills. Disposal of these materials for the use at other construction projects is subject to the approval of the Engineer and/or other relevant reception authorities. Furthermore, unauthorised disposal of C&D materials in particular on private agricultural land is prohibited and may be subject to relevant enforcement and regulating actions. The disposal of public fill and C&D materials will be controlled through trip-ticket system in accordance with DEVB TC(W) No. 6/2010.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Construction stages	• Waste Disposal Ordinance • ETWB TCW No. 19/2005, Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No.8/2010	Implemented
WM16	Chemical Waste Where the construction processes produce chemical waste, the contractor must register with EPD as a chemical waste producer. Wastes classified as chemical wastes are listed in the Waste Disposal (Chemical Waste) (General) Regulation. These wastes are subject to stringent disposal routes. EPD requires information on the particulars of the waste generation processes including the types of waste produced, their location, quantities and generation rates. A nominated contact person must be registered with EPD. An updated list of licensed chemical waste collector can be obtained from EPD.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste	Implemented
WM17	Storage, handling, transport, and disposal of chemical waste should be arranged in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published by EPD, and collected by a licensed chemical waste collector.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and 	Implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
						Storage of Chemical Waste	
WM18	Suitable containers should be used for specific types of chemical wastes. The containers should be properly labelled (in English and Chinese in accordance with instructions prescribed in Schedule 2 of the Regulations), resistance to corrosion, stored safely and closely secured. Stored volume should not be kept more than 450 liters unless the specification has been approved by the EPD. Storage area should be enclosed by three sides by a wall, partition of fence that is at least 2 m height or height of tallest container with adequate ventilation and space.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste	Implemented
WM19	Hard standing, impermeable surfaces draining via oil interceptors should be provided in works area compounds. Interceptors should be regularly emptied to prevent release of oils and grease into the surface water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain. Oil and fuel bunkers should be bunded and/or enclosed on three sides to prevent discharge due to accidental spillages or breaches of tanks. Bunding should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest. Waste collected from any oil interceptors should be collected and disposed of by a licensed collector.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites Waste Disposal (Chemical Waste) (General) Regulation EIAO-TM criteria	Implemented
WM20	Lubricants, waste oils and other chemical wastes are likely to be generated during the maintenance of vehicles and mechanical equipment. Used lubricants should be collected and stored in individual containers which are fully labelled in English and Chinese and stored in a	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	 Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging 	Implemented





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	designated secure place. The chemical waste shall be collected by licensed chemical waste collectors.					Labelling and Storage of Chemical Waste	
WM21	The registered chemical waste producer (i.e. the contractor) has to arrange for the chemical waste to be collected by licensed collectors. The licensed collector should regularly take chemical waste to a licensed chemical waste treatment facility (such as the CWTC in Tsing Yi). A trip ticket system operates to control the movement of chemical wastes.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	• Waste Disposal (Chemical Waste) (General) Regulation	Implemented
WM22	No lubricants, oils, solvents or paint products should be allowed to discharge into water courses, either by direct discharge, or as contaminants carried in surface water runoff from the construction site.	Proper waste management for chemical waste	Contractor / Relevant Operators	All construction sites	Construction stages	• Waste Disposal (Chemical Waste) (General) Regulation	Implemented
WM23	General Refuse General refuse should be disposed of to landfill as designated by EPD only after recyclable materials (e.g. paper, metals, aluminium cans, etc.) have been sorted out.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractors	All construction sites	Construction stage	Waste Disposal Ordinance Public Health and Municipal Services Ordinance (Cap.132)	Implemented
WM24	The contractor should nominate approved site personnel to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility of all wastes generated at the site. Training of site personnel about site cleanliness, proper waste management and chemical handling procedures should be provided. Recyclable materials such as papers and aluminium cans should be separated and delivered to the local recyclers. An adequate number of waste containers should be provided to avoid spillage of waste.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractors	All construction sites	Construction stage	Waste Disposal Ordinance Public Health and Municipal Services Ordinance (Cap.132)	Implemented
WM25	General refuse generated on-site should be stored in enclosed bins or skips and collected separately from other construction and chemical wastes and disposed of at	Minimise production of the general refuse and	Contractors	All construction sites	Construction stage	• Waste Disposal Ordinance	Implemented





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	designated landfills by reputable waste collectors. The removal of waste from the site should be arranged on a daily basis or at least on every second day by the contractor to minimise any potential odour impacts, minimise the presence of pests, vermin and other scavengers and prevent unsightly accumulation of waste.	avoid odour, pest and litter impacts				• Public Health and Municipal Services Ordinance (Cap.132)	
Waste M	anagement (Operation Phase)						
WM26	The general refuse and chemical waste generated during the operation phase would follow the same handling procedures and disposal method presented in Sections 6.6.16 to 6.6.25 of the EIA report. It is expected that there would be limited quantities of general refuse and chemical waste to be generated from the operation of the Project and will be properly handled by licensed chemical waste collectors and reputable waste collector. Waste monitoring and audit programme for the operation phase of the Project would not be required.	Minimise production of the general refuse and avoid odour, pest and litter impacts	Relevant Operators	All construction sites	Operation Stage	Waste Disposal Ordinance Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging Labelling and Storage of Chemical Waste Public Health and Municipal Services Ordinance (Cap.132)	To be implemented
Ecology							
E1	Direct impact to the recognised site of conservation importance (Lion Rock Country Park)/habitats with high ecological values (e.g. watercourse, woodland, species of conservation interest shall be avoided.	Avoid any direct impacts to these sites of conservation importance /habitats with high ecological value	Detailed Design Consultant	Sites of conservation importance/ habitats with high ecological value	Design Stage	TM-EIAO	To be implemented





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E2	To minimise habitat loss to the nearby habitats and associated wildlife, the following mitigation measures should be implemented: • Confining the works within the Project Boundary; • Controlling access of site staff to avoid damage to the vegetation in surrounding areas; and • Placement of equipment or stockpile in the existing disturbed / urbanised area within the Project Boundary of the Project to minimise disturbance to vegetated area.	Minimise habitat loss to the nearby habitats and associated wildlife	Contractor	All construction sites	Construction Stage	TM-EIAO	Implemented
E3	Reinstatement and enhancement of temporarily affected habitats. Minor ecological impacts may arise from the temporary loss of plantation and developed area during construction phase. In general, replanting would be implemented upon the completion of the construction works to reinstate the temporarily affected areas to condition similar to original status.	Enhance the temporarily affected habitats	Contractor	All construction sites	Construction stage	TM-EIAO	To be implemented
E4	 Minimizing Disturbance from Construction Activities Mitigation measures including, but not limited to, erection of site hoarding, use of Quality Powered Mechanical Equipment (QPME), noise and dust reduction tarpaulin sheeting and good site practices throughout construction phase are shown as followings: Site hoarding would be established around the proposed tunnel portal and E&M building prior to the commencement of construction works to prevent construction activities from encroaching adjacent habitats as well as prevent unnecessary human activities in the surrounding habitats; QPME, noise and dust reduction tarpaulin sheeting could be used during construction phase to reduce noise disturbance and dust emission. Temporary 	To minimise disturbance from construction activities	Contractor	All construction sites	Construction stage	TM-EIAO	Implemented





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	 barriers such as movable noise barrier, temporary noise screening structures and site hoardings could further reduce the noise impact; Good site practices such as regular water spraying at dusty operation, provision of waste skips and timely collection of general refuse and construction waste are also recommended. 						
E5	Reduction of lighting can be achieved using directional lighting to prevent excessive light spill into adjacent natural habitat and disturbance to nocturnal fauna.	To minimize disturbance from construction activities	Contractor	All construction sites	Construction stage	TM-EIAO	Implemented
E6	Control of Site Runoff Best management practices should be implemented on site in accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94) as far as practicable to control site runoff and drainage at all work sites during construction phase, so that the treated runoff will be discharged to public drainage system in compliance with the WPCO. Construction effluent, site run-off and sewage should be properly collected and/or treated. Wastewater from a construction site should be managed. Proper locations for discharge outlets of wastewater treatment facilities well away from the natural watercourses should be identified. Effluent monitoring should be incorporated to make sure that the discharged effluent from construction sites meets the effluent discharge guidelines. The practices outlined in ETWB TC (Works) No. 5/2005 "Protection of natural streams/rivers from adverse impacts arising from construction works" should also be adopted where applicable to minimise the water quality impacts upon the channalised/semi-natural	To control site runoff and drainage at all work sites, thus, the aquatic ecosystem is protected.	Contractor	All construction sites	Construction stage	Water Pollution Control Ordinance ProPECC PN. 1/94	Implemented





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	watercourses, in order to better protect the aquatic ecosystem.						
E7	Control of Groundwater Infiltration In order to minimise groundwater infiltration or avoid potential impacts on watercourses, water table and groundwater drawdown, minimization approach was adopted during design stage and would be adopted during construction and operation phase.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E8	The proposed cavern would be constructed under the measured groundwater table. Water inflow would be controlled to an acceptable level by implementing pregrouting and post-grouting measures, thus the impact of the proposed cavern on the groundwater table is considered to be limited.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E9	The permanent tunnel structure of the proposed access tunnel would be designed as drained type at the locations with adequate rock cover and designed as undrained type at locations with mix ground conditions. The water inflow would also be controlled to an acceptable level with pregrouting and postgrouting measures.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E10	During operation phase, waterproof lining would be installed to prevent water seepage and water droplets (if any) would be discharged into the sewage system	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented
E11	All the mitigation measures regarding potential groundwater infiltration concern that has been proposed in Section 5.8.7 shall be followed.	To minimize groundwater infiltration / avoid potential impacts on watercourses	Contractor	Works area at Cavern and tunnel portal	Design stage / Construction stage / Operation Stage	EIAO-TM	To be implemented





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Landscap	Landscape and Visual (Construction Phase)									
CM1	 Careful Site Planning and Management The site layout and works area including temporary access road(s), stockpiling area(s), temporary construction storage shall be carefully planned to preserve existing landscape resources and trees as far as practicable. Good site practices shall be enforced to eliminate eyesores from unappealing stockpiling/ storage areas and/or construction activities. 	To minimize site clearance, tree removal and disturbance to existing Landscape Resources, and visual obstruction to VSRs	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented			
CM2	 Careful Design of Slope Works Slope stabilization methods (i.e., insertion of soil nails and establishment of grillage, etc.) shall be carefully formulated to minimise the loss of tree and landscape cover as far as practicable. 	To minimize tree removal and to create a slope surface better blending with the surrounding environment	Project Proponent (via Contractor)	Works area at Cavern and tunnel portal	Construction stage	N/A	Implemented			
СМЗ	 Tree Preservation In accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version, existing vegetation shall be retained on site as far as practicable. Adequate tree protection measures shall be provided for the Trees to be retained on site. Relevant guidelines on tree care and protection promulgated by Greening, Landscape and Tree Management Section of Development Bureau shall be observed and followed. 	To minimize tree removal	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented after observation			
CM4	 Tree Transplanting/ Compensatory Tree Planting Trees unavoidably affected by the project shall be transplanted as far as practicable in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version and the latest guidelines promulgated by 	To minimize the loss of trees To compensate for the loss of tree	Project Proponent (via Contractor)	All construction areas	Construction stage	DEVB TC(W) No. 4/2020- Tree Reservation	Implemented			





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
	 Greening, Landscape and Tree Management Section of Development Bureau. Affected trees that are not suitable for transplantation and to be felled shall be compensated in not less than 1:1 in quantity and in accordance with DEVB TC (W) No.4/2020 – Tree Preservation or its latest version. Onsite compensation has been prioritized. However, due to land status issues, area of onsite compensatory planting locations are insufficient to compensate for the loss of trees and near site compensatory locations managed by WSD are adopted, as shown in Figure 9.9, Figure 9.10A, Figure 9.10B and Figure 9.11 of the EIA report. Tree species selected shall be compatible with surrounding existing vegetation. 	To provide quality and sustainable landscape that is compatible with the site context					
CM5	 Inspection of Tree Works Regular site inspection shall be conducted by tree specialist. 	To closely monitor the site activities in order to avoid or minimize any possible adverse impact to the retained trees	Project Proponent (via Contractor)	All construction areas	Construction stage	N/A	Implemented
CM6	Minimization of Light Impact • Lighting at construction sites shall be carefully controlled at night	To avoid disturbance to nearby VSRs	Project Proponent (via Contractor)	All construction areas and temporary works areas	Construction stage	N/A	Implemented
CM7	Erection of Decorative Site Hoarding Decorative hoarding that is compatible with the surrounding environment shall be erected during construction.	To enhance the visual amenity of construction hoarding	Project Proponent (via Contractor)	All construction areas and temporary work areas	Construction stage	N/A	To be implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
CM8	Reinstatement of Temporarily Disturbed Areas Temporarily disturbed landscape areas shall be reinstated.	To reinstate the disturbed landscape	Project Proponent (via Contractor)	All construction areas and temporary work areas	Construction stage	N/A	To be implemented
Landscap	pe and Visual (Operation Phase)						
OM1	 Landscape Planting Landscape planting shall be provided in accordance with DEVB TCW No.3/2012 – Site Coverage of Greenery for Government Building Projects or its latest version. Planting species shall be compatible with the nearby existing vegetation cover as far as practicable. Not less than 12-month establishment after completion shall be provided for the landscape planting. 	To soften the hard edges of the structure and make it more compatible with the surrounding environment	Project Proponent (via Contractor)	Ancillary building	Operation stage	DEVB TCW No.3/2012	To be implemented
OM2	Rooftop Greening Rooftop greening shall be implemented with reference to the references on skyrise greenery provided by the Greening, Landscape & Tree Management Section, Development Bureau.	To make the ancillary facilities more compatible with the surrounding woodland landscape and to mitigate the potential adverse visual impact on adjacent residential VSRs viewing from an elevated vantage point	Project Proponent (via Contractor)	Ancillary building	Operation stage	N/A	To be implemented
OM3	Vertical Greening Vertical greening shall be provided.	To enhance the visual amenity of the ancillary	Project Proponent	Ancillary building	Operation stage	N/A	To be implemented





EM&A Log Ref.	Recommended Mitigation Measures	Objective of the recommended measure & main concerns to address	Implement Agent	Location / Timing	Implementation Timing	Requirements and / or Standards to be Achieved	Implementation status
		facilities and to blend in with the surrounding landscape	(via Contractor)				
OM4	 Careful Design of Ancillary Facilities The orientation and location of the ancillary facilities shall be carefully designed. Its finish shall be non-reflective and dull in colour. The ancillary facilities are unmanned structures that merely require minimal security services during daytime. There shall be nobody and no lighting illuminating from the buildings at night, except essential street lighting for the portal access road. 	To avoid glare impact to surrounding VSRs	Project Proponent (via Contractor)	Ancillary building	Operation stage	N/A	To be implemented

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Monthly EM&A Report





Appendix E

Air Quality and Noise Monitoring Equipment Calibration Certification



PC-3A(E) K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:		PC-3A(E)			
Unit-under-Test Serial No.:		2110283			
Our Report Reference No.:	RI	PT-25-HVS-011	19		
Calibration Location:	AM2, I	ocation near t	he Leachate Trea	atment Works within the NENTX Landfill	

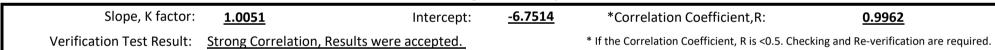
Standard Equipment Information

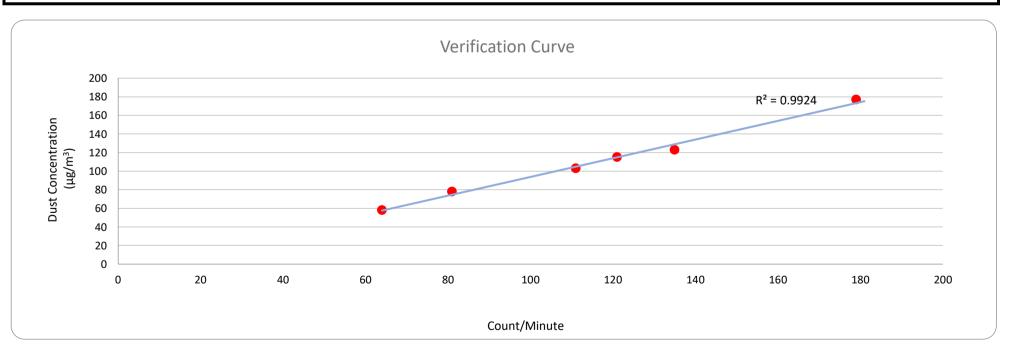
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification		Duration		Results fron	n Calibrated Equipment	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	14580	81	78
2	23/02/2025	5388.00	5391.00	180.00	32220	179	177
3	23/02/2025	5394.00	5397.00	180.00	21780	121	115
4	2/03/2025	5397.00	5400.00	180.00	11520	64	58
5	2/03/2025 5400.00 5403.00 180.00		180.00	19980	111	103	
6	2/03/2025	5403.00	5406.00	180.00	24300	135	123

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 04-03-2025

Checked By: Vega Wong Date: 04-03-2025
Senior Consultant, Environmental



PC-3A(E) K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:		PC-3A(E)			
Unit-under-Test Serial No.:		220710223		•	
Our Report Reference No.:	F	RPT-25-HVS-013	30	•	
Calibration Location:	AM2,	AM2, location near the Leachate Treat		atment Works within the NENTX Landfill	
-					_

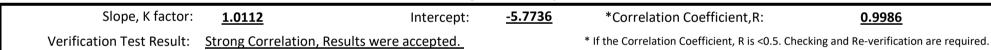
Standard Equipment Information

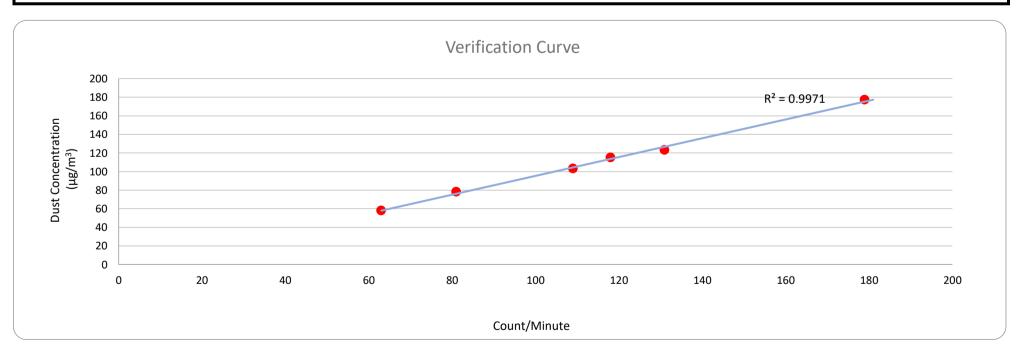
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification		Duration			Results fron	n Calibrated Equipment	Results from Standard Equipment
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis
1	23/02/2025	/02/2025 5385.00 5388.00 180.0		180.00	14580	81	78
2	23/02/2025	/02/2025 5388.00 5391.00 180.0		180.00	32220	179	177
3	23/02/2025	5394.00	5397.00	180.00	21240	118	115
4	2/03/2025	5397.00	5400.00	180.00	11340	63	58
5	2/03/2025	5400.00	5403.00	180.00	19620	109	103
6	2/03/2025	5403.00	5406.00	180.00	23580	131	123

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 04-03-2025

Checked By: Vega Wong Date: 04-03-2025
Senior Consultant, Environmental



PC-3A(E) K-Factor Verification Test by Total Suspended Particulates HVS Test Report

Information of Calibrated Equipment

Verification Test Date:	23-Feb-25	to	2-Mar-25	Next Verification Test Date:	23-Feb-26
Unit-under-Test- Model No.:		PC-3A(E)			
Unit-under-Test Serial No.:		220710225		•	
Our Report Reference No.:	F	RPT-25-HVS-01	36	•	
Calibration Location:	AM2,	AM2, location near the Leachate Treat		atment Works within the NENTX Landfill	
_					_

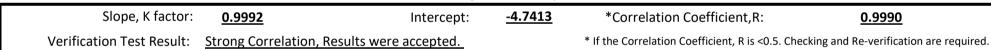
Standard Equipment Information

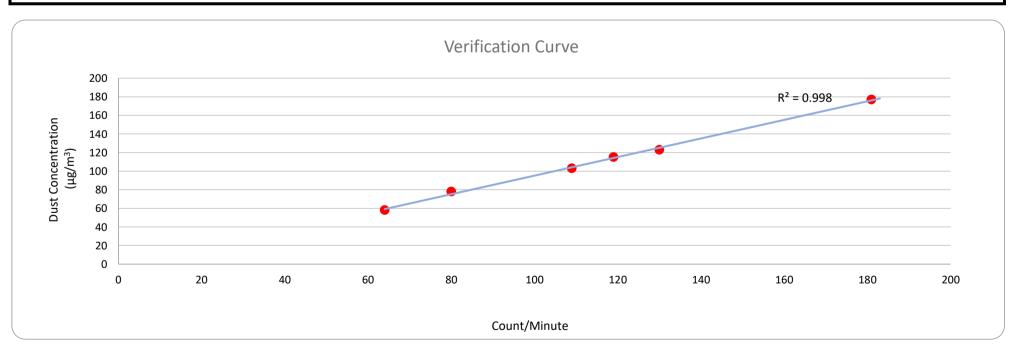
Verification Equipment Type:	Tisch TSP HVS	Tisch HVS Calibrator
Standard Equipment Model No.:	TE-5170X	TE-5025A
Equipment serial no.:	1106	3465
Last Calibration Date:	10-Feb-25	2-Dec-24
Next Calibration Date:	9-Apr-25	2-Dec-25

Equipment Verification Result

Verification		Duration		Results fron	n Calibrated Equipment	Results from Standard Equipment	
Test No.	Date	Start-time	End-time	Elapsed Time (in min)	Total Counts	Counts/ Minute x-axis	Dust Concentration (μg/m³) y-axis
1	23/02/2025	5385.00	5388.00	180.00	14400	80	78
2	23/02/2025	5388.00	5391.00	180.00	32580	181	177
3	23/02/2025	5394.00	5397.00	180.00	21420	119	115
4	2/03/2025	5397.00	5400.00	180.00	11520	64	58
5	2/03/2025 5400.00 5403.00 180.00		180.00	19620	109	103	
6	2/03/2025	5403.00	5406.00	180.00	23400	130	123

Linear Regression of y on x





Operated By:

Andy Li

Project Technician, Environmental

Date: 04-03-2025

Checked By: Vega Wong Date: 04-03-2025
Senior Consultant, Environmental

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

SVANTEK

Type No.:

971 (Serial No.: C132261)

Microphone:

ACO 7052E (Serial No.: 79778)

Preamplifier:

SV 18 (Serial No.:97276)

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street,

Kwun Tong, Kowloon, Hong Kong

Upon receipt for calibration, the instrument was found to be:

☑ Within (31.5Hz – 8kHz)

Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 23 October 2024

Date of calibration: 24 October 2024

Date of NEXT calibration: 23 October 2025

Calibrated by:

Calibration Technician

Certified by:

E-mail: inquiry@aa-lab.com

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 24 October 2024

Certificate No.: APJ23-155-CC005

Page 1 of 4



1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 24.8 °C
Air Pressure: 1007 hPa
Relative Humidity: 54.9 %

3. Calibration Equipment:

	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Sett	ing of U	nit-under-te	est (UUT)	Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB	
35-137	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
35-137	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.0	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	ange, dB Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
35-137	dBA	CDI	Fast	0.4	1000	94.0	Ref
35-137	uBA	SPL	Slow	94	1000 NR TESTIN	UBO 94.0	±0.3

Certificate No.: APJ23-155-CC005

Page 2 of 4

Homepage: http://www.aa-lab.com E

E-mail: inquiry@aa-lab.com

Frequency Response

Linear Response

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Wo	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.6	±2.0
					63	94.5	±1.5
					125	94.4	±1.5
					250	94.3	±1.4
35-137	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.0	Ref
					2000	93.9	±1.6
					4000	95.5	±1.6
					8000	92.3	+2.1; -3.1

A-weighting

Sett	Setting of Unit-under-test (UUT)				ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	55.3	-39.4 ±2.0
					63	68.4	-26.2 ±1.5
					125	78.3	-16.1 ±1.5
=		A SPL	Fast	94	250	85.7	-8.6 ±1.4
35-137	dBA				500	91.0	-3.2 ±1.4
					1000	94.0	Ref
					2000	95.2	+1.2 ±1.6
					4000	96.5	+1.0±1.6
			21		8000	91.4	-1.1+2.1; -3.1

C-weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Level, dB Frequency, Hz		Specification, dB
					31.5	91.6	-3.0 ±2.0
					63	93.7	-0.8 ±1.5
					125	94.3	-0.2 ±1.5
					250	94.3	-0.0 ±1.4
35-137	dBC	SPL	Fast	94	500	94.3	-0.0 ±1.4
					1000	94.0	Ref
					2000	93.8	-0.2 ±1.6
					4000	94.7	-0.8 ±1.6
					8000	89.5	-3.0 +2.1: -3.1

Certificate No.: APJ23-155-CC005



Page 3 of 4



5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.



Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

NTi Audio

Type No.:

XL2 (Serial No.: A2A-13548-E0)

Microphone:

ACO 7052 (Serial No.:84474)

Preamplifier:

NTi Audio MA220 (Serial No.:7989)

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B,

Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong.

Upon receipt for calibration, the instrument was found to be:

☑ Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 19 March 2025

Date of calibration: 20 March 2025

Date of NEXT calibration: 19 March 2026

Date of issue: 20 March 2025

Certificate No.: APJ24-161-CC001

Certified by:

Mr. Ng Yan Wa Laboratory Manager

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature:

23.8 °C

Air Pressure:

1006 **hPa**

Relative Humidity:

61.4%

3. Calibration Equipment:

Type

Serial No.

Calibration Report Number

Traceable to

Multifunction Calibrator

B&K 4226

2288467

AV240081

HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setti	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB Freq. Weighting Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB		
30-130	dBA	SPL	Fast	94	1000	94.1	±0.4

Linearity

Setting of Unit-under-test (UUT)				Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.1	Ref
30-130	dBA	SPL	Fast	104	1000	104.1	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	tange, dB Freq. Weighting Time Weighting		Level, dB	Frequency, Hz	dB	Specification, dB	
20 120	A CIL	CDI	Fast	0.4	1000	94.1	Ref
30-130 dB	aBA	dBA SPL	Slow	94	1000	94.1	±0.3

Certificate No.: APJ24-161-CC001

(A+A) *L Page 2 of 4

Frequency Response

Linear Response

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB Frequency, Hz		dB	Specification, dB
					31.5	94.1	±2.0
					63	94.1	±1.5
					125	94.1	±1.5
			,	ē	250	94.1	±1.4
30-130	dB	SPL	Fast	94	500	94.2	±1.4
					1000	94.1	Ref
					2000	94.3	±1.6
					4000	94.6	±1.6
v					8000	94.7	+2.1; -3.1

A-weighting

Sett	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. Weighting		Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.0	-26.2 ±1.5
					125	78.0	-16.1 ±1.5
					250	85.5	-8.6 ±1.4
30-130	dBA	SPL	Fast	94	500	90.9	-3.2 ±1.4
					1000	94.1	Ref
					2000	95.5	+1.2±1.6
					4000	95.6	+1.0±1.6
					8000	93.6	-1.1+2.1; -3.1

C-weighting

Setti	Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	91.2	-3.0 ±2.0
					63	93.3	-0.8 ± 1.5
					125	94.0	-0.2 ±1.5
					250	94.1	-0.0 ± 1.4
30-130	dBC	SPL	Fast	94	500	94.2	-0.0 ± 1.4
					1000	94.1	Ref
					2000	94.1	-0.2 ±1.6
					4000	93.8	-0.8 ±1.6
1					8000	91.7	-3.0 +2.1: -3.1

Certificate No.: APJ24-161-CC001

NR TESTING LABORATION Page 3 of 4

5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.10
	63 Hz	± 0.10
	125 Hz	± 0.10
	250 Hz	± 0.10
	500 Hz	± 0.05
*	1000 Hz	± 0.05
	2000 Hz	± 0.05
a .	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

Page 4 of 4

Certificate No.: APJ24-161-CC001

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

RION

Type No.:

NC-75

Serial No.:

34724243

Submitted by:

Customer:

Aurecon Hong Kong Limited

Address:

Unit 1608, 16/F, Tower B, Manulife Financial Centre,

223-231 Wai Yip Street, Kwun Tong,

Kowloon, Hong Kong

Upon receipt for	or calibration,	the instrument	was found to be:
------------------	-----------------	----------------	------------------

Within

☐ Outside

the allowable tolerance.

The test equipments used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 2 October 2024

Date of calibration: 4 October 2024

Date of NEXT calibration: 3 October 2025

Calibrated by: _____A

Calibration Technician

Certified by:

Mr. Ng Yan Wa aboratory Manager

Date of issue: 4 October 2024

Certificate No.: APJ23-154-CC004

Page 1 of 2



1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.9 °C
Air Pressure:	1005 hP
Relative Humidity:	50.7 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value	Accept lower level	Accept upper level	Measured value
dB	dB	dB	dB
94.0	93.6	94.4	94.0

Note:

The values given in this certification only related to the values measured at the time of the calibration.



Certificate No.: APJ23-154-CC004

Homepage: http://www.aa-lab.com

E-mail: inquiry@aa-lab.com





Appendix F Environmental Monitoring Schedule

Contract No. 21/WSD/21

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

		Tentative Impa	act Environmental Mo	nitoring Schedule		
			September 2025			
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	Site Inspection Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	6
7	8	9	10	Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	Site Inspection	13
14	15	16	Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	18	Site Inspection	20
21	22	Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	24	25	26 Site Inspection	27
28	Impact Air Quality and Noise Monitoring (DM-1, DM-2, DM-3, DM-4, DM-4a, NM-2, NM-3, NM-4, NM-4a, NM-5, NM-6)	30				
The schedule may be changed due to unfo	oreseen circumstances (e.g. adverse weather,	etc.)				
Air Quality Monitoring Stations: DM-1 - Tennis Court near Tin Ma C DM-2 - Chun Sing House, Tin Ma C DM-3 - Grace Methodist Church K DM-4 - Block 6, Tsui Chuk Garder DM-4a - Road pavement near Wan	Court Court indergarten		NM-4 - Block 6, Tsu NM-4a - Road pave NM-5 - Wo Tin Hou	Iouse, Tin Ma Court odist Church Kindergarten	g Court	





Appendix G

Air Quality Monitoring Results and Graphical Presentation



Appendix G - 1-hour TSP Monitoring Results

DM-1 - Tennis Court near Tin Ma Court					
Date	Time	Weather	Particulate Concentration (µg/m³)		
	8:58		35		
5/9/2025	9:58	Fine	40		
	10:58		37		
	9:00		26		
11/9/2025	10:00	Fine	31		
	11:00		28		
	9:03		45		
17/9/2025	10:03	Cloudy	43		
	11:03		38		
	8:30		39		
22/9/2025	9:30	Fine	44		
	10:30		43		
	8:52		43		
29/9/2025	9:52	Fine	47		
	10:52		39		
		Minimum	26		
		Maximum	47		
		Average	39		

M-2 - Chun Sing House, Tin Ma Court					
Date	Time	Weather	Particulate Concentration (µg/m³)		
	9:13		46		
5/9/2025	10:13	Fine	40		
	11:13		43		
	9:11		35		
11/9/2025	10:11	Fine	31		
	11:11		33		
	9:18		49		
17/9/2025	10:18	Cloudy	52		
	11:18		41		
	8:45		40		
22/9/2025	9:45	Fine	35		
	10:45		37		
	9:11		40		
29/9/2025	10:11	Fine	42		
	11:11		34		
_		Minimum	31		
		Maximum	52		
		Average	40		



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Appendix G - 1-hour TSP Monitoring Results

Date	Time	Weather	Particulate Concentration (µg/m³)
	8:36		40
5/9/2025	9:36	Fine	31
	10:36		35
	8:35		36
11/9/2025	9:35	Fine	30
	10:35		33
	8:40		48
17/9/2025	9:40	Cloudy	44
	10:40		39
	8:59		37
22/9/2025	9:59	Fine	39
	10:59		38
	8:31		45
29/9/2025	9:31	Fine	48
	10:31		42
		М	20
		Minimum	30
		Maximum	48
-4 - Block 6, '	Fsui Chuk G	Maximum Average	48
-4 - Block 6, Date	Г sui Chuk G Time	Maximum Average	48
	Time	Maximum Average	48 39
Date		Maximum Average	48 39 Particulate Concentration (μg/m³)
Date	Time 13:56	Maximum Average arden Weather	48 39 Particulate Concentration (μg/m³) 44
Date	Time 13:56 14:56	Maximum Average arden Weather	48 39 Particulate Concentration (μg/m³) 44 40
Date 5/9/2025	Time 13:56 14:56 15:56	Maximum Average arden Weather	48 39 Particulate Concentration (μg/m³) 44 40 42
Date 5/9/2025	Time 13:56 14:56 15:56 14:12	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30
Date 5/9/2025	Time 13:56 14:56 15:56 14:12 15:12	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22
Date 5/9/2025 11/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24
Date 5/9/2025 11/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48
Date 5/9/2025 11/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00 15:00	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48 39 46 40
	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00 15:00 16:00	Maximum Average arden Weather Fine	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48 39 46
Date 5/9/2025 11/9/2025 17/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00 15:00 16:00 9:06	Maximum Average arden Weather Fine Cloudy	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48 39 46 40
Date 5/9/2025 11/9/2025 17/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00 15:00 16:00 9:06 10:06	Maximum Average arden Weather Fine Cloudy	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48 39 46 40 42
Date 5/9/2025 11/9/2025 17/9/2025	Time 13:56 14:56 15:56 14:12 15:12 16:12 14:00 15:00 16:00 9:06 10:06 11:06	Maximum Average arden Weather Fine Cloudy	48 39 Particulate Concentration (μg/m³) 44 40 42 30 22 24 48 39 46 40 42 45

Average



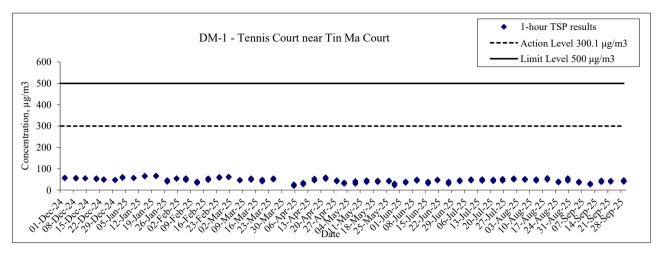
Appendix G - 1-hour TSP Monitoring Results

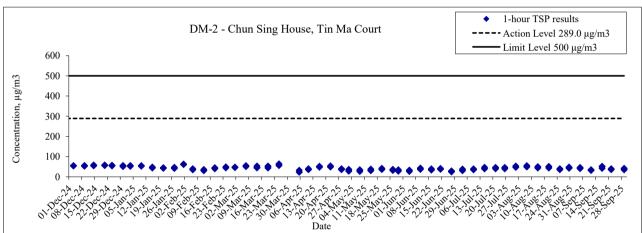
DM-4a - Road pavement near Wang King House, Tin Wang Court				
Date	Time	Weather	Particulate Concentration (µg/m³)	
	13:33		27	
5/9/2025	14:33	Fine	32	
	15:33		30	
	13:45		38	
11/9/2025	14:45	Fine	43	
	15:45		40	
	13:28		37	
17/9/2025	14:28	Cloudy	42	
	15:28		42	
	9:15		30	
22/9/2025	10:15	Fine	37	
	11:15		40	
	13:18		50	
29/9/2025	14:18	Fine	43	
	15:18		46	
		Minimum	27	
		Maximum	50	
		Average	38	

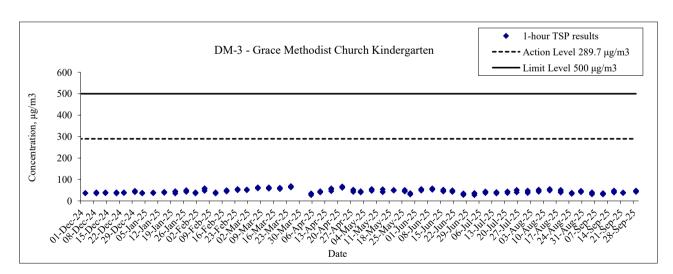




1-hour TSP Concentration Level



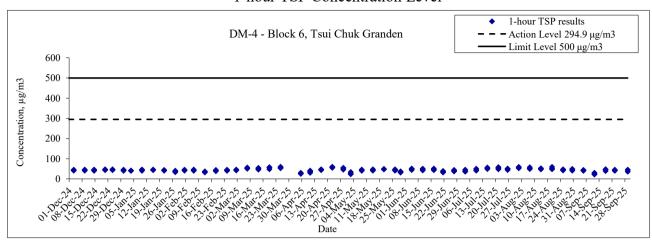


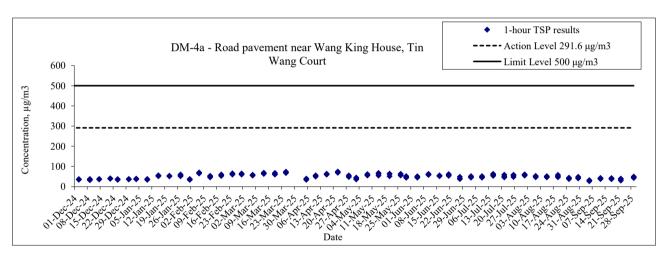






1-hour TSP Concentration Level









Appendix H

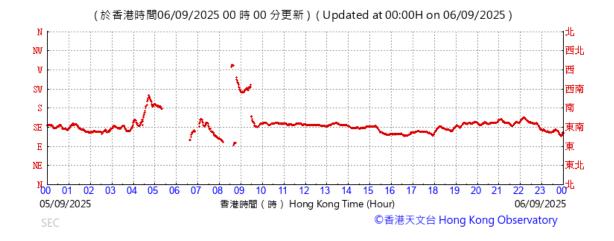
Extract of Meteorological Observations for Hong Kong (Kai Tak)





Appendix H - Extract of Meteorological Observations for Hong Kong (Kai Tak Wind Station)

Wind Direction



Wind Speed







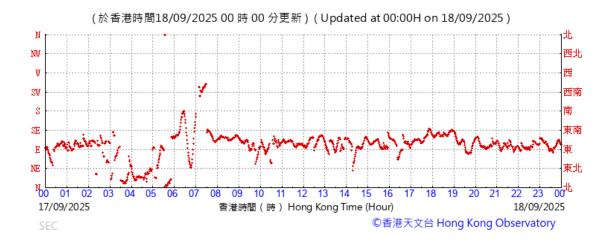


Wind Speed

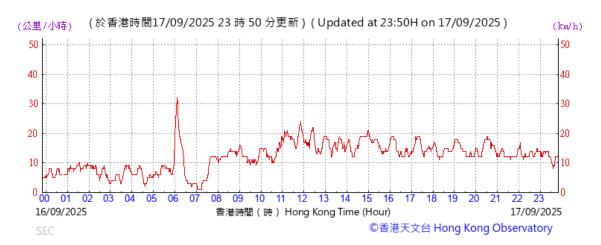








Weed Speed









Wind Speed









Wind Speed







Appendix I

Noise Monitoring Results and Graphical Presentation



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Chun Sing House, Tin Ma Court (NM-2)

Date	Weather	Start Time			dB(A)	
Dute	vi cutilei		Leq	L10	L90	Leq(30min)
		8:57	67.0	71.0	57.7	
		9:02	67.9	71.0	58.0	67.7
5/9/2025	Fine	9:07	67.7	70.5	57.0	
	9:12	68.1	71.4	57.4	07.7	
	9:17	67.4	71.4	57.4		
	9:22	68.0	70.3	59.7		
		8:39	66.3	67.7	62.2	
		8:44	66.5	68.4	64.6	
11/9/2025	Fine	8:49	66.1	67.5	64.6	66.0
11/7/2023	Tille	8:54	65.5	66.5	64.2	00.0
		8:59	66.0	66.9	64.4	
		9:04	65.2	65.9	64.0	
		9:09	66.9	70.3	65.8	
		9:14	67.4	71.0	66.2	67.5
17/9/2025	Cloudy	9:19	67.8	70.7	66.4	
17/7/2023	Cloudy	9:24	68.1	71.7	66.9	
		9:29	67.4	70.3	66.3	
		9:34	67.5	70.7	66.1	
		8:45	63.1	63.9	61.9	
		8:50	62.1	65.9	60.8	
22/9/2025	Fine	8:55	63.8	67.7	59.9	63.8
22/ 7/2023	Tille	9:00	64.5	66.9	61.2	05.0
		9:05	64.3	65.7	62.2	
		9:10	64.3	67.9	61.2	
		9:11	63.1	63.9	61.9	
		9:16	62.1	65.9	60.8	
29/9/2025	Fine	9:21	63.8	67.7	59.9	63.8
27.712023	1 IIIC	9:26	64.5	66.9	61.2	05.0
		9:31	64.3	65.7	62.2	
		9:36	64.3	67.9	61.2	
					Min:	63.8
					Max:	67.7
					Average:	66.2

Construction Noise Monitoring Stations: Grace Methodist Church Kindergarten (NM-3)

Date	Weather	Start Time			dB(A)	
Date	weather	Start Time	Leq	L10	L90	Leq(30min)
		9:39	62.5	63.3	61.1	
		9:44	62.3	63.2	61.2	
5/9/2025	Fine	9:49	62.6	64.1	61.1	62.7
31912023	Tille	9:54	62.4	63.9	60.8	02.7
		9:59	62.5	63.5	61.4	
		10:04	63.9	65.2	62.5	
		9:21	62.6	63.9	61.2	
		9:26	62.4	63.2	61.3	
11/9/2025	Fine	9:31	64.7	66.3	61.9	64.1
11/7/2023	Tille	9:36	65.5	67.0	64.4	04.1
		9:41	64.6	65.3	63.5	
		9:46	63.9	64.9	63.7	
		9:53	63.6	66.9	62.2	
		9:58	63.9	67.2	62.4	
17/9/2025	Cloudy	10:03	63.7	66.6	62.4	63.5
17/9/2023	Cloudy	10:08	62.9	66.3	61.5	63.5
		10:13	62.7	65.7	61.5	
		10:18	63.9	67.3	62.7	
		9:28	62.2	65.1	57.8	
		9:33	60.4	65.9	59.3	
22/9/2025	Fine	9:38	63.2	64.9	60.2	62.7
221712023	Tille	9:43	60.4	65.0	59.4	02.7
		9:48	64.3	67.8	62.2	
		9:53	63.9	65.8	61.0	
		10:06	62.4	65.8	61.2	
		10:11	61.9	64.8	60.4	
29/9/2025	Fine	10:16	62.8	65.8	61.4	62.8
211712023	Tine	10:21	62.5	65.8	61.1	02.0
		10:26	62.9	65.9	61.4	
		10:31	64.1	66.9	62.6	
	•		•	•	Min:	62.7
					Max:	64.1

Average:

63.2



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Block 6, Tsui Chuk Garden (NM-4)

Date	Weather	Start Time			dB(A)	
Bute	Weather		Leq	L10	L90	Leq(30min)
		13:32	62.1	65.3	56.4	
		13:37	61.0	63.5	56.2	
5/9/2025	Fine	13:42	62.5	65.4	55.3	62.6
3/3/2023	Tille	13:47	64.1	67.0	56.8	02.0
		13:52	61.1	64.5	55.6	
		13:57	63.7	66.9	55.4	
		13:38	72.5	74.7	65.7	
		13:43	68.7	71.5	64.6	
11/9/2025	Fine	13:48	69.1	71.8	64.6	69.5
11/7/2025	Time		68.7	71.7	61.1	07.5
		13:58	68.8	72.4	59.7	
		14:03	67.4	70.7	58.6	
		13:36	64.9	68.0	63.7	
	Cloudy	13:41	64.3	67.1	63.0	
17/9/2025		13:46	65.8	69.4	64.4	65.2
17/9/2023		13:51	66.0	68.8	64.7	03.2
		13:56	64.8	68.3	63.5	
		14:01	64.9	68.2	63.6	
		13:39	70.7	71.9	69.3	
		13:44	70.3	71.7	68.4	
5/9/2025 Fine 13:32 13:37 13:42 13:47 13:52 13:57 13:38 13:43 13:48 13:49 13:53 13:58 14:03 13:36 13:41 17/9/2025 Cloudy 13:46 13:51 13:56 14:01 13:56	13:49	68.4	69.0	64.4	68.5	
221912023	Tine	13:54	67.0	69.3	64.1	08.3
5/9/2025 1/9/2025 7/9/2025		13:59	65.4	67.0	63.1	
		14:04	66.4	69.5	62.3	
		13:54	66.3	69.3	65.0	
		13:59	65.5	68.7	64.1	
20/0/2025	Fine	14:04	66.8	69.9	65.3	66.3
231312023	1 IIIC	14:09	67.0	69.8	65.5	00.5
		14:14	66.3	69.3	64.9	
		14:19	65.4	68.6	64.0	
					Min:	62.6
					Max:	69.5
					Average:	66.4

Construction Noise Monitoring Stations: Road pavement near Wang King House, Tin Wang Court (NM-4a)

					dB(A)		
Date Weather	Weather	Start Time	Leq	L10	L90	Leq(30min)	With Free-Fiel Correction
		10:14	64.0	67.3	59.2		
		10:19	66.8	67.7	60.5		
5/9/2025	Fine	10:24	67.4	69.6	63.0	67.7	70.7
31912023	Tille	10:29	69.2	71.1	64.1	07.7	70.7
		10:34	68.3	70.0	65.1		
		10:39	68.8	70.9	60.4		
		9:56	62.1	65.2	56.2		
		10:01	63.3	66.4	58.2		65.0
11/9/2025	Fine	10:06	61.2	63.4	57.3	62.0	
11/9/2023	Fille	10:11	61.2	63.0	57.1	02.0	03.0
		10:16	60.4	62.5	56.7		
		10:21	63.1	66.2	57.7		
	Cloudy	10:31	65.7	69.2	64.3		
		10:36	66.0	69.5	64.8		
17/9/2025		10:41	67.1	70.2	65.8	67.5	70.5
1 //9/2023		10:46	68.3	71.9	66.8		70.3
		10:51	68.3	71.7	66.8		
		10:56	68.5	71.6	67.3		
		10:07	66.8	70.5	59.9	68.4	71.4
		10:12	69.9	71.2	60.4		
22/9/2025	Fine	10:17	68.9	70.1	66.0		
22/9/2023	rine	10:22	65.0	69.3	59.0	08.4	/1.4
		10:27	67.9	70.0	64.3		
		10:32	69.9	72.1	64.5		
		11:01	64.0	67.3	59.2		
		11:06	66.8	67.7	60.5		
20/0/2025	E*	11:11	67.4	69.6	63.0	(7.7	70.7
29/9/2025	Fine	11:16	69.2	71.1	64.1	67.7	70.7
		11:21	68.3	70.0	65.1		
		11:26	68.8	70.9	60.4		
•		•	•		Min:	62.0	65.0
					Max:	68.4	71.4
					Average:	66.4	69.4



Appendix I - Construction Noise Monitoring Results

Construction Noise Monitoring Stations: Wo Tin House, Shatin Pass Estate (NM-5)

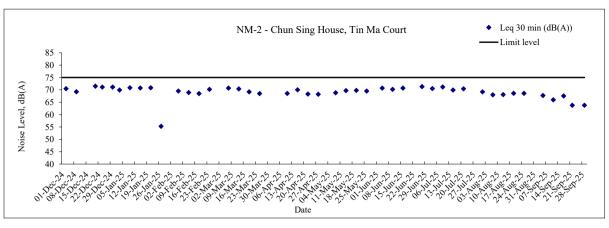
Date	Weather	Start Time			dB(A)	
Date	weamer	Start Time	Leq	L10	L90	Leq(30min)
		14:38	69.6	70.5	68.5	
		14:43	71.9	73.0	70.7	
5/9/2025	Din .	14:48	70.1	71.8	67.6	70.2
3/9/2023	rine	14:53	69.7	70.7	68.4	70.2
	2025 Fine 14 14 14 14 14 14 14 1	14:58	69.6	70.7	68.2	
		15:03	69.5	70.5	68.1	
		14:45	68.6	72.9	59.1	
		14:50	69.3	73.2	57.8	
1/9/2025	Din .	14:55	66.9	70.1	55.1	67.9
.1/9/2023	rine	15:00	67.1	70.4	56.8	07.9
		15:05	67.4	71.0	54.4	
		15:10	67.3	70.4	56.4	
		14:40	68.7	72.3	67.2	
	Claude.	14:45	70.3	73.3	68.9	
7/9/2025		14:50	70.7	74.2	69.2	69.8
1/9/2023	Cloudy	14:55	69.7	72.5	68.3	09.8
		15:00	69.5	72.7	68.2	
		15:05	69.7	72.9	68.4	
		14:44	67.2	67.9	52.2	
		14:49	69.0	71.0	64.3	
2/9/2025	Fina	14:54	66.5	68.4	61.2	66.8
.21912023	rine	14:59	64.8	68.2	62.1	00.8
		15:04	65.0	67.7	61.1	
		15:09	67.0	68.9	58.0	
		14:54	67.7	70.9	66.6	
		14:59	69.6	72.5	68.3	
0/0/2025	P'	15:04	69.7	73.2	68.3	(0.4
29/9/2025	rine	15:09	69.0	71.8	67.8	69.4
		15:14	70.6	73.9	69.3	
		15:19	69.4	72.2	67.9	
					Min:	66.8
					Max:	70.2
					Average:	68.7

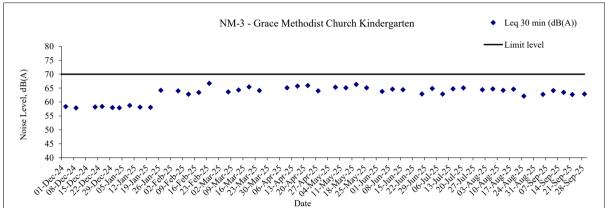
Construction Noise Monitoring Stations: Sheung Fung Street Customs Staff Quarters (NM-6)

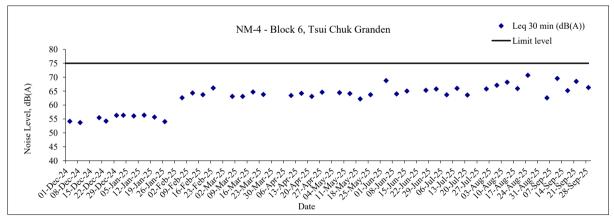
					dB(A)		
Date	Weather	Start Time	Leq	L10	L90	Leq(30min)	With Free-Fie Correction
		15:25	66.0	69.2	64.5		
		15:30	65.5	68.9	64.4		
5/9/2025	Fine	15:35	66.1	69.0	64.7	66.4	69.4
31912023	Tille	15:40	67.1	70.0	65.8	00.4	09.4
		15:45	66.3	69.3	64.9		
		15:50	67.1	70.7	65.8		
		15:31	63.8	66.6	55.4		
		15:36	65.4	67.5	57.8		67.8
11/9/2025	Fine	15:41	65.7	66.7	56.1	64.8	
11/9/2023	Tille	15:46	67.2	69.4	56.7	04.0	
		15:51	61.7	65.2	55.0		
		15:56	62.5	64.5	54.9		
		15:28	65.6	68.8	64.3	66.1	69.1
	Cloudy	15:33	66.2	69.6	65.1		
17/9/2025		15:38	66.5	69.9	65.2		
1 // 9/2023		15:43	67.4	70.2	66.0		
		15:48	64.8	68.2	63.4		
		15:53	65.3	68.2	63.8		
		15:36	71.0	71.9	54.2		72.5
		15:41	70.2	71.7	68.0		
22/9/2025	Fine	15:46	69.4	72.5	66.4	69.5	
221712023	Time	15:51	67.9	69.9	63.4	07.5	72.3
		15:56	69.0	71.0	67.9		
		16:01	68.9	72.3	65.0		
		15:55	66.6	69.9	65.5		
		16:00	67.0	70.6	65.8		
29/9/2025	Fine	16:05	67.2	70.1	66.1	66.6	69.6
29/9/2023	Time	16:10	67.5	70.6	66.0	00.0	05.0
		16:15	65.3	68.6	64.2		
		16:20	65.5	68.4	64.2		
		·			Min:	64.8	67.8
					Max:	69.5	72.5
					Average:	66.7	69.7

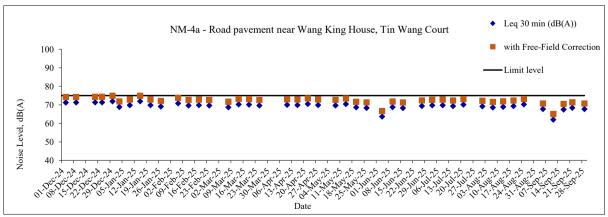


Construction Noise Monitoring Results



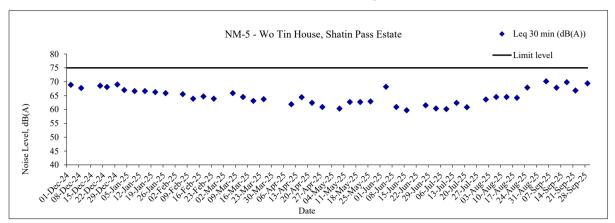


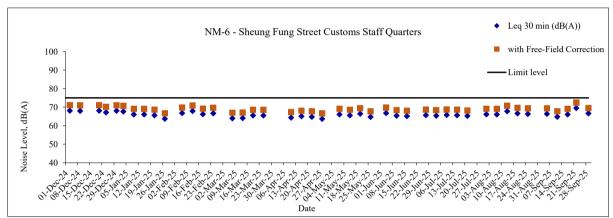






Construction Noise Monitoring Results









Appendix J

Waste Generation in the Reporting Month

Monthly Summary Waste Flow Table

Contract No.: 21/WSD/21 Contract Title: Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

	<i>A</i>	Actual Quantities of In	ert C&D Materials	Generated / Imported	d (in '000m3)			Actual Qua	entities of C&D Wastes G	enerated		Ad	ctual Quantit	ies of C&D W	/astes Recycl	ed
		.,														
														Plastics		İ
														(bottles/co		İ
Month														ntainers,pl		İ
Worth		Broken Concrete							Plastics					astic		İ
		(including rock for				Imported		Paper/	(bottles/containers,pla		Others, e.g.		Paper/	sheets/foa		İ
	Total Quantity	recycling into	Reused in the	Reused in other	Disposed as	C&D		cardboard	stic sheets/foam	Chemical	general		cardboard	m package		İ
	Generated	aggregates)	Contract	Projects	Public Fill	Material	Metals	packaging	package material)	Waste	refuse	Metals	packaging	material)	Yard Waste	Others
	(a+b+c+d)	(a)	(b)	(c)	(d)		(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)	(in '000m ³)
Jan-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Feb-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mar-23	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Apr-23	0.0571	0.0000	0.0000	0.0000	0.0571	0.0000	0.0000	0.0000	0.0000	0.0000	0.2006	0.0000	0.0000	0.0000	0.0069	0.0000
May-23	0.9598	0.0000	0.0000	0.0000	0.9598	0.0000	0.0000	0.0000	0.0000	0.0000	0.0241	0.0000	0.0000	0.0000	0.0000	0.0000
Jun-23	0.1485	0.0000	0.0000	0.0000	0.1485	0.0000	0.0000	0.0000	0.0000	0.0000	0.0380	0.0000	0.0000	0.0000	0.0000	0.0000
Sub-total	1.1655	0.0000	0.0000	0.0000	1.1655	0.0000	0.0000	0.0000	0.0000	0.0000	0.2628	0.0000	0.0000	0.0000	0.0069	0.0000
Jul-23	0.0672	0.0000	0.0000	0.0000	0.0672	0.0000	0.0000	0.0000	0.0000	0.0000	0.0062	0.0072	0.0034	0.0098	0.0000	0.0000
Aug-23	0.1859	0.0000	0.0000	0.0000	0.1859	0.0000	0.0000	0.0000	0.0000	0.0000	0.0166	0.0058	0.0258	0.0055	0.0000	0.0000
Sept-23	0.2556	0.0000	0.0077	0.0000	0.2479	0.0000	0.0000	0.0000	0.0000	0.0000	0.0140	0.0054	0.0092	0.0042	0.0000	0.0000
Oct-23	0.1288	0.0000	0.0559	0.0000	0.0729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0109	0.0057	0.0175	^0.3836	0.0000	0.0000
Nov-23	0.7188	0.0000	0.1095	0.5769	0.0324	0.0000	0.0000	0.0000	0.0000	0.0000	0.0067	0.0010	0.0043	0.0089	0.0000	0.0000
Dec-23	1.4268	0.0000	0.0655	0.8576	0.5037	0.0000	0.0000	0.0000	0.0000	0.0000	0.0067	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.9486	0.0000	0.2386	1.4344	2.2755	0.0000	0.0000	0.0000	0.0000	0.0000	0.3238	0.0251	0.0601	0.4120	0.0069	0.0000
Jan-24	0.6490	0.0000	0.0182	0.2782	0.3526	0.0000	0.0000	0.0000	0.0000	0.0000	0.0042	0.0000	0.0000	0.0000	0.0000	0.0000
Feb-24	0.2877	0.0000	0.0655	0.1309	0.0913	0.0000	0.0000	0.0000	0.0000	0.0000	0.0233	0.0000	0.0000	0.0000	0.0000	0.0000
Mar-24	2.2949	0.0000	0.0584	0.9393	1.2971	0.0000	0.0000	0.0000	0.0000	0.0000	0.0126	0.0000	0.0000	0.0000	0.0000	0.0000
Apr-24	1.0090	0.0000	0.0182	0.6731	0.3178	0.0000	0.0000	0.0000	0.0000	0.0000	0.0141	0.0000	0.0000	0.0000	0.0000	0.0000
May-24	2.0723	0.0000	0.2505	0.5567	1.2651	0.0000	0.0000	0.0000	0.0000	0.0000	0.0226	0.0002	0.0111	0.0009	0.0000	0.0000
Jun-24	1.7738	0.0000	0.6745	0.6746	0.4247	0.0000	0.0000	0.0000	0.0000	0.0000	0.0166	0.0032	0.0208	0.0011	0.0000	0.0000
Jul-24	0.6157	0.0000	0.0821	0.3131	0.2205	0.0000	0.0000	0.0000	0.0000	0.0000	0.0116	0.0012	0.0146	0.0016	0.0000	0.0000
Aug-24	0.5345	0.0000	0.1290	0.1820	0.2236	0.0000	0.0000	0.0000	0.0000	0.0000	0.0281	0.0023	0.0160	0.0017	0.0000	0.0000
Sept-24	1.0022	0.0000	0.0169	0.4064	0.5789	0.0000	0.0000	0.0000	0.0000	0.0000	0.0229	0.0032	0.0133	0.0008	0.0000	0.0000
Oct-24	1.2245	0.0000	0.2358	0.0000	0.9887	1.0876	0.0000	0.0000	0.0000	0.0000	0.0493	0.0026	0.0830	0.0004	0.0000	0.0000
Nov-24	1.7171	0.0000	0.1556	0.7403	0.8212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0177	0.0015	0.0033	0.0003	0.0000	0.0000
Dec-24	2.2567	0.0000	0.1023	1.6680	0.4864	0.0000	0.0000	0.0000	0.0000	0.0000	0.0253	0.0014	0.0590	0.0011	0.0000	0.0000
Total	15.4373	0.0000	1.8069	6.5625	7.0679	1.0876	0.0000	0.0000	0.0000	0.0000	0.2482	0.0156	0.2211	0.0079	0.0000	0.0000
Jan-25	1.1959	0.0000	0.4110	0.6449	0.1399	0.0000	0.0000	0.0000	0.0000	0.0000	0.0138	0.0045	0.0306	0.0032	0.0000	0.0000
Feb-25	0.7200	0.0000	0.1692	0.3513	0.1995	0.0000	0.0000	0.0000	0.0000	0.0000	0.0381	0.0009	0.0070	0.0003	0.0000	0.0000
Mar-25	2.1833	0.0000	0.0869	1.0069	1.0895	0.0000	0.0000	0.0000	0.0000	0.0000	0.0170	5.8400	0.0000	0.0000	0.0000	0.0000
Apr-25	3.6095	0.0000	0.0532	2.7593	0.7970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0093	0.0000	0.0000	0.0000	0.0000	0.0000
May-25	3.7729	0.0000	0.1059	1.7997	1.8673	0.0480	0.0000	0.0000	0.0000	0.0000	0.0360	0.0000	0.0000	0.0000	0.0000	0.0000
Jun-25	2.6238	0.0000	0.2127	1.3992	1.0119	0.0000	0.0000	0.0000	0.0000	0.0000	0.0176	0.0000	0.0000	0.0000	0.0000	0.0000
Jul-25	1.9866	0.0000	0.0482	1.3977	0.5407	0.0000	0.0000	0.0000	0.0000	0.0000	0.0093	0.0000	0.0455	0.0000	0.0000	0.0000
Aug-25	3.2159	0.0000	0.0714	1.9680	1.1765	0.0000	0.0000	0.0000	0.0000	0.0000	0.0260	0.0000	0.0000	0.0000	0.0000	0.0000
Sept-25	3.6814	0.0000	0.0469	2.6314	1.0031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0233	0.0000	0.0091	0.0000	0.0000	0.0000
Oct-25																
Nov-25																
Dec-25																
Total	22.9892	0.0000	1.2054	13.9584	7.8254	0.0480	0.0000	0.0000	0.0000	0.0000	0.1905	5.8454	0.0922	0.0035	0.0000	0.0000
Cumulative Total	42.3751	0.0000	3.2509	21.9553	17.1688	1.1356	0.0000	0.0000	0.0000	0.0000	0.7625	5.8861	0.3734	0.4234	0.0069	0.0000

Note:

Assume the density of soil fill is 2 ton/m3.

^{2.} Assume the density of rock and broken concrete is 2.5 ton/m3.

^{3.} Assume the density of non-inert C&D waste is 0.9 ton/m³.

[^]The waste recycled record for Oct 2023 has been updated.





Appendix K

Summary of Complaint, Notification of Summons and Prosecution and Cumulative Complaint Log





Statistical Summary of Environmental Complaints

Parastina Paris 1	Environmental Complaint Statistics							
Reporting Period	Frequency	Cumulative	Complaint Nature					
1 Jul 2025 - 31 Jul 2025	0	0	N/A					
1 Aug 2025 - 31 Aug 2025	0	0	N/A					
1 Sep 2025 - 30 Sep 2025	0	0	N/A					

Statistical Summary of Environmental Summons

Possession Posical	Environmental Summons Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 Jul 2025 - 31 Jul 2025	0	0	N/A				
1 Aug 2025 - 31 Aug 2025	0	0	N/A				
1 Sep 2025 - 30 Sep 2025	0	0	N/A				





Statistical Summary of Environmental Prosecution

D. C. D. I	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 Jul 2025							
_	0	0	N/A				
31 Jul 2025							
1 Aug 2025							
_	0	0	N/A				
31 Aug 2025							
1 Sep 2025							
_	0	0	N/A				
30 Sep 2025							

Cumulative statistics on Non-compliance (exceedances)

Reporting Period	Environmental Monitoring	Parameter	No. of project rela	ect ted lances	Total no. of non-project related exceedances	No. exceed relate the pr	lances ed to oject	Total no. of exceedances related to the project
			AL	LL	- CATOCOGGIANTO CO	AL	LL	the project
This Reporting Period	Air Quality	1-hour TSP	0	0	0	0	0	0
(1 – 30 Sep 2025)	Noise	$L_{eq(30 ext{-min})}$	0	0	0	0	0	0
Total no. recorded since	Air Quality	1-hour TSP	0	0	0	0	0	0
project commencement	Noise	$L_{eq(30 ext{-min})}$	0	1	1	0	0	0





Cumulative Complaint Log

EPD Complaint Ref No.	Date of Complaint	Complaint Location	Complaint Details	Investigation / Mitigation Action	Status
21/WSD/21_RO01 _20250624	30 May 2025	Work area near Tin Ma Court	Tree damage	As the tree wound was caused by mobilization of machine, the following measures should be implemented/maintained for preventing further damage to T05 or any new damage to retained trees. 1. Checking of retained trees during site inspections to ensure no further damage. 2. The Contractor and arborist should regularly inspect all retained trees within works areas 3. The height of drilling rig for pipe pilling works near the tree to be reduced from 6m to 3m to ensure no further damage to the tree when works resume. 4. Adequate tree protection measures such as setup of tree protection zones and sufficient buffer distances (horizontally and vertically) between the retained trees and the works site should be enhanced and properly maintained. 5. The Contractor is required to promptly report any tree(s) damage found in the future so RE. ET and IEC can react and prevent further damage to tree(s)	Completed